WIS Report 33
June 1995

US Army Corps of Engineers
Waterways Experiment Station

Wave Information Studies of U.S. Coastlines

Hindcast Wave Information for the U.S. Atlantic Coast: Update 1976-1993 with Hurricanes

by Rebecca M. Brooks, Willie Ann Brandon



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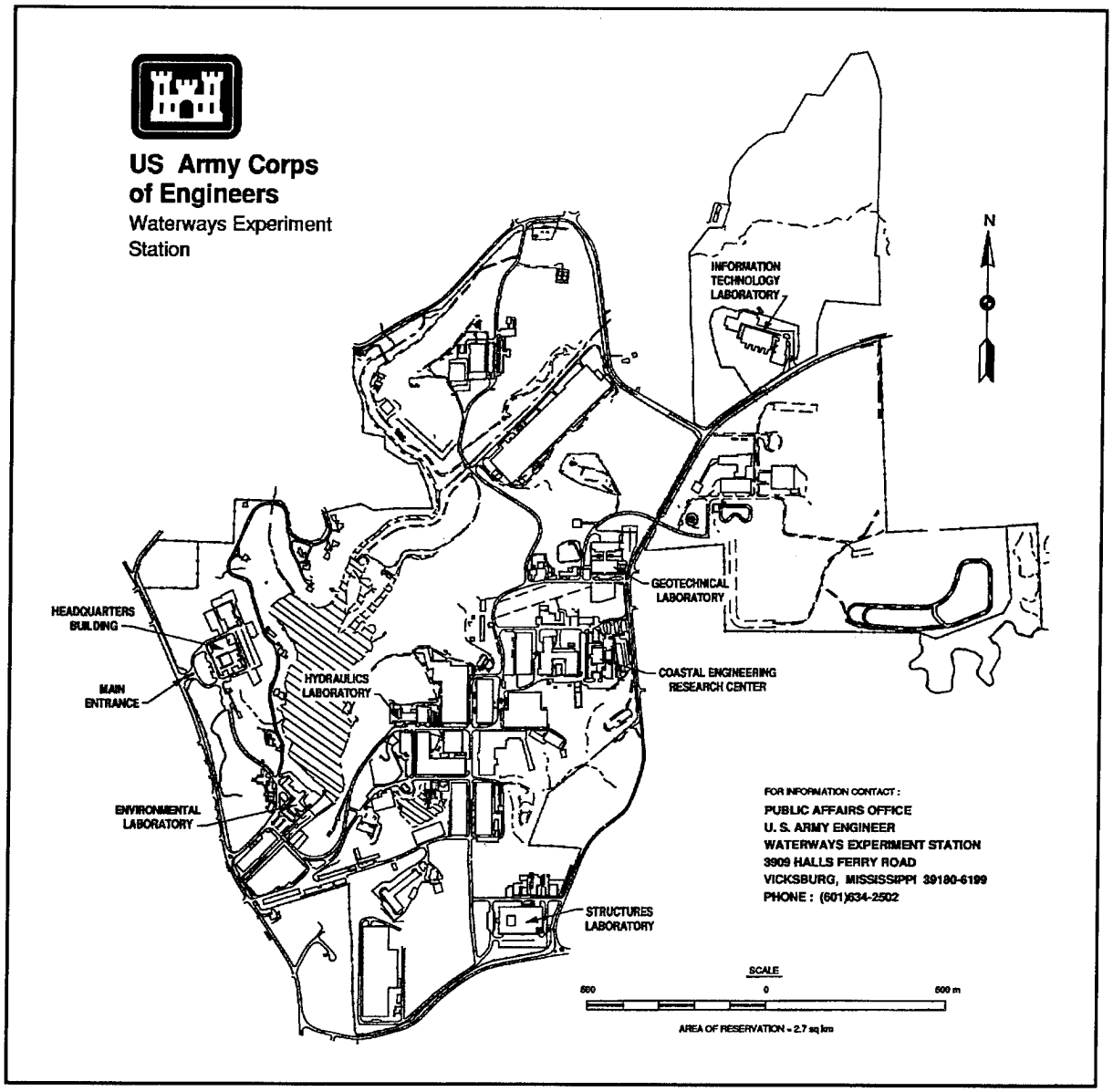
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Preface

In late 1976 a study to produce a wave climate for U.S. coastal waters was initiated at the U.S. Army Engineer Waterways Experiment Station (WES). The Wave Information Studies (WIS) was authorized by Headquarters, U.S. Army Corps of Engineers (HQUSACE) as part of the Coastal Field Data Collection Program, which is managed by the WES Coastal Engineering Research Center (CERC). Mr. John H. Lockhart, Jr., Mr. Charles B. Chesnutt, and Mr. Barry W. Holliday, HQUSACE, are Technical Monitors for the Coastal Field Data Collection Program. Ms. Carolyn M. Holmes, CERC, is Program Manager and Dr. Jon M. Hubertz, CERC, is WIS Project Manager.

This report, the 33rd in a series, provides additional wave information, which includes hurricane data, for 108 nearshore stations along the U.S. Atlantic coastline. This data tabulation is a continuation of the data presented in WIS Report 30. The period of record for this hindcast update is the 18 years from 1976 through 1993. The information was derived using wind fields from the U.S. Navy Fleet Numerical Meteorology and Oceanography Center (FNMOC) in Monterey, CA, and the present version of the WIS wave model. This report was written by Ms. Rebecca M. Brooks and Ms. Willie Ann Brandon, CERC. Application of the model for the extratropical hindcast update, yearly verifications during production, and preparation of all tables and statistical calculations were done by Ms. Brooks. Ms. Brandon conducted the hurricane portion of this hindcast. Ms. Barbara Tracy, CERC, was responsible for preproduction model tests to assure proper functioning of the computer code. Dr. Hubertz provided supervisory guidance and technical assistance throughout the study. Ms. Jane M. Smith, CERC, restructured the post-production computer code which identified primary and secondary wave components from the model's spectral output. Dr. Norman W. Scheffner, CERC, provided the source code which created snapshots used in generating the tropical cyclone wind fields. Mr. Dennis Laws, FNMOC, is acknowledged for his assistance in providing the raw data from which the numerical model input wind fields were generated.

The study was conducted under the direct supervision of Dr. Martin C. Miller, Chief, Coastal Oceanography Branch (COB), CERC, and Mr. H. Lee Butler, Chief, Research Division, CERC, and under the general supervision of Dr. James R. Houston and Mr. Charles C. Calhoun, Jr., Director and

Assistant Director, CERC, respectively. Ms. Mary Guzzo, Computer Science Corporation, assisted with the word processing of this report. Non-technical editing of this report was done by Ms. Janean Shirley, Information Technology Laboratory, WES.

At the time of publication of this report, Dr. Robert W. Whalin was Director of WES. COL Bruce K. Howard, EN, was Commander.

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Conversion Factors, Non-SI to SI Units of Measurement

Non-SI units of measurement used in this report can be converted to SI units as follows:

Multiply	By	To Obtain
inches	2.54	centimeters
knots (international)	0.514444	meters per second
miles (U.S. nautical)	1.852	kilometers

1 Introduction

Background

Wave Information Studies (WIS) have supplied wave climate information at nearshore locations along the U.S. Atlantic coast for the 20-year period 1956-1975, documented in WIS Report 2 (Corson et al. 1981), WIS Report 6 (Corson et al. 1982), and WIS Report 9 (Jensen 1983). This met a critical need for wave information in coastal engineering studies in the 1980's. Wave measurements which the National Oceanic and Atmospheric Administration (NOAA) recorded during the 1980's made verification of these WIS results possible by comparing statistics and the distributions of wave heights, periods, and directions from the two different time periods (1956-1975 and the 1980's). The statistics and distributions differed enough (Miller and Jensen 1990) that the original 1956-1975 hindcast for the Atlantic Coast was revised using an updated version of the WIS numerical wave model and a nested latitude-longitude grid system. The revised 20-year wave information published in WIS Report 30 (Hubertz et al. 1993) supersedes all previously published wave data for the Atlantic coast.

A separate study was conducted to produce hindcast wave information for Atlantic coast hurricanes during the 1956-1975 time period. These data, published in WIS Report 19, were referenced to the same spherical orthogonal grid as the original WIS extratropical hindcast (Abel et al. 1989). It should be noted that the Atlantic hindcast revision excludes tropical storms and hurricanes (Hubertz et al. 1993). As noted in WIS Report 4, hurricanes were not included due to the complexity and diversity of shapes, intensities, and internal structures of these storms (Resio, Vincent, and Corson 1982). Therefore, for the years 1956 through 1975 there are two separate databases referenced to two different grid systems. Hence, there was a definite need to include tropical storms and hurricanes in the update hindcast for the Atlantic coast.

Objective

In order to provide wave information along the Atlantic coast for an extended period of record, an update hindcast for an additional 18 years

(1976-1993) was performed using the U.S. Army Engineer Waterways Experiment Station (WES), Coastal Engineering Research Center's (CERC) directional spectral wave hindcast model. This model, an updated version of WISWAVE 2.0 (Hubertz 1992), is hereafter referred to as WISWAVE. To better represent a realistic wave climate, tropical storms and hurricanes were included in the 1976-1993 hindcast. This study is the first time WIS has produced an Atlantic coast wave climate database which combines tropical cyclones and extratropical events.

Selection criteria for tropical cyclones to be included in the hindcast were based on historical data regarding their storm track proximity to the Atlantic coast. To be selected, the tropical cyclone had to be at least a tropical storm. A tropical storm is defined as a tropical cyclone with winds stronger than 27 knots[1] but less than 64 knots. A hurricane is defined as a tropical cyclone whose wind speeds are 64 knots or greater. Usually, when a tropical cyclone reaches hurricane status, a well-defined eye has been formed. For purposes of this report, the term **tropical cyclone** refers to both tropical storms and hurricanes. All wind fields other than tropical cyclones are described as **extratropical**. Due to project time constraints, the only cyclones analyzed with any detail were the tropical cyclones.

This report summarizes the procedures used in the update hindcast and the yearly verifications for both the extratropical and tropical cyclone production calculations. These merged hindcast results, including annual statistics, are presented in Tables 3-9 and in the summary tables in Appendices A and B.

[1] A table of factors for converting non-SI units of measurement to SI units is presented on page vi.

2 Computational Grids

The computational grid for a numerical model application must be defined such that the topographical variations are well represented. The size of the grid cells, in terms of degrees, and the geographical placement of the grid are important, since the combination of these two criteria defines the area of interest for the study and affects the study results.

The selection of the grids was based on the grids used for the Atlantic revision as described in WIS Report 30 (Hubertz et al. 1993). The level 1 and level 2 grids used in the Atlantic revision are shown in Figures 1 and 2. The grids used for the Atlantic update are also latitude-longitude grids with 1.0-deg and 0.25-deg resolutions, respectively. These grids are shown in Figures 3 and 4.

Latitude-longitude grids were used in running both the wind and the wave models. Propagation along meridians (or components of propagation along meridians) is the equivalent of propagation along great circles. Consequently, there is no curvature away from a straight-line propagation along these axes; however, divergence/convergence effects must be incorporated for meridional propagation. For propagation along latitudes (parallels), there is no divergence/convergence; but, there is angular curvature that must be considered.

For this study, a 60-n.m. grid which covered the entire north Atlantic Ocean was used for level 1 (Figure 3). This grid covered the same geographical area as the level 1 grid used in the revision. That is, level 1 extends from latitude 10°N to 65°N and from longitude 5°W to 82°W. The southern input boundary points of the level 1 grid were introduced in the update study to allow for tropical cyclones approaching from the south. All water depths in the computational grid area for level 1 were considered to be deep water and were represented with a standard depth of 999 m.

To obtain better resolution of the coastline, a 15-n.m. grid covering the continental shelf area was used for level 2 (Figure 4). This level 2 grid begins at latitude 22.75°N and extends to 45.25°N and from longitude 64.75°W to 81.5°W. The size of the computational grid for level 2 was enlarged in the update hindcast to allow for spatial resolution of hurricanes. Also, the additional water points in the land-sea matrix of the model allowed

better definition of the study area. As in the previous Atlantic hindcast, the Bahamas Banks and shoals off the southeast coast of Florida were included in the model's depth grid. Bathymetric data used for the level 2 grid were recorded at mean low water.

3 Numerical Model Input Winds

Extratropical Wind Fields

Winds over the ocean surface are the primary driving mechanism for generating waves via a numerical spectral wind-wave growth model. The surface wind fields used as input for the original Atlantic coast hindcast were calculated from atmospheric pressure fields, assimilated observations of wind speeds from ships, and a parameterized boundary layer wind model (Resio, Vincent, and Corson 1982). Since these wind fields were referenced to a spherical orthogonal grid, an interpolation scheme was applied to obtain wind fields referenced to the latitude-longitude grid used for the 1956-1975 revised Atlantic coast hindcast (Hubertz et al. 1993).

For continuity in the 1976-1993 Atlantic update hindcast, WIS used similar latitude-longitude grids as in the revision (Figures 1-4), but discarded the historical approach used to generate the earlier wind fields. Recent significant advances in atmospheric modeling capabilities and operational numerical models have made both historical and near real-time wind products available on global grids (Demirbilek, Bratos, and Thompson 1993).

It was advantageous for WIS to obtain products related to surface winds from the U.S. Navy Fleet Numerical Meteorology and Oceanography Center (FNMOC) in Monterey, CA. The Navy's global numerical weather prediction is based on the Navy Operational Global Atmospheric Prediction System (NOGAPS). NOGAPS is a global spectral model which produces output fields on grids with 2.5-deg and 1.25-deg horizontal resolution (Hogan and Rosmond 1991). The wind product WIS used for this update hindcast was generated on the NOGAPS 2.5-deg "global_73x144" spherical projection grid (Figure 5). Global wind fields in terms of U-V wind components at 19.5-m elevation for the period 1976-1993 were obtained from FNMOC and archived by WIS. For reference purposes, FNMOC identifies these 6-hr wind fields with the label A29/A30.

Beginning in 1993 and working backwards, each month and year of the A29/A30 data set was processed and checked to assure that the wind components were continuous in time. For the occurrences when the time gaps in the data were less than 10 consecutive 6-hr intervals, a proportional linear

temporal interpolation scheme was utilized to fill in the time series. In 1976, when as much as 2 weeks of data were missing and it was not feasible to use this approach, the wind data were supplemented with data from another source. Specifically, WIS used wind data from the National Meteorology Center to augment the data from FNMOC.

Since the areas of interest for this update study are the north Atlantic Ocean (level 1) and the U.S. east coast (level 2), as described in Chapter 2, a subsection of FNMOC's 2.5-deg global grid was extracted prior to applying the bilinear algorithms used in the spatial interpolation schemes. Two separate routines, one for each of the hindcast grids, were used to calculate values for the U and V wind components. The final wind generation program used these components to produce the 6-hr input wind fields required for the numerical hindcast model. These 6-hr winds were interpolated in time to create the 1-hr wind fields needed as background winds in the tropical cyclone hindcast.

Tropical Cyclones

The National Hurricane Center (NHC) maintains a computer file for North Atlantic tropical cyclones. This file contains the dates, tracks, wind speeds, and central pressure values, if available, for all tropical cyclones which occurred from 1886 to the present. These data are available on magnetic tape at 6-hr intervals recorded at 0000, 0600, 1200, and 1800 UTC. This database is updated annually and is called the HURricane DATa (HURDAT) tape (Jarvinen, Neumann, and Davis 1984). Information from this HURDAT tape was used as input to a source code written by Dr. Norman W. Scheffner, CERC. This code created representative snapshot storm parameters used in generating the tropical cyclone wind fields.

To better define each of the tropical cyclones, various weather reports were used to obtain any additional information available, which could be used to supplement the data from the HURDAT tape. In some instances, more information was available along the storm track. Sometimes the minimum pressure outside the 6-hr intervals recorded on the HURDAT tape was available. Occasionally, the pressure at landfall was quoted.

The tropical cyclone winds for the wave hindcast were modeled using a system of programs called HURWIN (Thompson 1993). These source codes generated 1-hr winds from the snapshot parameters. Details on the numerical model are documented in Cardone, Greenwood, and Greenwood (1992). This system contains an efficient numerical scheme to solve the equation of horizontal motion vertically averaged through the depth of the Planetary Boundary Layer (PBL) for a tropical cyclone, written in coordinates fixed to the earth as:

$$\frac{d\hat{\bar{V}}}{dt} + f\bar{k} \; X \; \hat{\bar{V}} = \; - \frac{1}{\rho}\nabla p + \nabla \bullet (K_H \nabla \hat{\bar{V}}) - \frac{C_D}{h}|\hat{\bar{V}}|\hat{\bar{V}} \qquad (1)$$

where

$$\frac{d}{dt} = \frac{\partial}{\partial t} + \hat{\bar{V}} \bullet \nabla;$$

X = vector or cross product (vector multiplication)

$\bullet$ = dot or scalar product (vector multiplication)

$\frac{\partial}{\partial t}$ = time change local to the fixed coordinates

∇ $= \frac{\partial}{\partial x} + \frac{\partial}{\partial y}$ = two-dimensional del operator

$\hat{\bar{V}}$ = vertically averaged horizontal velocity

f = Coriolis parameter

$\bar{k}$ = unit vector in the vertical direction

ρ = mean air density

p = combined central pressure of the storm and the geostrophic flow

K_H = horizontal eddy viscosity coefficient

C_D = drag coefficient

h = depth of the planetary boundary layer

The PBL model allows for the calculation of transformations for a maximum of six terrain categories (Cardone, Greenwood, and Greenwood 1992). Several tests were conducted to determine if a mixed terrain grid would have an effect on wind and wave results. Based on comparisons to measured data, these tests showed that the results were better with a mixed terrain grid. Therefore, to better represent real data, a mixed terrain grid was used to calculate the tropical cyclone winds for both grid levels. Once these PBL winds were calculated, level 1 background winds were added to produce a smooth wind field. This "blending" process, which merged the PBL-modeled winds with the winds generated from FNMOC's global wind

components, created the final winds needed for the level 1 tropical cyclone hindcast.

The 1.0-deg blended wind fields described above were bilinearly interpolated to produce winds on the 0.25-deg grid, which were then used as the background winds for level 2. Next, level 2 tropical cyclone winds were modeled by HURWIN and blended into these interpolated winds. The final level 2 tropical cyclone wind fields were compared to measured data to determine their accuracy. If the differences between the two data sets showed bad comparisons, the input was analyzed to determine if any input parameters needed changing (i.e. radius, pressure, etc.). Based on literature reports, parameters such as radius of maximum winds, far field pressure, or minimum pressure were adjusted and a new set of wind fields was generated and compared to the measured data. After verification, these wind fields were then used as input for WISWAVE. It should be noted that the final blended wind fields have a temporal spacing of 1 hr for both grids. These 1-hr winds were used for the tropical cyclone model applications, since they represent actual hourly tropical cyclone conditions.

4 WIS Hindcast 1976-1993

Numerical Wave Model

The model WISWAVE is based on the assumption that the wave field on a water body can be represented by a distribution of energy in discrete frequency and direction elements. The change in energy in each element as a function of time at all specified points on the water body is determined by the radiative transfer equation (Resio and Perrie 1989):

$$\frac{\partial E(f,\theta)}{\partial t} = \overline{c}_g(f) \bullet \nabla E(f,\theta) + \sum_{i=1}^{N} S_i \qquad (2)$$

where

$E(f,\theta)$ = energy density at frequency f and propagation direction θ
$\overline{c}_g$ = group velocity vector for that frequency-direction element
S_i = source/sink mechanism

WISWAVE is a computer code that simulates the growth, propagation, and decay of wave energy as a function of space, time, frequency, and direction. Wave growth occurs through transfer of energy from the wind to the sea surface.

The model has the option to employ nested grids of finer resolution to more closely approximate land-water boundaries and bathymetric features near sites of interest. Also, the propagation routines and source functions in WISWAVE have the capability to utilize arbitrary depths.

Hindcast Wave Data

Both the tropical cyclone and extratropical production calculations were run on the CRAY C90 supercomputer in the WES High Performance Computing Center, Information Technology Laboratory. The nested grid option was employed using two levels of resolution, as discussed in Chapter 2. The circled points in Figure 3 represent level 1 grid points which supply boundary information to the level 2 grid. For this update hindcast, the level 1 boundary

points needed for level 2 are located along the eastern and southern edges of the level 2 grid (Figure 4). Level 2 grid points between the coast and the boundary input points from level 1 are computational water points with associated depths.

This WIS update was accomplished by conducting two separate hindcast studies, both applying WISWAVE. The extratropical portion of the study used 3-hr wind fields generated from FNMOC global wind components via temporal and spatial interpolation routines. However, it was necessary to use hourly input winds for the tropical cyclone simulations to ensure proper modeling of the storm peaks. These 1-hr blended wind fields were assimilated from NHC data, national weather sources, and the HURWIN system of programs. After production, the 1-hr tropical cyclone data were merged with the 3-hr hindcast wave data.

The results of this update hindcast are intended to be a continuation of the data from the revised 20-year hindcast, therefore, the model output stations are the same as those published in WIS Report 30 (Hubertz et al. 1993). These model output stations are shown in Figure 6 as numbered dots along the east coast of the United States. The latitude-longitude coordinates for each location and its associated water depth are listed in Table 1. Hindcast wave information, including the effects of tropical cyclones, is available every 3 hr for each of these stations from 1976 through 1993.

5 Verification and Statistics

After each year of wave data was calculated, extensive comparisons and time history plots were produced as an intermediate verification of the results. These statistics and plots provided a continuous check regarding the accuracy and reliability of the resultant model data.

The measured data used in the comparisons were retrieved from CERC's Coastal Engineering Data Retrieval System (CEDRS) library archive. These buoy data and Coastal-Marine Automated Network (CMAN) data were obtained by CEDRS personnel from NOAA's National Data Buoy Center, Stennis Space Center, MS.

Figure 7 shows the locations of the Atlantic NOAA buoy and CMAN stations that recorded wave data during the hindcast period. Their latitude-longitude coordinates and water depths are listed in Table 2. Statistical analyses were performed for any time frame for which measured data were available. However, due to the sparseness of the measured data prior to 1980, this report summarizes the statistical results for the years 1980 through 1993. If no value is tabulated for a particular buoy and year, there were no measured data available for comparisons. Tables 3 through 9 present the following annual statistics:

H_{mo} *RMSD* = wave height root mean square difference

T_p *RMSD* = peak wave period root mean square difference

H_{mo} *Bias* = wave height bias

T_p *Bias* = peak wave period bias

N = number of occurrences compared for the statistics

r = wave height correlation

r = peak wave period correlation

where

H_{mo} = spectrally based wave height

T_p = peak wave period

W = WISWAVE hindcast data

M = NOAA buoy/CMAN measured data

$$RMSD = \sqrt{\frac{1}{N}\sum_{i=1}^{N}(W_i - M_i)^2} \tag{3}$$

$$Bias = \bar{W} - \bar{M} \tag{4}$$

$$r = \frac{\sum_{i=1}^{N}(M_i - \bar{M})(W_i - \bar{W})}{\sqrt{(\sum_{i=1}^{N}(M_i - \bar{M})^2)(\sum_{i=1}^{N}(W_i - \bar{W})^2)}} \tag{5}$$

and $Mean = \bar{X} = \frac{1}{N}\sum_{i=1}^{N} X_i$ for either WISWAVE or NOAA data.

The standard deviation about the mean was calculated for both wave height and peak wave period. These results, provided in the summary tables (Appendix A), are defined as:

$$\sigma = \sqrt{\frac{1}{N-1}\sum_{i=1}^{N}(W_i - \bar{W})^2} \tag{6}$$

Table 10 presents comparisons of the statistical results from the Atlantic revision[1] and the Atlantic update hindcasts for the year 1990. The 0.0 and -0.0 listed in the table are not true zeros, but represent very small numbers. That is, a value of -0.0 represents a number between 0.0 and -0.04, and 0.0 indicates a number between 0.0 and 0.04. Figures 8 through 11 show comparison plots of wave height, wave period, wind speed, and wind direction for 4 of the 14 buoys listed in Table 10. These buoys (44011, 44008, 44004, and 41001) recorded data during 1990 and are located in the

[1] In conjunction with the 1956-1975 revised Atlantic hindcast, a 1-year hindcast for 1990 was done for verification purposes (Hubertz et al. 1993). The input winds for this study were generated from FNMOC's global wind components, but tropical cyclones were not modeled and blended into these wind fields.

proximity of the storm track of Hurricane Lili (Figure 12). Hurricane Lili was a tropical cyclone in the north Atlantic that occurred from 11 October 1990 until 15 October 1990.

The verification results presented in Table 10 indicate that the update hindcast for 1990 provides a better representation of the wave climate than the revised hindcast. The wave heights, periods, and wind speeds and directions from the Atlantic update show a closer approximation to measured data (Figures 8-11). These results are somewhat higher than actual observations, but better than those from the earlier hindcast. The improved results are attributed to the present version of WISWAVE and the inclusion of tropical cyclones in the wind fields. Figures 8 through 11 show good comparison between tropical cyclone results and measured data for 1990. Therefore, the Atlantic update wind and wave information is judged to be representative of measured conditions.

6 Results

Hindcast results from 1976 through 1993, which include the effects of tropical cyclones, are available for the 108 stations shown in Figure 6. Wave results are available as digital time series or as tabulated summaries (Appendix A). Each record of the time history contains the WIS station number, date-time identifier (UTC), spectrally based wave height (m), peak and mean wave periods (sec), mean wave direction (deg "from" in a compass sense), wind speed and wind direction (m/sec, same directional convention as waves), the frequency spectrum (percentage of m^2/hz), and the mean direction in each frequency band (percentage of 360 deg). This record format was designed to provide basic wave information such as wave height, period, and direction, as well as a more complete spectral description of wave conditions. The format and documentation of these output records are described in detail in WIS Report 27 (Hubertz 1992), or in a text file, when individual station data are provided on diskette. The 1976-1993 time series for one station can be provided in a compressed format on two high-density 3½-in. disks for use on personal computers. Approximately 7 MB of disk space is required to restore the entire 18-year data file for one station, if formatted as described above.

WIS used the computer code SPEctral COMPonents (SPECOMP), written by Ms. Jane M. Smith, CERC, to post-process each station's spectral file output from WISWAVE. This program determines the two major components in frequency and direction of the directional spectra. This alternate format is useful when an application requires better resolution of directional spectral wave energy than the resolution possible using only the spectral height, peak period, and peak mean direction, but still confining the information to triplets of height, period, and direction. Each station's 18-year component file, with accompanying documentation, can be provided in a compressed format on one high-density 3½-in. diskette. Less disk space, approximately 4 MB, is required to restore a component data file for one station. Time series of results, in either format, and tabulated statistical summaries are available. For more information, contact the WIS project office (601-634-2028).

7 Explanation of Summary Tables

The 1976-1993 hindcast wave results are summarized and tabulated in a 4-page format for each station. These summary tables are presented in Appendix A. The first page contains the distribution of spectral wave height, peak period, and peak mean direction in 0.5-m height, 1-sec period, and 22.5-deg direction categories by month for the 18-year period. These tables are useful in showing the distribution of height, period, and direction through the range of their values and in time through the year. As an example of using this table, at station 1 (page A-3) for all Januaries from 1976 to 1993, inclusive, there were 2,120 occurrences of hindcast waves with a height between 0.50 and 0.99 m, inclusive. The total number of possible occurrences for each month is shown at the bottom of each monthly column. The total for February differs from the other months due to the length of the month (28 days), plus an extra day in the month every 4 years, or leap year. The total number of occurrences in each category is shown in the last column on the right side of the page. Since there are 18 years of data at 3-hr intervals, the total possible number of occurrences is 52,600. As in WIS Report 30 (Hubertz et al. 1993), the *number* of occurrences is reported, rather than *percent* occurrences. The number of occurrences is used to explicitly account for each occurrence. The truncation of percentage values can omit indication of rare occurrences and possibly yield cumulative totals less than 100 percent.

The next set of tables shows the number of occurrences by 1-m height and 2-sec period categories for eight different direction bands, each 45 deg in width, and a final table for all directions. These tables are useful to find the dominant direction from which wave energy is approaching a location and how it is distributed in height and period. For example, at station 1 (page A-4), there were 133 occurrences of waves with a height between 2.00 and 2.99 m and period between 9.0 and 10.9 sec from the direction band between 67.50 and 112.49 deg centered about 90.0 deg. Height and period category summations are shown along the bottom row and right-hand column, respectively, as in the occurrences-by-month tables discussed above. Note at this station, there were 28,739 occurrences out of a total of 52,600 from directions between compass directions of ENE and ESE, and most of these are low in height and period.

The distribution of winds in 2.5-m/sec and 45-deg speed and direction categories, on a monthly basis, is shown in the next two tables. These tables are useful for understanding the climatology of winds at a particular site. Local sea conditions and wind-driven currents can be inferred from the wind climatology. At station 1, winds are generally less than 7.5 m/sec and are from the east or northeast.

The last two tables for station 1 (page A-6) summarize mean and maximum wave heights by month for each of the 18 years hindcast. The maximum wave height table also includes the peak period and peak mean wave direction associated with the maximum wave height occurrence. Means and maxima by month for all years, and by year for all months, are summarized on the bottom row and right-hand column, respectively. Associated peak periods and peak mean directions are included in the summary row and column of the maximum table.

As an example, the maximum wave height in 1976 at station 1 was 3.8 m, its associated peak period was 9 sec, and its associated peak mean direction was from approximately 90 deg. Since the peak directions in this table are divided by 10, the tabulated value is the mid-range of a 10-deg direction band. The actual value for the peak direction, represented by 9, could have been any direction from 85 to 94 deg. The largest wave height occurring at station 1 in any of the Januaries during the 18-year period was 5.8 m with an associated peak period of 10 sec and peak direction of 90 deg.

The last four lines of the summary tables for each station provide statistics for the entire 18-year period of record. Line 1 contains the maximum wave height, its associated peak period, associated peak mean direction, and date of occurrence. Line 2 contains the maximum wind speed, its associated wind direction, and date of occurrence. Overall mean wave height and mean peak period are given on line 3. The standard deviation about the mean for wave height and peak wave period are reported on line 4.

Appendix B contains estimated wave heights for return periods of 2, 5, 10, 20, 25, and 50 years based on the 18 years of hindcast results and the Fisher-Tippett Type I and Type II distributions. The values were calculated using the methods employed in the significant wave height analysis module of the Automated Coastal Engineering System (ACES) (Leenknecht, Szuwalski, and Sherlock 1990).

These summary tables and the model output records from which they were derived are a verified source of information for the wind and wave climate along the east coast of the United States. This information can be used to gain a basic understanding of wind and wave conditions at a particular site and also as input to more specific modeling associated with coastal engineering projects. Present coastal engineering practice requires site-specific investigations with possible alternative model applications. Thus, higher resolution wave information close to the shore is more efficiently produced, as required, making use of offshore wave information, such as provided by this

hindcast, rather than applying a higher resolution level of modeling along the entire coastline. The 1976-1993 hindcast results for the Atlantic coast, which include the effects of tropical cyclones, are a continuation of the 1956-1975 hindcast wave information summarized in WIS Report 30 (Hubertz et al. 1993).

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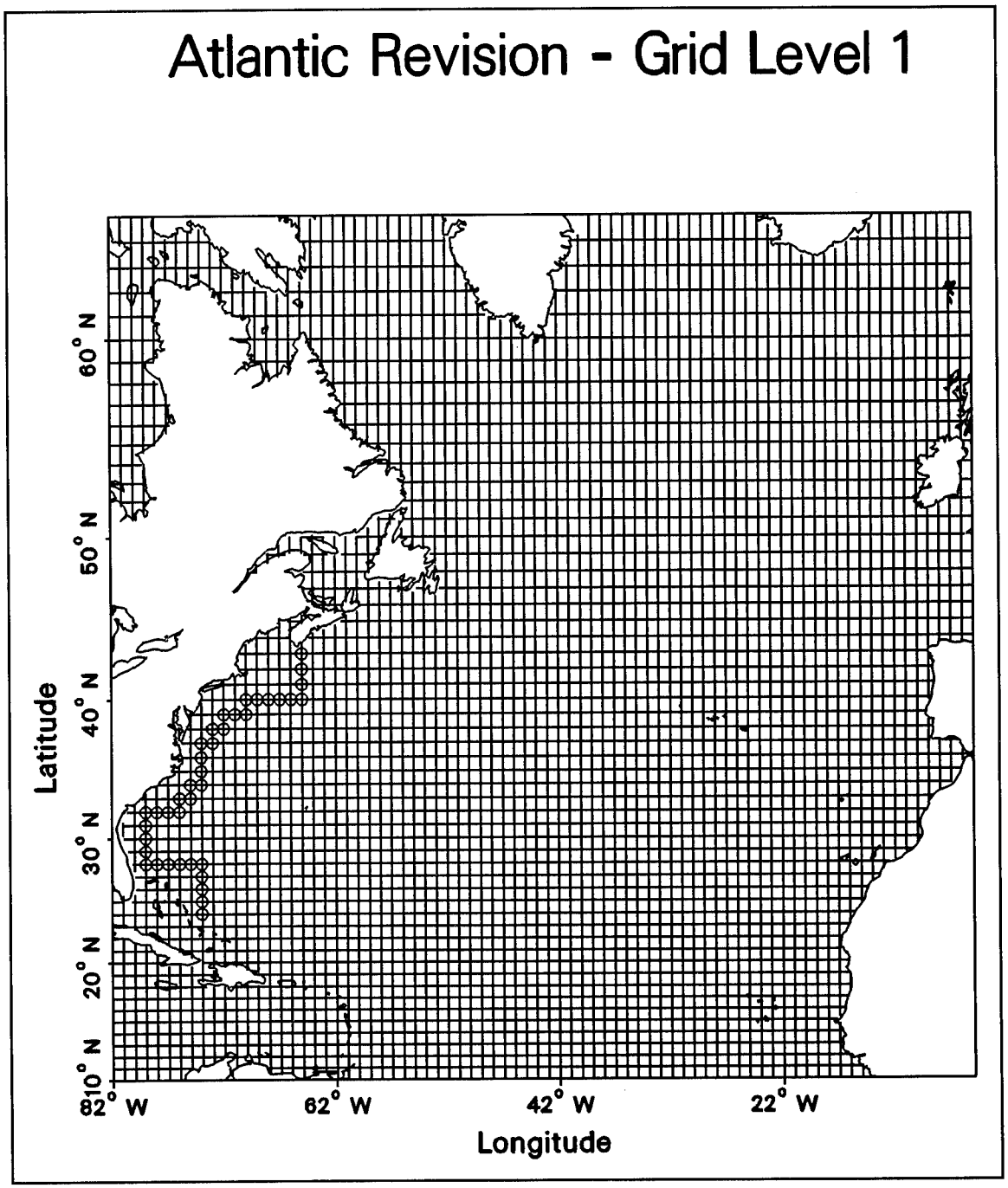


Figure 1. WIS Atlantic Revision level 1 latitude-longitude grid (1.0-deg resolution). Open circles represent input boundary points for level 2

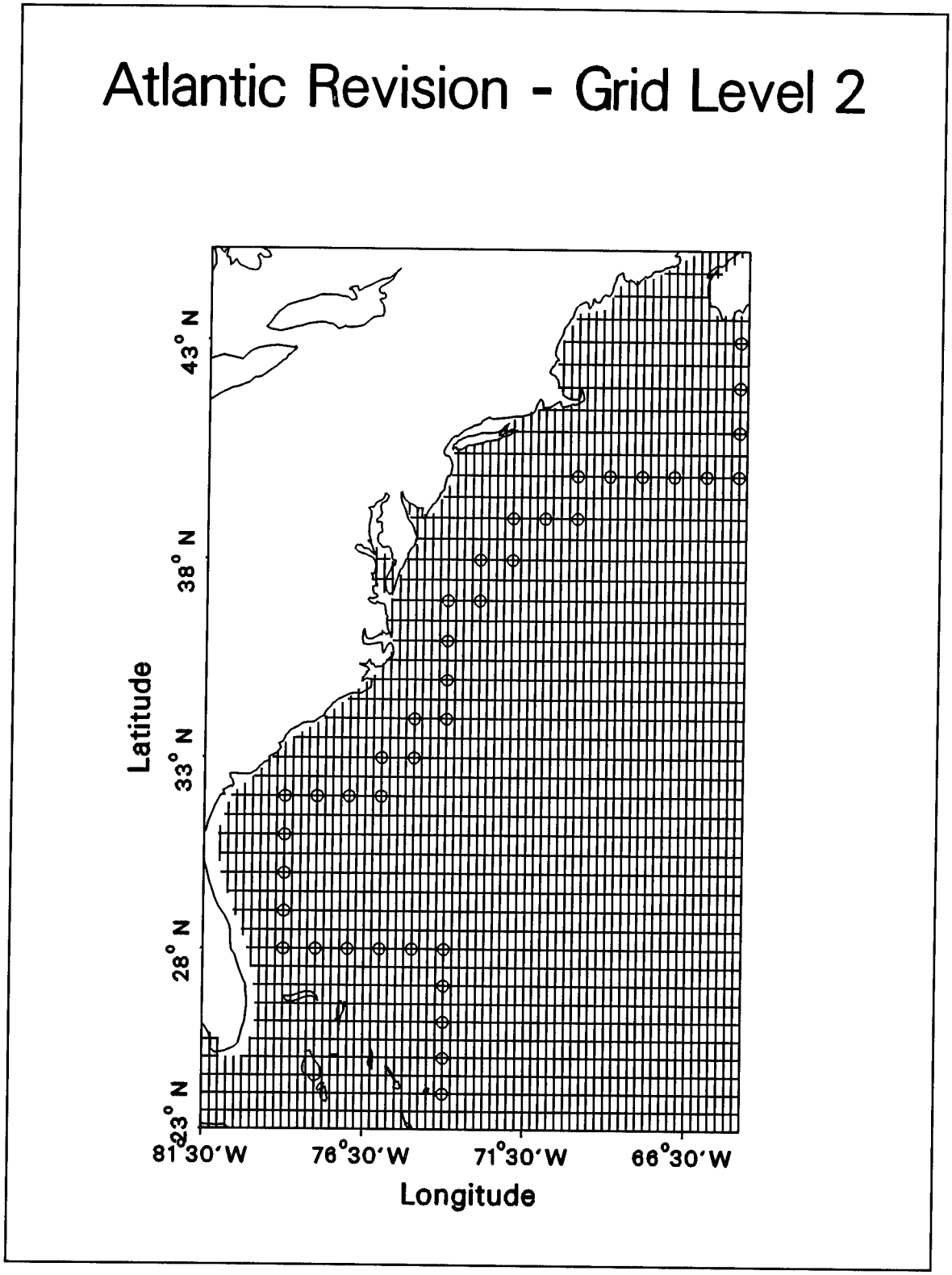


Figure 2. WIS Atlantic Revision level 2 latitude-longitude grid (0.25-deg resolution). Open circles represent input boundary points from level 1

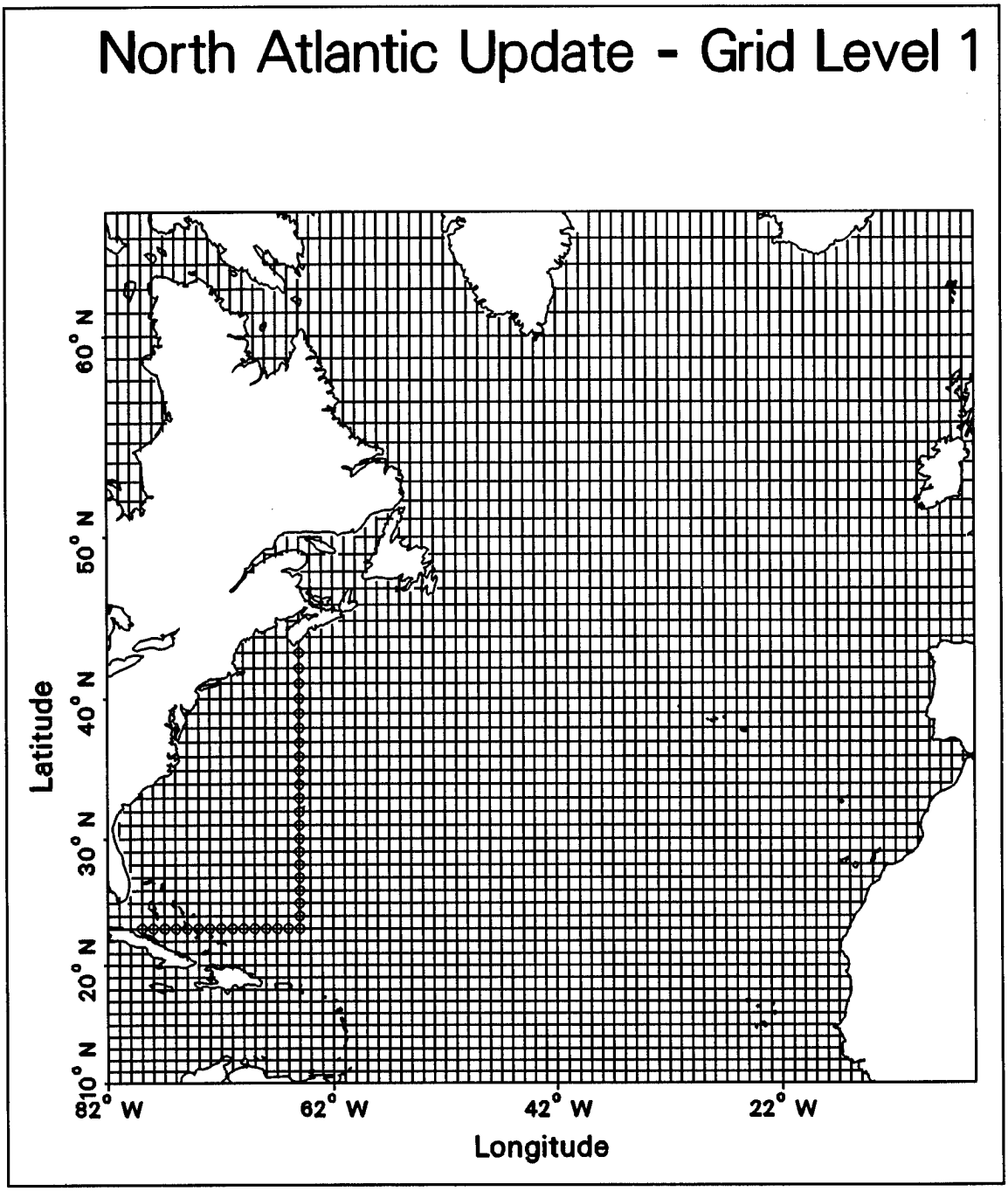


Figure 3. WIS Atlantic Update level 1 latitude-longitude grid (1.0-deg resolution). Open circles represent input boundary points for level 2

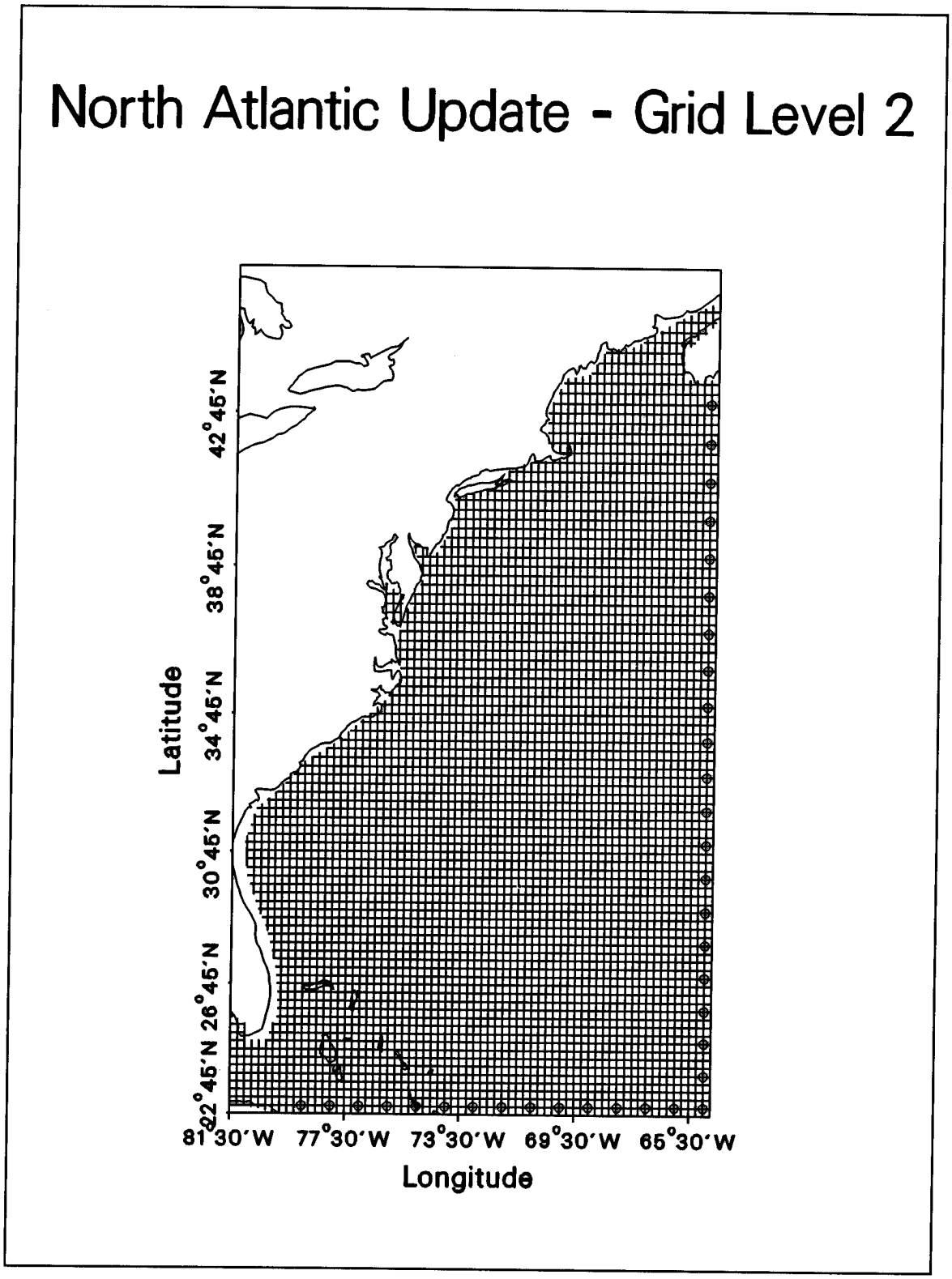


Figure 4. WIS Atlantic Update level 2 latitude-longitude grid (0.25-deg resolution). Open circles represent input boundary points from level 1

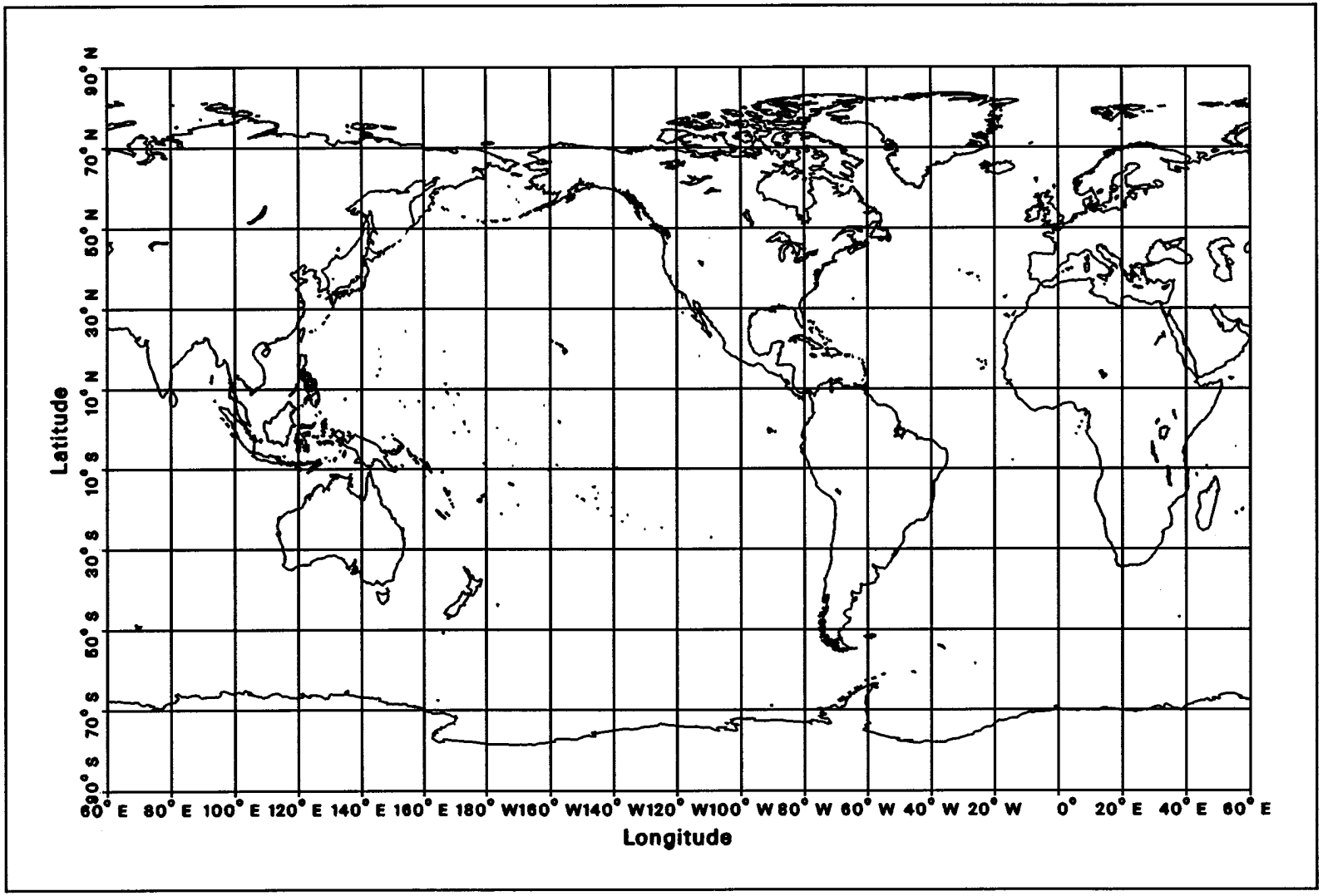


Figure 5. U.S. Navy's NOGAPS global spherical projection grid boundaries

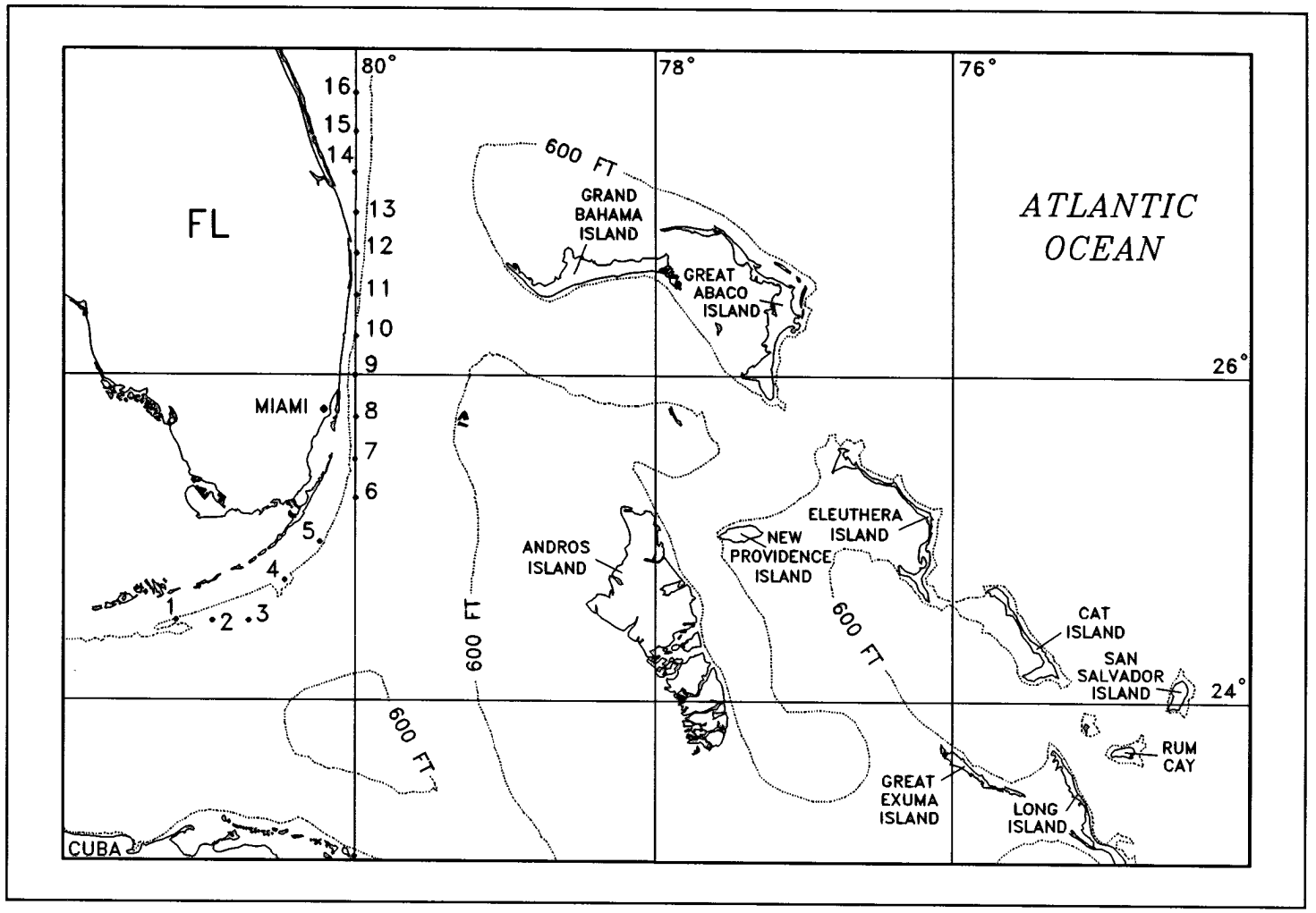


Figure 6. WIS Atlantic level 2 hindcast stations (solid dots). NOAA buoy locations shown as circled dots. Solid thin line represents actual geographical coastline. Computational land-water boundary for the model indicated with solid bold line. Dotted lines identify continental shelf boundary. (Sheet 1 of 4)

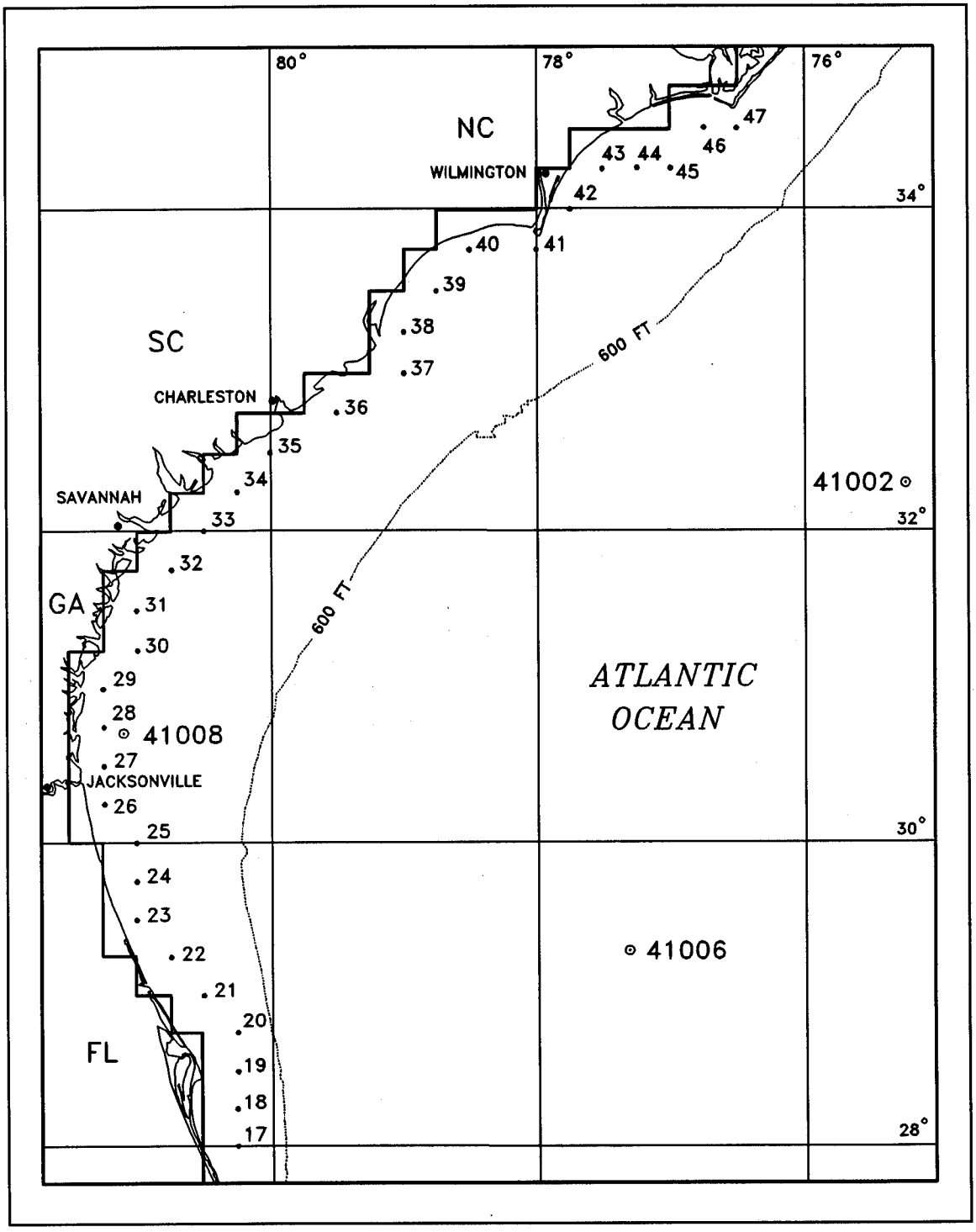


Figure 6. (Sheet 2 of 4)

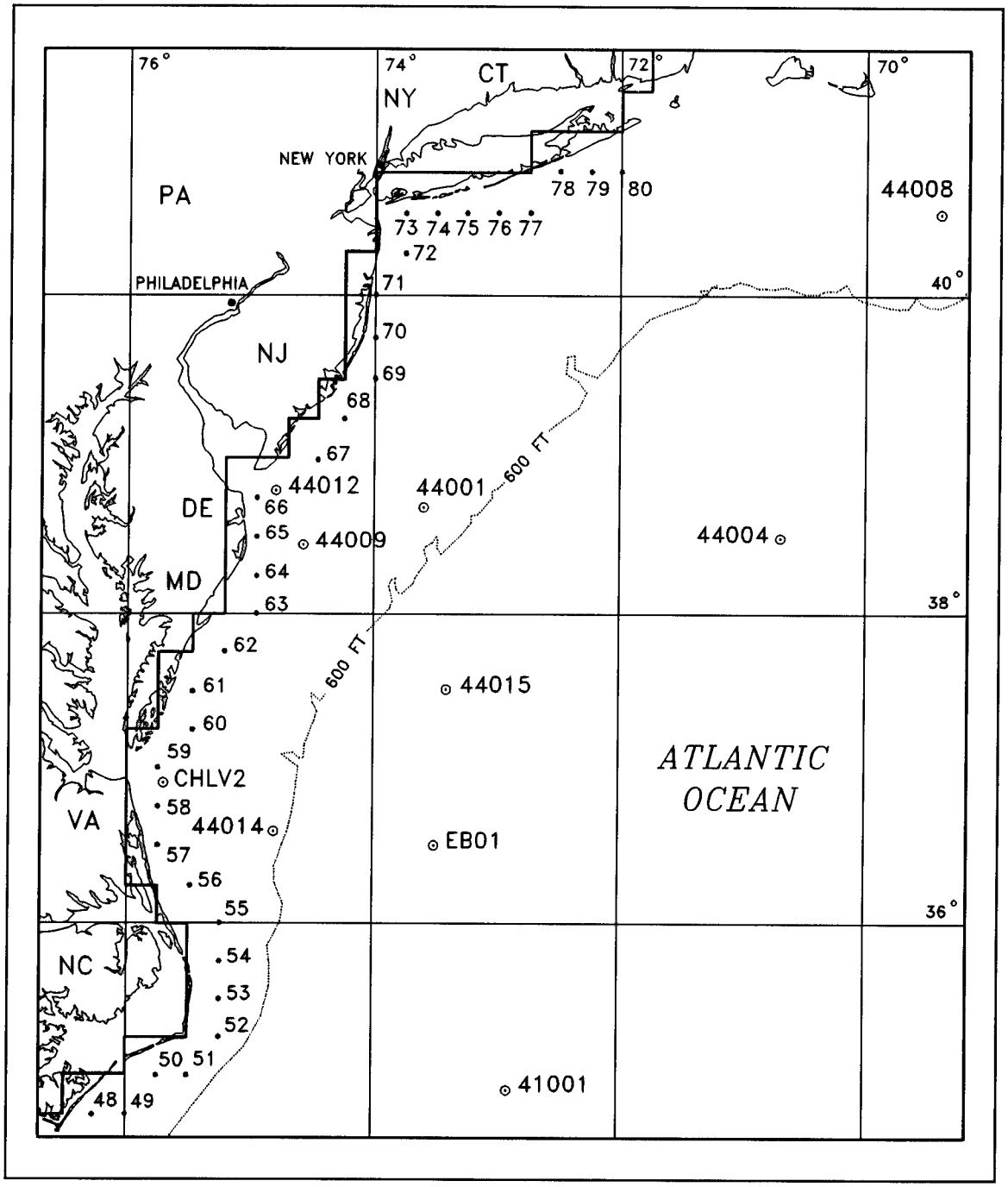


Figure 6. (Sheet 3 of 4)

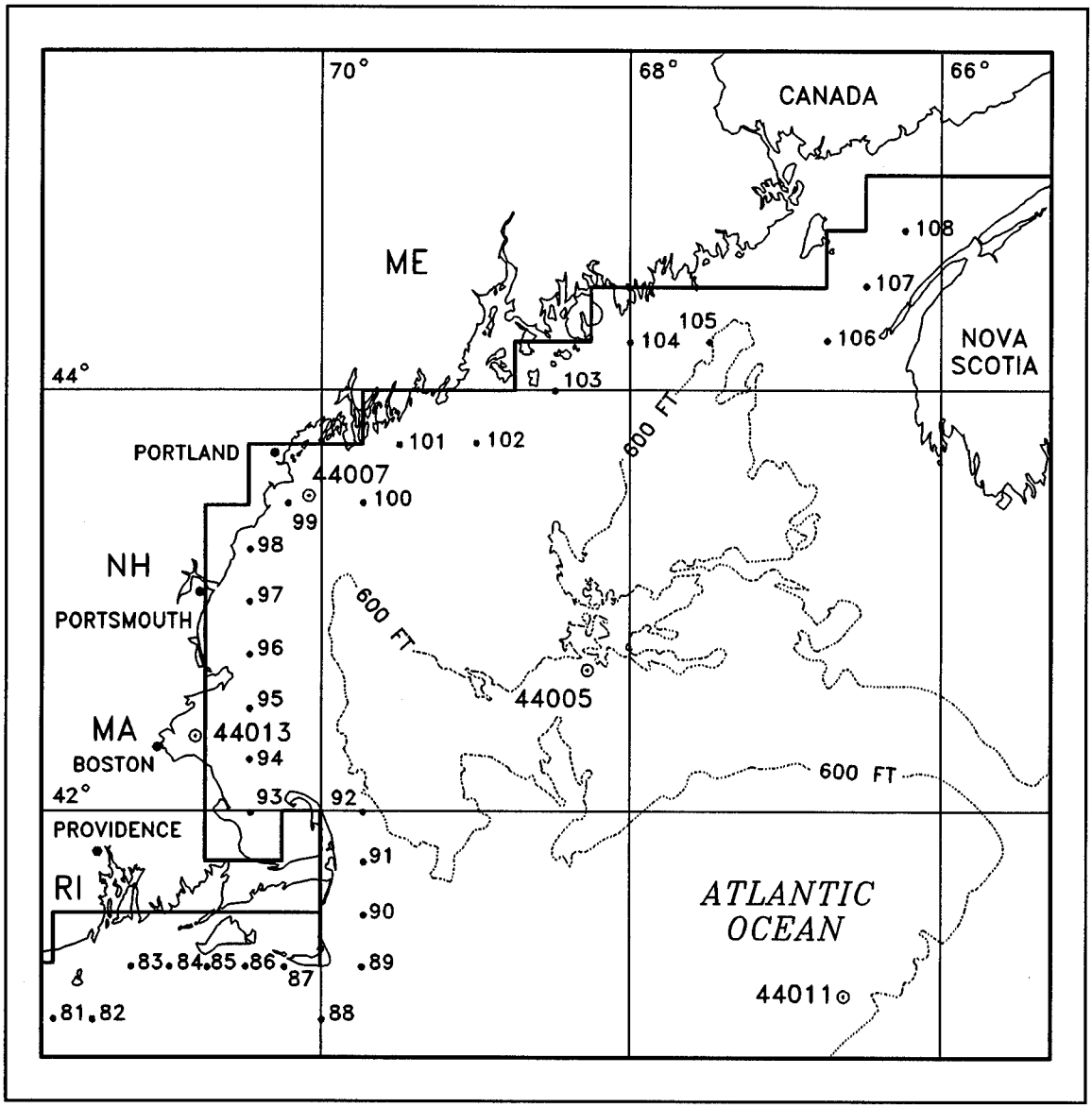


Figure 6. (Sheet 4 of 4)

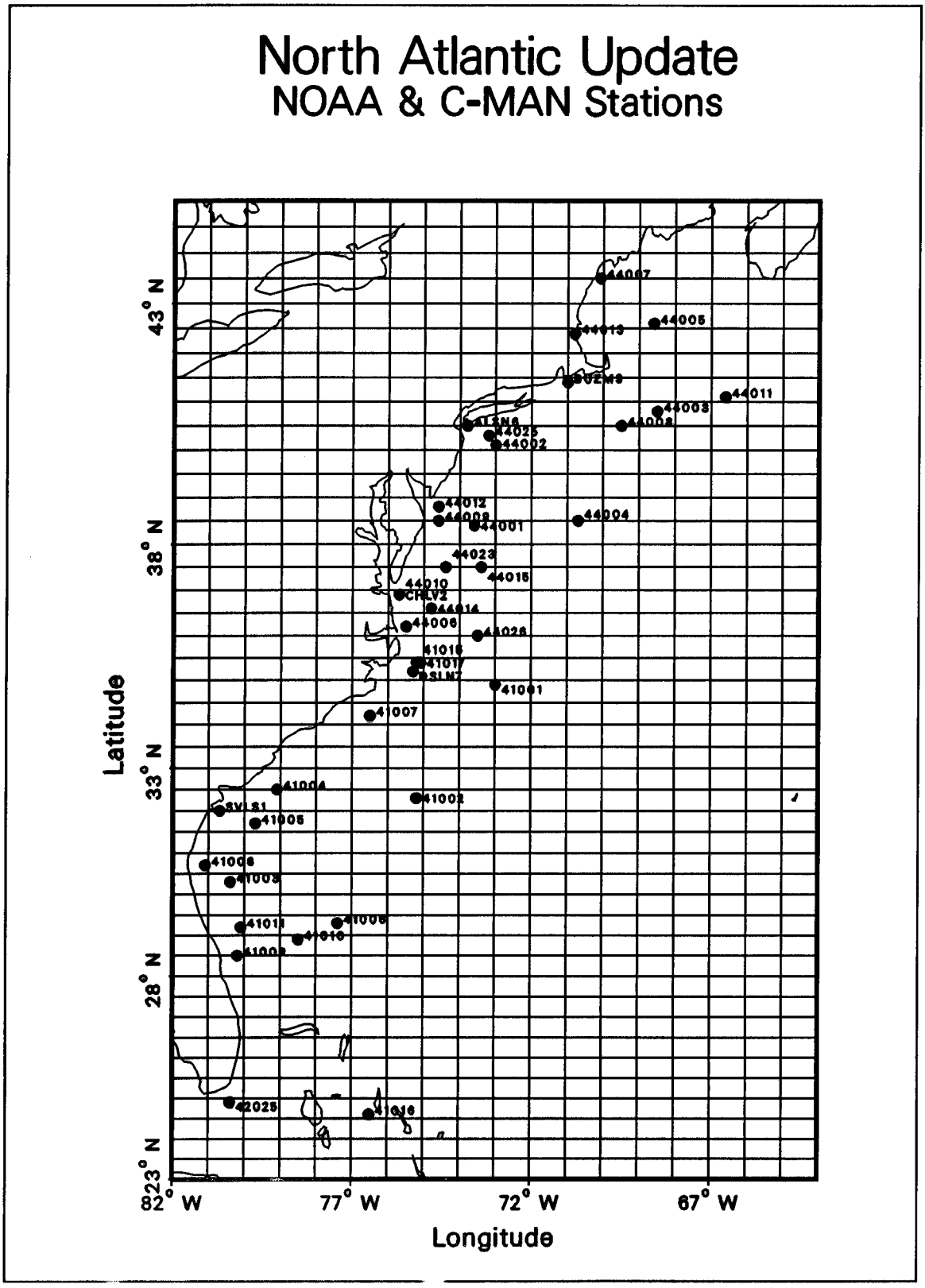


Figure 7. NOAA buoy/CMAN stations used in Atlantic update statistical comparisons

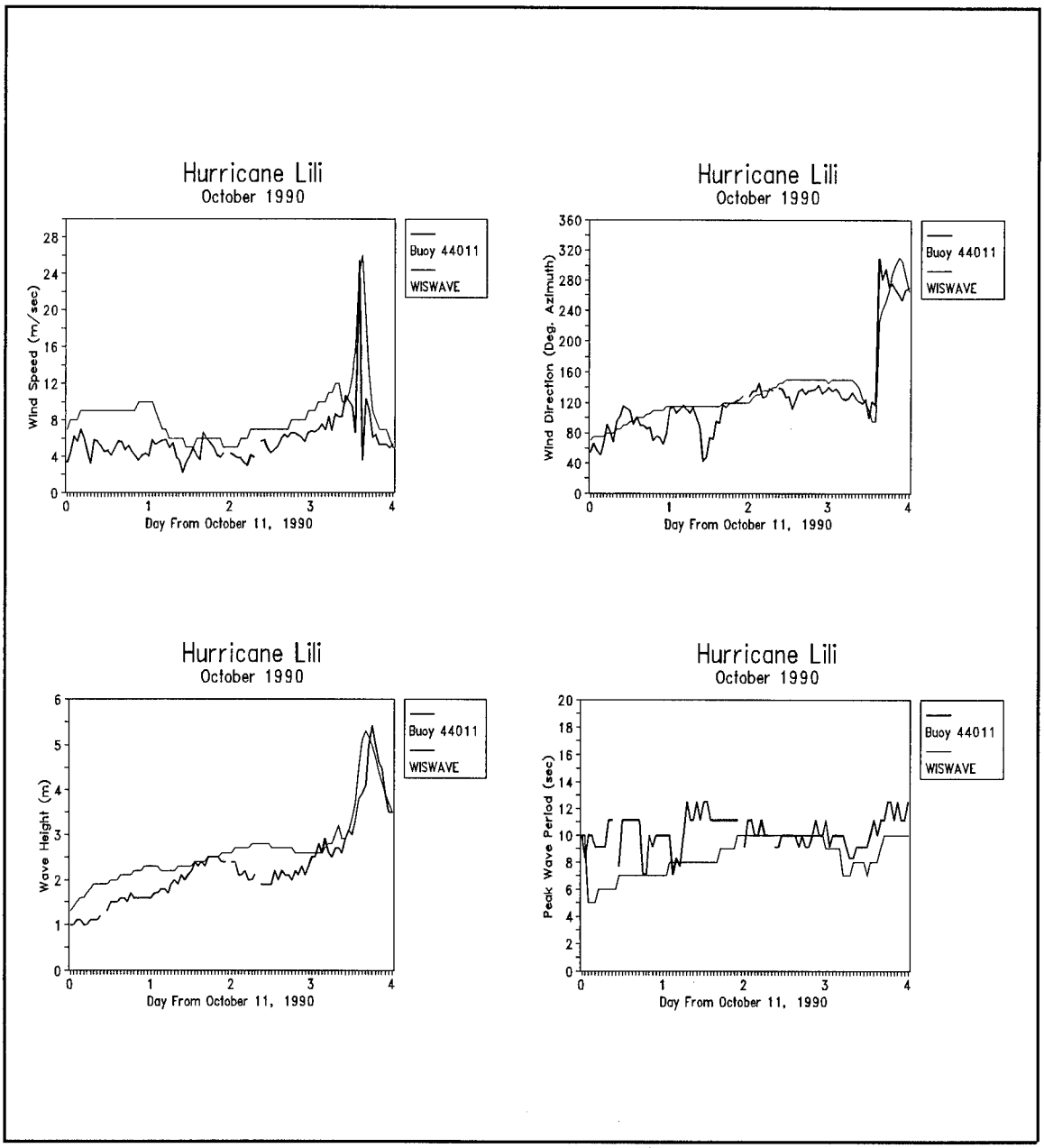


Figure 8. Comparison plots for Hurricane Lili (Buoy 44011 versus WISWAVE)

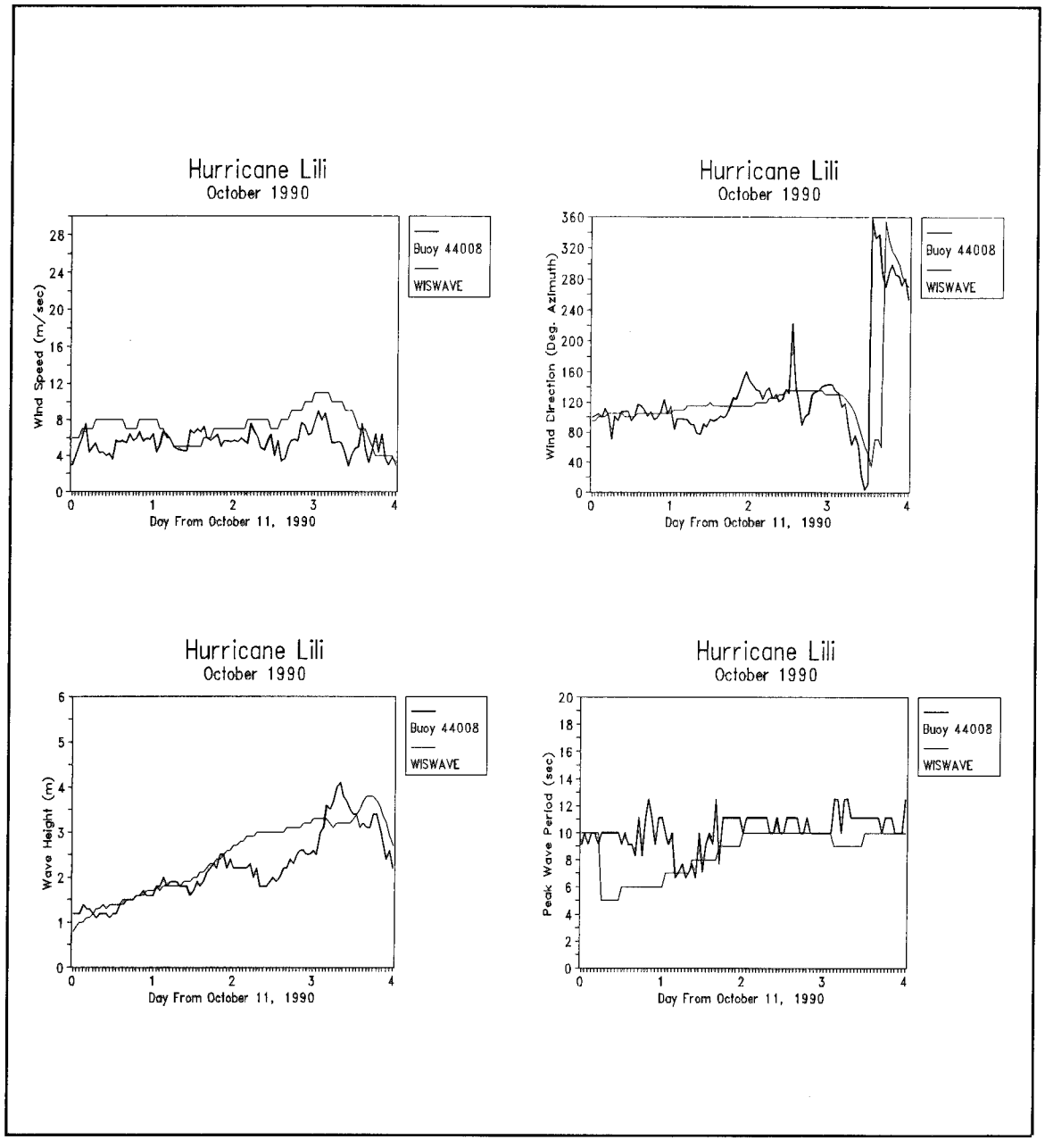


Figure 9. Comparison plots for Hurricane Lili (Buoy 44008 versus WISWAVE)

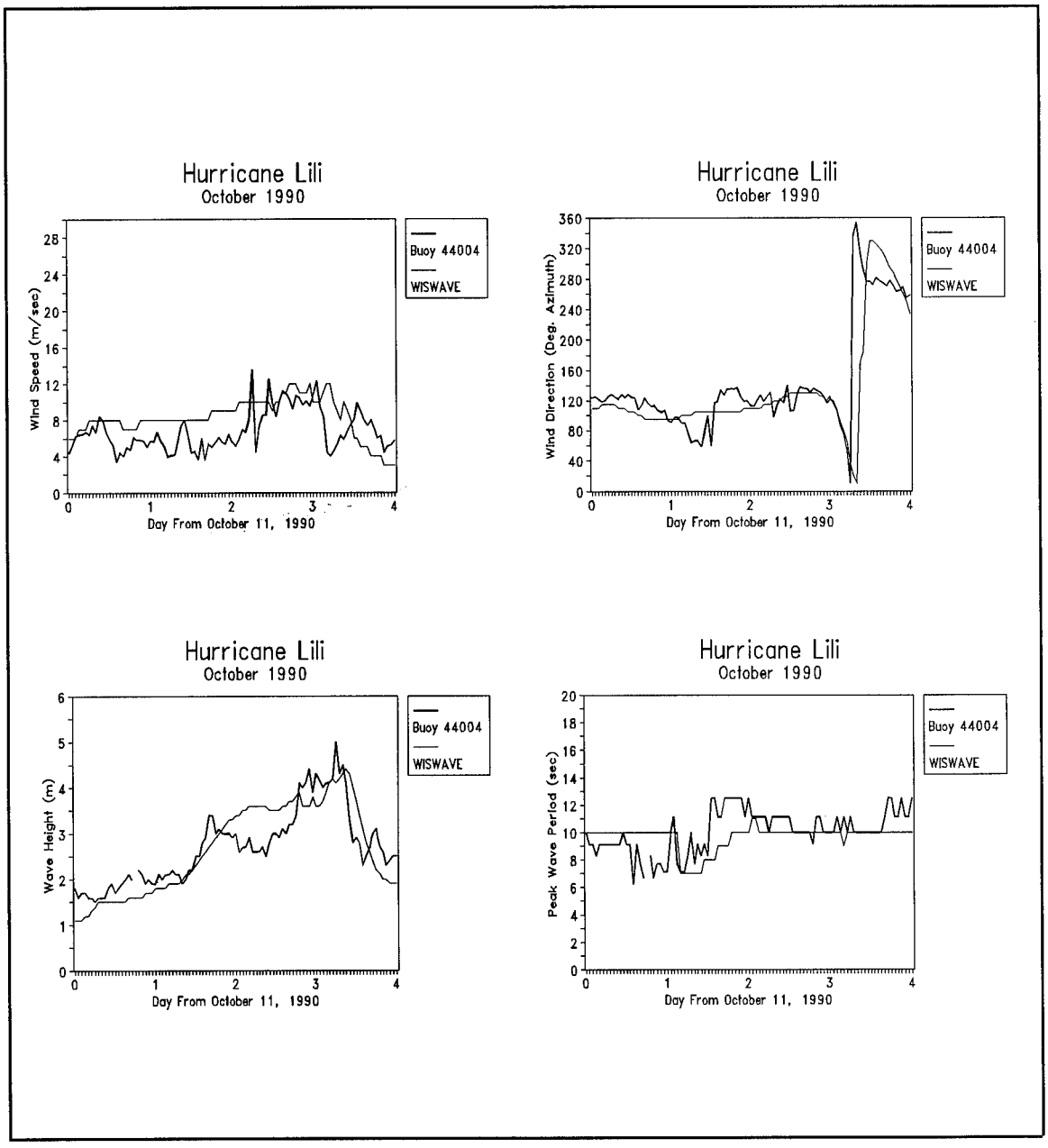


Figure 10. Comparison plots for Hurricane Lili (Buoy 44004 versus WISWAVE)

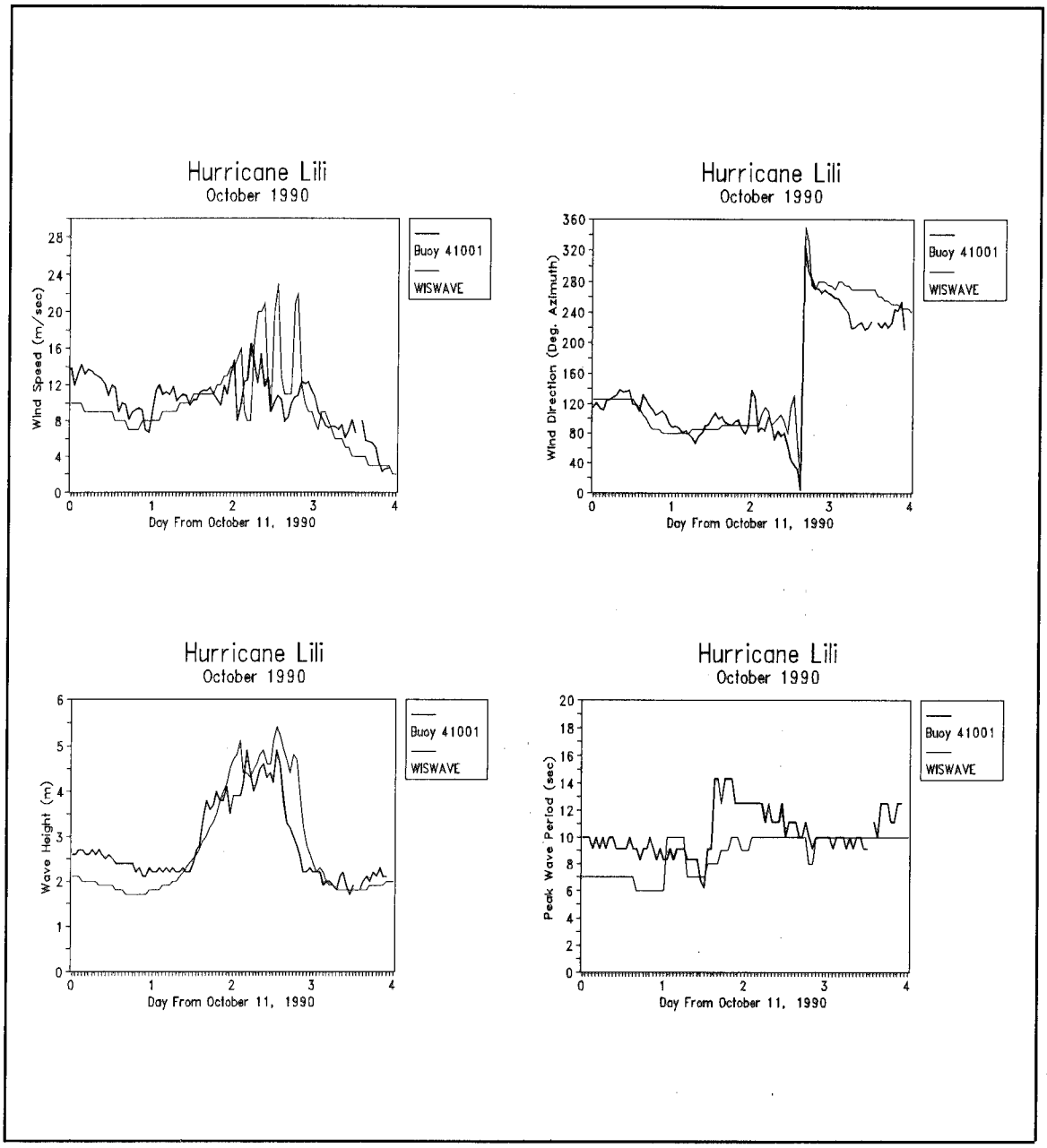


Figure 11. Comparison plots for Hurricane Lili (Buoy 41001 versus WISWAVE)

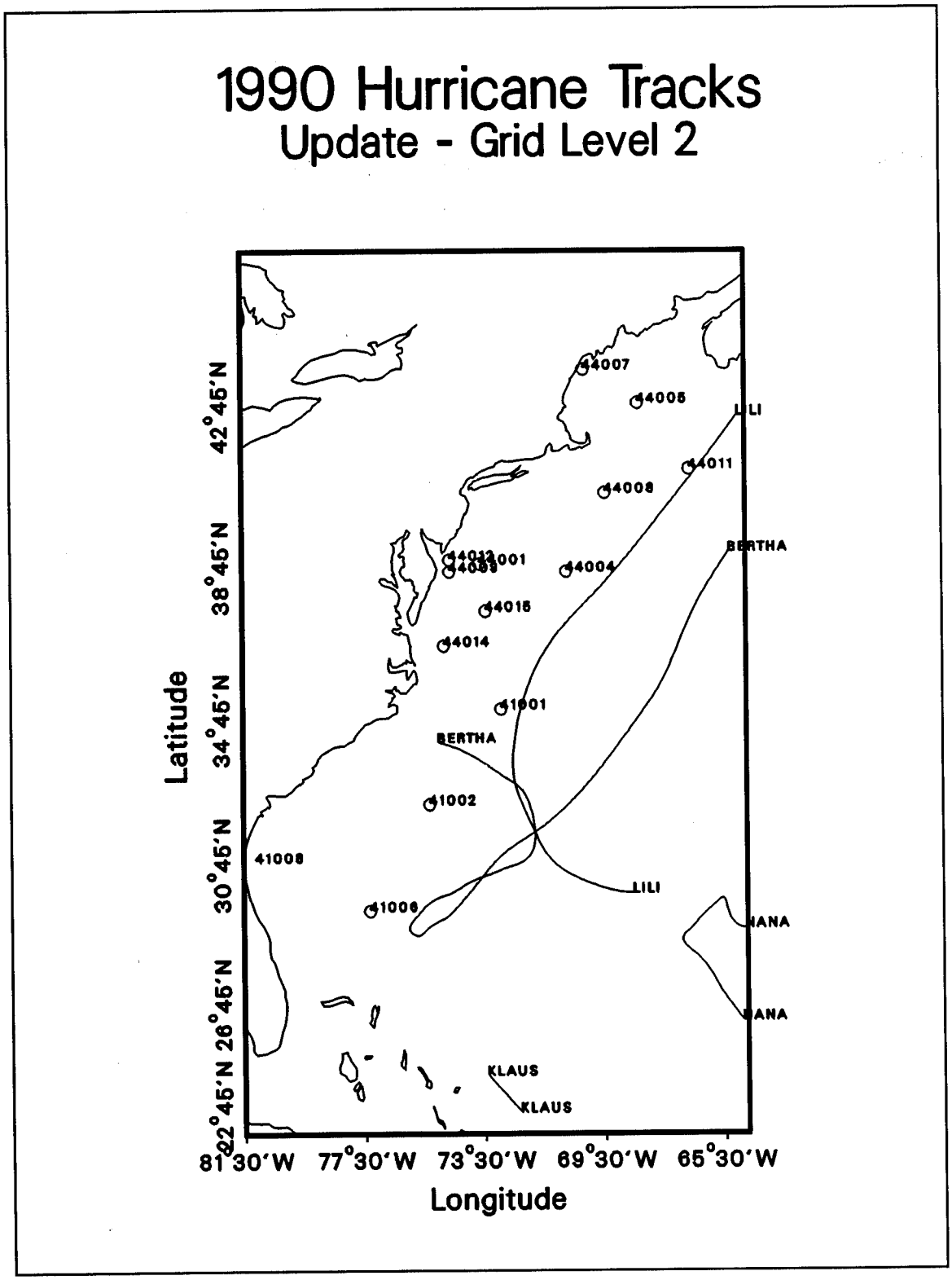


Figure 12. Tropical cyclone tracks for 1990

Table 1
WIS Hindcast Station Locations and Water Depths

WIS Station	Lat N (Deg)	Lon W (Deg)	Depth (M)		WIS Station	Lat N (Deg)	Lon W (Deg)	Depth (M)
1	24.50	81.25	183		28	30.75	81.25	11
2	24.50	81.00	183		29	31.00	81.25	9
3	24.50	80.75	183		30	31.25	81.00	11
4	24.75	80.50	165		31	31.50	81.00	9
5	25.00	80.25	183		32	31.75	80.75	11
6	25.25	80.00	275		33	32.00	80.50	13
7	25.50	80.00	366		34	32.25	80.25	13
8	25.75	80.00	366		35	32.50	80.00	9
9	26.00	80.00	220		36	32.75	79.50	11
10	26.25	80.00	183		37	33.00	79.00	20
11	26.50	80.00	90		38	33.25	79.00	5
12	26.75	80.00	45		39	33.50	78.75	11
13	27.00	80.00	45		40	33.75	78.50	9
14	27.25	80.00	55		41	33.75	78.00	9
15	27.50	80.00	55		42	34.00	77.75	9
16	27.75	80.00	45		43	34.25	77.50	18
17	28.00	80.25	24		44	34.25	77.25	22
18	28.25	80.25	22		45	34.25	77.00	27
19	28.50	80.25	27		46	34.50	76.75	20
20	28.75	80.25	36		47	34.50	76.50	9
21	29.00	80.50	18		48	34.75	76.25	22
22	29.25	80.75	22		49	34.75	76.00	35
23	29.50	81.00	18		50	35.00	75.75	18
24	29.75	81.00	18		51	35.00	75.50	35
25	30.00	81.00	20		52	35.25	75.25	22
26	30.25	81.25	9		53	35.50	75.25	27
27	30.50	81.25	11		54	35.75	75.25	29

(Continued)

Table 1 (Concluded)
WIS Hindcast Station Locations and Water Depths

WIS Station	Lat N (Deg)	Lon W (Deg)	Depth (M)		WIS Station	Lat N (Deg)	Lon W (Deg)	Depth (M)
55	36.00	75.25	37		82	41.00	71.50	46
56	36.25	75.50	27		83	41.25	71.25	18
57	36.50	75.75	18		84	41.25	71.00	18
58	36.75	75.75	11		85	41.25	70.75	18
59	37.00	75.75	14		86	41.25	70.50	18
60	37.25	75.50	24		87	41.25	70.25	18
61	37.50	75.50	18		88	41.00	70.00	18
62	37.75	75.25	18		89	41.25	69.75	18
63	38.00	75.00	18		90	41.50	69.75	18
64	38.25	75.00	16		91	41.75	69.75	91
65	38.50	75.00	18		92	42.00	69.75	137
66	38.75	75.00	18		93	42.00	70.50	18
67	39.00	74.50	18		94	42.25	70.50	27
68	39.25	74.25	18		95	42.50	70.50	55
69	39.50	74.00	22		96	42.75	70.50	55
70	39.75	74.00	18		97	43.00	70.50	37
71	40.00	74.00	18		98	43.25	70.50	18
72	40.25	73.75	27		99	43.50	70.25	18
73	40.50	73.75	18		100	43.50	69.75	110
74	40.50	73.50	18		101	43.75	69.50	27
75	40.50	73.25	24		102	43.75	69.00	37
76	40.50	73.00	31		103	44.00	68.50	37
77	40.50	72.75	37		104	44.25	68.00	37
78	40.75	72.50	27		105	44.25	67.50	91
79	40.75	72.25	38		106	44.25	66.75	183
80	40.75	72.00	38		107	44.50	66.50	183
81	41.00	71.75	36		108	44.75	66.25	110

(Concluded)

Table 2
NOAA Buoy and CMAN Stations Used in Annual Statistics

Buoy/CMAN	Lat N (Deg)	Lon W (Deg)	Depth (M)		Buoy/CMAN	Lat N (Deg)	Lon W (Deg)	Depth (M)
44007	43.5	70.1	47		44006	36.2	75.5	26
44013	42.4	70.8	30		44026	36.0	73.5	3313
44005	42.6	68.6	202		41017	35.4	75.1	48
BUZM3	41.4	71.0	19		41015	35.4	75.2	48
44011	41.1	66.6	87		DSLN7	35.2	75.3	16
44003	40.8	68.5	53		41001	34.9	73.0	4444
44008	40.5	69.5	60		41007	34.2	76.5	33
ALSN6	40.5	73.8	25		41004	32.5	79.1	37
44025	40.3	73.2	40		41002	32.3	75.2	3658
44002	40.1	73.0	46		SVLS1	32.0	80.7	15
44012	38.8	74.6	24		41005	31.7	79.7	66
44009	38.5	74.6	28		41008	30.7	81.1	18
44001	38.4	73.6	115		41003	30.3	80.4	39
44004	38.5	70.7	3231		41011	29.2	80.1	40
44023	37.5	74.4	102		41006	29.3	77.4	1042
44015	37.5	73.4	2469		41010	28.9	78.5	860
44010	36.9	75.7	20		41009	28.5	80.2	42
CHLV2	36.9	75.7	12		41016	24.6	76.5	1586
44014	36.6	74.8	48		42025	24.9	80.4	52

Table 3
Annual Wave Height Root Mean Square Difference (H_{mo} RMSD) (M)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44007	0.48	0.49	0.48	0.44	0.44	0.44	0.50	0.58	0.54	0.55	0.56	0.46		
44013	0.55	0.48	0.51	0.54	0.53	0.50	0.76	0.63						
44005	0.68	0.43	0.43	0.52	0.51	0.45	0.68	0.73	0.67	0.72	0.56	0.52	1.08	1.66
BUZM3		0.59	0.50	0.51										
44011	0.71	0.55	0.66	0.63	0.63	0.61	0.79	0.91	0.73	0.68				
44003										0.86	0.69	0.64	1.08	1.00
44008	0.63	0.50	0.56	0.54	0.50	0.48	0.54	0.73	0.70	0.69	0.66	0.64		
ALSN6	0.47	0.45	0.46	0.46										
44025	0.51	0.46	0.47											
44002														
44012		0.42	0.45	0.48	0.41	0.41	0.44	0.56						
44009	0.54	0.46	0.52	0.54	0.58	0.44	0.52	0.55						
44001			0.50	0.54										
44004	0.64	0.57	0.56	0.59	0.59	0.55	0.70	0.72	0.66	0.89	0.71	0.55	1.43	1.21
44023			0.53											
44015			0.60	0.66										
44010										0.53				
CHLV2	0.40	0.44	0.42	0.43	0.43	0.40	0.59	0.46	0.47					
44014	0.71	0.47	0.48	0.59										

(Continued)

Table 3 (Concluded)
Annual Wave Height Root Mean Square Difference (H_{mo} RMSD) (M)

	Year													
Buoy	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						0.58	0.33					0.48	0.71	1.07
44026			0.59											
41017	0.25		0.48											
41015	0.23													
DSLN7	0.54		0.45	0.45	0.51	0.56								
41001	0.55	0.56	0.55	0.50	0.62	0.63	0.74	0.66	0.70	0.77	0.74	0.69	1.14	1.09
41007								0.52						
41004	0.42	0.35						0.40				0.51	0.52	0.43
41002	0.59	0.51	0.51	0.46	0.61	0.57	0.64	0.56	0.57	0.87	0.75	0.55	0.79	0.70
SVLS1	0.79	0.56	0.66	0.72										
41005														0.46
41008		0.44	0.36	0.36	0.51	0.30								
41003														0.60
41011					0.85									
41006	0.45	0.49	0.54	0.44	0.40	0.54	0.54	0.51	0.54	0.56	0.57	0.55		
41010	0.42		0.46	0.41	0.53	0.49								
41009	0.34		0.41	0.41	0.49	0.43								
41016	0.40	0.38												
42025	0.39	0.39	0.43											

(Concluded)

Table 4
Annual Peak Wave Period Root Mean Square Difference (T_p RMSD) (Sec)

	Year													
Buoy	**1993**	**1992**	**1991**	**1990**	**1989**	**1988**	**1987**	**1986**	**1985**	**1984**	**1983**	**1982**	**1981**	**1980**
44007	2.46	2.34	2.22	2.11	2.59	2.50	2.67	2.44	2.80	2.36	1.86	1.64		
44013	2.65	2.78	2.88	2.90	2.80	3.06	2.51	2.47						
44005	1.47	1.68	1.56	1.50	1.62	1.47	1.47	1.58	1.67	1.60	1.58	1.29	1.68	1.95
BUZM3		1.40	1.61	1.76										
44011	1.66	1.80	1.43	1.63	1.66	1.58	1.47	1.46	1.91	1.70				
44003										1.48	1.56	1.44	1.89	1.60
44008	1.75	1.91	1.74	1.80	1.67	1.60	1.57	1.64	1.81	1.79	1.65	1.39		
ALSN6	2.40	2.51	2.38	2.28										
44025	1.67	1.49	1.71											
44002														
44012		2.21	2.04	1.93	1.63	2.01	1.95	1.82						
44009	1.45	1.81	1.91	2.03	1.86	2.03	1.94	1.92						
44001			1.46	1.58										
44004	1.41	1.53	1.36	1.78	1.52	1.43	1.61	1.52	1.46	1.53	1.49	1.45	1.86	1.73
44023			1.52											
44015			1.30	1.40										
44010										2.12				
CHLV2	2.09	2.12	2.16	2.19	2.00	2.17	2.96	2.38	2.82					
44014	1.52	1.61	1.66	1.68										

(Continued)

Table 4 (Concluded)
Annual Peak Wave Period Root Mean Square Difference (T_p RMSD) (Sec)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						2.35	2.55					2.00	2.08	2.68
44026			2.08											
41017	1.40		2.18											
41015	1.40													
DSLN7	1.48		1.86	1.86	1.71	1.96								
41001	1.30	1.45	1.71	1.56	1.44	1.47	1.58	1.66	1.42	1.49	1.56	1.43	1.81	2.15
41007								1.58						
41004	1.48	1.50						1.41				1.51	1.72	1.98
41002	1.37	1.44	1.67	1.51	1.64	1.59	1.68	1.57	1.28	1.53	1.62	1.43	1.87	2.40
SVLS1	1.93	1.84	2.17	2.71										
41005														2.24
41008		1.86	2.04	2.04	1.93	2.05								
41003														2.88
41011					2.52									
41006	1.32	1.53	1.21	1.59	1.59	1.68	1.71	1.60	2.32	1.60	1.58	1.41		
41010	1.37		1.88	1.60	1.74	1.47								
41009	1.63		2.22	2.01	2.06	2.04								
41016	1.75	1.95												
42025	1.64	1.81	1.56											

(Concluded)

Table 5
Annual Wave Height (H_{mo}) Bias (Model - Measured) (M)

	Year													
Buoy	**1993**	**1992**	**1991**	**1990**	**1989**	**1988**	**1987**	**1986**	**1985**	**1984**	**1983**	**1982**	**1981**	**1980**
44007	0.09	-0.01	0.16	0.21	0.12	0.06	0.07	0.20	0.17	0.16	0.04	0.04		
44013	0.30	0.23	0.31	0.35	0.32	0.29	0.44	0.39						
44005	0.17	-0.09	0.06	0.20	0.06	-0.06	0.09	0.26	0.13	0.19	0.09	0.06	0.77	1.10
BUZM3		0.35	0.33	0.25										
44011	0.40	0.00	0.05	0.13	0.05	-0.02	0.13	0.36	0.11	0.07				
44003										-0.12	-0.13	-0.18	0.38	0.48
44008	0.28	0.06	0.08	0.17	0.09	0.01	0.05	0.26	0.16	0.08	-0.11	-0.21		
ALSN6	0.13	-0.02	0.14	0.24										
44025	0.13	-0.02	0.07											
44002														
44012		0.02	-0.02	0.12	-0.07	-0.03	-0.10	0.02						
44009	0.24	0.08	0.22	0.31	0.28	0.17	0.16	0.18						
44001			0.06	0.09										
44004	0.13	-0.13	-0.15	-0.04	-0.14	-0.17	-0.04	0.14	0.02	0.10	-0.04	-0.08	0.91	0.64
44023			-0.03											
44015			0.05	0.12										
44010										0.16				
CHLV2	0.05	-0.11	0.02	0.12	0.07	0.00	0.28	0.09	0.05					
44014	0.41	-0.01	0.14	0.12										

(Continued)

Table 5 (Concluded)
Annual Wave Height (H_{mo}) Bias (Model - Measured) (M)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						0.04	-0.10					-0.08	0.10	0.58
44026			0.11											
41017	0.05		0.07											
41015	-0.04													
DSLN7	-0.12		-0.03	0.04	-0.06	-0.18								
41001	0.08	-0.26	-0.08	-0.02	-0.10	-0.17	-0.20	0.01	-0.15	0.04	-0.04	-0.17	0.31	0.52
41007								-0.10						
41004	0.09	-0.08						-0.05				-0.26	-0.13	-0.03
41002	0.08	-0.13	-0.05	0.14	-0.03	-0.22	-0.13	-0.02	-0.11	-0.12	-0.23	-0.17	0.23	0.27
SVLS1	0.53	0.33	0.47	0.56										
41005														0.01
41008		0.03	0.02	0.11	0.08	-0.02								
41003														0.33
41011					0.48									
41006	0.06	-0.11	-0.21	0.07	0.02	-0.15	-0.06	0.02	-0.03	-0.08	-0.14	-0.16		
41010	0.09		0.02	0.15	0.10	-0.09								
41009	0.17		0.03	0.18	0.14	-0.04								
41016	0.27	0.23												
42025	0.22	0.25	0.22											

(Concluded)

Table 6
Annual Peak Wave Period (T_p) Bias (Model - Measured) (Sec)

	Year													
Buoy	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44007	-0.57	-0.92	-0.63	-0.42	-0.81	-1.02	-1.02	-0.37	-0.70	-0.40	-0.30	-0.40		
44013	-0.49	-1.19	-1.12	-0.90	-0.78	-0.99	-0.16	-0.22						
44005	0.10	-0.44	-0.21	0.06	-0.12	-0.18	-0.01	0.29	0.01	0.27	0.19	-0.20	0.43	0.96
BUZM3		-0.27	-0.49	-0.40										
44011	-0.11	-0.55	-0.16	-0.15	-0.30	-0.33	-0.12	0.19	-0.16	-0.22				
44003										-0.23	-0.43	-0.50	0.24	0.23
44008	-0.43	-0.83	-0.62	-0.43	-0.49	-0.62	-0.59	-0.24	-0.26	-0.21	-0.51	-0.49		
ALSN6	-0.47	-0.96	-0.57	-0.38										
44025	-0.17	-0.48	-0.32											
44002														
44012		-0.98	-0.60	-0.38	-0.25	-0.58	-0.61	-0.09						
44009	-0.18	-0.74	-0.47	-0.31	-0.33	-0.67	-0.45	-0.03						
44001			-0.22	-0.15										
44004	-0.05	-0.55	-0.39	-0.23	-0.40	-0.39	-0.26	0.15	-0.33	0.06	-0.21	-0.36	0.63	0.40
44023			-0.27											
44015			-0.15	-0.21										
44010										-0.16				
CHLV2	-0.10	-0.55	-0.25	-0.09	-0.20	-0.55	0.38	-0.26	-0.45					
44014	-0.05	-0.54	-0.08	-0.07										

(Continued)

Table 6 (Concluded)
Annual Peak Wave Period (T_p) Bias (Model - Measured) (Sec)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						-0.53	-0.62					-0.21	-0.24	0.62
44026			-0.15											
41017	-0.47		-0.09											
41015	-0.45													
DSLN7	-0.29		-0.31	-0.12	-0.20	-0.67								
41001	-0.21	-0.61	-0.35	-0.17	-0.07	-0.29	-0.33	-0.12	-0.39	-0.25	-0.32	-0.38	0.22	0.29
41007								-0.26						
41004	-0.35	-0.42						-0.37				-0.55	-0.20	-0.04
41002	-0.19	-0.58	-0.28	-0.13	-0.09	-0.46	-0.35	-0.10	-0.34	-0.18	-0.23	-0.32	-0.05	0.18
SVLS1	0.35	0.17	0.46	0.68										
41005														0.31
41008		0.03	0.09	-0.01	-0.03	-0.58								
41003														0.74
41011					0.72									
41006	-0.32	-0.61	-0.34	-0.02	-0.20	-0.53	-0.17	-0.13	0.00	-0.16	-0.31	-0.31		
41010	-0.26		-0.15	-0.13	-0.16	-0.62								
41009	-0.33		-0.08	0.01	0.08	-0.38								
41016	0.42	0.42												
42025	0.08	0.50	0.08											

(Concluded)

Table 7
Number of Occurrences Compared for Annual Statistics

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44007	2723	2479	2888	2884	2835	2882	2628	2754	2598	1958	2613	2231		
44013	2838	2871	2869	2869	2576	2669	2492	1662						
44005	2678	2249	1839	2674	2563	2181	2896	2397	2892	2606	2770	2817	2345	663
BUZM3		308	95	608										
44011	1420	2143	2233	2780	2601	2380	2802	2157	2629	1769				
44003										547	2871	2902	2097	2532
44008	2058	2675	2695	2881	2605	2236	2178	2285	2020	2797	1948	1025		
ALSN6	2572	2510	2279	2600										
44025	2842	2687	1864											
44002														
44012		2482	2898	482	433	2187	2428	719						
44009	1625	2388	2898	2736	2519	2135	2878	1225						
44001			758	534										
44004	2897	2889	1771	2754	1949	2464	2207	2782	2050	1034	2794	1550	1074	2084
44023			627											
44015			671	814										
44010										2089				
CHLV2	1613	2764	2819	2511	2061	1796	1032	1935	2450					
44014	2810	2875	2712	712										

(Continued)

Table 7 (Concluded)
Number of Occurrences Compared for Annual Statistics

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						564	428					463	1134	381
44026			431											
41017	467		426											
41015	481													
DSLN7	1020		2714	2778	2270	321								
41001	2224	2327	2007	2721	2182	1925	2384	1859	1025	2618	2842	2177	1337	2598
41007								580						
41004	1241	1311						306				1656	1226	1701
41002	2508	1538	2915	1536	1926	2229	2898	1933	669	1004	2318	2883	2489	2028
SVLS1	1356	1776	1776	749										
41005														1266
41008		842	2906	2737	2545	2272								
41003														2884
41011					715									
41006	2898	2686	422	2577	1956	1931	2028	2115	2835	2912	2666	1744		
41010	2897		2660	2914	2893	350								
41009	965		2648	2828	2745	1137								
41016	2753	1199												
42025	1951	2856	881											

(Concluded)

Table 8
Annual Wave Height Correlation (*r*)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44007	0.82	0.72	0.76	0.76	0.75	0.78	0.70	0.75	0.73	0.82	0.76	0.66		
44013	0.85	0.81	0.82	0.72	0.76	0.80	0.80	0.79						
44005	0.87	0.91	0.89	0.87	0.84	0.90	0.86	0.84	0.85	0.86	0.88	0.88	0.80	0.86
BUZM3		0.79	0.87	0.77										
44011	0.80	0.87	0.85	0.84	0.83	0.87	0.85	0.83	0.81	0.78				
44003										0.68	0.84	0.86	0.80	0.90
44008	0.86	0.87	0.85	0.84	0.86	0.86	0.89	0.85	0.80	0.80	0.84	0.81		
ALSN6	0.74	0.74	0.64	0.72										
44025	0.82	0.83	0.75											
44002														
44012		0.78	0.77	0.69	0.85	0.78	0.80	0.89						
44009	0.77	0.78	0.77	0.75	0.81	0.76	0.82	0.84						
44001			0.87	0.83										
44004	0.90	0.90	0.87	0.85	0.87	0.86	0.88	0.85	0.85	0.76	0.85	0.89	0.81	0.86
44023			0.80											
44015			0.86	0.80										
44010										0.67				
CHLV2	0.81	0.75	0.73	0.62	0.81	0.59	0.79	0.78	0.74					
44014	0.86	0.87	0.86	0.81										

(Continued)

Table 8 (Concluded)
Annual Wave Height Correlation (*r*)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						0.62	0.85					0.81	0.72	0.87
44026			0.72											
41017	0.72		0.76											
41015	0.69													
DSLN7	0.84		0.84	0.81	0.87	0.74								
41001	0.89	0.89	0.87	0.86	0.84	0.80	0.85	0.79	0.82	0.79	0.84	0.83	0.75	0.82
41007								0.79						
41004	0.85	0.84						0.78				0.80	0.75	0.75
41002	0.89	0.83	0.86	0.78	0.84	0.81	0.83	0.77	0.71	0.72	0.80	0.84	0.79	0.79
SVLS1	0.71	0.60	0.67	0.67										
41005														0.79
41008		0.64	0.77	0.78	0.71	0.75								
41003														0.77
41011					0.72									
41006	0.89	0.83	0.86	0.81	0.89	0.72	0.81	0.82	0.81	0.83	0.81	0.75		
41010	0.89		0.82	0.81	0.82	0.68								
41009	0.92		0.81	0.77	0.79	0.68								
41016	0.82	0.79												
42025	0.83	0.79	0.86											

(Concluded)

Table 9
Annual Peak Wave Period Correlation (r)

Buoy	Year													
	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44007	0.61	0.65	0.65	0.69	0.59	0.63	0.56	0.64	0.49	0.65	0.73	0.76		
44013	0.61	0.62	0.58	0.57	0.61	0.55	0.66	0.68						
44005	0.82	0.75	0.72	0.78	0.78	0.79	0.79	0.78	0.67	0.78	0.77	0.79	0.72	0.80
BUZM3		0.84	0.81	0.75										
44011	0.65	0.68	0.78	0.71	0.74	0.74	0.77	0.77	0.57	0.68				
44003										0.75	0.73	0.76	0.69	0.77
44008	0.63	0.63	0.68	0.66	0.73	0.71	0.71	0.68	0.46	0.66	0.74	0.84		
ALSN6	0.65	0.66	0.65	0.69										
44025	0.74	0.80	0.71											
44002														
44012		0.68	0.70	0.80	0.80	0.73	0.70	0.78						
44009	0.79	0.74	0.71	0.70	0.76	0.66	0.73	0.75						
44001			0.79	0.78										
44004	0.80	0.78	0.78	0.71	0.76	0.80	0.78	0.79	0.72	0.79	0.79	0.82	0.82	0.82
44023			0.79											
44015			0.82	0.83										
44010										0.65				
CHLV2	0.75	0.72	0.72	0.71	0.76	0.71	0.69	0.69	0.55					
44014	0.80	0.76	0.74	0.76										

(Continued)

Table 9 (Concluded)
Annual Peak Wave Period Correlation (r)

	Year													
Buoy	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
44006						0.73	0.62					0.78	0.75	0.83
44026			0.57											
41017	0.76		0.57											
41015	0.81													
DSLN7	0.80		0.67	0.69	0.73	0.74								
41001	0.81	0.76	0.69	0.75	0.83	0.77	0.78	0.75	0.74	0.78	0.74	0.78	0.76	0.69
41007								0.73						
41004	0.81	0.66						0.77				0.74	0.76	0.58
41002	0.83	0.79	0.71	0.76	0.81	0.76	0.77	0.79	0.75	0.76	0.74	0.78	0.73	0.59
SVLS1	0.75	0.75	0.59	0.51										
41005														0.63
41008		0.79	0.68	0.71	0.78	0.69								
41003														0.54
41011					0.71									
41006	0.84	0.79	0.77	0.73	0.77	0.73	0.73	0.77	0.56	0.75	0.70	0.79		
41010	0.83		0.66	0.74	0.77	0.81								
41009	0.79		0.59	0.64	0.71	0.67								
41016	0.61	0.51												
42025	0.47	0.28	0.51											

(Concluded)

Table 10
1990 Atlantic Hindcasts Comparison

Buoy	H_{mo} Bias (M)		T_p Bias (Sec)		H_{mo} RMSD (M)		T_p RMSD (Sec)	
	AR*	AU**	AR*	AU**	AR*	AU**	AR*	AU**
41006	-0.2	0.1	-0.9	-0.0	0.5	0.4	2.5	1.6
41008	-0.2	0.1	-1.5	-0.0	0.4	0.4	3.0	2.0
41002	-0.4	0.1	-1.0	-0.1	0.5	0.5	2.4	1.5
41001	-0.1	-0.0	-0.8	-0.2	0.5	0.5	2.4	1.6
44014	-0.1	0.1	-0.5	-0.1	0.5	0.6	2.4	1.7
44015	-0.5	0.1	-1.8	-0.2	1.0	0.7	3.3	1.4
44009	-0.3	0.3	-0.4	-0.3	0.6	0.5	2.9	2.0
44001	-0.0	0.1	-0.4	-0.2	0.5	0.5	2.4	1.6
44004	-0.1	-0.0	-0.7	-0.2	0.6	0.6	2.5	1.8
44012	-0.2	0.1	-1.5	-0.4	0.7	0.5	3.5	1.9
44008	-0.2	0.2	0.0	-0.4	0.6	0.5	2.2	1.8
44011	-0.2	0.1	-0.4	-0.2	0.6	0.6	2.3	1.6
44005	-0.2	0.2	-0.8	0.1	0.6	0.5	2.4	1.5
44007	-0.3	0.2	0.4	-0.4	0.6	0.4	2.8	2.1

*AR = Atlantic Revision (Measured - Modeled)

**AU = Atlantic Update (Modeled - Measured)

Appendix A
Summary Tables

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N LONG: 81.25 W DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 1

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	776	657	781	1108	1259	1713	1868	2157	1935	1456	676	740	15126
0.50 - 0.99	2120	1762	1644	1675	1801	1956	2086	1816	1683	1765	1663	1796	21767
1.00 - 1.49	1016	982	1105	826	857	480	417	366	444	753	1080	1148	9474
1.50 - 1.99	349	401	483	408	414	117	76	81	148	353	602	461	3893
2.00 - 2.49	121	141	242	174	104	39	13	18	54	117	221	183	1427
2.50 - 2.99	45	70	142	81	19	8	4	9	25	13	50	92	558
3.00 - 3.49	20	41	39	31	5	1	.	2	5	6	16	28	194
3.50 - 3.99	8	18	20	13	5	3	.	.	6	1	6	13	93
4.00 - 4.49	4	.	5	4	.	1	.	5	8	.	3	3	33
4.50 - 4.99	2	.	2	.	.	.	.	.	4	.	.	.	8
5.00 - 5.49	1	.	1	.	.	2	.	2	8	.	1	.	15
5.50 - 5.99	2	.	.	.	.	.	.	1	.	.	2	.	5
6.00 - 6.49	.	.	.	.	.	.	.	2	.	.	.	.	2
6.50 - 6.99	.	.	.	.	.	.	.	3	.	.	.	.	3
7.00 - 7.49	.	.	.	.	.	.	.	2	.	.	.	.	2
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 1

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	953	781	831	954	860	1091	1193	1437	1334	1092	695	810	12031
4.0 - 4.9	1626	1250	1227	1074	1119	1167	1309	1348	1169	1419	1297	1508	15513
5.0 - 5.9	848	786	781	770	959	827	964	853	716	766	749	815	9834
6.0 - 6.9	546	616	805	787	1025	804	654	495	542	566	716	565	8121
7.0 - 7.9	282	371	461	425	323	199	191	129	165	334	496	399	3775
8.0 - 8.9	117	155	252	239	157	184	86	76	144	173	211	275	2069
9.0 - 9.9	55	80	74	64	11	31	50	25	42	58	86	69	645
10.0 - 10.9	21	20	6	1	3	9	6	19	37	35	21	10	188
11.0 - 11.9	9	13	17	.	3	6	6	23	41	2	11	4	135
12.0 - 12.9	2	.	5	.	4	2	5	21	42	3	8	2	94
13.0 - 13.9	.	.	.	1	.	.	.	14	21	.	7	.	43
14.0 - 14.9	1	.	.	5	.	.	.	5	22	9	23	4	69
15.0 - 15.9	.	.	2	.	.	.	.	12	22	4	.	3	43
16.0 - 16.9	4	.	.	.	.	.	.	7	6	1	.	.	18
17.0 - 17.9	.	.	1	.	.	.	.	.	4	2	.	.	7
18.0 - 18.9	.	.	2	.	.	.	.	.	8	.	.	.	10
19.0 - 19.9	.	.	.	.	.	.	.	.	5	.	.	.	5
20.0 - LONGER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 1

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	388	254	210	153	40	7	11	8	13	133	205	235	1657
11.25 - 33.74 (22.5)	387	259	211	141	46	19	9	32	55	271	306	375	2111
33.75 - 56.24 (45.0)	372	275	246	168	125	21	25	54	154	461	398	413	2712
56.25 - 78.74 (67.5)	522	452	381	417	365	230	122	178	487	939	867	754	5714
78.75 - 101.24 (90.0)	1140	1069	1177	1357	1846	1622	2095	2029	1966	1576	1575	1380	18832
101.25 - 123.74 (112.5)	767	758	1090	1116	1381	1555	1614	1645	1211	756	591	751	13235
123.75 - 146.24 (135.0)	264	300	410	388	416	514	437	336	212	137	103	164	3681
146.25 - 168.74 (157.5)	103	119	215	121	97	182	86	79	100	46	58	72	1278
168.75 - 191.24 (180.0)	82	90	111	49	32	81	33	24	69	45	47	48	711
191.25 - 213.74 (202.5)	35	39	31	16	10	13	10	31	11	21	20	19	256
213.75 - 236.24 (225.0)	31	31	33	21	15	12	5	23	8	10	14	15	218
236.25 - 258.74 (247.5)	26	35	29	35	15	46	3	5	5	9	15	17	240
258.75 - 281.24 (270.0)	42	51	58	62	22	11	7	1	4	2	7	25	292
281.25 - 303.74 (292.5)	68	59	75	81	9	.	1	5	3	2	15	35	353
303.75 - 326.24 (315.0)	107	112	103	83	28	.	3	.	11	13	30	54	544
326.25 - 348.74 (337.5)	130	169	84	112	17	7	3	14	11	43	69	107	766
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.25 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 1 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2468		.	.	.	.	.	.	.	.	2468
1.00 - 1.99	529	89	.	.	.	.	.	.	.	.	618
2.00 - 2.99	.	4	.	.	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2997	93	0	0	0	0	0	0	0	0	3090

STATION: 1 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3613	32	24	96	108	81	37	5	.	.	3996
1.00 - 1.99	1322	267	207	10	.	.	.	.	.	.	1806
2.00 - 2.99	.	12	18	6	.	.	.	.	.	.	36
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4935	311	249	112	108	81	37	5	0	0	5838

STATION: 1 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	12585	5341	506	86	28	2	.	.	.	.	18548
1.00 - 1.99	369	6165	1768	5	.	.	.	.	.	.	8307
2.00 - 2.99	.	125	1353	133	.	.	.	.	.	.	1611
3.00 - 3.99	.	.	66	172	.	.	.	.	.	.	238
4.00 - 4.99	.	.	2	23	.	.	.	.	.	.	25
5.00 - 5.99	.	.	.	8	1	.	.	.	.	.	9
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	12954	11631	3695	428	29	2	0	0	0	0	28739

STATION: 1 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3883	3731	1346	256	82	29	24	12	5	.	9368
1.00 - 1.99	34	1520	196	.	.	.	.	.	.	.	1750
2.00 - 2.99	.	21	223	6	.	.	.	.	.	.	250
3.00 - 3.99	.	.	20	13	.	.	.	.	.	.	33
4.00 - 4.99	.	.	3	11	.	.	.	.	.	.	14
5.00 - 5.99	.	.	.	7	4	.	.	.	.	.	11
6.00 - 6.99	.	.	.	.	4	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	2	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3917	5272	1788	293	92	29	24	12	5	0	11432

STATION: 1 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	821	135		.	.	.	.	.	.	.	956
1.00 - 1.99	10	314	23	.	.	.	.	.	.	.	347
2.00 - 2.99	.	8	71	.	.	.	.	.	.	.	79
3.00 - 3.99	.	.	16	.	.	.	.	.	.	.	16
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	831	457	112	0	0	0	0	0	0	0	1400

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.25 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 1 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	322	3	.	.	.	.	.	.	.	.	325
1.00 - 1.99	58	43	.	.	.	.	.	.	.	.	101
2.00 - 2.99	.	4	.	.	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	380	50	0	0	0	0	0	0	0	0	430

STATION: 1 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	492	1	.	.	.	.	.	.	.	.	493
1.00 - 1.99	77	27	.	.	.	.	.	.	.	.	104
2.00 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	569	28	0	0	0	0	0	0	0	0	597

STATION: 1 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	739	.	.	.	.	.	.	.	.	.	739
1.00 - 1.99	222	112	.	.	.	.	.	.	.	.	334
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	961	113	0	0	0	0	0	0	0	0	1074

STATION: 1 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	24923	9243	1876	438	218	112	61	17	5	.	36893
1.00 - 1.99	2621	8537	2194	15	.	.	.	.	.	.	13367
2.00 - 2.99	.	175	1665	145	.	.	.	.	.	.	1985
3.00 - 3.99	.	.	102	185	.	.	.	.	.	.	287
4.00 - 4.99	.	.	7	34	.	.	.	.	.	.	41
5.00 - 5.99	.	.	.	15	5	.	.	.	.	.	20
6.00 - 6.99	.	.	.	1	4	.	.	.	.	.	5
7.00 - 7.99	.	.	.	.	2	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	27544	17955	5844	833	229	112	61	17	5	0	52600

STATION: 1

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	217	221	218	390	500	728	849	884	777	632	220	236	5872
2.50 - 4.99	1625	1361	1474	1735	1974	2443	2555	2533	2318	1747	1321	1463	22549
5.00 - 7.49	1372	1179	1228	1058	1144	833	885	834	777	1098	1253	1221	12882
7.50 - 9.99	986	995	1093	930	783	294	164	177	353	836	1168	1121	8900
10.00 - 12.49	171	228	346	174	54	15	11	11	63	136	300	348	1857
12.50 - 14.99	73	81	97	33	9	3	.	12	18	12	52	72	462
15.00 - 17.49	16	6	7	.	.	1	.	6	13	2	1	3	55
17.50 - 19.99	4	1	1	.	.	2	.	7	1	1	2	.	19
20.00 - GREATER	.	.	.	.	.	1	.	.	.	.	3	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.25 W, DEPTH: 183 M

STATION: 1

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	788	544	435	385	183	67	97	133	135	489	499	559	4314
22.50 - 67.49 (45.0)	1119	939	857	803	677	405	363	448	801	1811	1536	1465	11224
67.50 - 112.49 (90.0)	1232	1185	1431	1606	2179	2223	2826	2680	2355	1529	1511	1488	22245
112.50 - 157.49 (135.0)	561	618	892	718	918	983	774	744	623	282	403	444	7960
157.50 - 202.49 (180.0)	236	215	308	210	206	374	213	172	234	104	129	164	2565
202.50 - 247.49 (225.0)	118	118	150	132	91	128	82	137	66	79	59	67	1227
247.50 - 292.49 (270.0)	123	138	147	172	108	86	53	65	47	43	39	74	1095
292.50 - 337.49 (315.0)	287	315	244	294	102	54	56	85	59	127	144	203	1970
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 1

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.02	0.99	1.02	0.81	0.80	0.62	0.53	0.46	0.26	0.88	0.99	1.11	0.79
1977	0.78	0.89	1.11	1.50	0.95	0.53	0.62	0.85	0.48	0.64	1.00	0.92	0.85
1978	0.94	0.74	0.89	0.91	0.67	0.61	0.65	0.58	0.48	0.82	0.97	1.03	0.77
1979	1.26	0.96	1.29	1.25	0.82	0.68	0.72	0.53	1.33	0.72	1.29	1.08	0.99
1980	0.80	0.79	0.96	0.71	0.67	0.50	0.41	0.78	0.56	0.51	1.03	1.03	0.73
1981	0.63	1.49	0.98	1.22	0.60	0.71	0.49	0.77	0.51	0.79	0.98	0.79	0.83
1982	0.94	0.84	0.97	0.68	0.90	0.72	0.50	0.53	0.43	0.72	0.93	1.25	0.78
1983	0.64	1.02	1.06	0.98	0.97	0.46	0.56	0.40	0.69	0.77	0.77	0.93	0.77
1984	1.00	1.05	1.04	0.83	0.98	0.68	0.63	0.54	0.73	1.05	1.05	1.31	0.91
1985	0.67	1.26	1.04	0.91	0.42	0.48	0.51	0.62	0.78	0.87	1.13	0.97	0.80
1986	0.94	0.74	1.14	0.64	0.99	0.56	0.54	0.69	0.78	0.79	1.10	1.02	0.83
1987	0.81	0.92	1.26	0.53	0.78	0.78	0.73	0.56	0.34	0.84	1.32	0.95	0.82
1988	1.30	0.98	1.08	0.72	0.80	0.72	0.61	0.56	1.18	0.78	0.92	0.93	0.88
1989	0.81	0.92	0.76	0.59	0.56	0.65	0.48	0.36	0.49	0.45	0.68	0.52	0.60
1990	0.90	1.24	1.27	0.99	0.97	0.76	0.61	0.31	0.66	0.80	1.06	1.09	0.89
1991	0.77	0.73	0.95	1.01	1.01	0.32	0.40	0.41	0.36	0.76	0.87	0.96	0.71
1992	0.77	0.84	0.82	0.95	0.68	0.64	0.83	0.65	0.63	0.79	1.10	0.89	0.80
1993	1.01	0.84	0.90	0.90	0.94	0.72	0.47	0.50	0.67	0.55	0.96	0.81	0.77
MEAN	0.89	0.96	1.03	0.90	0.81	0.62	0.57	0.56	0.63	0.75	1.01	0.98	

STATION: 1

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	26 9 8	3310 8	28 7 8	38 9 9	25 812	15 610	14 610	15 5 9	10 4 9	22 9 7	22 9 7	26 8 8	38 9 9
1977	22 7 9	22 6 8	28 812	4210 8	25 8 8	15 511	11 5 9	23 7 9	16 613	20 6 8	24 7 8	26 8 8	4210 8
1978	19 716	26 811	27 716	22 710	27 717	26 8 9	19 6 9	15 6 8	27 711	21 8 8	22 8 8	43 9 8	43 9 8
1979	3410 7	27 8 9	4110 9	38 910	18 8 7	23 6 8	27 811	11 5 8	511014	22 7 9	26 9 7	27 9 7	511014
1980	17 620	19 6 9	30 9 8	22 713	22 7 8	22 7 8	14 610	701212	14 6 8	23 7 9	29 8 9	26 8 8	701212
1981	15 5 8	38 9 8	35 812	31 8 8	19 6 8	21 610	17 6 9	43 912	21 7 9	21 9 8	40 9 9	24 712	43 912
1982	38 9 9	35 8 9	43 915	28 710	23 7 9	51 916	17 611	12 610	10 5 9	20 6 8	26 9 8	31 910	51 916
1983	23 7 9	34 813	40 815	29 812	30 811	12 518	17 610	9 4 9	19 8 8	34 9 8	22 712	19 5 1	40 815
1984	31 7 9	32 811	30 818	20 610	24 6 8	16 6 9	19 712	19 7 9	37 8 8	24 8 8	23 7 9	40 9 9	40 9 9
1985	22 710	39 8 8	35 9 8	40 9 9	9 4 6	23 712	13 610	26 810	20 8 7	22 7 8	591011	31 9 9	591011
1986	37 8 8	26 7 9	31 813	25 8 9	26 810	14 512	20 6 8	15 6 9	22 7 9	22 8 6	24 810	35 912	37 8 8
1987	29 718	26 812	52 9 9	14 533	25 811	24 8 9	23 710	17 6 9	8 411	39 816	38 9 9	37 8 9	52 9 9
1988	5810 9	33 8 9	28 8 9	27 7 9	32 7 8	21 712	21 610	12 5 9	531113	21 8 8	21 6 9	27 8 9	5810 9
1989	30 710	29 7 7	17 612	19 712	18 613	15 512	13 5 9	13 5 9	13 511	13 6 6	16 7 8	15 534	30 710
1990	22 7 9	33 8 8	36 9 8	30 8 8	28 712	15 512	12 5 9	10 4 9	11 510	25 619	29 8 9	32 8 8	36 9 8
1991	21 713	16 612	32 8 9	27 8 9	391011	11 5 8	11 410	10 511	10 4 7	27 711	23 6 8	37 9 9	391011
1992	20 710	31 817	22 710	24 6 8	18 7 9	15 616	13 610	21 716	18 710	32 9 8	23 7 8	16 8 7	32 9 8
1993	25 7 8	22 711	39 818	26 813	21 710	21 7 9	12 611	15 610	16 710	22 718	22 7 9	25 9 8	39 818
MAX	5810 9	39 8 8	52 9 9	4210 8	391011	51 916	27 811	701212	531113	39 816	591011	43 9 8	

MAX Hmo(m): 7.0 MAX Tp(sec): 12. MAX Dp(deg): 122. DATE(gmt): 80080718

MAX WIND SPEED(m/sec): 23. MAX WIND DIRECTION(deg): 135. DATE(gmt): 85112000

MEAN Hmo(m): 0.8 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 1.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.00 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 2

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	736	647	761	1098	1237	1686	1840	2138	1916	1451	653	733	14896
0.50 - 0.99	2115	1733	1642	1633	1791	1966	2066	1807	1684	1718	1645	1737	21537
1.00 - 1.49	1005	956	1073	847	871	495	458	376	448	709	1028	1134	9400
1.50 - 1.99	368	429	491	414	419	116	78	88	157	399	612	480	4051
2.00 - 2.49	139	164	275	190	115	43	18	24	59	158	274	221	1680
2.50 - 2.99	57	74	148	89	22	8	4	9	26	21	74	106	638
3.00 - 3.49	20	43	39	30	3	2	.	2	4	6	18	32	199
3.50 - 3.99	13	23	26	16	5	1	.	1	7	2	8	15	117
4.00 - 4.49	4	3	7	3	1	1	.	7	9	.	3	5	43
4.50 - 4.99	4	.	1	.	.	2	.	1	6	.	3	1	18
5.00 - 5.49	1	.	1	.	.	.	.	2	4	.	.	.	8
5.50 - 5.99	2	.	.	.	.	.	.	3	.	.	1	.	6
6.00 - 6.49	.	.	.	.	.	.	.	4	.	.	1	.	5
6.50 - 6.99	.	.	.	.	.	.	.	2	.	.	.	.	2
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 2

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	886	718	758	875	797	1041	1161	1402	1268	989	652	742	11289
4.0 - 4.9	1535	1207	1161	1044	1107	1164	1318	1280	1124	1283	1187	1368	14778
5.0 - 5.9	912	797	839	794	958	837	962	891	727	801	747	836	10101
6.0 - 6.9	603	657	862	809	1062	808	669	501	593	646	819	683	8712
7.0 - 7.9	303	376	471	425	341	209	194	144	175	356	505	442	3941
8.0 - 8.9	107	171	238	239	170	208	94	86	157	192	215	257	2134
9.0 - 9.9	60	72	71	72	15	39	48	35	54	100	88	76	730
10.0 - 10.9	22	25	12	4	2	3	8	26	37	51	26	16	232
11.0 - 11.9	16	27	21	6	3	9	6	26	40	7	15	18	194
12.0 - 12.9	2	9	4	9	8	2	4	27	43	7	21	5	141
13.0 - 13.9	3	3	.	12	1	.	.	20	26	4	12	6	87
14.0 - 14.9	4	3	3	17	.	.	.	7	24	16	31	10	115
15.0 - 15.9	.	2	3	8	.	.	.	11	26	9	1	5	65
16.0 - 16.9	1	2	9	1	.	.	.	8	7	2	.	.	40
17.0 - 17.9	.	3	2	1	.	.	.	.	5	1	.	.	12
18.0 - 18.9	.	.	9	4	.	.	.	.	9	.	1	.	23
19.0 - 19.9	.	.	1	.	.	.	.	.	5	.	.	.	6
20.0 - LONGER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 2

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	385	241	198	151	34	8	9	7	14	129	206	221	1603
11.25 - 33.74 (22.5)	345	248	206	120	44	26	10	41	78	283	295	347	2043
33.75 - 56.24 (45.0)	393	294	259	207	110	32	21	87	173	488	440	449	2953
56.25 - 78.74 (67.5)	625	524	464	498	463	281	141	246	600	1200	1016	904	6962
78.75 - 101.24 (90.0)	1053	1003	1119	1311	1747	1572	2099	2012	1898	1371	1409	1285	17879
101.25 - 123.74 (112.5)	664	630	913	899	1207	1174	1181	1207	976	575	536	609	10571
123.75 - 146.24 (135.0)	317	398	538	528	595	889	862	668	367	220	130	222	5734
146.25 - 168.74 (157.5)	105	102	186	107	93	154	73	77	91	38	55	65	1146
168.75 - 191.24 (180.0)	72	81	104	50	30	80	28	29	69	46	39	43	671
191.25 - 213.74 (202.5)	51	54	47	21	13	17	15	28	13	30	32	30	351
213.75 - 236.24 (225.0)	33	30	47	18	17	19	6	30	9	15	18	17	259
236.25 - 258.74 (247.5)	39	45	33	45	26	46	3	3	6	6	14	20	286
258.75 - 281.24 (270.0)	49	58	69	84	26	14	8	2	4	.	7	27	348
281.25 - 303.74 (292.5)	84	65	82	90	16	.	1	4	1	2	20	44	409
303.75 - 326.24 (315.0)	94	135	104	90	24	.	3	7	15	20	39	65	596
326.25 - 348.74 (337.5)	155	164	95	101	19	8	4	16	6	41	64	116	789
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.00 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 2 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2373	.	.	.	.	.	.	.	.	.	2373
1.00 - 1.99	541	86	.	.	.	.	.	.	.	.	627
2.00 - 2.99	.	8	.	.	.	.	.	.	.	.	8
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2914	94	0	0	0	0	0	0	0	0	3008

STATION: 2 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3263	215	106	240	219	170	82	21	1	.	4317
1.00 - 1.99	937	645	403	8	2	.	.	.	.	.	1995
2.00 - 2.99	.	15	228	33	.	.	.	.	.	.	276
3.00 - 3.99	.	.	2	25	.	.	.	.	.	.	27
4.00 - 4.99	.	.	.	3	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4200	875	739	309	221	170	82	21	1	0	6618

STATION: 2 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	12240	5183	582	107	32	3	.	.	.	.	18147
1.00 - 1.99	243	6510	1348	1	.	.	.	.	.	.	8102
2.00 - 2.99	.	115	1482	72	.	.	.	.	.	.	1669
3.00 - 3.99	.	.	73	174	.	.	.	.	.	.	247
4.00 - 4.99	.	.	2	31	.	.	.	.	.	.	33
5.00 - 5.99	.	.	.	8	1	.	.	.	.	.	9
6.00 - 6.99	.	.	.	2	.	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	12483	11808	3487	395	33	3	0	0	0	0	28209

STATION: 2 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3683	3673	1335	222	76	29	23	14	5	.	9060
1.00 - 1.99	35	1454	179	1	.	.	.	.	.	.	1669
2.00 - 2.99	.	24	229	3	.	.	.	.	.	.	256
3.00 - 3.99	.	.	17	12	.	.	.	.	.	.	29
4.00 - 4.99	.	.	7	13	.	.	.	.	.	.	20
5.00 - 5.99	.	.	.	4	1	.	.	.	.	.	5
6.00 - 6.99	.	.	.	1	4	.	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3718	5151	1767	256	81	29	23	14	5	0	11044

STATION: 2 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	765	126	.	.	.	.	.	.	.	.	891
1.00 - 1.99	7	333	11	.	.	.	.	.	.	.	351
2.00 - 2.99	.	25	54	.	.	.	.	.	.	.	79
3.00 - 3.99	.	.	12	.	.	.	.	.	.	.	12
4.00 - 4.99	.	.	3	2	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	772	484	80	2	0	0	0	0	0	0	1338

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.00 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 2 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	381	13	.	.	.	.	.	.	.	.	394
1.00 - 1.99	9	127	.	.	.	.	.	.	.	.	136
2.00 - 2.99	.	17	1	.	.	.	.	.	.	.	18
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	390	157	2	0	0	0	0	0	0	0	549

STATION: 2 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	462	1	.	.	.	.	.	.	.	.	463
1.00 - 1.99	89	112	.	.	.	.	.	.	.	.	201
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	551	123	0	0	0	0	0	0	0	0	674

STATION: 2 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	788	.	.	.	.	.	.	.	.	.	788
1.00 - 1.99	251	119	.	.	.	.	.	.	.	.	370
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1039	121	0	0	0	0	0	0	0	0	1160

STATION: 2 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	23955	9211	2023	569	327	202	105	35	6	.	36433
1.00 - 1.99	2112	9386	1941	10	2	.	.	.	.	.	13451
2.00 - 2.99	.	216	1994	108	.	.	.	.	.	.	2318
3.00 - 3.99	.	.	105	211	.	.	.	.	.	.	316
4.00 - 4.99	.	.	12	49	.	.	.	.	.	.	61
5.00 - 5.99	.	.	.	12	2	.	.	.	.	.	14
6.00 - 6.99	.	.	.	3	4	.	.	.	.	.	7
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	26067	18813	6075	962	335	202	105	35	6	0	52600

STATION: 2

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	216	240	234	400	504	725	842	893	780	650	210	245	5939
2.50 - 4.99	1638	1357	1500	1732	1963	2444	2527	2519	2328	1738	1349	1472	22567
5.00 - 7.49	1359	1174	1202	1065	1142	834	913	820	772	1101	1234	1212	12828
7.50 - 9.99	979	979	1075	912	789	297	170	195	352	818	1173	1116	8852
10.00 - 12.49	182	233	347	176	57	13	12	10	55	141	281	344	1851
12.50 - 14.99	71	83	101	35	9	3	.	8	23	12	66	71	482
15.00 - 17.49	14	5	7	.	.	2	.	7	10	4	2	4	55
17.50 - 19.99	5	1	1	.	.	1	.	12	.	.	2	.	22
20.00 - GREATER	.	.	.	.	.	1	.	.	.	.	3	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 81.00 W, DEPTH: 183 M

STATION: 2

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	804	562	444	388	186	65	94	137	149	493	509	576	4407
22.50 - 67.49 (45.0)	1114	936	855	798	661	412	362	448	796	1824	1550	1465	11221
67.50 - 112.49 (90.0)	1237	1179	1449	1619	2210	2225	2845	2683	2362	1505	1497	1487	22218
112.50 - 157.49 (135.0)	539	606	865	709	899	982	768	749	606	284	402	430	7839
157.50 - 202.49 (180.0)	237	214	311	203	211	370	205	160	235	107	119	155	2527
202.50 - 247.49 (225.0)	118	114	150	136	87	130	80	142	70	81	62	66	1236
247.50 - 292.49 (270.0)	127	135	140	175	106	80	53	64	43	38	35	79	1075
292.50 - 337.49 (315.0)	288	326	250	292	104	56	57	81	59	132	146	206	1997
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 2

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.07	1.02	1.03	0.81	0.81	0.62	0.53	0.47	0.26	0.92	1.06	1.19	0.82
1977	0.80	0.92	1.11	1.55	0.97	0.49	0.63	0.87	0.49	0.67	1.04	0.95	0.87
1978	0.97	0.77	0.90	0.91	0.67	0.61	0.66	0.59	0.48	0.87	1.00	1.06	0.79
1979	1.31	0.97	1.31	1.25	0.83	0.69	0.71	0.53	1.32	0.75	1.35	1.15	1.01
1980	0.80	0.83	0.96	0.72	0.67	0.49	0.42	0.77	0.55	0.51	1.03	1.10	0.74
1981	0.64	1.56	1.02	1.25	0.60	0.71	0.50	0.83	0.52	0.82	1.02	0.80	0.85
1982	0.96	0.84	0.98	0.68	0.91	0.71	0.50	0.53	0.43	0.73	0.96	1.26	0.79
1983	0.65	1.04	1.12	0.98	0.98	0.46	0.57	0.41	0.71	0.80	0.78	0.95	0.79
1984	1.06	1.09	1.06	0.84	1.00	0.69	0.64	0.54	0.74	1.10	1.11	1.34	0.93
1985	0.69	1.28	1.07	0.93	0.43	0.48	0.52	0.64	0.82	0.88	1.18	0.99	0.82
1986	0.96	0.74	1.17	0.65	1.00	0.57	0.55	0.71	0.80	0.82	1.12	1.05	0.85
1987	0.84	0.93	1.29	0.57	0.80	0.78	0.74	0.57	0.35	0.87	1.37	0.96	0.84
1988	1.32	1.00	1.10	0.75	0.83	0.75	0.61	0.57	1.17	0.82	0.94	0.96	0.90
1989	0.82	0.94	0.77	0.59	0.57	0.63	0.48	0.36	0.48	0.47	0.70	0.53	0.61
1990	0.93	1.27	1.30	1.02	0.98	0.78	0.62	0.31	0.68	0.84	1.12	1.12	0.91
1991	0.77	0.76	0.95	1.01	1.02	0.33	0.40	0.41	0.38	0.78	0.90	0.99	0.72
1992	0.79	0.89	0.84	0.97	0.70	0.66	0.85	0.67	0.63	0.81	1.15	0.91	0.82
1993	1.04	0.86	0.93	0.91	0.95	0.73	0.48	0.50	0.68	0.56	0.98	0.85	0.79
MEAN	0.91	0.98	1.05	0.91	0.82	0.62	0.58	0.57	0.64	0.78	1.04	1.01	

STATION: 2

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	29 9 8	3710 8	30 8 8	38 9 9	26 812	13 610	14 610	15 6 9	10 4 9	25 9 7	25 9 7	27 9 5	38 9 9
1977	24 8 7	23 6 8	28 810	4210 8	25 8 8	14 511	11 5 8	23 7 9	17 612	21 6 8	26 7 8	26 8 8	4210 8
1978	20 618	26 712	27 716	22 710	25 717	27 8 9	19 7 9	16 6 7	27 711	23 8 7	24 8 7	46 9 8	46 9 8
1979	4010 7	28 8 9	4110 8	39 910	21 8 6	24 6 8	27 811	12 5 8	47 915	23 7 8	31 9 7	31 9 6	47 915
1980	17 620	21 8 5	32 9 8	21 713	23 7 8	22 7 8	14 610	671113	14 6 8	19 7 9	29 8 9	25 8 8	671113
1981	17 6 8	4310 7	33 911	32 8 8	18 6 8	21 610	18 6 9	50 913	22 7 9	24 8 7	41 9 9	24 712	50 913
1982	38 9 9	36 8 9	44 916	28 710	23 7 9	45 916	17 611	12 610	10 418	22 6 8	29 9 7	31 910	45 916
1983	22 7 9	33 9 9	40 815	29 812	28 810	11 512	17 6 9	10 4 9	21 8 7	36 9 8	25 8 7	20 5 1	40 815
1984	33 9 7	32 810	29 8 8	20 610	24 6 8	16 6 9	20 611	20 7 9	38 8 8	24 8 8	23 7 9	40 9 8	40 9 8
1985	22 710	40 8 8	37 9 8	39 9 9	11 427	22 712	15 521	27 810	22 8 6	24 7 8	631011	31 9 9	631011
1986	38 8 8	26 8 9	31 813	25 7 8	27 810	14 512	20 6 8	15 6 9	25 7 9	26 8 6	25 8 9	35 912	38 8 8
1987	29 718	27 811	53 9 9	15 524	27 712	23 7 8	23 710	17 6 9	8 411	34 816	40 9 9	37 8 9	53 9 9
1988	5810 9	32 8 9	29 8 9	27 7 9	35 8 8	25 713	22 610	12 5 9	51 913	24 8 7	21 6 9	28 8 8	5810 9
1989	30 7 9	31 8 9	18 532	18 712	18 613	15 512	12 5 9	13 5 9	13 511	14 6 5	18 7 7	16 534	31 8 9
1990	23 7 8	34 8 8	37 8 8	30 8 8	25 712	15 512	12 5 9	10 4 9	11 510	27 719	30 7 8	36 9 7	37 8 8
1991	21 712	16 611	31 8 9	27 8 9	40 911	11 5 8	11 510	10 510	11 4 7	30 710	24 6 8	4110 8	4110 8
1992	21 713	29 718	22 710	25 6 8	17 6 7	14 616	14 610	27 621	18 710	32 9 8	23 8 6	18 7 5	32 9 8
1993	26 7 8	23 711	41 820	25 814	21 710	22 7 9	13 611	16 610	17 7 9	22 719	21 7 9	28 9 7	41 820
MAX	5810 9	4310 7	53 9 9	4210 8	40 911	45 916	27 811	671113	51 913	36 9 8	631011	46 9 8	

MAX Hmo(m): 6.7 MAX Tp(sec): 11. MAX Dp(deg): 133. DATE(gmt): 80080718

MAX WIND SPEED(m/sec): 22. MAX WIND DIRECTION(deg): 130. DATE(gmt): 85111921

MEAN Hmo(m): 0.8 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 1.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 80.75 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 3

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	673	614	714	1047	1181	1627	1802	2099	1852	1408	593	701	14311
0.50 - 0.99	2091	1688	1624	1650	1813	1999	2055	1805	1712	1651	1614	1677	21379
1.00 - 1.49	1008	946	1072	851	886	522	507	402	463	726	1000	1089	9472
1.50 - 1.99	388	440	509	406	412	113	77	98	164	392	549	478	4026
2.00 - 2.49	165	207	283	203	131	41	19	25	65	177	348	288	1952
2.50 - 2.99	60	83	173	100	29	12	4	8	29	90	141	151	880
3.00 - 3.49	42	53	44	43	6	3	.	5	9	16	49	47	317
3.50 - 3.99	18	23	29	17	4	1	.	3	9	3	14	19	140
4.00 - 4.49	5	11	13	3	2	2	.	3	9	1	6	10	65
4.50 - 4.99	10	5	1	.	.	.	.	5	8	.	2	3	34
5.00 - 5.49	2	1	1	.	.	.	.	3	.	.	2	1	10
5.50 - 5.99	2	1	1	.	.	.	.	5	.	.	1	.	10
6.00 - 6.49	.	.	.	.	.	.	.	3	.	.	1	.	4
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 3

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	727	579	607	741	715	980	1103	1350	1127	808	542	593	9872
4.0 - 4.9	1406	1116	1057	997	1082	1128	1298	1245	1065	1017	952	1103	13466
5.0 - 5.9	1033	853	883	822	956	818	970	866	702	950	908	1046	10807
6.0 - 6.9	634	691	915	834	1056	837	710	536	563	718	848	753	9095
7.0 - 7.9	317	379	489	422	356	222	214	170	198	398	549	455	4169
8.0 - 8.9	123	186	266	272	196	248	96	106	205	222	237	289	2446
9.0 - 9.9	67	81	82	82	24	45	51	42	110	164	93	77	918
10.0 - 10.9	39	31	20	11	1	9	9	35	49	75	42	29	350
11.0 - 11.9	41	42	31	26	15	15	5	24	70	21	27	31	348
12.0 - 12.9	27	24	10	21	24	5	5	37	57	15	40	24	289
13.0 - 13.9	11	9	10	41	18	2	3	25	47	12	21	20	219
14.0 - 14.9	4	24	31	20	14	6	.	8	62	32	42	15	258
15.0 - 15.9	4	22	6	20	7	5	.	13	38	14	6	15	150
16.0 - 16.9	19	18	18	1	.	.	.	7	7	9	4	3	86
17.0 - 17.9	5	14	14	2	.	.	.	.	5	7	4	2	53
18.0 - 18.9	5	3	20	4	.	.	.	.	10	2	4	6	54
19.0 - 19.9	2	.	5	4	.	.	.	.	3	.	1	3	18
20.0 - LONGER	.	.	.	.	.	.	.	.	2	.	.	.	2
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 3

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	381	205	188	144	30	5	8	8	16	116	191	216	1508
11.25 - 33.74 (22.5)	372	309	209	111	54	36	9	74	139	347	334	374	2368
33.75 - 56.24 (45.0)	545	436	373	362	202	68	26	114	418	792	677	692	4705
56.25 - 78.74 (67.5)	624	549	513	554	553	362	184	361	671	1250	1043	891	7555
78.75 - 101.24 (90.0)	939	876	1045	1230	1631	1576	2144	1977	1758	1155	1183	1138	16652
101.25 - 123.74 (112.5)	569	556	832	781	1091	1040	1049	1021	744	420	483	491	9077
123.75 - 146.24 (135.0)	336	388	528	522	628	909	918	711	367	185	129	240	5861
146.25 - 168.74 (157.5)	112	103	183	100	89	137	63	77	87	36	51	64	1102
168.75 - 191.24 (180.0)	70	82	112	52	35	84	25	31	72	43	38	42	686
191.25 - 213.74 (202.5)	54	57	51	27	17	14	19	29	14	31	35	31	379
213.75 - 236.24 (225.0)	42	36	38	21	23	20	3	27	7	18	12	19	266
236.25 - 258.74 (247.5)	48	40	44	58	23	43	1	4	7	6	19	24	317
258.75 - 281.24 (270.0)	53	61	76	88	26	16	8	4	2	3	10	32	379
281.25 - 303.74 (292.5)	88	75	87	90	18	.	.	4	.	2	19	37	420
303.75 - 326.24 (315.0)	87	142	96	90	22	1	2	8	13	16	34	63	574
326.25 - 348.74 (337.5)	144	157	89	90	22	9	5	14	5	44	62	110	751
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 80.75 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 3 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2027		.	.	26	1	2	.	.	.	2056
1.00 - 1.99	611	75	.	.	.	.	.	.	.	.	686
2.00 - 2.99	.	12	.	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2638	87	0	0	26	1	2	0	0	0	2754

STATION: 3 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2933	592	457	544	495	438	210	92	15	.	5776
1.00 - 1.99	151	2004	230	18	5	3	.	.	.	.	2411
2.00 - 2.99	.	111	780	8	2	.	.	.	.	.	901
3.00 - 3.99	.	1	70	82	.	.	.	.	.	.	153
4.00 - 4.99	.	.	2	33	.	.	.	.	.	.	35
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3084	2708	1539	689	502	441	210	92	15	0	9280

STATION: 3 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	11397	4715	710	79	23	7	.	.	.	.	16931
1.00 - 1.99	104	6571	1022	.	.	.	.	.	.	.	7697
2.00 - 2.99	.	61	1472	19	.	.	.	.	.	.	1552
3.00 - 3.99	.	.	88	155	.	.	.	.	.	.	243
4.00 - 4.99	.	.	1	40	.	.	.	.	.	.	41
5.00 - 5.99	.	.	.	9	.	.	.	.	.	.	9
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11501	11347	3293	303	23	7	0	0	0	0	26474

STATION: 3 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3420	3302	1260	235	82	28	24	15	5	.	8371
1.00 - 1.99	36	1436	150	3	.	.	.	.	.	.	1625
2.00 - 2.99	.	19	209	3	.	.	.	.	.	.	231
3.00 - 3.99	.	.	25	11	.	.	.	.	.	.	36
4.00 - 4.99	.	.	2	13	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	5	2	.	.	.	.	.	7
6.00 - 6.99	.	.	.	1	2	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3456	4757	1646	271	86	28	24	15	5	0	10288

STATION: 3 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	769	131		.	.	.	.	.	.	.	900
1.00 - 1.99	11	308	25	.	.	.	.	.	.	.	344
2.00 - 2.99	.	3	72	.	.	.	.	.	.	.	75
3.00 - 3.99	.	.	16	1	.	.	.	.	.	.	17
4.00 - 4.99	.	.	4	4	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	780	442	117	5	0	0	0	0	0	0	1344

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 80.75 W DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 3 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	380	40	.	.	.	.	.	.	.	.	420
1.00 - 1.99	10	147	.	.	.	.	.	.	.	.	157
2.00 - 2.99	.	17	11	.	.	.	.	.	.	.	28
3.00 - 3.99	.	.	7	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	390	204	18	0	0	0	0	0	0	0	612

STATION: 3 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	482	18	.	.	.	.	.	.	.	.	500
1.00 - 1.99	18	181	.	.	.	.	.	.	.	.	199
2.00 - 2.99	.	28	1	.	.	.	.	.	.	.	29
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	500	227	2	0	0	0	0	0	0	0	729

STATION: 3 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	736	.	.	.	.	.	.	.	.	.	736
1.00 - 1.99	253	126	.	.	.	.	.	.	.	.	379
2.00 - 2.99	.	4	.	.	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	989	130	0	0	0	0	0	0	0	0	1119

STATION: 3 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	22144	8798	2427	858	626	474	236	107	20	.	35690
1.00 - 1.99	1194	10848	1427	21	5	3	.	.	.	.	13498
2.00 - 2.99	.	255	2545	30	2	.	.	.	.	.	2832
3.00 - 3.99	.	1	207	249	.	.	.	.	.	.	457
4.00 - 4.99	.	.	9	90	.	.	.	.	.	.	99
5.00 - 5.99	.	.	.	18	2	.	.	.	.	.	20
6.00 - 6.99	.	.	.	2	2	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	23338	19902	6615	1268	637	477	236	107	20	0	52600

STATION: 3

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	225	256	247	417	535	746	835	875	789	678	205	256	6064
2.50 - 4.99	1649	1365	1519	1728	1920	2418	2511	2509	2312	1705	1361	1455	22452
5.00 - 7.49	1347	1154	1182	1051	1134	845	930	828	774	1113	1225	1227	12810
7.50 - 9.99	965	970	1065	910	803	286	177	213	363	808	1174	1093	8827
10.00 - 12.49	190	233	345	176	63	18	11	12	50	144	280	357	1879
12.50 - 14.99	70	88	99	38	9	4	.	7	29	15	69	72	500
15.00 - 17.49	13	5	6	.	.	2	.	10	3	.	2	4	45
17.50 - 19.99	5	1	1	.	.	1	.	10	.	1	2	.	21
20.00 - GREATER	.	.	.	.	.	.	.	.	.	.	2	.	2
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.50 N, LONG: 80.75 W, DEPTH: 183 M

STATION: 3

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	812	562	446	395	183	63	94	135	164	493	524	592	4463
22.50 - 67.49 (45.0)	1109	944	854	788	663	421	361	445	801	1833	1547	1465	11231
67.50 - 112.49 (90.0)	1229	1171	1485	1634	2212	2236	2858	2716	2348	1492	1501	1485	22367
112.50 - 157.49 (135.0)	535	596	828	693	894	962	763	730	592	277	397	418	7685
157.50 - 202.49 (180.0)	230	214	306	204	216	367	199	146	234	108	113	147	2484
202.50 - 247.49 (225.0)	117	112	147	135	90	138	74	146	75	84	61	65	1244
247.50 - 292.49 (270.0)	133	135	140	184	109	75	59	68	46	46	35	87	1117
292.50 - 337.49 (315.0)	299	338	258	287	97	58	56	78	60	131	142	205	2009
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 3

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.14	1.07	1.04	0.83	0.82	0.63	0.54	0.49	0.27	1.03	1.22	1.35	0.87
1977	0.85	0.99	1.13	1.61	1.00	0.49	0.64	0.88	0.50	0.72	1.10	1.02	0.91
1978	1.02	0.82	0.94	0.93	0.66	0.62	0.67	0.59	0.50	0.98	1.08	1.11	0.83
1979	1.42	1.00	1.33	1.26	0.86	0.72	0.71	0.53	1.33	0.79	1.47	1.27	1.06
1980	0.82	0.90	0.97	0.73	0.67	0.50	0.42	0.78	0.56	0.53	1.06	1.21	0.76
1981	0.68	1.70	1.06	1.29	0.61	0.72	0.50	0.86	0.54	0.88	1.08	0.83	0.89
1982	0.99	0.85	1.01	0.69	0.92	0.70	0.51	0.53	0.45	0.77	1.04	1.27	0.81
1983	0.67	1.06	1.18	0.99	0.99	0.47	0.58	0.41	0.75	0.85	0.81	0.99	0.81
1984	1.18	1.16	1.10	0.85	1.02	0.70	0.65	0.56	0.78	1.18	1.22	1.39	0.98
1985	0.71	1.32	1.10	0.96	0.44	0.48	0.53	0.66	0.88	0.90	1.23	1.04	0.85
1986	1.01	0.75	1.24	0.68	1.01	0.58	0.56	0.73	0.82	0.89	1.15	1.13	0.88
1987	0.87	0.96	1.34	0.60	0.82	0.78	0.74	0.58	0.36	0.94	1.44	0.99	0.87
1988	1.37	1.04	1.14	0.78	0.87	0.79	0.63	0.58	1.17	0.88	0.97	1.01	0.94
1989	0.83	0.96	0.79	0.60	0.58	0.62	0.48	0.37	0.49	0.50	0.72	0.54	0.62
1990	0.96	1.32	1.34	1.04	1.00	0.80	0.65	0.33	0.71	0.89	1.19	1.15	0.94
1991	0.79	0.78	0.97	1.04	1.03	0.35	0.40	0.42	0.38	0.82	0.95	1.05	0.75
1992	0.82	0.93	0.86	1.00	0.73	0.68	0.87	0.69	0.64	0.85	1.22	0.95	0.85
1993	1.07	0.89	0.97	0.93	0.95	0.73	0.48	0.52	0.69	0.58	1.05	0.91	0.81
MEAN	0.96	1.03	1.08	0.93	0.83	0.63	0.59	0.58	0.66	0.83	1.11	1.07	

STATION: 3

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	35 8 5	42 9 7	32 8 7	39 9 8	27 710	13 610	14 610	16 5 8	9 4 9	32 9 5	33 8 5	39 9 4	42 9 7
1977	28 8 7	27 8 6	28 8 9	43 9 8	26 8 8	13 510	11 5 8	23 7 9	18 613	26 7 7	27 8 8	30 8 5	43 9 8
1978	20 7 7	32 8 4	29 8 7	22 710	24 717	27 8 7	20 7 9	18 7 7	26 711	28 8 6	30 7 4	5110 7	5110 7
1979	5110 5	28 8 9	4110 8	38 910	28 8 5	25 8 6	28 811	13 5 7	43 915	24 7 8	38 9 5	38 9 5	5110 5
1980	18 7 7	29 8 4	37 9 7	21 715	23 7 8	22 7 7	14 5 9	631113	15 6 8	17 6 9	29 8 9	31 8 6	631113
1981	20 7 7	5510 5	32 911	39 9 6	17 6 8	21 610	19 6 8	50 914	22 7 9	30 7 6	4510 7	24 712	5510 5
1982	38 9 9	37 8 9	44 916	29 710	26 8 7	41 816	16 611	13 610	10 418	21 7 8	35 9 6	30 810	44 916
1983	23 7 8	35 9 8	43 816	30 812	27 810	11 512	18 6 9	10 4 9	25 8 7	43 9 7	32 8 6	23 6 3	43 9 7
1984	39 8 6	34 9 7	29 8 8	20 610	27 8 7	17 6 9	20 712	20 7 9	38 8 8	27 8 6	32 9 4	40 9 8	40 9 8
1985	22 710	3910 8	40 9 7	37 9 9	12 527	23 711	14 610	28 8 9	29 8 5	24 7 7	601012	32 9 8	601012
1986	39 9 7	27 7 9	33 9 7	24 7 8	27 810	15 512	20 7 8	16 6 9	22 7 8	35 8 5	27 8 7	36 813	39 9 7
1987	30 719	28 811	5510 8	16 624	30 812	22 7 8	23 710	17 6 9	8 411	33 722	41 9 8	38 8 8	5510 8
1988	5710 9	31 8 9	29 8 9	28 7 9	38 8 8	28 813	22 610	12 6 7	491012	31 8 6	22 6 6	31 8 8	5710 9
1989	31 8 9	32 8 9	18 532	17 611	18 613	15 512	12 5 9	13 5 9	13 512	19 6 4	23 7 5	16 534	32 8 9
1990	24 7 8	34 9 8	37 9 8	30 8 8	23 713	15 511	13 6 9	10 5 9	11 510	25 720	32 8 5	42 9 7	42 9 7
1991	22 612	16 612	31 818	29 8 6	41 911	11 5 8	11 510	11 510	11 5 7	31 713	24 8 8	4810 7	4810 7
1992	22 7 7	29 817	22 710	25 8 8	17 6 8	14 616	15 610	33 726	18 710	32 9 6	29 8 5	23 7 4	33 726
1993	26 8 8	26 7 5	42 820	25 814	21 7 9	22 7 9	13 610	17 610	21 7 4	23 719	25 8 5	33 9 7	42 820
MAX	5710 9	5510 5	5510 8	43 9 8	41 911	41 816	28 811	631113	491012	43 9 7	601012	5110 7	

MAX Hmo(m): 6.3 MAX Tp(sec): 11. MAX Dp(deg): 133. DATE(gmt): 80080718

MAX WIND SPEED(m/sec): 21. MAX WIND DIRECTION(deg): 130. DATE(gmt): 85111921

MEAN Hmo(m): 0.9 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.75 N, LONG: 80.50 W, DEPTH: 165 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 4

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	684	623	717	1054	1161	1619	1836	2122	1827	1413	592	693	14341
0.50 - 0.99	2106	1717	1653	1677	1852	2009	2064	1768	1744	1623	1625	1754	21592
1.00 - 1.49	1004	936	1058	811	854	519	459	403	447	744	1003	1049	9287
1.50 - 1.99	368	425	499	419	408	106	81	96	169	378	551	446	3946
2.00 - 2.49	165	193	272	189	135	44	17	34	67	193	326	290	1925
2.50 - 2.99	62	80	161	97	36	17	6	14	28	96	140	147	884
3.00 - 3.49	37	57	50	47	10	3	1	5	11	12	52	51	336
3.50 - 3.99	19	23	33	21	5	2	.	3	14	3	21	20	164
4.00 - 4.49	8	11	16	5	3	1	.	4	11	2	3	9	73
4.50 - 4.99	8	5	3	.	.	.	.	1	2	.	3	3	25
5.00 - 5.49	1	1	2	.	.	.	.	8	.	.	1	2	15
5.50 - 5.99	2	1	.	.	.	.	.	6	.	.	1	.	10
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	2	.	2
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 4

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	683	575	598	745	621	896	1022	1179	1026	697	478	547	9067
4.0 - 4.9	1342	1050	990	906	1062	1058	1282	1187	1008	975	943	1095	12898
5.0 - 5.9	915	800	842	770	890	699	824	770	667	893	900	959	9929
6.0 - 6.9	679	671	876	825	1084	889	746	629	542	672	820	739	9172
7.0 - 7.9	336	419	531	426	418	282	302	283	255	457	525	447	4681
8.0 - 8.9	160	221	310	316	222	344	189	166	265	299	266	365	3123
9.0 - 9.9	107	90	93	102	47	82	60	52	148	200	113	103	1197
10.0 - 10.9	50	44	34	25	11	27	21	38	73	93	68	37	521
11.0 - 11.9	62	51	39	38	24	24	6	28	83	44	41	49	489
12.0 - 12.9	48	29	19	42	40	4	6	49	67	23	59	28	414
13.0 - 13.9	20	17	16	54	19	3	6	45	49	21	26	29	305
14.0 - 14.9	6	27	37	33	19	5	.	13	71	44	46	18	319
15.0 - 15.9	11	30	11	24	7	7	.	17	37	24	9	18	195
16.0 - 16.9	31	25	23	3	.	.	.	6	8	10	13	9	128
17.0 - 17.9	5	15	15	1	.	.	.	2	4	7	4	9	62
18.0 - 18.9	7	8	21	6	.	.	.	.	7	5	7	9	70
19.0 - 19.9	2	.	9	3	.	.	.	.	8	.	2	3	27
20.0 - LONGER	.	.	.	1	.	.	.	.	2	.	.	.	3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 4

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	398	217	192	145	35	5	9	8	15	116	186	237	1563
11.25 - 33.74 (22.5)	429	329	221	132	52	39	5	78	179	411	375	435	2685
33.75 - 56.24 (45.0)	573	478	403	429	260	106	30	159	512	890	733	694	5267
56.25 - 78.74 (67.5)	564	515	474	528	540	384	190	332	653	1240	989	840	7249
78.75 - 101.24 (90.0)	843	774	937	1099	1444	1322	1763	1735	1589	991	1052	1042	14591
101.25 - 123.74 (112.5)	580	568	873	772	1137	1121	1232	1056	772	447	535	479	9572
123.75 - 146.24 (135.0)	414	463	613	631	735	1035	1092	905	397	178	181	315	6959
146.25 - 168.74 (157.5)	115	111	191	119	97	139	90	89	84	52	57	77	1221
168.75 - 191.24 (180.0)	87	96	112	46	32	73	26	23	71	39	56	47	708
191.25 - 213.74 (202.5)	56	42	52	23	16	13	15	35	15	31	24	32	354
213.75 - 236.24 (225.0)	44	41	53	27	20	16	3	19	8	11	8	24	274
236.25 - 258.74 (247.5)	18	27	28	39	23	40	2	1	4	3	16	18	219
258.75 - 281.24 (270.0)	38	46	40	73	17	15	4	3	1	.	7	22	266
281.25 - 303.74 (292.5)	82	67	79	68	15	.	.	4	.	3	15	36	369
303.75 - 326.24 (315.0)	84	131	101	103	23	4	.	2	10	13	28	61	560
326.25 - 348.74 (337.5)	139	167	95	86	18	8	3	15	10	39	58	105	743
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.75 N, LONG: 80.50 W, DEPTH: 165 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 4 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2003	.	.	6	41	3	8	.	.	.	2061
1.00 - 1.99	649	85	.	.	.	1	3	.	.	.	738
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2652	95	0	6	41	4	11	0	0	0	2809

STATION: 4 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2715	645	726	814	709	572	288	119	19	.	6607
1.00 - 1.99	168	1916	230	29	11	8	.	.	1	.	2363
2.00 - 2.99	.	114	758	16	9	.	.	.	.	.	897
3.00 - 3.99	.	1	94	65	.	.	.	.	.	.	160
4.00 - 4.99	.	.	3	37	.	.	.	.	.	.	40
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2883	2676	1811	965	729	580	288	119	20	0	10071

STATION: 4 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	10213	3928	925	132	23	4	.	.	.	.	15225
1.00 - 1.99	95	6307	883	7	.	.	.	.	.	.	7285
2.00 - 2.99	.	76	1432	7	.	.	.	.	.	.	1515
3.00 - 3.99	.	.	159	111	.	.	.	.	.	.	270
4.00 - 4.99	.	.	6	30	.	.	.	.	.	.	36
5.00 - 5.99	.	.	.	10	.	.	.	.	.	.	10
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10308	10311	3405	290	23	4	0	0	0	0	24341

STATION: 4 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3607	3522	1954	401	93	36	24	13	10	.	9660
1.00 - 1.99	39	1590	198	5	.	.	.	.	.	.	1832
2.00 - 2.99	.	27	241	4	.	.	.	.	.	.	272
3.00 - 3.99	.	.	26	24	.	.	.	.	.	.	50
4.00 - 4.99	.	.	2	13	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	4	5	.	.	.	.	.	9
6.00 - 6.99	.	.	.	2	.	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3646	5139	2421	453	98	36	24	13	10	0	11840

STATION: 4 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	740	164	.	.	12	.	.	.	.	.	916
1.00 - 1.99	12	333	38	.	.	.	.	.	.	.	383
2.00 - 2.99	.	6	79	.	.	.	.	.	.	.	85
3.00 - 3.99	.	.	15	1	.	.	.	.	.	.	16
4.00 - 4.99	.	.	4	1	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	752	503	136	4	12	0	0	0	0	0	1407

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.75 N, LONG: 80.50 W, DEPTH: 165 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 4 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	295	61	.	.	.	.	.	.	.	.	356
1.00 - 1.99	11	131	12	.	.	.	.	.	.	.	154
2.00 - 2.99	.	8	14	.	.	.	.	.	.	.	22
3.00 - 3.99	.	1	3	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	306	201	31	0	0	0	0	0	0	0	538

STATION: 4 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	440	2	.	.	.	.	.	.	.	.	442
1.00 - 1.99	63	23	.	.	.	.	.	.	.	.	86
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	503	27	0	0	0	0	0	0	0	0	530

STATION: 4 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	665	1	.	.	.	.	.	.	.	.	666
1.00 - 1.99	250	142	.	.	.	.	.	.	.	.	392
2.00 - 2.99	.	6	.	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	915	149	0	0	0	0	0	0	0	0	1064

STATION: 4 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	20678	8323	3605	1353	878	615	320	132	29	.	35933
1.00 - 1.99	1287	10527	1361	34	11	9	3	.	1	.	13233
2.00 - 2.99	.	249	2524	27	9	.	.	.	.	.	2809
3.00 - 3.99	.	2	297	201	.	.	.	.	.	.	500
4.00 - 4.99	.	.	17	81	.	.	.	.	.	.	98
5.00 - 5.99	.	.	.	20	5	.	.	.	.	.	25
6.00 - 6.99	.	.	.	2	.	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	0	0	0	0	0	0	0	0	0	0	0
TOTAL	21965	19101	7804	1718	903	624	323	132	30	0	52600

STATION: 4

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	259	296	289	474	589	828	927	931	828	724	236	297	6678
2.50 - 4.99	1631	1356	1498	1662	1869	2356	2429	2447	2271	1640	1361	1448	21968
5.00 - 7.49	1299	1130	1137	1055	1095	827	923	820	775	1105	1196	1186	12548
7.50 - 9.99	973	953	1074	897	823	276	171	215	360	818	1149	1073	8782
10.00 - 12.49	201	229	341	187	70	27	14	23	54	156	285	372	1959
12.50 - 14.99	81	97	113	45	18	4	.	8	32	18	86	83	585
15.00 - 17.49	12	8	9	.	.	2	.	11	.	1	3	3	49
17.50 - 19.99	8	3	3	.	.	.	.	8	.	2	4	2	30
20.00 - GREATER	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 24.75 N, LONG: 80.50 W, DEPTH: 165 M

STATION: 4

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	845	569	480	404	192	76	98	132	172	521	556	627	4672
22.50 - 67.49 (45.0)	1050	881	812	742	627	415	327	396	795	1782	1497	1418	10742
67.50 - 112.49 (90.0)	1207	1162	1455	1601	2161	2135	2733	2637	2311	1447	1488	1433	21770
112.50 - 157.49 (135.0)	544	593	825	713	915	967	829	802	585	299	407	434	7913
157.50 - 202.49 (180.0)	229	223	322	211	234	420	233	158	245	109	119	155	2658
202.50 - 247.49 (225.0)	127	122	150	135	106	159	101	152	89	87	61	76	1365
247.50 - 292.49 (270.0)	144	150	151	202	125	87	76	91	56	61	43	93	1279
292.50 - 337.49 (315.0)	318	372	269	312	104	61	67	96	67	158	149	228	2201
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 4

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.10	1.05	1.03	0.81	0.85	0.64	0.52	0.51	0.28	1.02	1.18	1.35	0.86
1977	0.83	0.95	1.10	1.61	1.02	0.48	0.63	0.91	0.51	0.73	1.10	1.02	0.91
1978	0.99	0.82	0.92	0.93	0.66	0.64	0.67	0.59	0.49	1.00	1.07	1.12	0.83
1979	1.41	0.99	1.31	1.27	0.87	0.72	0.70	0.52	1.32	0.79	1.48	1.25	1.05
1980	0.81	0.92	0.98	0.75	0.68	0.50	0.43	0.78	0.56	0.53	1.07	1.20	0.77
1981	0.69	1.69	1.07	1.29	0.62	0.72	0.51	0.87	0.56	0.88	1.08	0.84	0.89
1982	1.00	0.87	1.02	0.71	0.93	0.71	0.53	0.52	0.45	0.79	1.05	1.30	0.82
1983	0.68	1.06	1.14	0.98	0.99	0.47	0.57	0.42	0.77	0.86	0.81	0.99	0.81
1984	1.19	1.14	1.08	0.83	1.02	0.70	0.65	0.55	0.80	1.19	1.23	1.37	0.98
1985	0.71	1.32	1.09	0.97	0.45	0.48	0.53	0.67	0.92	0.91	1.22	1.03	0.85
1986	0.99	0.75	1.25	0.67	1.02	0.59	0.54	0.74	0.81	0.90	1.14	1.15	0.88
1987	0.86	0.97	1.38	0.59	0.83	0.77	0.73	0.57	0.37	0.95	1.43	0.97	0.87
1988	1.34	1.00	1.11	0.76	0.85	0.80	0.60	0.57	1.10	0.85	0.96	0.96	0.91
1989	0.80	0.92	0.80	0.60	0.58	0.61	0.48	0.38	0.49	0.51	0.72	0.54	0.62
1990	0.96	1.32	1.34	1.05	1.00	0.81	0.65	0.34	0.70	0.89	1.18	1.14	0.95
1991	0.80	0.81	0.97	1.04	1.05	0.37	0.41	0.42	0.41	0.84	0.96	1.03	0.76
1992	0.84	0.90	0.86	0.99	0.72	0.68	0.84	0.68	0.64	0.85	1.23	0.93	0.85
1993	1.09	0.89	0.97	0.93	0.96	0.72	0.47	0.52	0.70	0.59	1.03	0.89	0.81
MEAN	0.95	1.02	1.08	0.93	0.84	0.63	0.58	0.59	0.66	0.84	1.11	1.06	

STATION: 4

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	34 8 7	42 9 7	32 8 7	40 9 8	30 812	14 610	14 610	17 6 8	7 4 9	32 8 5	33 8 5	40 9 3	42 9 7
1977	27 8 7	26 7 5	28 811	44 9 8	29 8 7	12 510	11 510	26 8 9	21 613	27 7 6	32 8 8	34 8 5	44 9 8
1978	23 717	34 8 4	29 717	25 811	23 717	31 8 7	22 7 9	21 7 7	25 711	29 8 6	34 7 3	52 9 7	52 9 7
1979	5110 6	29 8 9	4010 8	36 912	34 9 5	29 8 6	31 811	15 5 7	42 815	25 8 8	40 9 5	38 9 6	5110 6
1980	19 718	32 8 4	36 8 7	26 716	26 7 8	23 7 7	15 610	591114	16 6 8	17 6 7	29 8 9	30 8 6	591114
1981	20 6 7	5710 5	32 912	41 9 6	17 6 8	22 610	20 6 8	52 916	23 7 9	34 8 7	46 9 7	24 712	5710 5
1982	38 819	39 9 9	44 914	30 710	29 8 7	41 816	17 612	12 610	10 418	22 7 8	37 9 7	32 810	44 914
1983	24 7 8	37 9 8	44 816	30 812	27 810	11 512	17 6 9	10 4 9	28 8 6	41 8 7	33 8 5	2310 4	44 816
1984	40 8 6	35 9 7	30 723	21 610	27 8 7	17 6 9	20 612	22 712	41 8 8	28 8 5	33 9 4	42 9 8	42 9 8
1985	23 810	4010 8	41 9 7	38 9 9	11 5 6	22 711	16 621	28 8 9	31 9 5	26 8 8	631013	32 8 9	631013
1986	39 8 7	28 7 9	33 813	24 7 8	28 810	16 6 7	20 7 9	17 610	22 7 8	35 8 4	28 8 6	39 912	39 912
1987	31 817	28 812	5410 8	16 615	38 813	25 813	23 710	17 6 9	9 410	43 820	41 9 9	38 8 9	5410 8
1988	5610 9	29 8 9	30 8 9	28 7 9	38 8 8	34 814	22 610	14 6 7	461013	29 8 6	20 7 9	30 8 8	5610 9
1989	31 810	32 8 9	19 532	17 610	18 613	13 512	11 5 9	14 5 9	12 512	20 6 4	23 7 5	16 534	32 8 9
1990	24 7 8	34 9 8	39 9 8	31 9 8	23 714	15 512	14 5 9	11 5 9	11 510	24 719	33 8 5	41 9 6	41 9 6
1991	23 710	18 6 8	34 818	30 8 6	431011	11 5 8	11 510	10 511	12 5 7	31 713	25 8 8	47 9 7	47 9 7
1992	23 713	28 817	22 710	24 8 8	17 6 8	13 516	15 610	34 819	18 710	34 9 6	31 9 5	22 7 4	34 9 6
1993	29 8 8	26 7 5	46 917	25 814	21 710	22 7 8	13 611	17 610	21 7 4	24 719	25 8 6	33 9 7	46 917
MAX	5610 9	5710 5	5410 8	44 9 8	431011	41 816	31 811	591114	461013	43 820	631013	52 9 7	

MAX Hmo(m): 6.3 MAX Tp(sec): 10. MAX Dp(deg): 133. DATE(gmt): 85112000

MAX WIND SPEED(m/sec): 21. MAX WIND DIRECTION(deg): 265. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.00 N, LONG: 80.25 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 5

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	676	583	721	1021	1126	1601	1867	2185	1773	1358	535	665	14111
0.50 - 0.99	2125	1749	1665	1689	1914	2055	2048	1699	1787	1619	1694	1791	21835
1.00 - 1.49	968	943	1023	826	814	474	438	390	450	783	981	1026	9116
1.50 - 1.99	378	423	516	403	405	115	83	105	171	372	556	452	3979
2.00 - 2.49	167	182	273	202	141	46	21	38	66	206	307	294	1943
2.50 - 2.99	70	87	140	101	39	19	4	17	36	100	153	138	904
3.00 - 3.49	39	60	70	41	13	8	3	7	14	17	59	60	391
3.50 - 3.99	26	25	32	32	8	2	.	6	14	6	25	25	201
4.00 - 4.49	7	14	13	4	3	.	.	3	8	3	5	11	71
4.50 - 4.99	5	4	9	1	1	.	.	6	1	.	1	.	28
5.00 - 5.49	3	2	2	.	.	.	.	7	.	.	3	2	19
5.50 - 5.99	.	.	.	.	.	.	.	1	.	.	.	.	1
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	1	.	1
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 5

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	579	466	543	627	589	824	976	1113	918	516	404	442	7997
4.0 - 4.9	1229	947	922	847	1023	1031	1207	1121	930	841	859	1018	11975
5.0 - 5.9	853	760	831	746	903	696	914	766	650	850	861	915	9745
6.0 - 6.9	687	671	857	802	1073	962	741	655	521	707	859	743	9278
7.0 - 7.9	363	435	544	456	439	301	345	320	351	524	540	492	5110
8.0 - 8.9	187	252	292	292	198	256	166	170	233	295	287	359	2987
9.0 - 9.9	164	103	118	113	77	109	67	65	196	249	121	105	1487
10.0 - 10.9	67	87	42	51	22	45	25	47	126	131	93	71	807
11.0 - 11.9	98	70	54	54	22	46	8	26	92	69	54	67	660
12.0 - 12.9	74	45	52	96	58	14	5	61	75	41	76	50	647
13.0 - 13.9	49	55	30	101	28	15	9	59	79	68	44	55	592
14.0 - 14.9	21	45	61	76	23	11	1	28	76	72	65	47	526
15.0 - 15.9	24	34	24	34	9	10	.	16	37	48	16	39	291
16.0 - 16.9	37	50	31	8	.	.	.	15	13	20	22	21	217
17.0 - 17.9	17	34	22	4	.	.	.	2	9	15	5	17	125
18.0 - 18.9	8	11	24	7	.	.	.	.	8	11	13	12	94
19.0 - 19.9	6	5	17	3	.	.	.	.	6	6	1	8	52
20.0 - LONGER	1	2	.	3	.	.	.	.	.	1	.	3	10
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 5

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	363	192	168	128	31	6	5	8	17	87	175	222	1402
11.25 - 33.74 (22.5)	604	505	333	314	154	116	13	156	442	736	485	620	4478
33.75 - 56.24 (45.0)	619	519	433	524	289	228	73	235	531	1037	806	760	6054
56.25 - 78.74 (67.5)	482	488	459	472	511	355	199	313	666	1133	878	742	6698
78.75 - 101.24 (90.0)	737	689	884	965	1312	1104	1558	1605	1402	860	992	930	13038
101.25 - 123.74 (112.5)	493	495	791	691	1057	1091	1275	1006	648	317	488	444	8796
123.75 - 146.24 (135.0)	451	425	578	592	773	999	1169	909	395	115	225	308	6939
146.25 - 168.74 (157.5)	147	145	241	151	154	220	106	112	98	48	57	88	1567
168.75 - 191.24 (180.0)	98	98	118	48	45	103	34	46	73	34	58	46	801
191.25 - 213.74 (202.5)	50	41	60	23	18	17	14	33	15	33	25	37	366
213.75 - 236.24 (225.0)	40	33	47	33	17	17	2	18	8	6	7	20	248
236.25 - 258.74 (247.5)	20	34	26	40	17	36	3	1	5	1	13	24	220
258.75 - 281.24 (270.0)	36	39	41	65	22	18	6	3	1	2	11	23	267
281.25 - 303.74 (292.5)	90	72	80	77	22	.	.	4	.	4	15	33	397
303.75 - 326.24 (315.0)	82	136	98	104	21	3	.	4	9	14	32	55	558
326.25 - 348.74 (337.5)	152	161	107	93	21	7	7	11	10	37	53	112	771
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.00 N, LONG: 80.25 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 5 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1769			30	103	24	9				1935
1.00 - 1.99	596	89		2	2	7	5				701
2.00 - 2.99		7									7
3.00 - 3.99				2							2
4.00 - 4.99				1							1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2365	96	0	35	105	31	14	0	0	0	2646

STATION: 5 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2280	1019	1313	1402	1041	1012	464	198	52	1	8782
1.00 - 1.99	186	1890	307	59	46	43	6	7	3		2547
2.00 - 2.99		125	765	30	11						931
3.00 - 3.99			163	27	3	2					195
4.00 - 4.99			3	27							30
5.00 - 5.99				4							4
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2466	3034	2551	1549	1101	1057	470	205	55	1	12489

STATION: 5 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	8926	3375	823	188	10	2					13324
1.00 - 1.99	115	5990	698	3							6803
2.00 - 2.99		87	1386	51							1476
3.00 - 3.99			241	30							292
4.00 - 4.99			8	8							38
5.00 - 5.99											8
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	9041	9452	3156	280	10	2	0	0	0	0	21941

STATION: 5 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3599	3720	1618	356	79	28	24	14	6		9444
1.00 - 1.99	39	1664	192	4							1899
2.00 - 2.99		30	267	2	1						300
3.00 - 3.99			39	29							68
4.00 - 4.99				18							18
5.00 - 5.99				4	3						7
6.00 - 6.99				1							1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	3638	5414	2116	414	83	28	24	14	6	0	11737

STATION: 5 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	718	253	71		8						1050
1.00 - 1.99	17	374	48								439
2.00 - 2.99		11	87	1							99
3.00 - 3.99			20	6							26
4.00 - 4.99			2	8							10
5.00 - 5.99				1							1
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	735	638	228	16	8	0	0	0	0	0	1625

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.00 N, LONG: 80.25 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 5 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	272	52	1	.	.	.	.	.	.	.	325
1.00 - 1.99	19	125	19	.	.	.	.	.	.	.	163
2.00 - 2.99	.	5	16	.	.	.	.	.	.	.	21
3.00 - 3.99	.	.	8	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	291	182	46	0	0	0	0	0	0	0	519

STATION: 5 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	446	3	.	.	.	.	.	.	.	.	449
1.00 - 1.99	76	31	.	.	.	.	.	.	.	.	107
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	522	36	0	0	0	0	0	0	0	0	558

STATION: 5 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	637	.	.	.	.	.	.	.	.	.	637
1.00 - 1.99	277	159	.	.	.	.	.	.	.	.	436
2.00 - 2.99	.	12	.	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	914	171	0	0	0	0	0	0	0	0	1085

STATION: 5 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	18647	8422	3826	1976	1241	1066	497	212	58	1	35946
1.00 - 1.99	1325	10322	1264	65	48	50	11	7	3	.	13095
2.00 - 2.99	.	278	2521	36	12	.	.	.	.	.	2847
3.00 - 3.99	.	1	471	115	3	2	.	.	.	.	592
4.00 - 4.99	.	.	15	84	.	.	.	.	.	.	99
5.00 - 5.99	.	.	.	17	3	.	.	.	.	.	20
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	19972	19023	8097	2294	1307	1118	508	219	61	1	52600

STATION: 5

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	279	343	330	524	625	896	1010	984	873	764	258	330	7216
2.50 - 4.99	1600	1317	1481	1585	1812	2285	2349	2379	2206	1588	1351	1433	21386
5.00 - 7.49	1275	1103	1094	1040	1079	821	919	800	790	1062	1164	1167	12314
7.50 - 9.99	964	929	1079	915	836	276	170	233	356	849	1148	1043	8798
10.00 - 12.49	231	250	333	193	87	34	14	38	61	180	287	378	2086
12.50 - 14.99	94	110	126	62	24	7	2	14	31	16	100	103	689
15.00 - 17.49	13	15	18	1	1	1	.	12	2	3	8	8	82
17.50 - 19.99	7	5	3	.	.	.	.	3	1	1	4	2	26
20.00 - GREATER	1							1		1			3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.00 N, LONG: 80.25 W, DEPTH: 183 M

STATION: 5

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	859	578	497	388	180	71	90	112	182	543	568	678	4746
22.50 - 67.49 (45.0)	997	826	768	714	581	416	303	379	794	1734	1441	1345	10298
67.50 - 112.49 (90.0)	1175	1136	1417	1565	2108	2041	2611	2579	2245	1405	1472	1407	21161
112.50 - 157.49 (135.0)	567	596	838	727	957	975	899	835	616	327	440	441	8218
157.50 - 202.49 (180.0)	228	238	333	221	249	461	258	186	245	116	120	164	2819
202.50 - 247.49 (225.0)	140	138	157	140	135	181	133	160	102	98	65	83	1532
247.50 - 292.49 (270.0)	155	158	165	231	135	107	95	118	61	74	46	107	1452
292.50 - 337.49 (315.0)	343	402	289	334	119	68	75	95	75	167	168	239	2374
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 5

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.08	1.03	1.00	0.80	0.86	0.64	0.50	0.52	0.28	1.03	1.16	1.35	0.85
1977	0.82	0.93	1.07	1.60	1.04	0.46	0.62	0.94	0.52	0.75	1.13	1.01	0.91
1978	0.99	0.83	0.90	0.94	0.66	0.65	0.66	0.58	0.51	1.05	1.07	1.14	0.83
1979	1.42	1.00	1.30	1.28	0.88	0.72	0.69	0.52	1.32	0.81	1.50	1.26	1.06
1980	0.83	0.99	1.00	0.79	0.71	0.51	0.43	0.76	0.57	0.56	1.09	1.22	0.79
1981	0.72	1.68	1.12	1.28	0.63	0.72	0.50	0.87	0.58	0.91	1.10	0.88	0.91
1982	1.02	0.89	1.04	0.73	0.95	0.72	0.55	0.51	0.47	0.83	1.09	1.35	0.85
1983	0.69	1.08	1.15	1.00	0.99	0.47	0.56	0.42	0.78	0.89	0.81	1.02	0.82
1984	1.24	1.15	1.08	0.85	1.02	0.71	0.64	0.54	0.85	1.23	1.26	1.35	0.99
1985	0.73	1.31	1.07	0.99	0.45	0.48	0.53	0.69	0.97	0.93	1.22	1.02	0.86
1986	0.99	0.76	1.28	0.68	1.03	0.59	0.52	0.76	0.81	0.91	1.14	1.17	0.89
1987	0.88	1.00	1.44	0.61	0.84	0.75	0.70	0.55	0.37	0.98	1.43	0.96	0.88
1988	1.32	0.98	1.09	0.77	0.84	0.82	0.65	0.57	1.06	0.85	0.94	0.92	0.90
1989	0.79	0.90	0.82	0.60	0.58	0.59	0.47	0.38	0.51	0.54	0.72	0.56	0.62
1990	0.94	1.32	1.33	1.04	0.99	0.79	0.64	0.35	0.68	0.90	1.17	1.15	0.94
1991	0.81	0.85	0.99	1.05	1.06	0.40	0.41	0.43	0.42	0.87	0.97	1.01	0.77
1992	0.86	0.91	0.88	1.00	0.74	0.71	0.84	0.70	0.64	0.86	1.26	0.92	0.86
1993	1.12	0.91	1.00	0.94	0.97	0.72	0.46	0.53	0.70	0.60	1.03	0.90	0.82
MEAN	0.96	1.03	1.09	0.94	0.85	0.64	0.58	0.59	0.67	0.86	1.12	1.07	

STATION: 5

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	35 8 7	42 9 7	35 8 7	41 9 9	33 812	14 610	13 610	19 6 8	7 4 8	33 8 5	34 8 5	40 9 2	42 9 7
1977	25 8 7	25 7 5	30 8 7	46 9 8	33 9 7	11 510	12 510	28 8 9	23 712	29 7 6	36 8 8	38 8 5	46 9 8
1978	25 717	36 8 4	30 717	32 813	23 717	33 8 8	23 7 9	24 7 8	23 711	31 8 5	38 8 4	5410 7	5410 7
1979	50 9 5	30 8 9	40 9 8	381012	38 8 5	34 8 7	34 912	15 5 7	44 9 6	27 8 8	39 9 5	39 9 6	50 9 5
1980	22 719	35 8 4	36 8 7	31 815	27 8 8	24 7 7	16 610	551114	17 6 8	17 6 7	30 7 7	31 8 5	551114
1981	21 6 7	5310 5	33 812	42 9 6	19 613	23 711	22 6 9	51 916	25 7 9	39 8 6	44 9 7	25 713	5310 5
1982	39 822	43 910	46 9 9	31 710	31 8 7	38 817	18 712	13 510	11 5 9	23 7 8	38 8 6	34 810	46 9 9
1983	25 7 8	39 8 8	48 916	30 813	27 810	12 512	18 7 9	11 5 9	29 8 6	40 8 7	34 8 5	2711 3	48 916
1984	42 9 6	36 8 6	32 821	22 610	29 7 7	18 7 9	20 612	24 712	45 9 8	29 8 5	34 8 3	43 9 8	45 9 8
1985	24 810	40 8 8	41 8 7	39 8 9	11 5 6	23 711	17 620	28 8 8	32 8 5	28 8 8	601014	32 8 8	601014
1986	37 8 7	29 7 9	35 912	24 7 8	28 810	17 6 7	19 7 9	20 710	22 7 8	37 8 4	30 8 6	41 913	41 913
1987	33 817	29 812	53 9 8	18 615	45 913	27 813	22 710	17 6 9	8 411	43 819	41 9 9	38 8 9	53 9 8
1988	52 9 9	27 8 9	31 8 9	28 7 9	35 8 8	39 814	21 610	17 6 3	431014	30 8 5	19 6 5	30 7 8	52 9 9
1989	31 810	31 7 7	21 532	18 610	18 613	12 514	12 510	16 6 8	11 512	21 6 4	24 7 6	16 533	31 7 7
1990	24 7 8	35 8 7	39 9 8	31 8 8	23 713	15 5 7	15 5 9	12 5 9	11 510	24 7 7	34 8 5	39 9 5	39 9 5
1991	26 710	20 7 8	35 819	32 8 6	441011	13 5 8	12 510	10 5 9	12 5 7	31 714	27 7 8	44 9 7	44 9 7
1992	25 813	26 817	24 7 9	24 7 7	17 6 8	12 517	15 610	40 818	18 710	35 8 5	33 8 5	23 7 4	40 818
1993	31 8 8	27 8 4	49 918	25 810	22 7 9	22 7 8	13 611	17 610	22 7 3	26 819	26 8 5	34 8 6	49 918
MAX	52 9 9	5310 5	53 9 8	46 9 8	45 913	39 814	34 912	551114	45 9 8	43 819	601014	5410 7	

MAX Hmo(m): 6.0 MAX Tp(sec): 10. MAX Dp(deg): 140. DATE(gmt): 85112000

MAX WIND SPEED(m/sec): 27. MAX WIND DIRECTION(deg): 250. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 6.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.25 N, LONG: 80.00 W, DEPTH: 275 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 6

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	339	292	456	644	867	1400	1850	1974	1233	822	262	351	10490
0.50 - 0.99	1928	1648	1678	1895	2108	2250	2147	1906	2169	1718	1576	1791	22814
1.00 - 1.49	1252	1162	1123	988	904	475	367	382	564	1027	1186	1120	10550
1.50 - 1.99	499	503	572	419	406	125	75	115	186	531	654	557	4642
2.00 - 2.49	229	239	324	195	117	44	19	40	80	211	330	340	2168
2.50 - 2.99	84	107	179	106	38	18	3	17	37	110	171	184	1054
3.00 - 3.49	61	61	68	38	15	6	3	7	28	37	79	61	464
3.50 - 3.99	32	30	29	28	6	2	.	4	13	5	37	34	220
4.00 - 4.49	17	17	26	6	3	.	.	6	6	2	14	15	112
4.50 - 4.99	6	7	7	1	.	.	.	8	1	1	6	7	44
5.00 - 5.49	7	4	2	.	.	.	.	4	2	.	4	4	27
5.50 - 5.99	5	1	.	.	.	.	.	.	1	.	1	.	8
6.00 - 6.49	3	1	.	.	.	.	.	1	.	.	.	.	4
6.50 - 6.99	1	.	.	.	.	.	.	.	.	.	.	.	2
7.00 - 7.49	1	.	.	.	.	.	.	.	.	.	.	.	1
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 6

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	141	134	201	267	356	619	842	868	531	157	105	145	4366
4.0 - 4.9	700	596	659	650	811	866	1179	1085	662	542	597	639	8896
5.0 - 5.9	917	769	767	742	834	707	759	659	610	711	869	823	9167
6.0 - 6.9	860	790	857	811	984	892	674	635	544	822	938	870	9677
7.0 - 7.9	470	523	612	467	519	376	409	411	529	571	655	638	6180
8.0 - 8.9	297	294	376	264	235	311	264	267	335	405	329	413	3790
9.0 - 9.9	219	175	160	141	211	156	103	94	251	339	194	148	2191
10.0 - 10.9	128	175	140	127	79	90	104	89	188	206	177	124	1627
11.0 - 11.9	148	103	123	129	82	137	50	47	143	127	106	90	1285
12.0 - 12.9	144	73	130	189	167	72	40	92	130	121	103	90	1351
13.0 - 13.9	104	88	83	208	69	46	15	107	140	119	75	128	1182
14.0 - 14.9	78	65	135	163	58	30	16	50	119	126	110	121	1071
15.0 - 15.9	62	50	70	71	36	17	7	28	75	87	41	84	628
16.0 - 16.9	65	83	46	37	6	1	2	17	29	63	41	43	433
17.0 - 17.9	69	85	27	18	8	.	.	12	17	30	33	35	334
18.0 - 18.9	37	38	35	12	5	.	.	3	12	20	21	26	209
19.0 - 19.9	16	9	33	13	3	.	.	.	4	10	16	15	119
20.0 - LONGER	9	22	10	11	1	.	.	.	1	8	.	32	94
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 6

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	649	379	291	254	64	44	29	63	48	182	275	439	2717
11.25 - 33.74 (22.5)	1158	1055	766	904	593	500	230	489	1146	1577	1010	1253	10681
33.75 - 56.24 (45.0)	644	500	617	610	515	397	228	361	641	994	806	702	7015
56.25 - 78.74 (67.5)	362	399	459	476	594	355	278	465	723	940	829	543	6423
78.75 - 101.24 (90.0)	468	476	622	655	1011	843	1253	1259	859	458	692	585	9181
101.25 - 123.74 (112.5)	298	371	542	495	775	895	1127	832	390	131	337	353	6546
123.75 - 146.24 (135.0)	273	291	460	417	618	855	1158	773	321	66	184	241	5657
146.25 - 168.74 (157.5)	141	135	227	132	154	232	112	120	101	25	51	75	1505
168.75 - 191.24 (180.0)	92	85	117	44	48	112	26	38	65	27	32	42	728
191.25 - 213.74 (202.5)	48	27	40	16	9	14	13	32	14	22	26	27	288
213.75 - 236.24 (225.0)	32	22	48	20	16	20	3	15	3	5	7	21	212
236.25 - 258.74 (247.5)	15	21	22	36	8	31	2	.	2	2	11	15	165
258.75 - 281.24 (270.0)	29	30	24	41	16	16	3	1	.	3	4	18	185
281.25 - 303.74 (292.5)	52	48	67	48	22	1	.	4	.	2	12	19	275
303.75 - 326.24 (315.0)	76	109	78	82	11	2	.	3	4	8	9	47	429
326.25 - 348.74 (337.5)	127	124	84	90	10	3	2	9	3	22	35	84	593
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.25 N, LONG: 80.00 W, DEPTH: 275 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 6 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	970	1273	55	84	157	22	.	.	.	.	2561
1.00 - 1.99	160	1296	242	153	58	22	15	.	.	.	1946
2.00 - 2.99	.	89	358	16	15	3	4	1	.	.	486
3.00 - 3.99	.	.	60	53	2	4	.	.	.	.	119
4.00 - 4.99	.	.	7	32	4	.	.	.	.	.	43
5.00 - 5.99	.	.	.	7	10	.	.	.	.	.	17
6.00 - 6.99	.	.	.	.	4	1	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1130	2658	722	345	250	53	19	1	0	0	5178

STATION: 6 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1413	1513	2444	2164	1960	1837	856	398	117	12	12714
1.00 - 1.99	77	2242	599	617	287	285	158	130	72	7	4474
2.00 - 2.99	.	100	965	13	27	27	.	2	.	.	1134
3.00 - 3.99	.	.	223	37	.	.	.	.	.	.	260
4.00 - 4.99	.	.	39	15	.	.	.	.	.	.	54
5.00 - 5.99	.	.	.	5	5	.	.	.	.	.	10
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1490	3855	4270	2852	2279	2149	1014	530	189	19	18647

STATION: 6 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6057	1811	808	220	44	15	3	2	2	.	8962
1.00 - 1.99	102	5117	494	.	.	.	.	.	.	.	5713
2.00 - 2.99	.	95	1054	.	.	.	.	.	.	.	1149
3.00 - 3.99	.	.	182	17	.	.	.	.	.	.	199
4.00 - 4.99	.	.	16	17	.	.	.	.	.	.	33
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6159	7023	2554	256	44	15	3	2	2	0	16058

STATION: 6 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2611	2604	1650	280	60	36	25	10	3	.	7279
1.00 - 1.99	45	1633	192	6	1	.	.	.	.	.	1876
2.00 - 2.99	.	34	263	4	.	.	.	.	.	.	302
3.00 - 3.99	.	.	41	25	.	.	.	.	.	.	66
4.00 - 4.99	.	.	.	14	.	.	.	.	.	.	14
5.00 - 5.99	.	.	.	3	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2656	4271	2146	332	61	36	25	10	3	0	9540

STATION: 6 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	552	259	39	.	2	.	.	.	.	.	852
1.00 - 1.99	23	416	71	.	.	.	.	.	.	.	510
2.00 - 2.99	.	13	94	4	.	.	.	.	.	.	111
3.00 - 3.99	.	.	23	13	.	.	.	.	.	.	36
4.00 - 4.99	.	.	1	9	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	575	688	228	27	2	0	0	0	0	0	1520

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.25 N, LONG: 80.00 W, DEPTH: 275 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 6 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	183	44	1	.	.	.	.	.	.	.	228
1.00 - 1.99	14	120	28	.	.	.	.	.	.	.	162
2.00 - 2.99	.	8	18	1	.	.	.	.	.	.	27
3.00 - 3.99	.	.	3	1	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	2	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	197	172	50	6	0	0	0	0	0	0	425

STATION: 6 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	288	3	.	.	.	.	.	.	.	.	291
1.00 - 1.99	72	25	.	.	.	.	.	.	.	.	97
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	360	29	0	0	0	0	0	0	0	0	389

STATION: 6 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	413	4	.	.	.	.	.	.	.	.	417
1.00 - 1.99	282	132	.	.	.	.	.	.	.	.	414
2.00 - 2.99	.	12	.	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	695	148	0	0	0	0	0	0	0	0	843

STATION: 6 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	12487	7511	4997	2748	2223	1910	884	410	122	12	33304
1.00 - 1.99	775	10981	1626	776	345	307	173	130	72	7	15192
2.00 - 2.99	.	352	2752	38	43	30	4	3	.	.	3222
3.00 - 3.99	.	.	532	146	2	4	.	.	.	.	684
4.00 - 4.99	.	.	63	89	4	.	.	.	.	.	156
5.00 - 5.99	.	.	.	20	15	.	.	.	.	.	35
6.00 - 6.99	.	.	.	1	4	1	.	.	.	.	6
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	13262	18844	9970	3818	2636	2253	1061	543	194	19	52600

STATION: 6

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	278	336	327	508	639	887	970	983	875	751	248	319	7161
2.50 - 4.99	1627	1348	1536	1622	1850	2366	2478	2426	2233	1601	1408	1506	22001
5.00 - 7.49	1257	1094	1076	1044	1073	770	843	764	776	1049	1154	1159	12059
7.50 - 9.99	967	912	1057	903	809	258	160	224	341	866	1124	1035	8656
10.00 - 12.49	217	261	320	180	69	35	12	38	63	177	280	337	1989
12.50 - 14.99	98	104	129	62	23	4	1	14	27	16	96	99	673
15.00 - 17.49	12	13	16	1	1	.	.	12	2	1	7	7	72
17.50 - 19.99	7	4	3	.	.	.	.	1	3	2	3	2	25
20.00 - GREATER	1							2		1			4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES (1976 - 1993)
LAT: 25.25 N, LONG: 80.00 W, DI TH: 277 M

STATION: 6

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	858	598	505	390	172	77	103	119	175	378	345	550	[illegible]
22.50 - 67.49 (45.0)	971	770	736	697	593	426	427	364	825	1420	1[illegible]	1[illegible]	[illegible]
67.50 - 112.49 (90.0)	1107	1084	1331	1494	2020	1887	2599	2496	2145	1237	1[illegible]	1[illegible]	[illegible]
112.50 - 157.49 (135.0)	571	609	870	747	982	1067	1055	910	661	335	422	439	[illegible]
157.50 - 202.49 (180.0)	247	255	361	248	289	489	305	227	263	128	1[illegible]	1[illegible]	[illegible]
202.50 - 247.49 (225.0)	148	148	155	157	152	214	163	158	101	98	[illegible]	[illegible]	[illegible]
247.50 - 292.49 (270.0)	165	174	188	234	144	115	106	110	59	81	[illegible]	[illegible]	[illegible]
292.50 - 337.49 (315.0)	397	434	318	353	112	65	73	109	81	183	[illegible]	[illegible]	[illegible]
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	[illegible]

STATION: 6

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.08	1.01	0.92	0.87	0.66	0.48	0.62	0.34	1.21	1.31	1.49	0.94
1977	1.04	1.01	1.09	1.60	1.03	0.46	0.60	0.95	0.56	0.88	1.35	1.16	0.98
1978	1.20	1.09	1.02	0.95	0.67	0.66	0.65	0.58	0.66	1.24	1.23	1.28	0.93
1979	1.65	1.20	1.34	1.31	0.92	0.79	0.69	0.52	1.37	0.86	1.62	1.36	1.15
1980	0.98	1.40	1.11	0.86	0.73	0.55	0.44	0.79	0.60	0.69	1.23	1.36	0.89
1981	1.05	1.78	1.31	1.24	0.68	0.71	0.50	0.87	0.70	1.03	1.22	1.05	1.01
1982	1.06	0.94	1.09	0.77	0.94	0.73	0.53	0.52	0.55	0.99	1.19	1.38	0.89
1983	0.84	1.23	1.19	1.08	0.96	0.53	0.57	0.46	0.87	1.02	0.91	1.27	0.91
1984	1.53	1.19	1.17	0.90	1.05	0.72	0.63	0.55	1.04	1.43	1.63	1.39	1.10
1985	0.93	1.37	1.11	1.03	0.51	0.50	0.54	0.71	1.17	0.99	1.27	1.21	0.99
1986	1.15	0.91	1.50	0.81	1.08	0.61	0.50	0.78	0.87	1.00	1.18	1.28	0.97
1987	1.12	1.10	1.58	0.83	0.89	0.72	0.69	0.57	0.43	1.21	1.47	1.01	0.97
1988	1.42	1.11	1.13	0.87	0.90	0.86	0.63	0.58	1.02	0.94	0.97	0.98	0.95
1989	0.88	1.00	0.99	0.70	0.62	0.58	0.48	0.43	0.66	0.80	0.77	0.77	0.72
1990	0.97	1.38	1.34	1.07	0.97	0.78	0.67	0.39	0.72	0.95	1.23	1.21	0.97
1991	0.88	0.97	1.04	1.05	1.03	0.49	0.41	0.47	0.52	0.99	1.14	1.08	0.84
1992	0.98	0.98	0.94	1.05	0.83	0.70	0.81	0.72	0.69	0.97	1.36	1.02	0.92
1993	1.25	1.06	1.14	1.04	0.98	0.73	0.45	0.55	0.72	0.72	1.21	1.04	0.91
MEAN	1.12	1.16	1.17	1.00	0.87	0.66	0.57	0.61	0.75	1.00	1.24	1.19	

STATION: 6

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3910 2	42 8 7	35 8 7	38 8 8	33 812	14 518	11 510	19 6 8	7 4 8	33 8 4	38 9 1	40 8 2	42 8 7
1977	24 7 5	25 7 0	31 8 5	4710 8	34 8 7	11 514	12 510	26 7 8	24 713	30 7 0	45 9 1	34 8 3	4710 8
1978	27 8 0	36 8 3	31 8 0	34 812	22 717	31 7 7	23 7 9	22 7 7	21 712	34 9 4	5210 1	51 9 7	5210 1
1979	6111 1	29 8 8	40 9 7	421013	33 8 3	35 8 8	34 812	16 5 6	5710 2	27 7 8	41 8 4	40 8 6	6111 1
1980	24 7 0	6111 1	34 8 6	34 816	27 7 8	23 7 7	16 610	501014	16 6 8	17 6 6	30 8 5	32 8 3	6111 1
1981	41 9 0	52 9 4	31 812	38 8 5	20 614	21 610	20 613	521017	23 7 9	38 8 5	42 8 6	37 8 1	521017
1982	39 920	39 810	48 917	30 711	29 7 6	30 817	17 612	12 610	11 510	22 7 8	38 8 6	31 812	48 917
1983	23 7 7	38 8 8	50 921	30 736	26 7 9	12 512	19 7 9	17 9 2	29 8 6	43 8 7	34 8 5	5411 1	5411 1
1984	7213 1	37 8 6	34 823	21 610	28 8 5	17 6 9	19 612	25 713	47 9 7	30 8 5	5811 0	39 8 8	7213 1
1985	30 7 1	39 9 7	45 8 6	39 8 7	11 5 5	22 712	20 721	28 7 8	34 8 4	28 7 7	501015	31 8 8	501015
1986	44 8 7	33 8 1	4310 1	22 7 7	28 7 9	17 6 7	17 6 8	20 6 9	20 7 9	37 8 4	31 8 6	43 913	44 8 7
1987	45 9 2	28 814	49 9 8	26 7 0	44 914	27 814	21 710	17 6 8	8 4 8	47 919	38 8 9	37 8 9	49 9 8
1988	47 9 9	25 6 7	29 8 9	27 7 9	32 7 7	36 815	19 610	20 6 4	39 914	29 8 4	20 7 3	31 8 2	47 9 9
1989	29 7 9	31 7 7	38 8 0	17 610	18 613	12 514	11 510	17 6 8	16 635	25 7 0	22 7 5	18 534	38 8 0
1990	24 7 1	34 8 6	37 8 8	29 7 7	21 714	15 511	15 5 9	11 5 9	11 510	24 7 6	34 8 3	39 8 5	39 8 5
1991	27 710	21 636	36 919	30 8 5	42 811	13 5 8	12 511	11 5 8	13 6 6	30 8 5	27 7 7	45 8 7	45 8 7
1992	26 813	24 818	26 710	2511 3	16 6 8	12 517	16 610	6610 3	17 610	34 8 5	32 8 4	22 7 4	6610 3
1993	3213 2	25 7 4	51 921	25 710	22 7 9	22 7 8	12 512	16 610	22 7 3	27 819	25 7 5	36 8 5	51 921
MAX	7213 1	6111 1	51 921	4710 8	44 914	36 815	34 812	6610 3	5710 2	47 919	5811 0	5411 1	

MAX Hmo(m): 7.2 MAX Tp(sec): 13. MAX Dp(deg): 14. DATE(gmt): 84010112

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 225. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.50 N, LONG: 80.00 W, DEPTH: 366 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 7

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	316	283	447	616	873	1432	1930	1966	1160	753	245	332	10353
0.50 - 0.99	1924	1648	1723	1941	2134	2269	2169	1959	2247	1735	1605	1829	23183
1.00 - 1.49	1292	1167	1103	988	907	432	275	351	551	1035	1180	1104	10385
1.50 - 1.99	484	516	580	417	390	121	68	104	197	576	678	576	4707
2.00 - 2.49	230	244	326	194	109	42	15	39	79	222	334	329	2163
2.50 - 2.99	93	96	164	94	28	19	5	16	35	98	152	183	983
3.00 - 3.49	62	68	66	34	14	4	2	7	31	36	76	51	451
3.50 - 3.99	32	25	25	28	8	1	.	3	11	7	26	34	200
4.00 - 4.49	9	15	23	8	.	.	.	2	4	2	12	14	89
4.50 - 4.99	7	7	5	.	1	.	.	14	2	.	10	7	53
5.00 - 5.49	5	1	2	.	.	.	.	1	1	.	1	5	16
5.50 - 5.99	6	2	.	.	.	.	.	1	2	.	1	.	12
6.00 - 6.49	2	.	.	.	.	.	.	.	.	.	.	.	2
6.50 - 6.99	1	.	.	.	.	.	.	.	.	.	.	.	1
7.00 - 7.49	1	.	.	.	.	.	.	1	.	.	.	.	2
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 7

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	143	123	213	252	349	657	874	878	465	144	116	141	4355
4.0 - 4.9	670	562	613	598	802	810	1220	1051	600	474	448	590	8438
5.0 - 5.9	856	742	737	763	852	699	729	638	635	697	888	800	9036
6.0 - 6.9	835	754	815	758	929	864	620	589	537	819	935	878	9333
7.0 - 7.9	430	469	567	384	447	351	368	385	496	550	592	521	5560
8.0 - 8.9	294	303	363	287	258	301	252	304	354	423	312	422	3873
9.0 - 9.9	259	228	187	175	225	157	115	101	306	381	229	211	2574
10.0 - 10.9	144	201	167	136	89	127	112	106	198	199	193	144	1816
11.0 - 11.9	162	106	147	145	111	152	71	76	157	118	111	98	1454
12.0 - 12.9	155	72	119	211	184	81	56	113	147	135	126	112	1511
13.0 - 13.9	108	99	114	251	83	61	18	104	149	144	75	133	1339
14.0 - 14.9	85	79	162	173	62	34	17	52	125	152	112	151	1204
15.0 - 15.9	84	61	85	78	46	20	8	33	91	98	51	98	753
16.0 - 16.9	84	98	52	49	9	5	4	17	24	59	59	46	506
17.0 - 17.9	75	96	37	20	9	1	.	11	19	30	32	33	363
18.0 - 18.9	47	43	35	15	4	.	.	5	15	21	22	30	237
19.0 - 19.9	22	15	36	15	3	.	.	1	2	11	14	20	139
20.0 - LONGER	11	21	15	10	2	.	.	.	.	9	5	36	109
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 7

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	600	344	289	238	65	37	23	54	40	169	273	430	2562
11.25 - 33.74 (22.5)	964	881	544	488	344	341	153	343	800	1211	878	1042	7989
33.75 - 56.24 (45.0)	1013	840	1080	1244	962	729	424	711	1283	1652	1132	1108	12178
56.25 - 78.74 (67.5)	296	345	335	353	482	311	263	359	567	686	613	418	5028
78.75 - 101.24 (90.0)	418	423	544	631	962	733	1137	1214	787	444	711	541	8545
101.25 - 123.74 (112.5)	274	337	494	467	747	889	1179	802	355	120	317	318	6299
123.75 - 146.24 (135.0)	267	295	466	420	575	825	1094	753	297	63	203	244	5502
146.25 - 168.74 (157.5)	155	142	237	132	170	261	142	126	110	30	42	81	1628
168.75 - 191.24 (180.0)	96	95	125	46	59	119	29	46	57	30	38	53	793
191.25 - 213.74 (202.5)	49	23	32	9	9	15	10	22	11	19	28	30	257
213.75 - 236.24 (225.0)	14	11	34	18	9	12	2	16	4	2	2	11	135
236.25 - 258.74 (247.5)	14	20	19	21	10	29	2	.	1	1	8	8	133
258.75 - 281.24 (270.0)	24	23	32	43	26	15	4	2	.	2	7	16	194
281.25 - 303.74 (292.5)	53	48	70	44	22	1	.	4	.	4	12	20	278
303.75 - 326.24 (315.0)	83	117	77	80	11	1	.	4	2	8	16	52	451
326.25 - 348.74 (337.5)	144	128	86	86	11	2	2	8	6	23	40	92	628
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.50 N, LONG: 80.00 W, DEPTH: 366 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 7 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	900	1214	43	79	101	15	.	.	.	.	2352
1.00 - 1.99	148	1291	226	107	46	7	1	.	.	.	1826
2.00 - 2.99	.	84	324	8	4	1	2	.	.	.	423
3.00 - 3.99	.	.	57	48	2	2	.	.	.	.	109
4.00 - 4.99	.	.	4	34	2	.	.	.	.	.	40
5.00 - 5.99	.	.	.	3	9	1	.	.	.	.	12
6.00 - 6.99	.	.	.	.	2	1	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1048	2589	654	279	166	27	3	0	0	0	4766

STATION: 7 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1243	1728	2695	2457	2247	2022	984	415	136	13	13940
1.00 - 1.99	76	2126	761	797	398	413	235	166	87	10	5069
2.00 - 2.99	.	82	938	41	52	40	13	6	.	.	1172
3.00 - 3.99	.	.	102	157	2	4	.	.	.	.	265
4.00 - 4.99	.	.	2	38	7	.	.	.	.	.	47
5.00 - 5.99	.	.	.	5	4	.	.	.	.	.	9
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	1	.	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1319	3936	4498	3496	2710	2479	1232	587	223	23	20503

STATION: 7 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5683	1873	590	152	28	.	.	.	.	.	8326
1.00 - 1.99	89	4646	419	.	.	.	.	.	.	.	5154
2.00 - 2.99	.	105	993	1	.	.	.	.	.	.	1099
3.00 - 3.99	.	.	110	76	.	.	.	.	.	.	186
4.00 - 4.99	.	.	2	25	.	.	.	.	.	.	27
5.00 - 5.99	.	.	.	5	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5772	6624	2114	259	28	0	0	0	0	0	14797

STATION: 7 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2665	2603	1406	266	61	37	24	13	2	.	7077
1.00 - 1.99	46	1610	190	5	.	.	.	.	.	.	1851
2.00 - 2.99	.	30	267	4	.	.	.	.	.	.	301
3.00 - 3.99	.	.	31	21	.	.	.	.	.	.	52
4.00 - 4.99	.	.	.	18	.	.	.	.	.	.	18
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2711	4243	1894	314	61	37	24	13	2	0	9299

STATION: 7 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	571	298	35	.	.	.	.	.	.	.	904
1.00 - 1.99	30	457	90	3	.	.	.	.	.	.	580
2.00 - 2.99	.	11	113	10	.	.	.	.	.	.	134
3.00 - 3.99	.	.	19	20	.	.	.	.	.	.	39
4.00 - 4.99	.	.	3	7	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	601	766	260	42	0	0	0	0	0	0	1669

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.50 N, LONG: 80.00 W, DEPTH: 366 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 7 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	177	14	1	.	.	.	.	.	.	.	192
1.00 - 1.99	40	33	8	.	.	.	.	.	.	.	81
2.00 - 2.99	.	2	4	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	217	49	13	0	0	0	0	0	0	0	279

STATION: 7 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	309	2	.	.	.	.	.	.	.	.	311
1.00 - 1.99	80	16	.	.	.	.	.	.	.	.	96
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	389	19	0	0	0	0	0	0	0	0	408

STATION: 7 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	434	.	.	.	.	.	.	.	.	.	434
1.00 - 1.99	302	133	.	.	.	.	.	.	.	.	435
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	736	143	0	0	0	0	0	0	0	0	879

STATION: 7 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	11982	7732	4770	2954	2437	2074	1008	428	138	13	33536
1.00 - 1.99	811	10312	1694	912	444	420	236	166	87	10	15092
2.00 - 2.99	.	325	2639	64	56	41	15	6	.	.	3146
3.00 - 3.99	.	.	319	322	4	6	.	.	.	.	651
4.00 - 4.99	.	.	11	122	9	.	.	.	.	.	142
5.00 - 5.99	.	.	.	15	13	.	.	.	.	.	28
6.00 - 6.99	.	.	.	.	2	1	.	.	.	.	3
7.00 - 7.99	.	.	.	1	.	1	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	12793	18369	9433	4390	2965	2543	1259	600	225	23	52600

STATION: 7

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	250	308	305	467	620	874	948	987	866	737	234	294	6890
2.50 - 4.99	1669	1389	1575	1680	1943	2459	2632	2497	2267	1620	1442	1572	22745
5.00 - 7.49	1263	1110	1116	1078	1085	701	739	711	761	1054	1163	1150	11931
7.50 - 9.99	961	912	1029	879	741	253	133	211	328	863	1119	1048	8477
10.00 - 12.49	214	248	300	162	57	29	12	31	63	170	275	304	1865
12.50 - 14.99	88	93	121	54	18	4	.	17	30	16	78	88	607
15.00 - 17.49	13	10	14	.	.	.	.	7	2	1	7	6	60
17.50 - 19.99	5	2	4	.	.	.	.	1	3	2	2	2	21
20.00 - GREATER	1	.	.	.	.	.	.	2	.	1	.	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.50 N, LONG: 80.00 W, DEPTH: 366 M

STATION: 7

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	839	581	504	397	170	79	104	122	185	585	588	700	4854
22.50 - 67.49 (45.0)	954	747	719	660	593	430	223	353	826	1700	1360	1271	9836
67.50 - 112.49 (90.0)	1055	1041	1266	1433	1939	1743	2207	2347	2100	1327	1402	1282	19142
112.50 - 157.49 (135.0)	577	603	887	766	997	1096	1172	993	684	340	481	456	9052
157.50 - 202.49 (180.0)	263	290	388	269	327	544	362	259	276	137	145	208	3468
202.50 - 247.49 (225.0)	162	158	174	174	169	242	197	169	109	106	77	107	1844
247.50 - 292.49 (270.0)	174	189	207	260	152	119	119	112	65	77	63	122	1659
292.50 - 337.49 (315.0)	440	463	319	361	117	67	80	109	75	192	204	318	2745
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 7

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.07	1.01	0.92	0.86	0.66	0.46	0.62	0.35	1.25	1.30	1.50	0.94
1977	1.07	1.01	1.09	1.56	1.00	0.45	0.57	0.95	0.58	0.88	1.34	1.17	0.97
1978	1.20	1.13	1.03	0.92	0.67	0.65	0.62	0.56	0.69	1.28	1.22	1.33	0.94
1979	.65	1.2	1.33	1.34	0.92	0.78	0.67	0.50	1.36	0.87	1.59	1.34	1.13
1980	.99	1	1.12	0.87	0.73	0.54	0.43	0.79	0.59	0.72	1.26	1.34	0.90
1981	1.04		1.33	1.19	0.68	0.70	0.48	0.85	0.72	1.03	1.20	1.02	0.99
1982	1.01	0.7	1.06	0.77	0.90	0.72	0.51	0.52	0.57	1.00	1.16	1.34	0.87
1983	0.85	1.28	1.17	1.08	0.93	0.54	0.55	0.46	0.88	1.04	0.93	1.29	0.92
1984	1.54	1.19	1.15	0.90	1.04	0.72	0.61	0.54	1.08	1.44	1.65	1.36	1.10
1985	0.95	1.38	1.08	1.04	0.52	0.50	0.54	0.70	1.21	1.00	1.27	1.22	0.95
1986	1.17	0.93	1.49	0.82	1.07	0.60	0.48	0.76	0.86	1.01	1.16	1.28	0.97
1987	1.14	1.10	1.61	0.84	0.88	0.69	0.67	0.55	0.44	1.24	1.43	1.00	0.96
1988	1.39	1.28	1.08	0.86	0.87	0.81	0.62	0.57	1.00	0.95	0.95	0.93	0.92
1989	.88	0.9	1.00	0.70	0.62	0.57	0.47	0.43	0.68	0.83	0.75	0.79	0.72
1990	.93	1.5	1.29	1.04	0.93	0.73	0.64	0.39	0.67	0.95	1.18	1.15	0.93
1991	0.87	0.96	1.03	1.03	1.00	0.51	0.41	0.47	0.54	1.00	1.13	1.06	0.83
1992	0.97	0.95	0.90	1.03	0.80	0.66	0.75	0.70	0.69	0.97	1.34	1.02	0.90
1993	1.27	1.08	1.16	1.05	0.96	0.73	0.43	0.54	0.71	0.73	1.22	1.04	0.91
MEAN	1.12	1.15	1.16	1.00	0.86	0.64	0.55	0.61	0.76	1.01	1.23	1.18	

STATION: 7

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 9 3	40 9 7	35 8 5	35 9 9	33 812	13 611	10 511	18 6 8	7 4 8	32 9 3	36 9 1	39 8 2	40 9 7
1977	24 8 4	24 736	32 8 4	43 9 7	32 7 7	11 515	12 510	26 7 8	24 713	29 7 0	44 9 1	35 8 4	44 9 1
1978	29 817	37 8 3	31 8 0	32 813	22 717	30 7 7	21 7 9	19 6 7	20 712	34 9 5	4810 1	5410 8	5410 8
1979	6011 1	29 8 9	41 9 8	4210 13	35 8 3	35 9 9	31 812	15 5 7	5811 3	26 710	41 9 4	38 9 4	6011 1
1980	24 716	5710 1	33 9 6	32 817	26 7 8	21 6 6	15 610	4910 14	15 6 8	18 7 5	30 7 7	31 9 3	5710 1
1981	39 9 0	5510 4	30 812	39 8 4	20 614	19 6 5	18 613	5010 17	21 7 9	38 8 5	42 9 6	33 8 2	5510 4
1982	36 820	37 810	48 917	27 711	27 7 7	29 716	17 612	12 510	11 510	21 7 0	38 9 4	32 910	48 917
1983	23 7 6	41 9 8	48 917	30 736	25 810	12 511	19 7 9	19 8 1	29 8 6	44 9 5	34 9 4	5411 1	5411 1
1984	7013 1	36 9 5	33 819	20 610	28 8 5	17 6 9	17 612	24 713	49 9 8	30 9 4	5611 0	41 9 9	7013 1
1985	31 7 1	39 8 7	4310 5	39 9 9	11 8 2	21 712	26 718	27 8 8	34 9 4	25 7 8	5310 8	32 9 8	5310 8
1986	4610 4	32 8 1	4310 1	21 7 8	28 8 9	17 6 7	16 6 8	20 6 9	20 710	37 9 4	31 9 5	43 913	4610 4
1987	46 9 3	27 818	5410 7	24 7 1	46 914	27 814	19 6 9	16 6 8	8 4 6	40 817	40 9 9	37 8 9	5410 7
1988	39 8 9	25 7 7	27 7 9	25 710	31 7 7	32 713	17 611	20 6 4	38 914	28 8 5	20 7 4	27 8 2	39 8 9
1989	26 710	27 7 9	38 8 1	16 610	17 613	12 514	11 510	17 6 9	17 634	25 736	20 7 6	17 533	38 8 1
1990	24 7 1	34 9 5	32 7 8	28 7 7	20 714	14 5 6	15 5 9	11 5 9	11 510	23 7 6	35 8 3	38 9 4	38 9 4
1991	26 710	21 7 7	35 818	30 8 5	39 811	1310 3	11 511	10 5 9	14 6 6	29 8 5	24 7 8	4510 4	4510 4
1992	26 813	22 717	26 710	2511 3	16 6 8	12 517	15 510	7410 5	16 610	34 9 4	33 9 4	22 7 4	7410 5
1993	3313 2	25 8 3	50 918	25 710	21 7 9	21 7 8	11 512	16 611	21 7 3	28 818	25 8 3	35 9 5	50 918
MAX	7013 1	5710 1	5410 7	43 9 7	46 914	35 9 9	31 812	7410 5	5811 3	44 9 5	5611 0	5411 1	

MAX Hmo(m): 7.4 MAX Tp(sec): 10. MAX Dp(deg): 47. DATE(gmt): 92082409

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 135. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.75 N LONG: 80.00 W DEPTH: 366 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 8

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hs(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	310	295	437	637	951	1600	2166	2059	1151	712	293	335	10936
0.50 - 0.99	1925	1679	1781	1566	2160	2148	2020	1939	2286	1748	1631	1886	23169
1.00 - 1.49	1306	1127	1077	995	864	393	203	290	520	1040	1127	1097	10039
1.50 - 1.99	511	575	626	427	394	125	55	114	210	628	762	596	5023
2.00 - 2.49	214	224	305	188	57	38	14	28	65	201	279	289	1902
2.50 - 2.99	84	81	132	67	24	14	5	8	39	75	114	154	797
3.00 - 3.49	53	54	62	22	11	2	1	7	31	49	72	61	425
3.50 - 3.99	26	26	24	12	2	.	.	6	11	11	22	27	167
4.00 - 4.49	13	14	16	6	1	.	.	2	1	.	17	13	83
4.50 - 4.99	5	5	3	.	.	.	.	9	4	.	2	3	31
5.00 - 5.49	8	2	1	.	.	.	.	1	1	.	1	1	15
5.50 - 5.99	6	.	.	.	.	.	.	.	1	.	.	.	8
6.00 - 6.49	2	.	.	.	.	.	.	.	.	.	.	.	3
6.50 - 6.99	1	.	.	.	.	.	.	.	.	.	.	.	1
7.00 - 7.49	.	.	.	.	.	.	.	1	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 8

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	158	112	218	222	338	597	872	785	381	98	126	135	4042
4.0 - 4.9	650	583	601	620	840	796	1189	996	550	416	503	595	8339
5.0 - 5.9	885	822	818	997	1113	692	612	600	596	765	1070	854	9824
6.0 - 6.9	686	655	709	517	506	742	562	549	503	668	738	773	7608
7.0 - 7.9	361	409	466	300	392	418	421	407	506	574	490	496	5240
8.0 - 8.9	260	270	288	230	249	273	281	341	370	341	237	301	3441
9.0 - 9.9	295	222	193	173	256	162	143	134	348	415	222	224	2787
10.0 - 10.9	166	209	186	144	123	163	115	127	234	241	199	160	2067
11.0 - 11.9	169	106	170	174	163	206	109	116	182	172	146	120	1833
12.0 - 12.9	177	83	147	260	224	116	98	149	179	170	149	123	1875
13.0 - 13.9	140	109	161	284	105	71	30	114	167	178	98	155	1612
14.0 - 14.9	102	92	194	183	68	50	17	60	142	181	123	176	1388
15.0 - 15.9	106	72	107	86	55	23	8	38	101	100	54	133	883
16.0 - 16.9	123	120	66	65	14	8	5	22	28	65	78	69	663
17.0 - 17.9	88	103	44	19	9	3	2	19	18	35	37	52	429
18.0 - 18.9	60	52	40	15	5	.	.	5	12	23	22	32	266
19.0 - 19.9	25	22	38	20	2	.	.	2	3	10	18	22	162
20.0 - LONGER	13	31	18	11	2	.	.	.	.	12	10	44	141
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 8

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	541	339	263	201	66	42	16	53	44	143	259	407	2374
11.25 - 33.74 (22.5)	994	860	525	447	360	349	179	357	758	1115	880	1049	7873
33.75 - 56.24 (45.0)	1244	1000	1347	1505	1241	956	610	1002	1679	2002	1322	1346	15254
56.25 - 78.74 (67.5)	278	346	350	390	516	338	268	430	550	628	688	404	5186
78.75 - 101.24 (90.0)	285	308	398	450	679	588	865	886	561	296	489	384	6189
101.25 - 123.74 (112.5)	219	302	375	410	658	669	969	630	267	95	249	263	5106
123.75 - 146.24 (135.0)	243	281	435	406	561	807	1307	828	236	74	213	213	5604
146.25 - 168.74 (157.5)	178	172	280	159	223	349	189	165	135	28	65	103	2046
168.75 - 191.24 (180.0)	119	101	149	56	65	145	41	61	67	30	52	57	943
191.25 - 213.74 (202.5)	30	21	24	8	9	15	11	18	8	14	8	22	188
213.75 - 236.24 (225.0)	15	9	26	10	3	13	2	15	6	1	7	13	120
236.25 - 258.74 (247.5)	16	22	23	21	11	30	3	1	2	2	9	12	152
258.75 - 281.24 (270.0)	16	22	41	39	30	15	4	4	.	2	11	15	199
281.25 - 303.74 (292.5)	61	53	65	45	23	1	.	2	.	4	9	25	288
303.75 - 326.24 (315.0)	72	113	78	83	12	2	.	4	1	9	16	53	443
326.25 - 348.74 (337.5)	153	123	85	90	7	1	.	8	6	21	43	98	635
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.75 N, LONG: 80.00 W, DEPTH: 366 M
JOINT FREQUENCIES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 8 (337.50 - 22.49) 0.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
[illegible]	[illegible]	[illegible]	54	73	43	.	.	.	.	.	2134
[illegible]	[illegible]	[illegible]	154	64	18	.	.	.	.	.	1686
[illegible]	[illegible]	[illegible]	208	8	.	.	.	.	.	.	399
[illegible]	.	.	44	51	.	.	.	.	.	.	95
[illegible]	.	.	3	36	1	.	.	.	.	.	40
[illegible]	.	.	.	3	10	.	.	.	.	.	13
[illegible]	.	.	.	1	2	1	.	.	.	.	4
[illegible]	.	.	.	.	.	.	.	.	.	.	0
2.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	983	2086	573	236	74	1	0	0	0	0	4373

STATION: 8 (22.50 - 67.49) 45.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
[illegible]	1256	1226	3066	2872	2883	2360	1137	469	148	20	16147
[illegible]	62	2270	890	995	581	548	349	208	116	9	6028
[illegible]	.	110	931	81	74	47	37	8	9	.	1297
[illegible]	.	.	215	130	6	11	.	.	.	.	362
[illegible]	.	.	4	38	5	.	.	.	.	.	47
[illegible]	.	.	.	4	4	.	.	.	.	.	8
[illegible]	.	.	.	.	.	.	.	.	.	.	0
[illegible]	.	.	.	1	.	.	.	.	.	.	1
[illegible]	.	.	.	.	.	.	.	.	.	.	0
[illegible]	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1318	4306	5106	4121	3553	2966	1523	685	273	29	23890

STATION: 8 (67.50 - 112.49) 90.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
[illegible]	4859	1061	522	157	29	.	.	.	.	.	6628
[illegible]	100	4034	69	.	.	.	.	.	.	.	4203
[illegible]	.	330	184	7	.	.	.	.	.	.	521
[illegible]	.	3	14	28	.	.	.	.	.	.	45
[illegible]	.	.	.	.	.	.	.	.	.	.	0
[illegible]	.	.	.	1	.	.	.	.	.	.	1
[illegible]	.	.	.	.	.	.	.	.	.	.	0
[illegible]	.	.	.	.	.	.	.	.	.	.	0
[illegible]	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4959	5428	789	193	29	0	0	0	0	0	11398

STATION: 8 (112.50 - 157.49) 135.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2989	2405	1432	214	50	33	23	10	1	.	7157
1.00 - 1.99	36	1640	183	4	.	.	.	.	.	.	1863
2.00 - 2.99	.	70	262	4	2	.	.	.	.	.	338
3.00 - 3.99	.	.	33	18	.	.	.	.	.	.	51
4.00 - 4.99	.	.	1	16	.	.	.	.	.	.	17
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3025	4115	1911	256	52	33	23	10	1	0	9426

STATION: 8 (157.50 - 202.49) 180.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	661	382	51	.	.	.	.	.	.	.	1094
1.00 - 1.99	34	498	123	7	.	.	.	.	.	.	662
2.00 - 2.99	.	15	105	12	.	.	.	.	.	.	132
3.00 - 3.99	.	.	18	21	.	.	.	.	.	.	39
4.00 - 4.99	.	.	3	7	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	695	895	300	48	0	0	0	0	0	0	1938

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.75 N, LONG: 80.00 W, DEPTH: 366 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 8 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	181	3	.	.	.	.	.	.	.	.	184
1.00 - 1.99	54	29	2	.	.	.	.	.	.	.	85
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	235	33	2	0	0	0	0	0	0	0	270

STATION: 8 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	312	.	.	.	.	.	.	.	.	.	312
1.00 - 1.99	91	11	.	.	.	.	.	.	.	.	102
2.00 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	403	11	0	0	0	0	0	0	0	0	414

STATION: 8 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	447	.	.	.	.	.	.	.	.	.	447
1.00 - 1.99	306	127	.	.	.	.	.	.	.	.	433
2.00 - 2.99	.	11	.	.	.	.	.	.	.	.	11
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	753	138	0	0	0	0	0	0	0	0	891

STATION: 8 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	11544	6914	5125	3316	3005	2393	1160	479	149	20	34105
1.00 - 1.99	837	9885	1441	1070	599	548	349	208	116	9	15062
2.00 - 2.99	.	630	1780	112	76	47	37	8	9	.	2699
3.00 - 3.99	.	3	324	248	6	11	.	.	.	.	592
4.00 - 4.99	.	.	11	97	6	.	.	.	.	.	114
5.00 - 5.99	.	.	.	9	14	.	.	.	.	.	23
6.00 - 6.99	.	.	.	1	2	1	.	.	.	.	4
7.00 - 7.99	.	.	.	1	.	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	12381	17432	8681	4854	3708	3000	1546	695	274	29	52600

STATION: 8

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	229	301	283	443	597	883	910	1002	839	720	220	278	6705
2.50 - 4.99	1715	1428	1633	1735	2033	2502	2761	2538	2308	1656	1512	1659	23480
5.00 - 7.49	1261	1088	1130	1090	1080	662	660	680	739	1033	1129	1125	11677
7.50 - 9.99	954	912	1003	850	689	243	120	190	334	873	1137	1022	8327
10.00 - 12.49	199	248	291	155	54	27	13	29	69	162	247	296	1790
12.50 - 14.99	90	88	108	47	11	3	.	18	25	17	67	78	552
15.00 - 17.49	12	6	13	.	.	.	.	3	2	1	5	4	46
17.50 - 19.99	3	1	3	.	.	.	.	2	4	1	3	2	19
20.00 - GREATER	1	.	.	.	.	.	.	2	.	1	.	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 25.75 N, LONG: 80.00 W, DEPTH: 366 M

STATION: 8

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	821	564	491	387	175	87	96	131	175	595	597	717	4836
22.50 - 67.49 (45.0)	928	742	715	642	602	435	223	356	850	1680	1322	1231	9726
67.50 - 112.49 (90.0)	1017	989	1198	1404	1856	1608	2027	2234	2045	1307	1380	1239	18304
112.50 - 157.49 (135.0)	585	619	908	764	1018	1127	1261	1032	689	351	486	465	9305
157.50 - 202.49 (180.0)	280	304	398	284	356	598	412	306	295	137	164	223	3757
202.50 - 247.49 (225.0)	172	175	190	200	182	278	229	187	115	117	79	119	2043
247.50 - 292.49 (270.0)	186	203	220	268	167	119	142	110	77	82	76	128	1778
292.50 - 337.49 (315.0)	475	476	344	371	108	68	74	108	74	195	216	342	2851
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 8

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.26	1.04	0.97	0.90	0.84	0.65	0.43	0.61	0.37	1.29	1.28	1.49	0.93
1977	1.09	0.99	1.06	1.46	0.92	0.42	0.53	0.88	0.57	0.88	1.31	1.16	0.94
1978	1.19	1.17	1.01	0.87	0.66	0.62	0.58	0.53	0.71	1.34	1.22	1.32	0.93
1979	1.66	1.22	1.26	1.27	0.91	0.75	0.62	0.47	1.32	0.85	1.53	1.32	1.10
1980	1.01	1.41	1.11	0.87	0.71	0.52	0.40	0.74	0.57	0.74	1.26	1.31	0.89
1981	1.02	1.67	1.35	1.07	0.67	0.66	0.45	0.80	0.73	1.01	1.14	0.99	0.96
1982	0.95	0.85	1.03	0.74	0.85	0.72	0.45	0.50	0.58	1.02	1.14	1.24	0.84
1983	0.86	1.30	1.15	1.07	0.85	0.54	0.51	0.44	0.90	1.06	0.94	1.31	0.91
1984	1.55	1.14	1.13	0.89	1.02	0.69	0.57	0.50	1.09	1.42	1.65	1.24	1.08
1985	0.96	1.33	1.06	0.98	0.52	0.49	0.51	0.66	1.25	0.97	1.24	1.20	0.93
1986	1.17	0.93	1.47	0.83	1.02	0.57	0.44	0.73	0.83	1.01	1.10	1.27	0.95
1987	1.16	1.07	1.58	0.85	0.84	0.65	0.62	0.53	0.44	1.25	1.32	0.94	0.94
1988	1.34	1.04	1.02	0.86	0.82	0.76	0.56	0.52	0.93	0.94	0.91	0.88	0.88
1989	0.86	0.95	1.00	0.71	0.60	0.54	0.44	0.42	0.70	0.87	0.72	0.81	0.72
1990	0.88	1.32	1.23	0.99	0.88	0.67	0.60	0.38	0.63	0.92	1.12	1.10	0.89
1991	0.86	0.95	1.01	0.98	0.94	0.52	0.40	0.46	0.56	1.00	1.11	1.02	0.82
1992	0.96	0.93	0.86	1.00	0.79	0.62	0.66	0.65	0.66	0.98	1.32	1.01	0.87
1993	1.25	1.10	1.16	1.05	0.93	0.70	0.40	0.52	0.68	0.74	1.20	1.05	0.90
MEAN	1.11	1.14	1.14	0.97	0.82	0.62	0.51	0.58	0.75	1.02	1.20	1.15	

STATION: 8

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 9 3	37 9 7	36 8 5	28 736	32 813	12 511	9 512	1811 3	8 4 8	35 9 3	35 9 2	39 9 1	39 9 1
1977	23 7 1	24 736	33 7 6	42 9 7	30 7 6	11 515	11 511	22 7 7	22 613	28 7 0	44 9 1	32 7 5	44 9 1
1978	30 817	36 8 3	31 8 0	27 714	23 717	30 7 7	18 5 9	17 6 7	18 510	3810 4	43 9 2	4310 6	4310 6
1979	5811 1	27 736	34 9 7	431014	27 7 4	27 7 6	28 813	14 5 7	641036	23 7 4	40 9 4	38 9 4	641036
1980	25 716	5310 1	32 7 6	31 817	20 7 7	20 6 6	14 510	48 913	14 5 8	19 6 5	32 7 6	31 7 4	5310 1
1981	37 9 1	51 9 4	29 813	35 7 6	19 614	18 6 5	16 613	471017	17 5 8	34 8 5	36 8 5	31 7 1	51 9 4
1982	34 819	29 812	47 917	22 611	23 7 6	28 716	17 612	11 513	10 510	2216 4	36 9 5	28 813	47 917
1983	25 7 5	39 913	48 917	31 8 0	20 811	12 511	17 5 9	21 9 2	31 7 5	39 9 5	34 7 4	5311 1	5311 1
1984	6913 2	35 9 4	35 819	20 615	30 7 5	17 6 3	15 613	23 713	47 9 2	31 7 5	5411 1	32 8 1	6913 2
1985	31 7 0	37 8 7	4210 5	35 9 5	11 8 3	20 712	30 717	21 6 8	36 9 4	24 7 5	47 914	33 9 2	47 914
1986	4610 4	33 9 0	4210 1	1915 4	2214 4	16 5 7	15 510	18 5 9	17 5 8	37 9 4	31 7 6	41 914	4610 4
1987	45 9 3	28 818	4210 5	23 7 1	41 915	27 915	16 511	15 5 9	816 4	38 918	33 8 4	31 7 3	45 9 3
1988	35 9 8	25 7 7	22 6 9	21 710	28 7 7	30 714	15 510	19 6 4	37 914	27 7 5	19 6 4	24 7 2	37 914
1989	2011 3	22 6 6	37 8 1	14 511	16 613	11 515	10 511	16 5 9	19 736	25 736	18 6 5	18 533	37 8 1
1990	23 7 1	33 7 7	33 8 6	24 6 7	19 715	13 5 6	15 5 9	10 4 9	11 510	23 6 6	33 8 3	36 9 4	36 9 4
1991	23 712	18 5 7	34 818	29 7 5	33 813	15 9 3	11 410	1112 3	15 6 7	29 7 6	22 7 7	4210 4	4210 4
1992	25 714	21 717	22 610	2611 3	15 5 8	12 517	14 511	7610 6	15 510	33 7 4	31 7 5	21 7 4	7610 6
1993	3413 3	25 7 5	50 918	25 814	18 5 9	18 5 8	11 512	15 511	21 7 3	28 819	24 7 4	36 9 5	50 918
MAX	6913 2	5310 1	50 918	431014	41 915	30 714	30 717	7610 6	641036	39 9 5	5411 1	5311 1	

MAX Hmo(m): 7.6 MAX Tp(sec): 10. MAX Dp(deg): 61. DATE(gmt): 92082409

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 90. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.00 N, LONG: 80.00 W, DEPTH: 220 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 9

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	265	258	388	552	853	1557	2085	1946	941	561	223	287	9916
0.50 - 0.99	1829	1610	1750	1934	2166	2141	2062	1989	2374	1709	1549	1815	22928
1.00 - 1.49	1358	1168	1112	1114	971	434	247	349	619	1140	1220	1182	10914
1.50 - 1.99	554	588	593	380	356	136	48	101	214	647	741	584	4942
2.00 - 2.49	252	240	339	197	82	31	14	40	74	265	341	308	2183
2.50 - 2.99	83	97	161	83	23	17	7	12	50	90	134	172	929
3.00 - 3.49	58	64	73	30	10	4	.	4	30	41	71	60	445
3.50 - 3.99	24	29	27	24	3	.	1	5	8	11	19	29	180
4.00 - 4.49	17	13	14	6	.	.	.	8	3	.	15	16	92
4.50 - 4.99	9	4	4	.	.	.	.	7	1	.	3	8	36
5.00 - 5.49	8	1	2	.	.	.	.	1	3	.	1	3	19
5.50 - 5.99	4	.	1	.	.	.	.	.	2	.	1	.	8
6.00 - 6.49	2	.	.	.	.	.	.	2	1	.	2	.	2
6.50 - 6.99	1	.	.	.	.	.	.	.	.	.	.	.	6
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 9

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	138	117	176	190	326	598	887	840	336	81	107	111	3907
4.0 - 4.9	603	491	525	529	735	767	1222	953	492	318	394	527	7556
5.0 - 5.9	736	708	672	756	844	596	590	566	554	590	765	685	8062
6.0 - 6.9	710	673	678	623	710	731	483	470	530	740	880	778	8006
7.0 - 7.9	419	459	505	349	402	405	369	388	469	590	591	487	5433
8.0 - 8.9	283	291	361	278	265	294	284	349	386	415	331	377	3914
9.0 - 9.9	275	246	216	185	275	197	163	176	406	412	235	258	3044
10.0 - 10.9	181	208	208	157	156	193	130	137	252	269	211	185	2287
11.0 - 11.9	174	109	197	210	190	218	130	138	192	200	159	131	2048
12.0 - 12.9	208	89	181	310	265	135	123	172	201	204	169	150	2207
13.0 - 13.9	145	126	189	314	136	88	49	127	188	199	108	187	1856
14.0 - 14.9	135	102	221	190	70	55	17	61	137	186	145	185	1504
15.0 - 15.9	114	85	119	89	56	28	9	37	113	112	52	160	974
16.0 - 16.9	142	140	67	66	13	10	6	21	34	66	80	79	724
17.0 - 17.9	95	117	49	20	12	5	2	20	16	39	38	55	468
18.0 - 18.9	65	56	45	16	4	.	.	8	11	21	22	40	288
19.0 - 19.9	27	22	36	27	3	.	.	1	3	11	20	25	175
20.0 - LONGER	14	33	19	11	2	.	.	.	.	11	13	44	147
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 9

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	479	309	227	187	68	29	11	44	34	103	244	366	2101
11.25 - 33.74 (22.5)	902	777	444	396	334	336	175	311	629	919	817	974	7014
33.75 - 56.24 (45.0)	1431	1169	1569	1662	1400	1125	746	1162	1895	2244	1453	1519	17375
56.25 - 78.74 (67.5)	274	298	345	359	477	370	237	371	545	625	601	379	4881
78.75 - 101.24 (90.0)	351	413	460	596	838	660	1058	1062	592	330	635	437	7432
101.25 - 123.74 (112.5)	203	275	339	319	548	657	981	601	249	93	228	248	4741
123.75 - 146.24 (135.0)	174	205	342	316	435	542	930	582	185	51	145	144	4051
146.25 - 168.74 (157.5)	178	170	263	155	198	353	245	203	95	20	54	105	2039
168.75 - 191.24 (180.0)	112	111	152	55	75	162	54	76	74	31	42	59	1003
191.25 - 213.74 (202.5)	28	28	18	12	5	27	16	19	7	8	9	24	201
213.75 - 236.24 (225.0)	15	10	29	9	2	12	3	17	5	2	8	16	128
236.25 - 258.74 (247.5)	13	17	17	20	9	31	5	1	2	1	5	9	130
258.75 - 281.24 (270.0)	14	23	42	25	33	14	2	4	.	3	9	15	184
281.25 - 303.74 (292.5)	68	51	63	51	21	.	1	2	.	4	7	20	288
303.75 - 326.24 (315.0)	78	100	74	81	12	.	.	4	.	10	16	58	433
326.25 - 348.74 (337.5)	144	116	80	77	9	2	.	5	8	20	47	91	599
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.00 N, LONG: 80.00 W, DEPTH: 220 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 9 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	687	887	40	37	.	.	.	.	.	.	1651
1.00 - 1.99	146	1238	136	36	.	.	.	.	.	.	1556
2.00 - 2.99	.	87	262	1	.	.	.	.	.	.	350
3.00 - 3.99	.	.	47	38	.	.	.	.	.	.	85
4.00 - 4.99	.	.	3	36	2	.	.	.	.	.	41
5.00 - 5.99	.	.	.	3	7	.	.	.	.	.	10
6.00 - 6.99	.	.	.	1	2	1	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	833	2212	488	152	11	1	0	0	0	0	3697

STATION: 9 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1071	1953	2989	3136	3216	2490	1201	481	138	17	16692
1.00 - 1.99	51	2084	1182	1176	840	758	422	243	127	14	6902
2.00 - 2.99	.	54	883	153	99	68	54	28	24	.	1355
3.00 - 3.99	.	.	106	175	16	11	.	1	.	.	309
4.00 - 4.99	.	.	.	31	3	.	.	.	.	.	34
5.00 - 5.99	.	.	.	5	5	.	.	.	.	.	10
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1122	4091	5160	4677	4179	3327	1677	750	289	31	25303

STATION: 9 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4790	1646	525	160	16	.	.	.	.	.	7137
1.00 - 1.99	69	3992	429	1	.	.	.	.	.	.	4490
2.00 - 2.99	.	45	913	1	.	.	.	.	.	.	959
3.00 - 3.99	.	.	78	76	.	.	.	.	.	.	154
4.00 - 4.99	.	.	3	26	.	.	.	.	.	.	29
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	1	2	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4859	5683	1948	268	18	0	0	0	0	0	12776

STATION: 9 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2520	1536	1022	145	46	32	21	6	2	.	5330
1.00 - 1.99	29	1420	163	3	1	.	.	.	.	.	1612
2.00 - 2.99	.	49	240	3	.	.	.	.	.	.	293
3.00 - 3.99	.	.	21	20	.	.	.	.	.	.	41
4.00 - 4.99	.	.	2	11	.	.	.	.	.	.	13
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2549	3005	1448	180	47	32	21	6	2	0	7290

STATION: 9 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	715	377	51	.	.	.	.	.	.	.	1143
1.00 - 1.99	32	498	125	7	.	.	.	.	.	.	662
2.00 - 2.99	.	17	108	17	.	.	.	.	.	.	142
3.00 - 3.99	.	.	16	20	.	.	.	.	.	.	36
4.00 - 4.99	.	.	3	8	.	.	.	.	.	.	11
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	747	892	303	54	0	0	0	0	0	0	1996

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.00 N, LONG: 80.00 W, DEPTH: 220 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 9 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	184	2	.	.	.	.	.	.	.	.	186
1.00 - 1.99	55	30	.	.	.	.	.	.	.	.	85
2.00 - 2.99	.	3	.	.	.	.	.	.	.	.	3
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	239	35	0	0	0	0	0	0	0	0	274

STATION: 9 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	285		.	.	.	.	.	.	.	.	285
1.00 - 1.99	83	17	.	.	.	.	.	.	.	.	100
2.00 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	368	17	0	0	0	0	0	0	0	0	385

STATION: 9 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	420		.	.	.	.	.	.	.	.	420
1.00 - 1.99	326	123	.	.	.	.	.	.	.	.	449
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	746	133	0	0	0	0	0	0	0	0	879

STATION: 9 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	10672	6401	4627	3478	3278	2522	1222	487	140	17	32844
1.00 - 1.99	791	9402	2035	1219	840	758	422	248	127	14	15856
2.00 - 2.99	.	265	2406	175	100	68	54	20	24	.	3112
3.00 - 3.99	.	.	268	329	16	11	.	1	.	.	625
4.00 - 4.99	.	.	11	112	5	.	.	.	.	.	128
5.00 - 5.99	.	.	.	15	12	.	.	.	.	.	27
6.00 - 6.99	.	.	.	3	4	1	.	.	.	.	8
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11463	16068	9347	5331	4255	3360	1698	756	291	31	52600

STATION: 9

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	224	299	276	434	590	874	899	1009	826	700	219	270	6620
2.50 - 4.99	1760	1444	1685	1750	2114	2562	2869	2598	2336	1676	1545	1713	24052
5.00 - 7.49	1231	1075	1119	1133	1056	620	578	617	709	1035	1119	1125	11417
7.50 - 9.99	952	920	981	817	643	238	106	189	340	882	1140	999	8207
10.00 - 12.49	191	243	285	144	56	24	11	25	75	150	229	277	1710
12.50 - 14.99	91	85	104	42	5	2	1	20	26	18	60	76	530
15.00 - 17.49	12	5	11	.	.	.	.	2	3	1	4	3	41
17.50 - 19.99	3	1	3	.	.	.	.	2	4	1	3	1	18
20.00 - GREATER								2	1	1	1		5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.00 N, LONG: 80.00 W, DEPTH: 220 M

STATION: 9

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	804	567	499	386	176	93	91	133	170	598	612	725	4854
22.50 - 67.49 (45.0)	926	726	692	628	612	429	211	353	866	1668	1304	1194	9609
67.50 - 112.49 (90.0)	968	946	1129	1342	1788	1511	1870	2126	1983	1296	1349	1202	17510
112.50 - 157.49 (135.0)	582	625	924	789	1022	1145	1348	1085	714	343	495	479	9551
157.50 - 202.49 (180.0)	290	319	427	293	386	630	466	337	309	150	174	232	4013
202.50 - 247.49 (225.0)	194	193	210	216	200	324	247	206	118	118	84	134	2244
247.50 - 292.49 (270.0)	185	218	231	284	171	126	158	106	81	88	87	131	1866
292.50 - 337.49 (315.0)	515	478	352	382	109	62	73	118	79	203	215	367	2953
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 9

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.30	1.08	1.01	0.95	0.85	0.67	0.42	0.66	0.42	1.35	1.30	1.53	0.96
1977	1.15	1.02	1.10	1.50	0.95	0.42	0.53	0.94	0.61	0.92	1.38	1.21	0.98
1978	1.22	1.25	1.04	0.90	0.68	0.64	0.58	0.55	0.77	1.42	1.25	1.41	0.98
1979	1.70	1.28	1.34	1.35	0.94	0.78	0.64	0.48	1.34	0.90	1.59	1.34	1.14
1980	1.05	1.44	1.16	0.91	0.74	0.54	0.42	0.79	0.60	0.80	1.33	1.33	0.93
1981	1.03	1.70	1.43	1.09	0.69	0.66	0.47	0.81	0.79	1.06	1.16	0.99	0.98
1982	0.96	0.88	1.04	0.78	0.86	0.72	0.46	0.52	0.62	1.08	1.18	1.27	0.86
1983	0.91	1.41	1.17	1.11	0.89	0.57	0.53	0.47	0.93	1.12	0.98	1.37	0.95
1984	1.61	1.19	1.17	0.93	1.06	0.70	0.60	0.51	1.17	1.48	1.72	1.30	1.12
1985	0.98	1.40	1.07	1.06	0.55	0.52	0.53	0.69	1.33	1.03	1.33	1.25	0.97
1986	1.22	0.97	1.50	0.86	1.08	0.57	0.44	0.75	0.89	1.05	1.16	1.32	0.99
1987	1.21	1.10	1.67	0.88	0.87	0.65	0.63	0.55	0.47	1.31	1.37	0.98	0.97
1988	1.42	1.06	1.04	0.89	0.83	0.77	0.58	0.54	0.96	0.99	0.93	0.90	0.91
1989	0.90	0.97	1.04	0.74	0.63	0.55	0.45	0.44	0.75	0.93	0.74	0.85	0.75
1990	0.89	1.32	1.25	1.04	0.86	0.64	0.60	0.40	0.67	0.96	1.15	1.12	0.90
1991	0.88	0.98	1.02	1.00	0.94	0.55	0.40	0.48	0.60	1.07	1.14	1.03	0.84
1992	0.97	0.93	0.87	1.02	0.81	0.61	0.65	0.65	0.71	1.02	1.36	1.07	0.89
1993	1.31	1.14	1.23	1.09	0.96	0.73	0.41	0.55	0.72	0.78	1.25	1.08	0.94
MEAN	1.15	1.17	1.18	1.01	0.84	0.63	0.52	0.60	0.80	1.07	1.24	1.19	

STATION: 9

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 9 3	37 9 7	38 8 4	29 8 8	32 813	12 510	8 511	1911 3	8 4 8	35 9 3	33 8 1	40 9 2	40 9 2
1977	24 7 1	24 736	33 9 4	41 9 7	30 8 6	12 516	11 510	25 7 8	21 613	27 7 0	43 9 1	31 8 4	43 9 1
1978	31 817	37 8 3	31 717	27 712	24 817	32 8 7	19 7 9	14 6 8	17 610	39 9 5	40 9 2	5210 7	5210 7
1979	5710 1	28 8 9	43 9 8	421014	27 7 4	29 8 8	29 711	14 5 7	6610 2	27 8 9	4110 4	3810 4	6610 2
1980	26 717	4910 1	30 8 6	30 817	23 7 8	19 7 7	14 610	48 9 9	14 6 8	20 7 5	33 8 5	30 8 3	4910 1
1981	36 9 0	5110 5	29 812	35 9 5	18 614	17 6 5	15 613	441017	17 6 7	32 8 5	34 8 5	29 7 1	5110 5
1982	32 819	30 811	44 917	22 711	21 7 7	28 715	17 612	11 514	11 5 9	2416 4	34 9 5	31 810	44 917
1983	24 7 7	42 914	50 919	32 8 0	22 7 9	12 511	19 7 9	24 735	29 8 5	39 9 6	34 9 4	5211 1	5211 1
1984	6713 2	35 9 4	38 819	20 615	28 8 5	18 6 9	14 612	23 713	5110 5	30 9 4	5211 1	37 9 8	6713 2
1985	30 7 0	39 8 7	4110 5	40 9 8	12 8 3	20 712	36 817	23 7 8	36 9 4	24 7 6	6611 8	35 9 2	6611 8
1986	4710 5	32 9 0	4110 1	2015 4	25 7 8	16 6 8	14 510	20 6 9	19 7 7	36 9 4	30 8 6	41 913	4710 5
1987	4510 3	28 818	5610 8	23 7 0	37 915	27 916	16 5 8	15 5 9	815 4	37 918	37 9 9	34 8 9	5610 8
1988	43 9 9	27 7 7	24 8 9	25 710	24 7 7	29 8 5	14 510	20 6 5	35 914	25 8 5	21 618	21 6 8	43 9 9
1989	2111 3	22 7 8	37 8 1	14 8 3	17 611	11 514	10 510	18 6 9	21 736	23 635	16 6 9	1915 4	37 8 1
1990	23 7 1	32 8 6	35 9 7	27 8 8	19 714	13 511	15 5 9	9 4 9	11 510	23 717	35 8 3	36 9 4	36 9 4
1991	28 7 9	20 7 7	34 818	27 8 5	36 811	16 9 3	10 511	1211 3	16 6 7	28 8 5	22 7 8	4110 4	4110 4
1992	25 714	20 717	26 8 9	2710 3	16 6 8	12 517	12 511	6910 5	14 610	32 8 4	30 8 5	21 7 4	6910 5
1993	35 936	25 7 5	50 918	25 814	20 6 9	19 7 8	10 512	14 611	21 7 3	28 819	23 7 4	35 9 5	50 918
MAX	6713 2	5110 5	5610 8	421014	37 915	32 8 7	36 817	6910 5	6610 2	39 9 6	6611 8	5211 1	

MAX Hmo(m): 6.9 MAX Tp(sec): 10. MAX Dp(deg): 54. DATE(gmt): 92082409

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 65. DATE(gmt): 92082409

MEAN Hmo(m): 0.9 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.25 N, LONG: 80.00 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 10

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	253	236	350	456	792	1539	2137	1910	808	438	177	268	9364
0.50 - 0.99	1740	1537	1741	1932	2197	2149	2027	2015	2398	1700	1499	1755	22690
1.00 - 1.49	1410	1223	1127	1212	1019	443	237	360	690	1185	1273	1240	11419
1.50 - 1.99	590	594	625	387	336	141	42	97	236	695	778	601	5122
2.00 - 2.49	268	272	328	195	87	29	13	43	73	295	351	319	2273
2.50 - 2.99	78	103	173	83	23	16	5	13	68	95	138	166	961
3.00 - 3.49	57	65	74	25	9	3	2	5	27	40	66	58	431
3.50 - 3.99	26	26	27	25	1	.	.	5	10	15	18	28	181
4.00 - 4.49	17	15	12	5	.	.	1	9	3	1	14	19	96
4.50 - 4.99	10	1	4	.	.	.	.	4	2	.	2	8	31
5.00 - 5.49	10	.	3	.	.	.	.	1	2	.	2	2	20
5.50 - 5.99	3	.	.	.	.	.	.	.	1	.	.	.	4
6.00 - 6.49	2	.	.	.	.	.	.	2	.	.	2	.	6
6.50 - 6.99	.	.	.	.	.	.	.	.	1	.	.	.	1
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	.	1
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 10

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	134	114	143	159	310	502	856	760	284	54	67	90	3473
4.0 - 4.9	536	472	476	478	675	724	1170	889	407	240	355	479	6901
5.0 - 5.9	669	621	604	709	801	576	510	544	537	508	724	620	7423
6.0 - 6.9	660	643	622	581	642	656	414	468	524	689	800	733	7432
7.0 - 7.9	434	447	498	337	373	395	361	396	475	612	584	483	5395
8.0 - 8.9	282	304	375	305	275	325	306	375	436	456	338	367	4144
9.0 - 9.9	285	262	216	188	299	267	228	207	425	449	267	294	3387
10.0 - 10.9	196	212	232	169	207	241	162	178	283	295	255	195	2625
11.0 - 11.9	184	117	238	257	243	248	175	174	210	239	179	156	2420
12.0 - 12.9	246	107	217	359	306	177	178	189	215	235	199	176	2604
13.0 - 13.9	168	136	225	337	153	98	68	127	197	222	131	208	2070
14.0 - 14.9	153	123	248	203	78	63	19	70	151	198	162	207	1675
15.0 - 15.9	132	97	137	95	67	32	10	34	112	116	65	179	1076
16.0 - 16.9	162	159	73	63	14	10	3	23	36	68	87	95	793
17.0 - 17.9	103	120	53	24	11	6	3	21	13	38	41	60	493
18.0 - 18.9	71	71	45	17	5	.	1	7	10	21	27	47	322
19.0 - 19.9	31	27	35	25	2	.	.	2	5	11	22	23	183
20.0 - LONGER	18	40	27	14	3	.	.	.	.	13	17	52	184
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 10

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	427	295	197	175	62	28	5	42	29	87	225	318	1890
11.25 - 33.74 (22.5)	803	655	375	348	292	310	157	293	565	723	733	876	6130
33.75 - 56.24 (45.0)	1659	1419	1779	1850	1599	1345	944	1272	1989	2461	1622	1747	19686
56.25 - 78.74 (67.5)	286	304	393	356	491	484	346	455	633	697	629	364	5438
78.75 - 101.24 (90.0)	282	345	376	492	682	537	823	885	510	280	591	410	6213
101.25 - 123.74 (112.5)	208	254	319	358	573	552	1000	606	257	77	202	221	4627
123.75 - 146.24 (135.0)	139	175	317	277	376	465	773	537	155	49	138	124	3525
146.25 - 168.74 (157.5)	176	163	250	156	206	340	287	241	87	17	58	106	2087
168.75 - 191.24 (180.0)	128	135	153	65	89	165	61	82	71	26	35	66	1076
191.25 - 213.74 (202.5)	21	21	14	11	8	33	30	16	12	8	11	23	208
213.75 - 236.24 (225.0)	18	12	31	11	3	14	13	16	4	3	4	20	149
236.25 - 258.74 (247.5)	14	12	16	20	11	29	16	2	2	.	2	9	133
258.75 - 281.24 (270.0)	18	23	37	14	38	16	8	6	.	3	9	17	189
281.25 - 303.74 (292.5)	73	53	67	48	17	.	1	3	.	3	8	21	294
303.75 - 326.24 (315.0)	70	98	61	73	9	.	.	3	.	12	13	50	389
326.25 - 348.74 (337.5)	142	108	79	66	8	2	.	5	6	18	40	92	566
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.25 N, LONG: 80.00 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 10 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	567	758	26	15	.	.	.	.	.	.	1366
1.00 - 1.99	137	1214	102	7	.	.	.	.	.	.	1460
2.00 - 2.99	.	79	251	3	.	.	.	.	.	.	333
3.00 - 3.99	.	.	38	42	.	.	.	.	.	.	80
4.00 - 4.99	.	.	4	30	3	.	.	.	.	.	37
5.00 - 5.99	.	.	.	2	7	.	.	.	.	.	9
6.00 - 6.99	.	.	.	1	2	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	704	2051	421	100	12	0	0	0	0	0	3288

STATION: 10 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	923	2071	3165	3479	3664	2605	1223	496	135	24	17785
1.00 - 1.99	58	1939	1529	1469	1122	988	551	272	144	20	8092
2.00 - 2.99	.	65	841	247	134	110	77	44	33	1	1552
3.00 - 3.99	.	.	99	182	25	11	.	2	6	.	325
4.00 - 4.99	.	.	.	38	3	.	.	.	.	.	41
5.00 - 5.99	.	.	.	2	6	.	.	.	.	.	8
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	981	4075	5634	5418	4955	3714	1851	814	318	45	27805

STATION: 10 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3933	1294	614	204	19	.	.	.	.	.	6064
1.00 - 1.99	51	3613	373	.	.	.	.	.	.	.	4037
2.00 - 2.99	.	40	837	.	.	.	.	.	.	.	877
3.00 - 3.99	.	.	77	50	.	.	.	.	.	.	127
4.00 - 4.99	.	.	1	22	.	.	.	.	.	.	23
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	3	.	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3984	4947	1902	283	19	0	0	0	0	0	11135

STATION: 10 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2566	1242	820	125	37	31	18	1	4	.	4844
1.00 - 1.99	28	1404	169	.	.	.	.	.	.	.	1601
2.00 - 2.99	.	38	240	1	.	.	.	.	.	.	279
3.00 - 3.99	.	.	26	16	.	.	.	.	.	.	42
4.00 - 4.99	.	.	3	13	.	.	.	.	.	.	16
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2594	2684	1258	156	37	31	18	1	4	0	6783

STATION: 10 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	726	366	38	.	.	.	.	.	.	.	1130
1.00 - 1.99	37	530	131	8	1	.	.	.	.	.	707
2.00 - 2.99	.	23	132	20	.	.	.	.	.	.	175
3.00 - 3.99	.	.	19	19	.	.	.	.	.	.	38
4.00 - 4.99	.	.	4	6	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	763	919	324	55	1	0	0	0	0	0	2062

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.25 N, LONG: 80.00 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 10 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	192	2	.	.	.	.	.	.	.	.	194
1.00 - 1.99	54	28	.	.	.	.	.	.	.	.	82
2.00 - 2.99	.	6	.	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	246	36	0	0	0	0	0	0	0	0	282

STATION: 10 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	290	.	.	.	.	.	.	.	.	.	290
1.00 - 1.99	91	12	.	.	.	.	.	.	.	.	103
2.00 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	381	12	0	0	0	0	0	0	0	0	393

STATION: 10 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	381	.	.	.	.	.	.	.	.	.	381
1.00 - 1.99	340	119	.	.	.	.	.	.	.	.	459
2.00 - 2.99	.	12	.	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	721	131	0	0	0	0	0	0	0	0	852

STATION: 10 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	9578	5733	4663	3823	3720	2636	1241	497	139	24	32054
1.00 - 1.99	796	8859	2304	1484	1123	988	551	272	144	20	16541
2.00 - 2.99	.	263	2301	271	134	110	77	44	33	1	3234
3.00 - 3.99	.	.	259	309	25	11	.	2	6	.	612
4.00 - 4.99	.	.	12	109	6	.	.	.	.	.	127
5.00 - 5.99	.	.	.	11	13	.	.	.	.	.	24
6.00 - 6.99	.	.	.	5	2	.	.	.	.	.	7
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10374	14855	9539	6012	5024	3745	1869	815	322	45	52600

STATION: 10

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	233	316	291	444	609	881	932	1054	819	711	225	282	6797
2.50 - 4.99	1773	1435	1683	1772	2151	2605	2920	2607	2383	1679	1589	1747	24344
5.00 - 7.49	1195	1081	1141	1126	1039	576	508	573	668	1021	1108	1116	11152
7.50 - 9.99	962	912	954	801	614	231	93	181	328	889	1117	971	8053
10.00 - 12.49	194	242	280	137	47	27	8	22	91	136	219	267	1670
12.50 - 14.99	90	81	101	40	4	.	3	22	21	26	55	77	520
15.00 - 17.49	15	5	11	.	.	.	.	2	5	1	3	3	45
17.50 - 19.99	2	.	3	.	.	.	.	1	3	1	4	1	15
20.00 - GREATER	.	.	.	.	.	.	.	.	2	.	.	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.25 N, LONG: 80.00 W, DEPTH: 183 M

STATION: 10

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	798	552	492	383	169	91	90	140	168	590	616	710	4799
22.50 - 67.49 (45.0)	903	706	682	623	625	432	211	347	874	1639	1283	1179	9504
67.50 - 112.49 (90.0)	907	925	1061	1281	1687	1391	1688	1998	1953	1284	1292	1119	16586
112.50 - 157.49 (135.0)	600	593	920	797	1054	1175	1422	1145	713	357	521	523	9820
157.50 - 202.49 (180.0)	307	360	464	313	405	673	530	392	314	161	183	241	4343
202.50 - 247.49 (225.0)	202	196	225	239	224	364	280	218	130	116	94	150	2438
247.50 - 292.49 (270.0)	214	239	245	293	182	129	172	106	88	96	96	153	2013
292.50 - 337.49 (315.0)	533	501	375	391	118	65	71	118	80	221	235	389	3097
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 10

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.31	1.09	1.02	0.98	0.86	0.67	0.42	0.69	0.46	1.41	1.30	1.55	0.98
1977	1.18	1.02	1.11	1.48	0.93	0.41	0.51	0.93	0.64	0.95	1.41	1.23	0.99
1978	1.23	1.32	1.06	0.90	0.69	0.64	0.57	0.55	0.82	1.50	1.28	1.45	1.00
1979	1.74	1.32	1.36	1.36	0.96	0.80	0.62	0.48	1.35	0.94	1.60	1.35	1.15
1980	1.09	1.48	1.18	0.94	0.75	0.55	0.42	0.79	0.61	0.86	1.39	1.34	0.95
1981	1.02	1.69	1.54	1.04	0.71	0.66	0.47	0.80	0.85	1.08	1.16	0.99	0.99
1982	0.95	0.88	1.05	0.80	0.85	0.73	0.44	0.52	0.65	1.14	1.21	1.25	0.87
1983	0.94	1.49	1.18	1.13	0.87	0.60	0.52	0.47	0.97	1.17	1.03	1.40	0.98
1984	1.66	1.19	1.18	0.96	1.07	0.70	0.60	0.49	1.23	1.50	1.76	1.27	1.13
1985	1.00	1.41	1.08	1.08	0.57	0.53	0.53	0.69	1.40	1.05	1.36	1.28	0.99
1986	1.25	1.01	1.51	0.89	1.11	0.57	0.44	0.76	0.92	1.09	1.17	1.35	1.01
1987	1.26	1.11	1.71	0.91	0.88	0.64	0.62	0.56	0.49	1.34	1.34	0.97	0.99
1988	1.43	1.05	1.03	0.92	0.84	0.77	0.58	0.53	0.94	1.02	0.94	0.90	0.91
1989	0.91	0.96	1.06	0.77	0.64	0.56	0.44	0.47	0.81	0.99	0.75	0.87	0.77
1990	0.88	1.31	1.24	1.06	0.85	0.63	0.59	0.41	0.70	0.99	1.14	1.14	0.91
1991	0.89	1.00	1.02	1.00	0.93	0.58	0.41	0.49	0.65	1.12	1.15	1.02	0.85
1992	0.98	0.94	0.86	1.03	0.83	0.60	0.61	0.63	0.72	1.05	1.38	1.11	0.89
1993	1.34	1.18	1.27	1.12	0.96	0.73	0.40	0.56	0.73	0.82	1.27	1.11	0.96
MEAN	1.17	1.19	1.19	1.02	0.85	0.63	0.51	0.60	0.83	1.11	1.26	1.20	

STATION: 10

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 9 3	36 9 7	37 8 5	27 736	31 813	12 512	8 511	2111 3	9 7 3	37 9 4	32 8 1	39 9 2	39 9 2
1977	25 7 1	23 736	34 9 5	41 9 7	29 8 6	12 516	11 511	25 7 8	21 7 8	25 7 0	42 9 1	32 9 4	42 9 1
1978	32 817	37 8 3	32 815	26 712	25 817	32 7 7	19 7 9	13 5 7	1711 4	4210 4	35 9 2	50 9 8	50 9 8
1979	5610 1	28 8 9	44 9 8	42 913	25 8 4	28 7 7	26 713	12 5 8	7311 5	28 7 9	4110 4	37 9 4	7311 5
1980	27 718	44 9 1	29 8 6	28 817	22 7 8	18 6 7	14 6 8	46 9 9	14 6 8	21 7 5	34 8 5	30 8 4	46 9 9
1981	34 9 1	48 9 4	3220 5	34 9 5	18 615	17 6 5	14 613	411017	16 6 7	30 8 5	32 8 5	26 7 3	48 9 4
1982	30 819	27 710	41 817	25 718	18 6 5	27 715	17 612	12 514	12 5 9	2716 5	32 9 5	31 811	41 817
1983	27 7 7	43 914	521018	32 836	21 710	12 511	19 710	27 8 1	29 8 5	36 9 6	33 9 5	5111 1	521018
1984	6412 2	34 9 5	40 819	21 713	29 8 4	18 6 9	13 612	23 713	5110 5	30 9 5	5111 1	34 9 9	6412 2
1985	30 8 1	4110 6	41 9 6	39 9 9	13 8 3	19 713	40 816	22 7 8	36 9 4	24 7 6	6210 9	38 9 2	6210 9
1986	4710 5	33 9 0	4010 1	2115 5	2514 5	15 6 6	13 510	21 6 9	19 7 7	36 9 4	31 9 5	41 912	4710 5
1987	47 9 1	28 818	5210 8	22 7 0	34 814	26 916	16 513	14 5 9	915 5	33 918	34 8 9	33 8 9	5210 8
1988	40 9 9	26 8 6	23 7 9	25 710	21 7 7	29 8 5	14 6 7	20 7 8	34 813	24 8 5	25 620	2116 5	40 9 9
1989	2311 3	20 6 6	37 8 1	14 8 3	18 612	11 514	9 511	18 6 9	22 736	24 9 3	16 6 9	2015 5	37 8 1
1990	22 7 1	31 9 6	34 8 8	26 8 8	19 714	12 5 6	14 5 9	9 410	11 510	24 817	34 8 4	35 9 4	35 9 4
1991	26 7 9	21 6 7	33 818	25 8 9	35 912	17 9 3	10 411	1310 3	17 6 7	28 8 6	22 7 8	4010 5	4010 5
1992	25 714	18 717	27 8 9	2711 3	16 6 8	13 516	11 512	6110 9	13 610	30 8 4	31 7 7	21 7 4	6110 9
1993	39 9 0	25 7 5	51 918	25 814	20 6 9	18 7 9	9 513	1613 5	21 7 2	28 819	23 7 4	35 9 5	51 918
MAX	6412 2	48 9 4	5210 8	42 913	35 912	32 7 7	40 816	6110 9	7311 5	4210 4	6210 9	5111 1	

MAX Hmo(m): 7.3 MAX Tp(sec): 11. MAX Dp(deg): 50. DATE(gmt): 79090312

MAX WIND SPEED(m/sec): 25. MAX WIND DIRECTION(deg): 55. DATE(gmt): 92082409

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.50 N, LONG: 80.00 W, DEPTH: 90 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 11

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	221	220	327	393	735	1474	2214	1866	671	327	170	250	8868
0.50 - 0.99	1674	1463	1683	1869	2218	2206	1959	2052	2412	1647	1365	1655	22203
1.00 - 1.49	1436	1286	1154	1333	1089	459	231	374	777	1267	1375	1349	12130
1.50 - 1.99	625	585	610	398	289	136	36	89	253	705	828	575	5129
2.00 - 2.49	278	288	380	198	104	27	17	43	91	342	325	351	2444
2.50 - 2.99	104	130	175	83	23	15	3	11	67	115	153	159	1038
3.00 - 3.49	58	54	78	31	6	3	2	10	31	42	65	72	452
3.50 - 3.99	23	31	44	11	.	.	1	8	8	17	18	28	189
4.00 - 4.49	17	14	9	4	.	.	1	7	3	1	16	13	85
4.50 - 4.99	14	1	2	.	.	.	.	2	3	1	5	11	39
5.00 - 5.49	9	.	1	.	.	.	.	.	2	.	.	1	13
5.50 - 5.99	4	.	1	.	.	.	.	2	.	.	.	.	7
6.00 - 6.49	1	.	.	.	.	.	.	.	.	.	.	.	1
6.50 - 6.99	.	.	.	.	.	.	.	.	2	.	.	.	2
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 11

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	128	84	117	135	268	412	792	646	203	25	37	81	2928
4.0 - 4.9	461	429	419	416	593	632	1072	816	328	173	316	383	6038
5.0 - 5.9	592	540	527	650	740	564	441	459	469	428	622	569	6601
6.0 - 6.9	611	666	658	578	624	581	400	482	526	642	804	736	7308
7.0 - 7.9	399	391	474	297	333	403	386	404	523	590	438	430	5068
8.0 - 8.9	295	288	310	279	305	371	323	444	444	503	357	349	4268
9.0 - 9.9	286	269	226	182	344	317	299	256	459	501	334	301	3774
10.0 - 10.9	196	212	243	204	256	307	196	229	305	347	294	231	3020
11.0 - 11.9	215	122	251	303	279	288	216	233	243	263	218	171	2802
12.0 - 12.9	266	140	265	399	327	196	205	200	232	256	222	189	2897
13.0 - 13.9	194	157	245	369	176	116	84	127	209	240	161	218	2296
14.0 - 14.9	179	143	290	222	90	72	29	70	171	196	183	261	1906
15.0 - 15.9	154	117	162	123	80	38	9	37	117	123	80	215	1255
16.0 - 16.9	184	169	84	68	25	17	6	23	45	80	92	110	903
17.0 - 17.9	126	149	52	32	10	5	3	18	25	47	74	70	611
18.0 - 18.9	90	92	55	17	8	1	3	12	14	22	36	57	407
19.0 - 19.9	53	48	42	23	2	.	.	3	7	11	32	32	253
20.0 - LONGER	35	56	44	23	4	.	.	5	.	17	20	61	265
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 11

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	348	282	166	148	52	25	3	40	17	74	203	283	1641
11.25 - 33.74 (22.5)	628	510	321	278	232	265	143	264	446	501	579	696	4863
33.75 - 56.24 (45.0)	1510	1303	1635	1708	1648	1441	1104	1318	1944	2383	1515	1709	19218
56.25 - 78.74 (67.5)	827	757	829	814	785	745	498	719	1042	1134	1118	795	10063
78.75 - 101.24 (90.0)	204	249	277	357	488	378	559	670	336	194	399	269	4380
101.25 - 123.74 (112.5)	189	201	267	333	524	453	931	529	215	53	174	206	4075
123.75 - 146.24 (135.0)	120	174	285	251	352	417	771	516	147	47	156	89	3325
146.25 - 168.74 (157.5)	171	160	260	155	194	316	280	260	83	14	60	121	2074
168.75 - 191.24 (180.0)	135	147	156	68	99	178	66	87	68	25	33	66	1128
191.25 - 213.74 (202.5)	14	19	9	11	5	41	39	22	13	6	10	19	208
213.75 - 236.24 (225.0)	19	10	27	12	7	21	28	15	4	2	4	23	172
236.25 - 258.74 (247.5)	13	11	19	14	10	24	25	4	2	.	2	7	131
258.75 - 281.24 (270.0)	17	21	31	17	37	14	15	6	.	3	6	15	182
281.25 - 303.74 (292.5)	69	58	57	37	17	.	1	4	.	4	5	20	272
303.75 - 326.24 (315.0)	71	80	56	60	9	.	1	3	.	9	16	54	359
326.25 - 348.74 (337.5)	129	90	69	57	5	2	.	7	3	15	40	92	509
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.50 N, LONG: 80.00 W, DEPTH: 90 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 11 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	444	608	14	4	.	.	.	.	.	.	1070
1.00 - 1.99	124	1147	85	5	.	.	.	.	.	.	1361
2.00 - 2.99	.	79	216	2	.	.	.	.	.	.	297
3.00 - 3.99	.	.	49	37	.	.	.	.	.	.	86
4.00 - 4.99	.	.	3	29	1	.	.	.	.	.	33
5.00 - 5.99	.	.	.	2	6	.	.	.	.	.	8
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	568	1834	367	79	7	0	0	0	0	0	2855

STATION: 11 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	795	2224	3368	3766	3956	2698	1260	563	167	39	18836
1.00 - 1.99	56	1776	2055	1841	1455	1283	748	353	197	24	9788
2.00 - 2.99	.	69	830	373	174	181	125	91	52	13	1908
3.00 - 3.99	.	.	94	204	32	19	8	4	17	.	378
4.00 - 4.99	.	.	1	39	7	7	.	.	4	.	58
5.00 - 5.99	.	.	.	3	6	.	.	.	.	.	9
6.00 - 6.99	.	.	.	1	1	1	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	851	4069	6348	6227	5631	4189	2141	1011	437	76	30980

STATION: 11 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2798	782	737	246	27	2	.	3	.	.	4595
1.00 - 1.99	51	3009	65	.	.	.	3	4	.	.	3132
2.00 - 2.99	.	361	351	.	.	.	.	.	.	.	712
3.00 - 3.99	.	.	72	16	.	.	.	.	.	.	88
4.00 - 4.99	.	.	6	2	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2849	4152	1231	265	27	2	3	7	0	0	8536

STATION: 11 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2629	1071	724	136	33	11	14	.	5	.	4623
1.00 - 1.99	32	1483	103	3	.	.	.	.	.	.	1621
2.00 - 2.99	.	166	168	1	.	.	.	.	.	.	335
3.00 - 3.99	.	.	31	15	.	.	.	.	.	.	46
4.00 - 4.99	.	.	6	11	.	.	.	.	.	.	17
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2661	2720	1032	166	33	11	14	0	5	0	6642

STATION: 11 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	702	371	33	.	.	.	.	.	.	.	1106
1.00 - 1.99	28	555	143	8	1	.	.	.	.	.	735
2.00 - 2.99	.	32	156	21	.	.	.	.	.	.	209
3.00 - 3.99	.	.	24	19	.	.	.	.	.	.	43
4.00 - 4.99	.	.	1	7	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	730	958	357	57	1	0	0	0	0	0	2103

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.50 N, LONG: 80.00 W, DEPTH: 90 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 11 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	229	3	.	.	.	.	.	.	.	.	232
1.00 - 1.99	55	26	.	.	.	.	.	.	.	.	81
2.00 - 2.99	.	9	1	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	284	38	1	0	0	0	0	0	0	0	323

STATION: 11 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	270	.	.	.	.	.	.	.	.	.	270
1.00 - 1.99	92	15	.	.	.	.	.	.	.	.	107
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	362	16	0	0	0	0	0	0	0	0	378

STATION: 11 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	339	.	.	.	.	.	.	.	.	.	339
1.00 - 1.99	322	112	.	.	.	.	.	.	.	.	434
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	661	122	0	0	0	0	0	0	0	0	783

STATION: 11 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	8206	5059	4876	4152	4016	2711	1274	566	172	39	31071
1.00 - 1.99	760	8123	2451	1857	1456	1283	751	357	197	24	17259
2.00 - 2.99	.	727	1722	397	174	181	125	91	52	13	3482
3.00 - 3.99	.	.	270	291	32	19	8	4	17	.	641
4.00 - 4.99	.	.	17	88	8	7	.	.	4	.	124
5.00 - 5.99	.	.	.	8	12	.	.	.	.	.	20
6.00 - 6.99	.	.	.	1	1	1	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8966	13909	9336	6794	5699	4202	2158	1018	442	76	52600

STATION: 11

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	255	324	317	468	629	912	987	1111	848	705	253	312	7121
2.50 - 4.99	1786	1424	1681	1772	2181	2600	2912	2595	2361	1703	1619	1777	24411
5.00 - 7.49	1136	1071	1131	1116	1048	555	465	533	662	999	1095	1101	10912
7.50 - 9.99	992	930	948	794	559	228	90	174	313	893	1091	934	7946
10.00 - 12.49	188	250	270	130	45	25	6	23	105	128	203	246	1619
12.50 - 14.99	86	68	103	40	2	.	3	23	20	34	52	88	519
15.00 - 17.49	19	5	11	.	.	.	1	2	7	1	4	5	55
17.50 - 19.99	2	.	3	.	.	.	.	1	1	1	3	1	12
20.00 - GREATER								2	3				5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.50 N, LONG: 80.00 W, DEPTH: 90 M

STATION: 11

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	801	553	488	396	168	114	92	147	168	590	617	696	4830
22.50 - 67.49 (45.0)	858	687	675	582	637	419	210	321	896	1610	1258	1153	9306
67.50 - 112.49 (90.0)	853	866	987	1202	1586	1252	1473	1872	1901	1269	1250	1068	15579
112.50 - 157.49 (135.0)	604	591	898	832	1064	1202	1478	1168	674	353	536	521	9921
157.50 - 202.49 (180.0)	342	400	519	342	434	708	615	471	356	167	197	280	4831
202.50 - 247.49 (225.0)	207	209	236	258	257	426	343	247	145	129	104	160	2721
247.50 - 292.49 (270.0)	237	255	261	307	195	141	183	106	100	102	112	165	2164
292.50 - 337.49 (315.0)	562	511	400	401	123	58	70	132	80	244	246	421	3248
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 11

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.34	1.10	1.03	1.02	0.86	0.67	0.41	0.72	0.53	1.48	1.30	1.57	1.00
1977	1.24	1.03	1.14	1.45	0.90	0.41	0.50	0.91	0.67	0.99	1.45	1.27	1.00
1978	1.24	1.43	1.09	0.89	0.70	0.65	0.56	0.54	0.87	1.59	1.31	1.49	1.03
1979	1.79	1.37	1.37	1.38	0.99	0.80	0.61	0.48	1.35	0.98	1.59	1.38	1.17
1980	1.15	1.54	1.23	0.98	0.77	0.56	0.42	0.78	0.64	0.93	1.49	1.37	0.99
1981	1.02	1.70	1.65	1.00	0.74	0.66	0.47	0.78	0.92	1.11	1.16	1.00	1.01
1982	0.96	0.87	1.06	0.81	0.84	0.76	0.41	0.53	0.69	1.23	1.24	1.22	0.88
1983	0.97	1.57	1.20	1.17	0.85	0.63	0.51	0.48	1.01	1.24	1.08	1.45	1.01
1984	1.72	1.18	1.22	1.00	1.06	0.69	0.59	0.48	1.27	1.52	1.80	1.26	1.15
1985	1.02	1.43	1.09	1.09	0.59	0.54	0.53	0.69	1.48	1.06	1.39	1.31	1.01
1986	1.28	1.04	1.52	0.93	1.13	0.56	0.42	0.77	0.96	1.13	1.18	1.39	1.03
1987	1.34	1.11	1.76	0.96	0.89	0.62	0.61	0.57	0.54	1.39	1.31	0.96	1.01
1988	1.42	1.05	1.01	0.97	0.85	0.77	0.57	0.53	0.94	1.07	0.95	0.90	0.92
1989	0.92	0.95	1.09	0.79	0.66	0.57	0.44	0.49	0.88	1.08	0.76	0.91	0.79
1990	0.87	1.32	1.23	1.09	0.84	0.62	0.59	0.44	0.74	1.01	1.13	1.16	0.92
1991	0.90	1.01	1.03	0.99	0.91	0.62	0.41	0.49	0.70	1.18	1.15	1.03	0.87
1992	0.98	0.96	0.86	1.03	0.85	0.60	0.58	0.62	0.72	1.10	1.39	1.16	0.90
1993	1.37	1.21	1.32	1.15	0.96	0.73	0.40	0.57	0.72	0.86	1.29	1.15	0.98
MEAN	1.20	1.22	1.22	1.04	0.86	0.64	0.50	0.60	0.87	1.16	1.28	1.22	

STATION: 11

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 9 3	36 9 7	36 9 4	28 8 1	31 813	12 512	8 512	2211 4	1013 6	39 9 4	32 7 2	39 9 2	39 9 2
1977	25 7 1	24 8 4	35 9 5	3910 5	29 8 5	13 516	11 511	23 7 8	20 6 8	24 7 0	41 9 1	34 9 4	41 9 1
1978	32 817	37 8 3	33 815	25 713	26 817	32 9 7	18 6 9	12 5 8	1811 4	4510 4	31 8 2	4610 7	4610 7
1979	5510 1	29 7 4	36 7 8	44 913	25 8 4	28 7 4	26 713	11 5 8	6810 4	27 7 9	4110 4	37 9 4	6810 4
1980	28 718	41 9 1	27 8 7	27 817	20 6 7	17 6 6	15 6 8	43 813	14 5 8	21 7 4	36 8 5	3011 4	43 813
1981	34 9 1	47 9 5	4120 6	33 9 6	18 615	17 6 5	13 613	401017	15 5 6	29 8 5	31 7 5	24 7 4	47 9 5
1982	29 819	24 611	38 817	27 719	18 5 6	27 716	17 612	12 514	12 5 9	3116 5	30 8 5	30 712	38 817
1983	30 8 5	43 914	551018	32 836	20 610	13 517	18 610	30 8 0	30 8 5	34 9 6	33 9 5	5011 2	551018
1984	6213 3	33 9 5	41 918	22 616	29 8 4	19 610	13 514	24 713	5110 6	30 9 5	4910 1	30 8 1	6213 3
1985	30 8 1	4010 7	4110 6	33 7 8	15 8 3	19 613	43 917	22 619	3810 4	24 7 6	49 8 9	40 9 3	49 8 9
1986	4710 5	33 9 0	3910 1	2215 5	2514 5	16 6 6	12 511	21 6 9	21 6 8	3810 5	32 9 5	42 913	4710 5
1987	49 9 1	28 818	41 8 9	22 7 0	31 916	26 916	16 513	14 5 9	1016 5	29 818	31 8 4	30 7 3	49 9 1
1988	33 7 9	27 8 7	21 610	23 711	21 6 5	29 8 5	16 5 7	21 6 6	32 813	23 7 5	30 718	2216 5	33 7 9
1989	2511 4	2010 3	38 8 1	15 8 3	19 612	12 516	9 510	18 6 9	24 735	26 9 3	16 6 7	2115 5	38 8 1
1990	23 6 0	30 8 7	30 7 8	24 7 7	19 613	13 5 5	13 5 9	9 410	11 510	25 716	34 8 4	35 8 5	35 8 5
1991	25 7 9	21 7 7	32 818	24 7 9	34 912	18 9 3	10 517	1410 4	18 7 6	30 7 1	20 6 8	39 9 5	39 9 5
1992	25 714	1810 4	25 7 9	2811 4	15 9 4	13 517	11 513	5910 8	12 9 4	29 8 5	28 8 4	21 7 4	5910 8
1993	45 936	26 9 4	50 917	26 614	19 6 9	18 6 8	8 513	1813 5	21 7 2	29 819	2310 3	35 9 5	50 917
MAX	6213 3	47 9 5	551018	44 913	34 912	32 9 7	43 917	5910 8	6810 4	4510 4	49 8 9	5011 2	

MAX Hmo(m): 6.8 MAX Tp(sec): 10. MAX Dp(deg): 40. DATE(gmt): 79090312

MAX WIND SPEED(m/sec): 23. MAX WIND DIRECTION(deg): 15. DATE(gmt): 92082406

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.75 N, LONG: 80.00 W, DEPTH: 45 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 12

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	196	186	268	331	638	1400	2247	1815	544	229	150	215	8219
0.50 - 0.99	1541	1367	1566	1689	2198	2233	1925	2066	2278	1464	1211	1506	21044
1.00 - 1.49	1456	1329	1227	1466	1177	488	230	379	961	1374	1430	1424	12941
1.50 - 1.99	709	606	649	498	311	155	40	122	297	799	857	646	5689
2.00 - 2.49	292	322	436	210	104	27	14	45	114	379	393	352	2688
2.50 - 2.99	142	129	171	86	34	15	4	12	73	140	176	180	1162
3.00 - 3.49	52	83	83	25	2	2	.	13	31	53	48	85	477
3.50 - 3.99	29	31	41	10	.	.	3	6	11	22	33	29	215
4.00 - 4.49	17	18	11	5	.	.	1	3	5	3	20	12	95
4.50 - 4.99	16	1	4	.	.	.	.	1	1	1	2	12	38
5.00 - 5.49	12	.	8	.	.	.	.	.	3	.	.	3	26
5.50 - 5.99	2	.	.	.	.	.	.	2	.	.	.	.	4
6.00 - 6.49	.	.	.	.	.	.	.	.	2	.	.	.	2
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 12

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	123	57	93	93	228	365	765	540	136	18	18	72	2508
4.0 - 4.9	397	357	339	327	460	525	967	717	262	121	224	290	4986
5.0 - 5.9	518	480	485	575	721	553	412	456	446	370	525	527	6068
6.0 - 6.9	543	584	568	464	448	530	356	434	487	547	640	658	6259
7.0 - 7.9	380	356	481	260	360	407	413	447	503	543	429	386	4965
8.0 - 8.9	286	283	293	320	336	382	321	491	462	540	427	367	4508
9.0 - 9.9	273	273	229	193	409	335	341	299	500	520	376	306	4054
10.0 - 10.9	211	239	224	232	290	338	231	250	318	395	337	235	3300
11.0 - 11.9	207	129	270	362	329	341	251	258	275	299	246	180	3147
12.0 - 12.9	322	158	301	437	359	241	220	231	237	303	233	226	3268
13.0 - 13.9	232	189	297	438	212	132	123	140	243	255	200	251	2712
14.0 - 14.9	220	172	320	262	128	86	40	96	192	207	220	309	2252
15.0 - 15.9	181	144	210	165	108	53	11	36	128	146	114	269	1565
16.0 - 16.9	208	202	115	86	41	22	6	24	64	87	125	125	1105
17.0 - 17.9	154	181	70	38	16	8	3	20	35	53	92	94	764
18.0 - 18.9	107	121	68	18	10	2	3	14	22	29	58	62	514
19.0 - 19.9	57	71	53	25	5	.	1	5	10	13	35	45	320
20.0 - LONGER	45	76	48	25	4	.	.	6	.	18	21	62	305
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 12

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	291	245	146	123	44	23	2	34	12	61	167	239	1387
11.25 - 33.74 (22.5)	457	375	243	197	176	199	114	230	320	309	432	567	3619
33.75 - 56.24 (45.0)	1441	1173	1553	1557	1670	1596	1206	1405	1914	2307	1462	1622	18906
56.25 - 78.74 (67.5)	1283	1275	1216	1341	1141	984	713	954	1375	1508	1606	1218	14614
78.75 - 101.24 (90.0)	159	180	242	241	386	336	517	576	260	141	254	205	3497
101.25 - 123.74 (112.5)	149	126	187	264	389	302	723	447	144	36	121	148	3036
123.75 - 146.24 (135.0)	100	145	261	194	297	351	693	399	129	29	126	84	2808
146.25 - 168.74 (157.5)	136	150	246	161	172	229	270	270	77	13	47	105	1876
168.75 - 191.24 (180.0)	135	140	120	68	102	188	90	81	69	23	32	78	1126
191.25 - 213.74 (202.5)	12	17	16	14	7	50	39	22	14	4	8	14	217
213.75 - 236.24 (225.0)	19	14	24	11	5	26	40	19	3	1	5	22	189
236.25 - 258.74 (247.5)	16	11	22	11	10	22	34	5	2	1	4	6	144
258.75 - 281.24 (270.0)	22	22	30	11	36	12	21	7	.	3	1	11	176
281.25 - 303.74 (292.5)	61	54	52	33	16	.	1	3	.	4	4	25	253
303.75 - 326.24 (315.0)	79	72	46	55	6	1	1	7	1	10	12	48	336
326.25 - 348.74 (337.5)	104	73	60	39	7	2	.	5	1	14	39	72	416
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.75 N, LONG: 80.00 W, DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 12 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	358	464	6	3	.	.	.	.	.	.	831
1.00 - 1.99	122	1023	64	4	.	.	.	.	.	.	1213
2.00 - 2.99	.	80	193	3	.	.	.	.	.	.	276
3.00 - 3.99	.	.	48	29	.	.	.	.	.	.	77
4.00 - 4.99	.	.	4	17	2	.	.	.	.	.	23
5.00 - 5.99	.	.	.	3	2	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	480	1567	315	59	4	0	0	0	0	0	2425

STATION: 12 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	664	2179	3240	3711	4047	2589	1259	586	181	34	18490
1.00 - 1.99	57	1680	2518	2337	1860	1565	967	470	214	26	11694
2.00 - 2.99	.	73	864	519	250	272	204	136	79	22	2419
3.00 - 3.99	.	.	92	221	50	22	32	24	31	1	473
4.00 - 4.99	.	.	2	35	12	22	.	3	11	.	85
5.00 - 5.99	.	.	.	4	9	3	.	.	5	.	21
6.00 - 6.99	.	.	.	1	1	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	721	3932	6716	6828	6229	4473	2462	1219	521	83	33184

STATION: 12 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2031	729	941	315	134	266	64	20	10	6	4516
1.00 - 1.99	48	2344	90	5	43	204	124	39	5	.	2902
2.00 - 2.99	.	472	125	.	1	19	11	.	.	.	628
3.00 - 3.99	.	.	31	24	.	.	.	.	.	.	55
4.00 - 4.99	.	.	1	6	1	.	.	.	.	.	8
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2079	3545	1188	351	179	489	199	59	15	6	8110

STATION: 12 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2187	805	495	51	3	2	9	.	.	.	3552
1.00 - 1.99	37	1305	146	2	.	.	.	.	.	.	1490
2.00 - 2.99	.	58	256	4	.	.	.	.	.	.	318
3.00 - 3.99	.	.	31	17	.	.	.	.	.	.	48
4.00 - 4.99	.	.	1	9	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2224	2168	929	83	3	2	9	0	0	0	5418

STATION: 12 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	724	367	7	.	.	.	.	.	.	.	1098
1.00 - 1.99	27	548	142	4	.	.	.	.	.	.	721
2.00 - 2.99	.	30	143	10	.	.	.	.	.	.	183
3.00 - 3.99	.	.	26	12	.	.	.	.	.	.	38
4.00 - 4.99	.	.	3	4	.	.	.	.	.	.	7
5.00 - 5.99	.	.	.	3	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	751	945	321	33	0	0	0	0	0	0	2050

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.75 N, LONG: 80.00 W, DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 12 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	234	1	.	.	.	.	.	.	.	.	235
1.00 - 1.99	68	29	1	.	.	.	.	.	.	.	98
2.00 - 2.99	.	10	2	.	.	.	.	.	.	.	12
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	302	41	3	0	0	0	0	0	0	0	346

STATION: 12 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	272	.	1	.	.	.	.	.	.	.	273
1.00 - 1.99	84	18	.	.	.	.	.	.	.	.	102
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	356	20	1	0	0	0	0	0	0	0	377

STATION: 12 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	267	1	.	.	.	.	.	.	.	.	268
1.00 - 1.99	314	96	.	.	.	.	.	.	.	.	410
2.00 - 2.99	.	12	.	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	581	109	0	0	0	0	0	0	0	0	690

STATION: 12 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6737	4546	4690	4080	4184	2857	1332	606	191	40	29263
1.00 - 1.99	757	7043	2961	2352	1903	1769	1091	509	219	26	18630
2.00 - 2.99	.	737	1583	536	251	291	215	136	79	22	3850
3.00 - 3.99	.	1	228	303	50	22	32	24	31	1	692
4.00 - 4.99	.	.	11	71	15	22	.	3	11	.	133
5.00 - 5.99	.	.	.	11	11	3	.	.	5	.	30
6.00 - 6.99	.	.	.	1	1	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7494	12327	9473	7354	6415	4964	2670	1278	536	89	52600

STATION: 12

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	295	341	360	490	656	970	1072	1164	878	711	295	358	7590
2.50 - 4.99	1779	1424	1690	1775	2207	2565	2849	2570	2340	1709	1593	1770	24271
5.00 - 7.49	1093	1026	1114	1098	1041	531	442	502	647	982	1133	1083	10692
7.50 - 9.99	990	951	934	789	512	228	88	172	312	884	1042	914	7816
10.00 - 12.49	193	254	250	124	46	26	9	29	112	140	197	240	1620
12.50 - 14.99	89	72	101	44	2	.	2	21	18	37	53	92	531
15.00 - 17.49	23	4	12	.	.	.	2	3	7	.	6	6	63
17.50 - 19.99	2	.	3	.	.	.	.	1	4	1	1	1	13
20.00 - GREATER								2	2				4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 26.75 N, LONG: 80.00 W, DEPTH: 45 M

STATION: 12

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	783	547	499	391	166	112	93	130	162	587	631	676	4777
22.50 - 67.49 (45.0)	834	681	646	557	632	415	194	316	913	1590	1210	1119	9107
67.50 - 112.49 (90.0)	796	816	942	1146	1513	1173	1294	1753	1837	1241	1204	1014	14729
112.50 - 157.49 (135.0)	581	570	854	820	1058	1128	1451	1142	658	352	565	521	9700
157.50 - 202.49 (180.0)	391	425	570	370	473	762	716	542	359	174	211	306	5299
202.50 - 247.49 (225.0)	223	223	266	292	284	512	443	313	186	139	120	185	3186
247.50 - 292.49 (270.0)	266	293	279	323	210	153	199	126	109	129	117	202	2406
292.50 - 337.49 (315.0)	590	517	408	421	128	65	74	142	96	252	262	441	3396
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 12

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.39	1.13	1.05	1.09	0.86	0.69	0.39	0.78	0.62	1.58	1.32	1.61	1.04
1977	1.32	1.07	1.18	1.45	0.89	0.41	0.48	0.90	0.71	1.04	1.52	1.34	1.03
1978	1.28	1.56	1.15	0.92	0.72	0.66	0.55	0.55	0.95	1.72	1.38	1.56	1.08
1979	1.84	1.47	1.42	1.41	1.04	0.83	0.61	0.49	1.37	1.06	1.62	1.44	1.21
1980	1.25	1.63	1.32	1.04	0.81	0.58	0.42	0.78	0.69	1.03	1.63	1.44	1.05
1981	1.04	1.77	1.86	0.98	0.78	0.68	0.49	0.76	1.02	1.18	1.22	1.02	1.06
1982	1.01	0.89	1.07	0.85	0.87	0.77	0.40	0.54	0.75	1.35	1.32	1.23	0.92
1983	1.02	1.69	1.21	1.21	0.87	0.67	0.50	0.49	1.07	1.36	1.16	1.51	1.06
1984	1.79	1.19	1.27	1.06	1.08	0.69	0.58	0.47	1.34	1.57	1.87	1.28	1.18
1985	1.07	1.47	1.10	1.15	0.62	0.56	0.53	0.70	1.58	1.10	1.46	1.36	1.05
1986	1.32	1.11	1.54	0.99	1.20	0.55	0.42	0.79	1.04	1.19	1.23	1.44	1.07
1987	1.46	1.12	1.85	1.04	0.93	0.62	0.61	0.60	0.59	1.46	1.33	0.97	1.05
1988	1.46	1.07	1.02	1.03	0.88	0.79	0.58	0.53	0.94	1.14	0.99	0.93	0.95
1989	0.96	0.95	1.13	0.83	0.69	0.58	0.44	0.53	0.98	1.19	0.81	0.98	0.84
1990	0.87	1.34	1.25	1.18	0.84	0.61	0.60	0.48	0.82	1.07	1.14	1.22	0.95
1991	0.93	1.06	1.04	1.02	0.90	0.67	0.42	0.51	0.79	1.27	1.20	1.05	0.90
1992	1.01	0.99	0.88	1.06	0.90	0.59	0.56	0.60	0.75	1.15	1.43	1.24	0.93
1993	1.42	1.26	1.40	1.20	0.98	0.74	0.40	0.60	0.75	0.94	1.35	1.20	1.02
MEAN	1.25	1.26	1.26	1.08	0.88	0.65	0.50	0.62	0.93	1.24	1.33	1.27	

STATION: 12

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	38 9 3	3610 7	34 9 5	29 7 0	30 713	13 512	812 5	2412 5	1313 7	4011 4	33 8 2	39 9 2	4011 4
1977	27 7 1	25 8 4	35 9 5	4310 7	28 8 5	13 516	11 511	23 6 8	20 6 8	24 8 5	39 9 1	34 9 4	4310 7
1978	33 817	37 8 3	33 814	23 713	27 818	30 9 7	17 6 9	12 5 8	1911 4	4610 5	30 7 3	5114 5	5114 5
1979	5210 2	30 7 4	3610 6	43 913	24 8 4	28 8 5	26 713	12 5 9	6411 5	27 8 7	3910 4	36 9 5	6411 5
1980	3118 6	37 9 2	2914 5	27 814	19 6 7	17 8 3	15 6 8	40 914	1415 6	2212 4	4019 6	3211 4	4019 6
1981	35 9 1	4413 5	5220 6	32 9 6	1710 4	18 7 5	13 7 4	36 816	1812 5	28 8 5	31 7 5	23 633	5220 6
1982	27 819	22 714	33 818	31 816	18 9 4	26 715	16 612	14 612	13 5 8	3616 6	29 8 4	28 712	3616 6
1983	33 8 6	46 914	541019	32 836	20 6 9	14 617	17 610	32 9 3	31 9 5	31 8 7	33 9 5	4811 2	541019
1984	5712 3	32 9 5	42 918	22 716	28 8 5	19 7 1	13 514	23 714	50 9 6	30 9 5	4710 1	29 7 7	5712 3
1985	30 8 0	38 9 7	40 9 6	33 7 8	16 8 4	18 714	40 814	24 719	3910 4	2410 4	4411 7	41 9 3	4411 7
1986	46 9 5	32 936	39 9 1	2616 6	2715 5	16 6 6	11 512	20 6 8	22 6 8	3910 5	34 8 5	46 914	46 914
1987	5010 2	28 818	39 7 9	22 636	26 814	23 915	15 513	1615 5	1116 6	25 7 4	30 8 4	30 8 3	5010 2
1988	2916 7	26 8 7	20 610	22 612	21 6 5	28 8 5	17 8 4	24 7 7	30 813	22 7 5	35 818	2817 6	35 818
1989	2711 4	2110 3	39 8 1	16 8 3	20 612	13 517	9 411	17 6 9	2613 6	29 9 4	16 6 7	2315 5	39 8 1
1990	23 636	30 8 6	31 8 7	24 6 8	19 713	13 5 5	13 7 4	1012 5	1310 5	28 716	32 8 4	33 8 5	33 8 5
1991	24 611	22 7 7	30 817	25 6 9	33 913	20 9 4	10 517	1510 4	20 7 6	29 7 5	2415 5	37 9 5	37 9 5
1992	24 714	2110 5	24 610	2911 4	1712 5	13 616	11 513	5810 8	13 9 5	28 8 5	28 7 7	2414 5	5810 8
1993	47 935	27 9 4	50 918	26 814	17 6 9	18 613	8 513	2213 5	2213 5	30 818	2512 4	34 9 5	50 918
MAX	5712 3	46 914	541019	43 913	33 913	30 9 7	40 814	5810 8	6411 5	4610 5	4710 1	5114 5	

MAX Hmo(m): 6.4 MAX Tp(sec): 11. MAX Dp(deg): 54. DATE(gmt): 79090315

MAX WIND SPEED(m/sec): 23. MAX WIND DIRECTION(deg): 60. DATE(gmt): 92082409

MEAN Hmo(m): 1.0 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.9

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.00 N, LONG: 80.00 W, DEPTH: 45 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 13

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	157	162	222	250	515	1220	2100	1677	404	154	99	173	7133
0.50 - 0.99	1383	1226	1408	1532	2089	2303	2047	2073	2015	1209	1054	1343	19682
1.00 - 1.49	1475	1355	1308	1500	1319	554	246	463	1208	1448	1407	1464	13747
1.50 - 1.99	801	651	673	663	379	184	49	150	376	909	900	718	6453
2.00 - 2.49	326	355	450	213	107	40	13	52	166	456	513	364	3055
2.50 - 2.99	149	155	233	103	51	18	5	22	82	179	221	218	1436
3.00 - 3.49	85	95	76	35	4	1	.	8	41	67	56	110	578
3.50 - 3.99	38	41	55	19	.	.	1	16	9	27	33	34	273
4.00 - 4.49	19	28	21	5	.	.	2	.	11	14	19	23	142
4.50 - 4.99	17	4	4	.	.	.	1	.	3	1	15	11	56
5.00 - 5.49	13	.	6	.	.	.	.	3	2	.	2	3	29
5.50 - 5.99	1	.	6	.	.	.	.	.	1	.	1	3	12
6.00 - 6.49	.	.	2	.	.	.	.	.	1	.	.	.	3
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 13

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	104	43	56	69	164	311	720	474	101	13	9	50	2114
4.0 - 4.9	330	270	255	239	392	419	735	644	164	85	145	226	3904
5.0 - 5.9	435	399	367	430	548	483	357	381	370	279	378	412	4839
6.0 - 6.9	509	559	504	423	472	605	504	434	517	520	567	575	6189
7.0 - 7.9	423	383	537	287	421	449	477	466	559	559	456	479	5496
8.0 - 8.9	281	311	322	372	343	393	300	525	456	556	500	367	4726
9.0 - 9.9	283	277	233	208	450	366	379	360	542	542	428	318	4386
10.0 - 10.9	228	252	243	289	336	365	270	289	345	430	387	274	3708
11.0 - 11.9	203	155	297	382	395	358	270	280	302	326	270	209	3447
12.0 - 12.9	369	176	342	471	375	250	238	250	246	345	256	249	3567
13.0 - 13.9	264	196	340	479	217	142	139	161	242	249	214	283	2926
14.0 - 14.9	232	199	339	277	145	89	45	95	199	201	234	319	2374
15.0 - 15.9	203	162	240	181	117	55	14	38	133	149	130	284	1706
16.0 - 16.9	218	222	124	99	49	24	8	19	72	95	133	142	1205
17.0 - 17.9	168	183	90	44	21	9	4	23	41	56	90	97	826
18.0 - 18.9	106	135	70	21	9	2	3	12	20	28	64	66	536
19.0 - 19.9	61	66	53	25	5	.	1	7	9	13	36	47	323
20.0 - LONGER	47	84	52	24	5	.	.	6	2	18	23	67	328
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 13

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	241	207	127	122	38	23	2	33	6	55	157	217	1228
11.25 - 33.74 (22.5)	374	323	179	144	135	160	109	188	231	211	367	453	2874
33.75 - 56.24 (45.0)	1415	1164	1519	1456	1597	1560	1191	1412	1773	2108	1368	1561	18124
56.25 - 78.74 (67.5)	1540	1476	1498	1666	1424	1123	866	1139	1683	1841	1868	1488	17612
78.75 - 101.24 (90.0)	166	193	269	243	390	474	770	617	269	147	259	230	4027
101.25 - 123.74 (112.5)	102	86	117	169	347	261	532	360	117	24	82	116	2313
123.75 - 146.24 (135.0)	78	119	207	170	216	242	463	284	103	21	95	53	2051
146.25 - 168.74 (157.5)	114	125	208	140	138	182	254	279	53	11	42	99	1645
168.75 - 191.24 (180.0)	148	143	132	71	93	164	106	83	68	16	23	76	1123
191.25 - 213.74 (202.5)	13	24	20	13	9	58	49	23	10	4	4	15	242
213.75 - 236.24 (225.0)	17	11	18	9	5	32	52	21	5	1	3	20	194
236.25 - 258.74 (247.5)	12	11	19	6	7	26	41	5	1	1	2	4	135
258.75 - 281.24 (270.0)	25	24	19	11	34	15	25	5	.	2	.	9	169
281.25 - 303.74 (292.5)	55	44	43	30	14	.	3	7	.	5	5	22	225
303.75 - 326.24 (315.0)	80	59	41	42	7	.	3	4	4	6	10	39	291
326.25 - 348.74 (337.5)	84	63	48	28	10	.	1	4	1	11	35	62	347
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.00 N, LONG: 80.00 W, DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 13 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	295	369	8	3	.	.	.	.	.	.	675
1.00 - 1.99	102	936	61	5	.	.	.	.	.	.	1104
2.00 - 2.99	.	74	162	3	.	.	.	.	.	.	239
3.00 - 3.99	.	.	51	24	.	.	.	.	.	.	75
4.00 - 4.99	.	.	6	17	.	.	.	.	.	.	23
5.00 - 5.99	.	.	.	3	2	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	397	1379	288	55	2	0	0	0	0	0	2121

STATION: 13 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	477	1777	2455	3208	3381	2300	1155	550	166	29	15498
1.00 - 1.99	46	1580	2855	2554	2001	1712	1130	495	211	28	12612
2.00 - 2.99	.	72	911	738	381	347	248	161	99	17	2974
3.00 - 3.99	.	.	95	220	61	49	54	47	25	8	559
4.00 - 4.99	.	.	3	47	23	27	5	7	21	.	133
5.00 - 5.99	.	.	.	2	10	4	.	.	9	.	25
6.00 - 6.99	.	.	.	.	.	.	.	.	2	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	523	3429	6319	6769	5857	4439	2592	1260	533	82	31803

STATION: 13 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1560	1317	1511	852	697	392	79	30	9	9	6456
1.00 - 1.99	51	2196	401	228	439	417	178	50	15	3	3978
2.00 - 2.99	.	40	594	17	14	50	42	22	.	.	779
3.00 - 3.99	.	.	61	54	.	2	12	.	.	.	129
4.00 - 4.99	.	.	2	19	1	.	1	.	.	.	23
5.00 - 5.99	.	.	.	6	2	.	.	.	.	.	8
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1611	3553	2569	1177	1154	861	312	102	24	12	11375

STATION: 13 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1588	523	315	27	1	.	7	.	.	.	2461
1.00 - 1.99	41	1058	123	1	.	.	.	.	.	.	1223
2.00 - 2.99	.	32	234	4	.	.	.	.	.	.	270
3.00 - 3.99	.	.	27	17	.	.	.	.	.	.	44
4.00 - 4.99	.	.	1	8	.	.	.	.	.	.	9
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1629	1613	700	57	1	0	7	0	0	0	4007

STATION: 13 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	695	309	5	.	.	.	.	.	.	.	1009
1.00 - 1.99	32	551	145	4	.	.	.	.	.	.	732
2.00 - 2.99	.	33	161	8	.	.	.	.	.	.	202
3.00 - 3.99	.	.	29	15	.	.	.	.	.	.	44
4.00 - 4.99	.	.	4	6	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	3	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	727	893	344	36	0	0	0	0	0	0	2000

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.00 N, LONG: 80.00 W, DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 13 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	258	2	.	.	.	.	.	.	.	.	260
1.00 - 1.99	74	33	.	.	.	.	.	.	.	.	107
2.00 - 2.99	.	8	1	.	.	.	.	.	.	.	9
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	332	43	1	0	0	0	0	0	0	0	376

STATION: 13 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	243	.	.	.	.	.	.	.	.	.	243
1.00 - 1.99	75	16	.	.	.	.	.	.	.	.	91
2.00 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	318	16	0	0	0	0	0	0	0	0	334

STATION: 13 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	212	.	1	.	.	.	.	.	.	.	213
1.00 - 1.99	269	84	.	.	.	.	.	.	.	.	353
2.00 - 2.99	.	18	.	.	.	.	.	.	.	.	18
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	481	102	1	0	0	0	0	0	0	0	584

STATION: 13 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5328	4297	4295	4090	4079	2692	1241	580	175	38	26815
1.00 - 1.99	690	6454	3585	2792	2440	2129	1308	545	226	31	20200
2.00 - 2.99	.	277	2063	770	395	397	290	183	99	17	4491
3.00 - 3.99	.	.	263	330	61	51	66	47	25	8	851
4.00 - 4.99	.	.	16	97	24	27	6	7	21	.	198
5.00 - 5.99	.	.	.	14	14	4	.	.	9	.	41
6.00 - 6.99	.	.	.	1	.	.	.	.	2	.	3
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6018	11028	10222	8094	7014	5300	2911	1362	557	94	52600

STATION: 13

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	353	354	401	557	700	1044	1183	1227	898	744	335	412	8208
2.50 - 4.99	1743	1432	1680	1722	2199	2492	2752	2520	2335	1674	1602	1749	23900
5.00 - 7.49	1056	1003	1097	1107	1034	544	434	497	623	961	1120	1064	10540
7.50 - 9.99	987	949	924	767	482	214	81	162	314	898	1007	903	7688
10.00 - 12.49	206	253	240	120	47	26	10	31	109	143	192	229	1606
12.50 - 14.99	91	76	105	47	2	.	1	20	28	42	57	99	568
15.00 - 17.49	27	5	14	.	.	.	2	4	8	2	6	7	75
17.50 - 19.99	1	.	3	.	.	.	1	3	2	.	1	1	12
20.00 - GREATER									3				3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.00 N, LONG: 80.00 W, DEPTH: 45 M

STATION: 13

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	763	551	486	384	166	110	86	122	152	582	639	668	4709
22.50 - 67.49 (45.0)	808	662	634	554	636	418	203	323	947	1553	1181	1086	9005
67.50 - 112.49 (90.0)	755	777	880	1079	1430	1070	1138	1655	1765	1215	1171	970	13905
112.50 - 157.49 (135.0)	565	560	840	794	1054	1102	1413	1077	658	365	551	507	9486
157.50 - 202.49 (180.0)	428	458	592	413	509	787	820	625	357	180	228	336	5733
202.50 - 247.49 (225.0)	232	236	315	311	311	598	510	376	215	150	142	207	3603
247.50 - 292.49 (270.0)	291	329	298	361	236	169	221	150	129	144	128	237	2693
292.50 - 337.49 (315.0)	622	499	419	424	122	66	73	136	97	275	280	453	3466
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 13

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.45	1.19	1.10	1.18	0.89	0.72	0.40	0.87	0.74	1.70	1.35	1.66	1.10
1977	1.40	1.09	1.22	1.49	0.92	0.41	0.48	0.94	0.77	1.11	1.65	1.42	1.08
1978	1.34	1.69	1.21	0.96	0.75	0.69	0.56	0.58	1.04	1.86	1.47	1.65	1.15
1979	1.93	1.57	1.55	1.51	1.11	0.88	0.62	0.51	1.42	1.16	1.71	1.53	1.29
1980	1.35	1.73	1.41	1.14	0.86	0.62	0.45	0.82	0.75	1.15	1.78	1.54	1.13
1981	1.07	1.88	2.02	1.02	0.84	0.70	0.53	0.77	1.14	1.28	1.30	1.05	1.13
1982	1.06	0.93	1.12	0.91	0.92	0.79	0.40	0.56	0.81	1.49	1.45	1.28	0.98
1983	1.09	1.82	1.25	1.27	0.92	0.74	0.51	0.51	1.14	1.48	1.27	1.59	1.13
1984	1.90	1.23	1.36	1.13	1.11	0.70	0.60	0.47	1.44	1.65	1.97	1.34	1.24
1985	1.11	1.54	1.14	1.23	0.66	0.60	0.54	0.72	1.71	1.17	1.61	1.43	1.12
1986	1.39	1.18	1.59	1.06	1.28	0.56	0.43	0.83	1.15	1.27	1.32	1.53	1.13
1987	1.60	1.17	1.98	1.12	1.01	0.64	0.62	0.64	0.66	1.55	1.41	1.02	1.12
1988	1.58	1.14	1.09	1.11	0.98	0.89	0.72	0.57	1.03	1.26	1.07	1.04	1.04
1989	1.00	0.97	1.18	0.87	0.74	0.62	0.44	0.59	1.11	1.32	0.88	1.03	0.90
1990	0.94	1.41	1.34	1.32	0.91	0.69	0.66	0.54	0.98	1.16	1.21	1.37	1.04
1991	0.97	1.12	1.06	1.06	0.91	0.73	0.43	0.54	0.88	1.41	1.25	1.10	0.95
1992	1.08	1.05	0.94	1.14	0.98	0.65	0.66	0.65	0.80	1.25	1.52	1.37	1.01
1993	1.50	1.31	1.50	1.27	1.02	0.77	0.40	0.64	0.79	1.03	1.45	1.28	1.08
MEAN	1.32	1.33	1.34	1.16	0.93	0.69	0.52	0.65	1.02	1.35	1.43	1.35	

STATION: 13

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3810 3	3610 7	33 9 5	30 7 0	30 713	14 612	812 5	2713 6	1714 7	4211 4	35 8 2	40 8 3	4211 4
1977	29 7 2	27 8 4	36 9 5	4310 7	27 8 6	14 517	11 512	25 8 8	21 7 8	25 9 5	39 9 1	36 9 4	4310 7
1978	34 817	39 9 4	34 814	23 711	28 818	30 8 7	18 6 9	12 5 9	2112 5	4910 5	32 7 3	5614 6	5614 6
1979	5111 4	32 7 5	4410 7	44 913	25 8 4	29 8 7	27 713	12 5 9	7611 7	30 8 8	3910 5	36 9 5	7611 7
1980	3518 6	4118 6	3114 5	29 814	18 6 7	18 8 3	16 6 8	39 813	1515 6	2412 4	4619 6	3411 4	4619 6
1981	35 9 2	4613 5	6020 6	31 9 6	17 612	18 7 5	14 7 4	37 917	2112 5	29 7 1	32 7 5	23 632	6020 6
1982	26 818	22 714	32 817	34 818	19 9 4	25 715	16 612	15 612	13 5 8	4116 6	2814 7	27 715	4116 6
1983	35 8 6	4917 6	551019	33 836	20 7 9	15 618	18 7 9	35 9 5	33 9 5	29 8 7	33 9 5	4810 2	551019
1984	5612 3	31 817	43 918	24 717	28 8 5	20 7 9	13 515	23 714	5210 7	30 9 5	4710 2	30 8 7	5612 3
1985	31 7 1	37 9 7	40 9 6	39 8 8	17 8 4	18 714	47 912	27 719	4416 7	2710 4	5511 9	43 9 3	5511 9
1986	4810 5	32 936	39 9 1	2816 6	3015 5	17 6 7	11 512	22 6 8	24 7 8	4210 5	36 8 5	46 914	4810 5
1987	5210 3	29 818	4710 8	2312 5	25 7 7	22 915	15 513	1714 5	1216 6	26 8 9	30 8 4	30 8 3	5210 3
1988	3416 7	27 8 7	20 710	24 612	20 6 5	29 8 5	19 6 7	27 7 8	29 813	22 7 5	42 818	3217 6	42 818
1989	3011 4	23 9 3	43 8 1	17 8 3	19 612	13 516	9 5 9	18 6 9	3013 6	3215 5	1713 7	2415 5	43 8 1
1990	22 636	29 8 6	32 8 8	2510 6	19 613	1310 4	14 9 6	1112 5	1512 7	29 816	32 8 4	32 8 5	32 8 5
1991	26 7 8	2310 7	30 718	26 8 8	30 711	21 9 4	11 517	1710 5	21 7 7	2812 6	2715 5	36 9 5	36 9 5
1992	24 714	2410 5	27 8 8	3011 4	18 9 5	14 617	11 513	5410 8	15 9 5	28 8 7	31 8 7	2714 5	5410 8
1993	50 935	27 9 4	51 918	26 814	18 6 9	19 613	7 7 5	2513 5	2513 5	31 818	2812 4	35 9 5	51 918
MAX	5612 3	4917 6	6020 6	44 913	30 711	30 8 7	47 912	5410 8	7611 7	4910 5	5511 9	5614 6	

MAX Hmo(m): 7.6 MAX Tp(sec): 11. MAX Dp(deg): 72. DATE(gmt): 79090315

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 45. DATE(gmt): 79090315

MEAN Hmo(m): 1.1 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.9

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.25 N, LONG: 80.00 W, DEPTH: 55 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 14

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	89	82	104	101	279	856	1657	1068	258	68	43	100	4705
0.50 - 0.99	1195	1052	1310	1386	2077	2566	2459	2537	1822	970	881	1189	19444
1.00 - 1.49	1492	1430	1373	1583	1464	631	270	593	1357	1476	1393	1470	14532
1.50 - 1.99	889	754	742	799	476	205	58	151	490	1030	907	811	7312
2.00 - 2.49	408	353	473	253	102	45	11	54	211	542	650	438	3540
2.50 - 2.99	181	217	262	125	59	17	4	31	95	222	281	227	1721
3.00 - 3.49	94	98	94	47	7	.	1	11	52	93	81	129	707
3.50 - 3.99	61	43	58	13	.	.	1	13	13	39	38	55	334
4.00 - 4.49	21	25	24	12	.	.	1	3	9	21	20	21	157
4.50 - 4.99	14	16	10	1	.	.	2	2	4	2	21	14	86
5.00 - 5.49	18	2	5	.	.	.	.	1	6	1	5	4	42
5.50 - 5.99	2	.	4	.	.	.	.	.	1	.	.	4	11
6.00 - 6.49	.	.	5	.	.	.	.	.	.	.	.	2	7
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	.	1
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 14

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	44	15	13	12	58	141	340	152	51	7	4	18	855
4.0 - 4.9	228	186	178	172	253	362	542	422	104	44	76	155	2722
5.0 - 5.9	361	321	288	338	467	412	382	367	329	180	255	341	4041
6.0 - 6.9	426	467	385	402	452	568	614	467	430	470	458	496	5635
7.0 - 7.9	402	388	503	272	441	504	549	585	585	558	504	489	5780
8.0 - 8.9	319	367	372	366	528	630	632	797	509	600	518	430	6068
9.0 - 9.9	363	352	348	291	569	465	421	512	544	594	573	396	5428
10.0 - 10.9	351	325	384	394	364	336	282	325	401	522	450	333	4467
11.0 - 11.9	258	204	355	464	401	366	298	276	311	371	305	250	3859
12.0 - 12.9	391	189	360	486	389	237	236	234	273	354	274	267	3690
13.0 - 13.9	281	211	343	484	216	137	106	151	265	243	222	314	2973
14.0 - 14.9	248	201	331	271	138	78	35	75	212	185	220	320	2314
15.0 - 15.9	214	164	237	163	104	52	13	38	150	137	132	269	1673
16.0 - 16.9	213	230	116	95	48	20	7	17	73	94	139	137	1189
17.0 - 17.9	152	191	89	40	18	8	4	23	43	51	75	87	781
18.0 - 18.9	106	125	67	21	8	4	2	12	23	25	62	63	518
19.0 - 19.9	61	61	47	25	5	.	1	7	11	12	33	40	303
20.0 - LONGER	46	75	48	24	5	.	.	4	6	17	20	59	304
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 14

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	201	203	125	104	27	14	2	14	9	39	136	203	1077
11.25 - 33.74 (22.5)	325	255	132	102	104	102	69	79	149	186	264	379	2146
33.75 - 56.24 (45.0)	1279	1189	1374	1308	1429	1304	925	1087	1580	1879	1225	1456	16035
56.25 - 78.74 (67.5)	1645	1458	1592	1794	1489	1298	871	1216	1793	2056	2099	1623	18934
78.75 - 101.24 (90.0)	429	411	540	453	737	873	1471	1390	531	225	378	371	7809
101.25 - 123.74 (112.5)	71	61	106	146	287	223	536	290	78	23	65	87	1973
123.75 - 146.24 (135.0)	67	89	164	131	166	143	264	154	55	14	46	43	1336
146.25 - 168.74 (157.5)	96	96	171	108	103	121	140	143	41	3	27	83	1132
168.75 - 191.24 (180.0)	119	107	94	68	62	148	85	52	71	11	25	70	912
191.25 - 213.74 (202.5)	19	25	20	8	6	38	21	11	8	4	2	18	180
213.75 - 236.24 (225.0)	13	10	16	7	4	17	31	11	5	1	2	16	133
236.25 - 258.74 (247.5)	11	10	15	2	2	27	25	2	.	2	1	3	100
258.75 - 281.24 (270.0)	21	15	14	8	22	12	21	4	.	3	1	7	128
281.25 - 303.74 (292.5)	50	41	30	25	14	.	1	4	.	4	3	14	186
303.75 - 326.24 (315.0)	53	42	31	33	3	.	2	3	.	4	12	40	223
326.25 - 348.74 (337.5)	65	60	40	23	9	.	.	4	.	10	34	51	296
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.25 N, LONG: 80.00 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 14 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	144	229	18	3	.	.	.	.	.	.	394
1.00 - 1.99	77	882	185	6	.	.	.	.	.	.	1150
2.00 - 2.99	.	89	177	4	.	.	.	.	.	.	270
3.00 - 3.99	.	.	53	31	.	.	.	.	.	.	84
4.00 - 4.99	.	.	3	22	.	.	.	.	.	.	25
5.00 - 5.99	.	.	.	6	4	.	.	.	.	.	10
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	221	1200	436	72	4	0	0	0	0	0	1933

STATION: 14 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	228	1020	1468	2333	2793	1834	884	395	114	20	11089
1.00 - 1.99	43	1402	2620	2433	2146	1808	1205	528	193	26	12404
2.00 - 2.99	.	74	991	875	502	430	284	168	100	13	3437
3.00 - 3.99	.	.	89	291	95	96	71	47	31	8	728
4.00 - 4.99	.	.	1	56	31	28	12	15	21	.	164
5.00 - 5.99	.	.	.	1	13	6	2	1	7	.	30
6.00 - 6.99	.	.	.	.	.	2	.	.	5	.	7
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	271	2496	5169	5989	5580	4204	2458	1154	471	67	27859

STATION: 14 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	876	1727	3820	2360	920	362	108	39	14	9	10235
1.00 - 1.99	42	1874	1109	1138	954	607	216	63	33	6	6042
2.00 - 2.99	.	36	572	165	85	102	57	39	6	1	1063
3.00 - 3.99	.	.	34	76	.	12	23	4	.	.	149
4.00 - 4.99	.	.	1	25	2	.	.	.	.	.	28
5.00 - 5.99	.	.	.	6	2	.	.	.	.	.	8
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	1	1	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	918	3637	5536	3771	1964	1083	404	145	53	16	17527

STATION: 14 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	853	377	76	2	.	.	.	.	.	.	1308
1.00 - 1.99	43	941	108	2	.	.	.	.	.	.	1094
2.00 - 2.99	.	28	247	2	.	.	.	.	.	.	277
3.00 - 3.99	.	.	25	13	.	.	.	.	.	.	38
4.00 - 4.99	.	.	2	16	.	.	.	.	.	.	18
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	896	1346	458	36	0	0	0	0	0	0	2736

STATION: 14 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	434	249	.	.	.	.	.	.	.	.	683
1.00 - 1.99	32	572	73	3	.	.	.	.	.	.	680
2.00 - 2.99	.	37	135	6	.	.	.	.	.	.	178
3.00 - 3.99	.	.	29	13	.	.	.	.	.	.	42
4.00 - 4.99	.	.	5	2	1	.	.	.	.	.	8
5.00 - 5.99	.	.	1	3	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	466	858	243	27	1	0	0	0	0	0	1595

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.25 N, LONG: 80.00 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 14 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	145	1	.	.	.	.	.	.	.	.	146
1.00 - 1.99	66	34	1	.	.	.	.	.	.	.	101
2.00 - 2.99	.	9	3	.	.	.	.	.	.	.	12
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	211	44	4	0	0	0	0	0	0	0	259

STATION: 14 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	168	.	.	.	.	.	.	.	.	.	168
1.00 - 1.99	83	11	.	.	.	.	.	.	.	.	94
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	251	12	0	0	0	0	0	0	0	0	263

STATION: 14 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	125	1	.	.	.	.	.	.	.	.	126
1.00 - 1.99	218	61	.	.	.	.	.	.	.	.	279
2.00 - 2.99	.	21	2	.	.	.	.	.	.	.	23
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	343	83	2	0	0	0	0	0	0	0	428

STATION: 14 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2973	3604	5382	4698	3713	2196	992	434	128	29	24149
1.00 - 1.99	604	5777	4096	3582	3100	2415	1421	591	226	32	21844
2.00 - 2.99	.	295	2127	1052	587	532	341	207	106	14	5261
3.00 - 3.99	.	.	230	424	95	108	94	51	31	8	1041
4.00 - 4.99	.	.	12	121	34	28	12	15	21	.	243
5.00 - 5.99	.	.	1	17	19	6	2	1	7	.	53
6.00 - 6.99	.	.	.	.	.	2	.	.	5	.	7
7.00 - 7.99	.	.	.	1	1	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3577	9676	11848	9895	7549	5287	2862	1299	524	83	52600

STATION: 14

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	348	345	410	528	684	1034	1144	1221	899	712	333	417	8075
2.50 - 4.99	1735	1437	1694	1750	2250	2501	2802	2548	2339	1699	1586	1730	24071
5.00 - 7.49	1041	981	1075	1110	1034	559	425	482	610	963	1158	1086	10524
7.50 - 9.99	1003	964	919	765	452	201	79	156	317	900	993	882	7631
10.00 - 12.49	211	257	241	128	44	25	9	32	106	141	183	238	1615
12.50 - 14.99	99	81	106	39	.	.	2	19	36	47	61	100	590
15.00 - 17.49	26	7	13	.	.	.	2	3	5	2	4	11	73
17.50 - 19.99	1	.	6	.	.	.	1	3	4	.	2	.	17
20.00 - GREATER									4				4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.25 N, LONG: 80.00 W, DEPTH: 55 M

STATION: 14

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	778	539	473	393	168	114	89	121	165	584	646	676	4746
22.50 - 67.49 (45.0)	779	651	631	524	631	421	198	316	957	1542	1157	1064	8871
67.50 - 112.49 (90.0)	728	740	839	1035	1355	983	1006	1577	1726	1194	1146	920	13249
112.50 - 157.49 (135.0)	545	563	834	782	1068	1085	1414	1084	638	379	551	518	9461
157.50 - 202.49 (180.0)	441	452	606	458	540	840	893	656	384	179	243	334	6026
202.50 - 247.49 (225.0)	243	256	333	325	325	631	560	418	229	150	141	219	3830
247.50 - 292.49 (270.0)	315	352	307	370	247	177	231	156	129	150	153	253	2840
292.50 - 337.49 (315.0)	635	519	441	433	130	69	73	136	92	286	283	480	3577
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52800

STATION: 14

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.56	1.29	1.18	1.28	0.93	0.76	0.44	0.99	0.87	1.85	1.40	1.73	1.19
1977	1.47	1.15	1.30	1.54	0.96	0.44	0.55	0.99	0.82	1.19	1.81	1.52	1.15
1978	1.45	1.79	1.32	1.04	0.83	0.77	0.63	0.65	1.13	1.99	1.58	1.73	1.24
1979	2.02	1.66	1.67	1.60	1.22	0.97	0.67	0.60	1.50	1.27	1.85	1.64	1.39
1980	1.45	1.83	1.53	1.25	0.92	0.72	0.54	0.90	0.87	1.28	1.91	1.69	1.24
1981	1.14	2.03	2.12	1.12	0.92	0.75	0.61	0.81	1.28	1.40	1.40	1.11	1.22
1982	1.12	1.07	1.23	1.02	1.01	0.82	0.45	0.61	0.88	1.61	1.60	1.36	1.06
1983	1.20	1.90	1.29	1.32	1.02	0.79	0.57	0.58	1.21	1.60	1.38	1.68	1.21
1984	2.05	1.32	1.43	1.19	1.14	0.72	0.66	0.54	1.54	1.72	2.09	1.43	1.32
1985	1.16	1.59	1.24	1.30	0.71	0.65	0.60	0.78	1.81	1.26	1.74	1.47	1.19
1986	1.48	1.28	1.66	1.16	1.37	0.63	0.48	0.88	1.26	1.37	1.47	1.64	1.22
1987	1.73	1.22	2.07	1.22	1.12	0.69	0.65	0.69	0.74	1.66	1.52	1.09	1.20
1988	1.66	1.21	1.13	1.16	1.02	0.90	0.72	0.62	1.05	1.34	1.13	1.07	1.09
1989	1.13	1.03	1.29	0.97	0.79	0.68	0.53	0.73	1.30	1.46	1.01	1.09	1.00
1990	1.01	1.46	1.39	1.47	0.93	0.71	0.72	0.64	1.05	1.29	1.26	1.51	1.12
1991	1.05	1.22	1.10	1.15	0.97	0.84	0.48	0.61	1.02	1.56	1.35	1.18	1.04
1992	1.15	1.09	1.04	1.20	1.03	0.65	0.64	0.74	0.89	1.35	1.62	1.46	1.07
1993	1.64	1.37	1.62	1.36	1.09	0.82	0.47	0.75	0.87	1.14	1.59	1.40	1.18
MEAN	1.42	1.42	1.42	1.24	1.00	0.74	0.58	0.73	1.12	1.46	1.54	1.43	

STATION: 14

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3910 3	3610 8	34 8 3	31 8 1	29 814	16 612	812 5	3113 6	2114 7	4511 4	36 8 2	40 9 2	4511 4
1977	30 7 1	27 8 4	35 9 5	4110 7	27 8 8	14 517	11 7 4	26 8 8	21 7 8	27 9 6	39 9 0	3715 5	4110 7
1978	34 817	40 9 4	35 813	22 712	29 818	29 8 7	18 6 9	13 7 7	2312 5	5210 5	33 7 3	6014 6	6014 6
1979	5211 4	32 7 4	4410 7	461013	24 7 3	27 8 7	26 713	13 5 9	7511 8	31 8 9	4110 4	37 9 4	7511 8
1980	3818 6	4419 6	3314 5	31 814	1915 5	19 8 3	17 6 8	40 914	1614 7	2712 4	4919 6	3711 4	4919 6
1981	37 9 1	4913 5	6320 6	31 9 6	18 612	19 7 5	14 7 4	37 916	2312 5	32 7 1	33 7 5	22 632	6320 6
1982	2517 6	22 714	31 9 7	36 819	20 8 5	24 714	16 613	15 612	1411 5	4316 6	3415 7	26 712	4316 6
1983	37 8 7	5117 6	561018	33 917	20 7 9	15 618	18 610	41 9 2	34 9 5	3214 5	32 9 5	5110 2	561018
1984	5712 3	32 813	37 818	25 717	28 817	20 7 1	14 515	23 714	53 9 8	30 8 5	5113 4	29 8 7	5712 3
1985	31 736	37 9 7	41 9 6	4010 8	18 8 4	18 714	47 912	28 719	5216 7	3210 4	5311 9	43 9 3	5311 9
1986	4910 5	32 936	39 9 1	3016 5	3215 5	18 7 6	11 515	22 6 8	25 7 8	4410 5	38 9 4	47 914	4910 5
1987	5410 2	27 818	4610 8	2512 5	24 7 7	21 813	15 512	1915 5	1215 5	26 9 4	30 8 4	31 8 3	5410 2
1988	3915 7	26 8 7	19 710	24 711	19 6 5	28 8 5	19 8 6	27 7 8	29 813	23 8 3	43 818	3517 6	43 818
1989	3511 4	2510 4	46 9 0	1814 5	20 612	14 617	10 5 9	18 6 9	3413 6	3515 5	2012 7	2615 5	46 9 0
1990	22 636	28 8 6	3110 4	2711 7	19 613	1310 4	1610 7	1212 5	1812 7	31 816	32 8 4	32 8 5	32 8 5
1991	26 7 8	2510 7	30 717	27 9 7	30 711	24 9 4	11 517	1910 5	2415 7	2912 6	2915 5	36 9 5	36 9 5
1992	24 714	2810 5	26 8 9	3211 4	19 9 5	14 617	11 513	50 9 9	17 9 5	27 7 7	32 8 7	2914 5	50 9 9
1993	52 935	29 9 4	52 918	27 814	17 6 9	18 618	8 7 5	2713 5	2813 5	32 818	3112 4	35 9 5	52 918
MAX	5712 3	5117 6	6320 6	461013	3215 5	29 8 7	47 912	50 9 9	7511 8	5210 5	5311 9	6014 6	

MAX Hmo(m): 7.5 MAX Tp(sec): 11. MAX Dp(deg): 79. DATE(gmt): 79090315

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 125. DATE(gmt): 79090318

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.50 N, LONG: 80.00 W, DEPTH: 55 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 15

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	24	29	38	47	141	269	551	360	79	23	22	48	1631
0.50 - 0.99	818	769	821	1034	1664	2817	3299	2777	1398	635	514	830	17376
1.00 - 1.49	1431	1342	1530	1584	1734	904	521	937	1727	1457	1215	1577	15959
1.50 - 1.99	1118	1024	978	1048	720	250	62	243	601	1199	1164	910	9317
2.00 - 2.49	576	422	550	366	133	65	21	70	273	650	733	526	4385
2.50 - 2.99	241	257	302	147	61	15	5	33	112	303	415	280	2171
3.00 - 3.49	108	121	126	67	11	.	1	18	60	111	154	161	938
3.50 - 3.99	81	52	60	16	.	.	1	19	28	54	47	82	440
4.00 - 4.49	29	26	27	9	.	.	.	6	16	23	24	18	178
4.50 - 4.99	17	12	17	2	.	.	3	1	6	8	20	18	104
5.00 - 5.49	19	11	4	.	.	.	.	.	5	1	12	6	58
5.50 - 5.99	2	7	5	.	.	.	.	.	4	.	.	3	21
6.00 - 6.49	.	.	6	.	.	.	.	.	2	.	.	5	13
6.50 - 6.99	.	.	.	.	.	.	.	.	4	.	.	.	4
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	.	2
7.50 - 7.99	.	.	.	.	.	.	.	.	3	.	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 15

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	12	2	3	3	14	62	65	34	18	.	1	6	220
4.0 - 4.9	93	112	80	96	118	171	190	134	58	23	31	79	1185
5.0 - 5.9	251	205	193	201	315	319	253	233	206	127	127	235	2665
6.0 - 6.9	310	374	285	299	373	469	512	394	374	356	313	398	4457
7.0 - 7.9	344	335	395	269	581	734	852	904	740	584	501	473	6712
8.0 - 8.9	454	461	515	465	895	966	1153	1121	638	782	681	565	8696
9.0 - 9.9	514	522	524	516	718	582	608	643	588	732	797	546	7290
10.0 - 10.9	583	479	565	504	326	281	292	315	367	567	547	373	5199
11.0 - 11.9	341	293	365	479	343	299	260	244	313	343	272	312	3864
12.0 - 12.9	353	181	360	450	318	198	170	171	260	337	243	294	3335
13.0 - 13.9	251	191	301	437	192	109	60	107	237	189	223	294	2591
14.0 - 14.9	228	182	311	259	113	68	26	62	193	135	195	303	2075
15.0 - 15.9	187	140	219	152	89	43	11	39	144	115	125	249	1513
16.0 - 16.9	197	209	113	84	42	15	9	20	79	93	104	113	1078
17.0 - 17.9	148	161	80	39	12	4	2	23	48	34	57	77	685
18.0 - 18.9	97	102	63	20	7	.	1	11	26	21	51	60	459
19.0 - 19.9	61	56	48	26	5	.	.	7	21	12	34	34	304
20.0 - LONGER	40	67	44	21	3	.	.	2	10	14	18	53	272
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 15

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	132	169	92	83	13	8	4	4	2	16	91	167	781
11.25 - 33.74 (22.5)	214	179	94	58	64	38	20	37	60	129	190	234	1317
33.75 - 56.24 (45.0)	611	902	969	977	1059	906	462	619	1103	1396	796	1118	11218
56.25 - 78.74 (67.5)	1492	1333	1530	1551	1279	1173	656	971	1770	2037	1862	1607	17261
78.75 - 101.24 (90.0)	1301	1073	1231	1234	1597	1706	2786	2510	1210	823	1259	1020	17750
101.25 - 123.74 (112.5)	47	47	94	122	201	150	299	153	54	20	26	57	1270
123.75 - 146.24 (135.0)	50	62	111	75	120	77	93	76	26	4	22	29	745
146.25 - 168.74 (157.5)	74	64	146	77	69	95	48	59	25	4	16	53	730
168.75 - 191.24 (180.0)	73	74	61	57	39	107	24	25	57	8	17	59	601
191.25 - 213.74 (202.5)	7	13	6	6	6	34	16	6	8	6	3	12	123
213.75 - 236.24 (225.0)	7	10	10	5	2	9	18	3	5	.	1	22	92
236.25 - 258.74 (247.5)	4	11	12	2	2	13	21	1	.	1	1	3	71
258.75 - 281.24 (270.0)	12	9	10	6	8	4	16	.	.	3	1	2	71
281.25 - 303.74 (292.5)	28	28	17	18	3	.	1	.	.	5	2	2	104
303.75 - 326.24 (315.0)	34	21	26	20	1	.	.	.	.	4	8	26	140
326.25 - 348.74 (337.5)	78	77	55	29	1	.	.	.	.	8	25	53	326
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.50 N, LONG: 80.00 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 15 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	46	102	15	2	.	.	.	.	.	.	165
1.00 - 1.99	39	676	159	4	.	.	.	.	.	.	878
2.00 - 2.99	.	103	153	6	.	.	.	.	.	.	262
3.00 - 3.99	.	2	60	22	.	.	.	.	.	.	84
4.00 - 4.99	.	.	4	19	.	.	.	.	.	.	23
5.00 - 5.99	.	.	.	7	2	.	.	.	.	.	9
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	85	883	391	60	2	0	0	0	0	0	1421

STATION: 15 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	79	321	612	1199	1746	1167	568	234	53	7	5986
1.00 - 1.99	31	1081	2086	1939	1868	1653	1112	475	198	29	10472
2.00 - 2.99	.	76	978	785	477	419	286	172	102	13	3308
3.00 - 3.99	.	.	93	374	119	115	81	39	31	8	860
4.00 - 4.99	.	.	4	55	43	17	17	20	19	.	175
5.00 - 5.99	.	.	.	3	18	12	.	2	11	.	46
6.00 - 6.99	.	.	.	.	.	4	.	.	6	.	10
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	110	1478	3773	4355	4271	3387	2064	942	420	57	20857

STATION: 15 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	305	1450	6211	2769	786	281	77	40	16	7	11942
1.00 - 1.99	32	1589	3631	4195	1619	710	303	71	41	8	12199
2.00 - 2.99	.	36	748	867	454	226	109	52	14	1	2507
3.00 - 3.99	.	.	39	137	54	47	27	29	5	.	338
4.00 - 4.99	.	.	1	29	8	5	9	6	.	1	59
5.00 - 5.99	.	.	.	5	1	9	2	1	1	.	19
6.00 - 6.99	.	.	.	.	1	1	.	3	1	1	7
7.00 - 7.99	.	.	.	.	1	.	.	.	3	.	4
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	337	3075	10630	8002	2924	1279	527	202	81	18	27075

STATION: 15 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	229	138	19	.	.	.	.	.	.	.	386
1.00 - 1.99	33	663	86	3	.	.	.	.	.	.	785
2.00 - 2.99	.	29	230	3	.	.	.	.	.	.	262
3.00 - 3.99	.	.	26	15	.	.	.	.	.	.	41
4.00 - 4.99	.	.	1	13	.	.	.	.	.	.	14
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	262	830	362	36	1	0	0	0	0	0	1491

STATION: 15 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	145	158	.	.	.	.	.	.	.	.	303
1.00 - 1.99	26	450	66	2	.	.	.	.	.	.	544
2.00 - 2.99	.	36	137	6	.	.	.	.	.	.	179
3.00 - 3.99	.	1	34	20	.	.	.	.	.	.	55
4.00 - 4.99	.	.	4	6	1	.	.	.	.	.	11
5.00 - 5.99	.	.	1	2	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	171	645	242	36	1	0	0	0	0	0	1095

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.50 N, LONG: 80.00 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 15 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	84										84
1.00 - 1.99	52	29	1								82
2.00 - 2.99		5	3								8
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	136	34	4	0	0	0	0	0	0	0	174

STATION: 15 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	79										79
1.00 - 1.99	66	10									76
2.00 - 2.99											0
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	145	10	0	0	0	0	0	0	0	0	155

STATION: 15 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	55	6	1								62
1.00 - 1.99	104	135	1								240
2.00 - 2.99		26	4								30
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	159	167	6	0	0	0	0	0	0	0	332

STATION: 15 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1022	2175	6858	3970	2532	1448	645	274	69	14	19007
1.00 - 1.99	383	4633	6030	6143	3487	2363	1415	546	239	37	25276
2.00 - 2.99		311	2253	1667	931	645	395	224	116	14	6556
3.00 - 3.99		3	252	568	173	162	108	68	36	8	1378
4.00 - 4.99			14	122	52	22	26	26	19	1	282
5.00 - 5.99			1	19	21	21	2	3	12		79
6.00 - 6.99					1	5		3	7	1	17
7.00 - 7.99					2				3		5
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1405	7122	15408	12489	7199	4666	2591	1144	501	75	52600

STATION: 15

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	341	346	411	509	685	1030	1158	1209	914	670	331	420	8024
2.50 - 4.99	1716	1433	1687	1780	2262	2494	2789	2566	2333	1729	1591	1755	24135
5.00 - 7.49	1059	982	1067	1106	1048	575	425	481	595	975	1175	1056	10544
7.50 - 9.99	993	955	930	760	423	195	77	159	324	899	976	877	7568
10.00 - 12.49	220	262	245	129	46	26	10	24	103	143	177	245	1630
12.50 - 14.99	109	87	104	35			2	21	36	46	66	97	603
15.00 - 17.49	24	7	15	1			2	2	8	2	2	14	77
17.50 - 19.99	2		5				1	2	3		2		15
20.00 - GREATER									4				4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.50 N, LONG: 80.00 W, DEPTH: 55 M

STATION: 15

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	783	532	469	386	167	110	85	115	173	595	650	686	4751
22.50 - 67.49 (45.0)	739	639	609	504	624	407	197	322	962	1505	1131	1033	8672
67.50 - 112.49 (90.0)	690	704	811	993	1256	918	871	1479	1672	1198	1108	867	12567
112.50 - 157.49 (135.0)	532	558	810	753	1114	1052	1364	1062	646	361	562	529	9343
157.50 - 202.49 (180.0)	466	454	628	497	556	880	977	722	407	200	253	349	6389
202.50 - 247.49 (225.0)	256	281	346	350	351	686	642	453	235	150	144	225	4119
247.50 - 292.49 (270.0)	333	368	331	401	254	203	250	162	130	161	172	279	3044
292.50 - 337.49 (315.0)	665	536	460	436	142	64	78	149	95	294	300	496	3715
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 15

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.74	1.51	1.33	1.38	1.02	0.86	0.51	1.19	1.02	2.01	1.49	1.82	1.32
1977	1.52	1.26	1.44	1.66	1.10	0.50	0.70	1.09	0.88	1.35	2.04	1.67	1.27
1978	1.67	1.85	1.50	1.21	1.01	0.92	0.78	0.81	1.21	2.12	1.69	1.86	1.38
1979	2.17	1.77	1.82	1.70	1.42	1.14	0.83	0.79	1.62	1.42	2.12	1.78	1.54
1980	1.59	1.88	1.69	1.36	0.97	0.96	0.75	1.06	1.09	1.46	2.04	1.92	1.39
1981	1.26	2.27	2.16	1.32	1.05	0.81	0.77	0.94	1.47	1.52	1.57	1.21	1.36
1982	1.19	1.35	1.43	1.21	1.15	0.88	0.56	0.72	1.00	1.73	1.78	1.51	1.21
1983	1.47	2.00	1.37	1.36	1.23	0.89	0.67	0.72	1.27	1.70	1.46	1.81	1.32
1984	2.30	1.57	1.51	1.24	1.19	0.79	0.82	0.69	1.62	1.83	2.21	1.58	1.45
1985	1.22	1.70	1.43	1.44	0.82	0.70	0.74	0.93	1.96	1.42	2.01	1.52	1.32
1986	1.63	1.44	1.78	1.32	1.47	0.80	0.56	0.98	1.37	1.50	1.76	1.78	1.37
1987	1.85	1.31	2.14	1.32	1.31	0.82	0.73	0.77	0.87	1.81	1.77	1.23	1.33
1988	1.79	1.45	1.26	1.19	1.13	1.03	0.86	0.76	1.20	1.43	1.23	1.15	1.21
1989	1.36	1.19	1.48	1.15	0.86	0.77	0.72	0.97	1.73	1.59	1.25	1.14	1.18
1990	1.31	1.60	1.56	1.75	1.07	0.88	0.90	0.82	1.21	1.52	1.42	1.79	1.32
1991	1.21	1.41	1.19	1.31	1.12	1.02	0.62	0.74	1.24	1.74	1.53	1.31	1.20
1992	1.30	1.21	1.33	1.36	1.11	0.72	0.69	0.97	1.06	1.48	1.89	1.59	1.23
1993	1.91	1.45	1.83	1.47	1.22	0.89	0.63	0.99	1.02	1.32	1.84	1.60	1.35
MEAN	1.58	1.57	1.57	1.38	1.13	0.86	0.71	0.89	1.27	1.61	1.73	1.57	

STATION: 15

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3910 3	3811 8	35 8 4	33 8 1	29 714	17 613	9 514	4314 9	2314 7	4611 4	37 8 2	41 9 3	4611 4
1977	30 7 1	28 8 4	34 9 6	39 9 7	27 8 8	14 517	12 8 6	26 8 9	21 7 8	29 9 6	40 9 0	3815 5	40 9 0
1978	34 818	4020 6	36 814	22 711	31 917	28 8 7	18 6 9	17 9 9	2412 5	5311 5	33 836	6414 7	6414 7
1979	531013	33 7 5	4310 8	491013	25 8 4	27 8 7	26 712	14 5 9	7911 9	32 8 9	4110 5	38 9 5	7911 9
1980	4118 6	4519 6	3414 5	32 814	1915 6	20 8 4	17 6 9	38 813	2012 9	2812 5	5219 6	4011 5	5219 6
1981	37 9 1	5614 8	6420 6	30 8 6	2010 9	20 7 5	14 7 5	37 817	3917 9	33 7 1	3410 7	23 8 4	6420 6
1982	2517 6	2210 8	3411 8	38 917	22 8 6	23 714	16 613	16 612	1511 5	4416 6	3715 7	26 712	4416 6
1983	38 8 7	5217 6	571018	34 917	20 710	15 618	17 610	43 9 2	35 9 5	3513 5	32 9 5	5310 2	571018
1984	5612 3	34 814	38 918	2615 7	28 817	20 7 1	15 516	23 614	5610 9	3512 8	5413 4	30 8 7	5610 9
1985	33 735	36 9 7	41 9 7	39 9 8	19 8 5	18 714	48 935	29 818	6818 9	3610 5	5010 9	42 9 3	6818 9
1986	5010 5	31 935	39 9 1	3116 6	3215 6	21 7 6	11 516	21 6 8	2613 7	4610 5	40 9 5	48 9 9	5010 5
1987	5510 2	27 810	4510 8	2512 5	2512 5	21 812	15 512	1915 5	1316 6	29 7 7	30 8 4	31 8 3	5510 2
1988	4216 7	27 6 1	21 8 9	24 711	1913 5	27 8 5	22 8 7	27 7 8	28 813	23 8 3	45 918	3617 6	45 918
1989	4011 4	2910 5	47 936	20 8 5	20 612	14 617	12 8 9	2010 9	7820 9	36 9 4	2313 7	2815 5	7820 9
1990	2317 6	29 8 6	3310 5	3111 7	18 613	1510 9	1710 7	1212 5	2012 7	3611 8	32 8 4	32 8 5	3611 8
1991	25 7 9	2811 8	30 7 9	30 9 8	30 711	25 9 4	11 517	22 9 6	4317 9	3012 6	3015 5	35 9 5	4317 9
1992	2911 8	3110 6	26 810	3310 4	20 9 5	14 617	11 513	48 9 9	19 9 5	27 7 7	3512 9	3014 5	48 9 9
1993	541036	29 9 4	52 918	28 714	1812 5	18 6 9	10 7 7	3614 9	2913 5	33 818	3412 4	38 9 5	541036
MAX	5612 3	5614 8	6420 6	491013	3215 6	28 8 7	48 935	48 9 9	7911 9	5311 5	5413 4	6414 7	

MAX Hmo(m): 7.9 MAX Tp(sec): 11. MAX Dp(deg): 94. DATE(gmt): 79090318

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 85. DATE(gmt): 79090318

MEAN Hmo(m): 1.3 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.75 N, LONG: 80.00 W, DEPTH: 45 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 16

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	16	17	20	38	122	190	389	283	70	7	19	43	1214
0.50 - 0.99	770	742	795	986	1630	2842	3409	2769	1360	620	500	798	17221
1.00 - 1.49	1409	1293	1534	1616	1790	954	564	1022	1723	1460	1199	1574	16138
1.50 - 1.99	1096	1066	993	1053	710	249	70	246	638	1213	1190	897	9421
2.00 - 2.49	644	434	547	387	138	66	21	67	276	652	735	557	4524
2.50 - 2.99	258	270	320	148	59	19	5	33	119	303	415	289	2238
3.00 - 3.49	109	136	129	68	15	.	1	21	58	111	151	168	967
3.50 - 3.99	86	55	59	13	.	.	1	14	30	60	55	87	460
4.00 - 4.49	41	25	34	8	.	.	2	6	17	25	26	21	205
4.50 - 4.99	17	15	14	3	.	.	1	2	11	12	12	10	97
5.00 - 5.49	16	12	8	.	.	.	1	1	3	1	15	12	69
5.50 - 5.99	2	7	5	.	.	.	.	.	3	.	3	2	22
6.00 - 6.49	.	.	4	.	.	.	.	.	2	.	.	2	8
6.50 - 6.99	.	.	2	.	.	.	.	.	7	.	.	4	13
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	3	.	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 16

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	14	2	1	.	8	34	56	19	15	.	1	5	155
4.0 - 4.9	79	87	73	79	102	131	155	120	61	26	29	74	1016
5.0 - 5.9	291	225	188	231	297	300	201	223	199	134	134	253	2676
6.0 - 6.9	507	373	293	294	373	441	498	385	385	353	307	388	4397
7.0 - 7.9	507	359	440	298	624	829	910	1042	752	640	523	515	7297
8.0 - 8.9	365	510	535	508	926	1052	1322	1142	635	809	724	560	9175
9.0 - 9.9	452	500	506	496	694	561	607	588	569	701	753	518	6990
10.0 - 10.9	497	474	524	470	328	275	256	290	364	535	545	378	5049
11.0 - 11.9	610	286	361	473	334	276	222	234	295	335	255	307	3696
12.0 - 12.9	318	172	360	425	313	181	140	138	258	324	248	284	3170
13.0 - 13.9	327	185	310	446	191	110	49	108	233	193	206	299	2585
14.0 - 14.9	255	178	316	261	119	65	25	68	206	132	197	294	2093
15.0 - 15.9	232	134	221	150	89	46	12	39	154	113	124	248	1515
16.0 - 16.9	185	210	103	80	37	15	8	25	87	82	109	126	1079
17.0 - 17.9	197	151	79	42	13	4	2	23	46	37	60	69	664
18.0 - 18.9	138	101	64	21	7	.	1	13	27	24	47	60	462
19.0 - 19.9	97	55	48	24	5	.	.	6	14	11	38	34	296
20.0 - LONGER	61	70	42	22	4	.	.	1	20	15	20	52	285
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 16

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	155	193	115	94	13	8	.	4	4	22	115	183	906
11.25 - 33.74 (22.5)	193	162	90	57	66	32	20	32	74	171	192	247	1336
33.75 - 56.24 (45.0)	834	817	918	897	980	778	368	512	995	1248	715	1009	10071
56.25 - 78.74 (67.5)	1459	1318	1506	1531	1245	1121	603	884	1755	2031	1820	1577	16850
78.75 - 101.24 (90.0)	1296	1109	1240	1263	1648	1746	2548	2532	1233	899	1323	1054	17891
101.25 - 123.74 (112.5)	77	56	124	154	259	319	709	340	134	47	33	77	2329
123.75 - 146.24 (135.0)	52	64	89	70	125	77	69	63	24	3	22	27	685
146.25 - 168.74 (157.5)	76	62	165	86	66	82	49	58	31	5	21	52	753
168.75 - 191.24 (180.0)	84	92	66	66	40	93	26	30	56	10	19	73	655
191.25 - 213.74 (202.5)	7	12	5	5	6	42	18	6	10	4	4	12	131
213.75 - 236.24 (225.0)	7	7	8	4	2	9	17	1	4	.	1	20	80
236.25 - 258.74 (247.5)	8	10	7	4	2	7	23	2	.	1	1	3	68
258.75 - 281.24 (270.0)	13	10	15	4	6	6	11	.	.	3	1	3	72
281.25 - 303.74 (292.5)	30	30	19	23	5	.	2	.	.	6	1	11	127
303.75 - 326.24 (315.0)	84	45	52	35	1	.	.	.	.	5	14	57	293
326.25 - 348.74 (337.5)	89	85	45	27	.	.	1	.	.	9	38	59	353
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.75 N LONG: 80.00 W DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 16 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	40	93	27	1	.	.	.	.	.	.	161
1.00 - 1.99	25	566	318	6	1	.	.	.	.	.	916
2.00 - 2.99	.	111	250	20	.	.	.	.	.	.	381
3.00 - 3.99	.	.	61	38	.	.	.	.	.	.	99
4.00 - 4.99	.	.	5	19	1	.	.	.	.	.	25
5.00 - 5.99	.	.	.	11	5	.	.	.	.	.	16
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	65	770	661	95	7	0	0	0	0	0	1598

STATION: 16 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	70	249	468	953	1506	1077	513	208	51	8	5103
1.00 - 1.99	34	1025	2047	1737	1685	1585	1066	459	182	32	9852
2.00 - 2.99	.	72	989	711	443	397	287	172	109	13	3193
3.00 - 3.99	.	.	96	379	116	123	87	37	27	8	873
4.00 - 4.99	.	.	5	49	56	13	21	22	24	.	190
5.00 - 5.99	.	.	.	5	14	21	.	2	13	.	55
6.00 - 6.99	.	.	.	.	.	5	.	.	6	.	11
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	104	1346	3605	3834	3820	3221	1974	900	412	61	19277

STATION: 16 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	233	1315	6667	2831	806	299	89	45	14	7	12306
1.00 - 1.99	32	1571	4002	4204	1680	847	356	87	37	9	12825
2.00 - 2.99	.	39	786	851	476	253	131	47	24	1	2608
3.00 - 3.99	.	.	32	131	64	43	28	35	10	.	343
4.00 - 4.99	.	.	.	28	9	5	14	6	1	1	64
5.00 - 5.99	.	.	.	1	1	9	1	2	.	1	15
6.00 - 6.99	.	.	.	1	1	1	1	4	1	.	9
7.00 - 7.99	.	.	.	.	1	.	.	.	2	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	265	2925	11487	8047	3038	1457	620	226	89	19	28173

STATION: 16 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	165	172	65	.	.	.	.	.	.	.	402
1.00 - 1.99	35	695	90	1	.	.	.	.	.	.	821
2.00 - 2.99	.	36	220	1	.	.	.	.	.	.	257
3.00 - 3.99	.	.	34	8	.	.	.	.	.	.	42
4.00 - 4.99	.	.	2	12	.	.	.	.	.	.	14
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	200	903	411	24	0	0	0	0	0	0	1538

STATION: 16 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	121	144	1	.	.	.	.	.	.	.	266
1.00 - 1.99	32	479	84	2	.	.	.	.	.	.	597
2.00 - 2.99	.	37	166	6	.	.	.	.	.	.	209
3.00 - 3.99	.	.	41	21	.	.	.	.	.	.	62
4.00 - 4.99	.	.	3	6	.	.	.	.	.	.	9
5.00 - 5.99	.	.	1	2	1	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	153	660	296	37	1	0	0	0	0	0	1147

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.75 N, LONG: 80.00 W, DEPTH: 45 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 16 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	78	.	.	.	.	.	.	.	.	.	78
1.00 - 1.99	63	18	.	.	.	.	.	.	.	.	81
2.00 - 2.99	.	6	4	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	141	24	4	0	0	0	0	0	0	0	169

STATION: 16 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	71	.	.	.	.	.	.	.	.	.	71
1.00 - 1.99	69	12	.	.	.	.	.	.	.	.	81
2.00 - 2.99	.	3	.	.	.	.	.	.	.	.	3
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	140	15	0	0	0	0	0	0	0	0	155

STATION: 16 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	43	5	.	.	.	.	.	.	.	.	48
1.00 - 1.99	60	326	.	.	.	.	.	.	.	.	386
2.00 - 2.99	.	98	2	1	.	.	.	.	.	.	101
3.00 - 3.99	.	1	6	1	.	.	.	.	.	.	8
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	103	430	8	2	0	0	0	0	0	0	543

STATION: 16 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	821	1978	7228	3785	2312	1376	602	253	65	15	18435
1.00 - 1.99	350	4692	6541	5950	3366	2432	1422	546	219	41	25559
2.00 - 2.99	.	402	2417	1590	919	650	418	219	133	14	6762
3.00 - 3.99	.	1	270	578	180	166	115	72	37	8	1427
4.00 - 4.99	.	.	15	114	66	18	35	28	25	1	302
5.00 - 5.99	.	.	1	20	21	30	1	4	13	1	91
6.00 - 6.99	.	.	.	2	1	6	1	4	7	.	21
7.00 - 7.99	.	.	.	.	1	.	.	.	2	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1171	7073	16472	12039	6866	4678	2594	1126	501	80	52600

STATION: 16

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	336	342	426	502	689	1033	1155	1199	919	639	346	436	8022
2.50 - 4.99	1699	1424	1676	1774	2279	2471	2785	2586	2334	1746	1575	1759	24108
5.00 - 7.49	1065	972	1049	1121	1047	590	432	475	593	994	1194	1033	10565
7.50 - 9.99	985	968	930	754	405	203	77	149	316	879	946	863	7475
10.00 - 12.49	233	265	249	132	44	23	10	32	104	153	184	253	1682
12.50 - 14.99	120	92	110	36	.	.	2	17	39	51	71	104	642
15.00 - 17.49	22	9	17	1	.	.	1	5	6	2	1	16	80
17.50 - 19.99	4	.	7	.	.	.	2	1	4	.	3	.	21
20.00 - GREATER	.	.	.	.	.	.	.	.	5	.	.	.	5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 27.75 N, LONG: 80.00 W, DEPTH: 45 M

STATION: 16

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	771	528	462	376	169	110	82	115	177	598	663	696	4747
22.50 - 67.49 (45.0)	724	628	591	480	618	413	189	325	962	1480	1098	1004	8512
67.50 - 112.49 (90.0)	644	677	771	967	1194	860	760	1396	1637	1197	1076	809	11988
112.50 - 157.49 (135.0)	510	545	791	727	1095	991	1276	1019	637	356	556	532	9035
157.50 - 202.49 (180.0)	478	465	648	516	598	917	1080	766	422	199	269	366	6724
202.50 - 247.49 (225.0)	280	289	366	381	370	751	718	512	245	163	159	234	4468
247.50 - 292.49 (270.0)	367	400	357	432	274	217	285	178	140	171	182	300	3303
292.50 - 337.49 (315.0)	690	540	478	441	146	61	74	153	100	300	317	523	3823
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 16

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.77	1.53	1.36	1.41	1.04	0.90	0.53	1.21	1.03	2.01	1.49	1.86	1.34
1977	1.58	1.28	1.45	1.64	1.10	0.54	0.71	1.09	0.90	1.37	2.06	1.70	1.28
1978	1.72	1.92	1.52	1.22	1.02	0.94	0.80	0.84	1.22	2.13	1.70	1.88	1.41
1979	2.19	1.82	1.81	1.71	1.43	1.16	0.86	0.81	1.64	1.42	2.12	1.79	1.56
1980	1.65	1.93	1.73	1.39	1.00	0.97	0.78	1.06	1.10	1.48	2.08	1.94	1.42
1981	1.28	2.30	2.20	1.33	1.08	0.83	0.79	0.95	1.47	1.54	1.59	1.25	1.38
1982	1.21	1.39	1.44	1.23	1.14	0.90	0.59	0.74	1.02	1.76	1.78	1.52	1.22
1983	1.50	2.01	1.40	1.37	1.22	0.92	0.70	0.77	1.28	1.70	1.49	1.85	1.35
1984	2.32	1.58	1.52	1.26	1.20	0.80	0.83	0.70	1.67	1.82	2.22	1.57	1.46
1985	1.29	1.70	1.43	1.44	0.84	0.71	0.77	0.94	1.98	1.44	2.02	1.53	1.34
1986	1.66	1.46	1.81	1.33	1.47	0.82	0.58	0.99	1.37	1.50	1.76	1.80	1.38
1987	1.92	1.34	2.15	1.36	1.32	0.85	0.75	0.79	0.88	1.82	1.75	1.25	1.35
1988	1.80	1.45	1.28	1.19	1.13	1.03	0.89	0.77	1.20	1.44	1.55	1.15	1.22
1989	1.38	1.22	1.50	1.17	0.88	0.79	0.74	0.99	1.81	1.61	1.26	1.19	1.21
1990	1.34	1.63	1.55	1.76	1.09	0.90	0.93	0.86	1.21	1.54	1.42	1.79	1.33
1991	1.25	1.44	1.23	1.33	1.12	1.06	0.66	0.75	1.29	1.75	1.55	1.32	1.23
1992	1.34	1.24	1.35	1.39	1.11	0.74	0.71	0.98	1.07	1.49	1.89	1.63	1.24
1993	1.94	1.48	1.85	1.49	1.22	0.91	0.66	1.01	1.03	1.35	1.87	1.61	1.37
MEAN	1.62	1.59	1.59	1.39	1.13	0.88	0.74	0.90	1.29	1.62	1.74	1.59	

STATION: 16

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4010 2	3611 9	35 8 4	36 8 1	29 714	18 613	9 514	4514 9	2414 7	4711 4	38 8 1	41 9 2	4711 4
1977	32 9 0	28 8 4	32 9 6	37 9 8	27 8 8	14 517	12 8 6	26 8 9	20 7 8	30 9 7	40 9 0	3915 5	40 9 0
1978	34 818	4110 4	36 815	23 632	32 917	27 8 7	17 6 9	17 9 9	2512 6	5411 5	34 8 4	6614 6	6614 6
1979	521012	3312 6	41 913	491013	25 8 4	26 8 8	26 712	14 5 9	751111	33 8 9	41 9 4	38 9 5	751111
1980	4318 6	4719 6	3514 6	33 716	1915 6	20 8 4	17 6 9	36 813	1915 6	3012 5	5319 6	4211 4	5319 6
1981	37 9 1	5614 7	6520 6	30 8 6	2010 9	20 7 5	14 7 5	37 817	3616 9	36 9 3	3417 6	27 632	6520 6
1982	2517 6	2210 8	3411 8	39 917	22 9 6	22 714	16 613	15 612	16 9 9	4516 6	3815 7	25 712	4516 6
1983	38 8 7	5317 6	561019	34 917	20 710	15 618	16 610	50 9 0	35 9 5	3513 5	3112 7	5310 2	561019
1984	5412 3	34 813	40 918	2615 7	29 818	20 7 1	16 516	23 614	52 9 9	3512 8	5714 4	29 8 7	5714 4
1985	36 836	35 9 8	41 9 7	37 9 8	20 8 5	17 616	5010 6	31 818	6917 9	4210 5	4510 9	41 9 2	6917 9
1986	5110 5	32 835	4011 3	3216 6	3214 5	22 7 6	11 416	21 6 8	26 7 8	4611 5	42 9 5	46 9 9	5110 5
1987	5510 2	28 9 7	4210 8	2811 7	2512 5	20 811	14 6 9	1915 5	1315 5	33 7 6	30 8 4	31 8 3	5510 2
1988	4315 7	27 7 2	21 8 9	24 612	1913 5	26 8 6	22 8 7	28 7 9	27 713	25 8 2	49 918	3717 6	49 918
1989	4511 4	3010 6	51 9 0	21 9 6	20 613	15 517	12 8 9	1910 9	7619 9	37 8 3	2312 7	3115 6	7619 9
1990	23 635	28 8 6	3310 5	3111 8	18 612	1510 9	1710 7	141510	2013 7	3711 9	32 8 4	31 8 5	3711 9
1991	25 7 8	2811 8	29 7 9	30 9 8	29 711	26 9 4	11 517	2310 6	4517 9	3112 7	3015 5	34 9 5	4517 9
1992	3011 8	3110 6	26 810	3311 4	20 9 5	14 617	11 513	43 9 9	19 9 5	27 715	3512 9	3014 5	43 9 9
1993	561035	29 9 4	51 918	28 714	1912 5	18 617	10 7 7	3714 9	2913 5	33 818	3612 4	38 9 5	561035
MAX	561035	5614 7	6520 6	491013	3214 5	27 8 7	5010 6	50 9 0	7619 9	5411 5	5714 4	6614 6	

MAX Hmo(m): 7.6 MAX Tp(sec): 19. MAX Dp(deg): 90. DATE(gmt): 89090812

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 115. DATE(gmt): 79090321

MEAN Hmo(m): 1.3 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.00 N, LONG: 80.25 W, DEPTH: 24 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 17

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	26	26	41	71	170	291	488	359	90	7	37	73	1679
0.50 - 0.99	969	964	1048	1209	1898	2916	3473	2914	1571	726	596	1029	19313
1.00 - 1.49	1573	1418	1604	1640	1684	838	422	845	1595	1562	1353	1614	16148
1.50 - 1.99	1000	889	892	945	564	219	50	227	584	1206	1105	775	8456
2.00 - 2.49	469	343	473	290	97	51	21	55	274	579	698	487	3837
2.50 - 2.99	201	238	223	113	36	5	4	29	93	220	328	243	1733
3.00 - 3.49	91	94	94	38	15	.	1	26	55	91	109	133	747
3.50 - 3.99	73	49	50	11	.	.	2	5	20	42	54	65	371
4.00 - 4.49	39	19	15	3	.	.	5	2	17	25	11	19	152
4.50 - 4.99	18	15	10	.	.	.	1	2	6	5	8	16	81
5.00 - 5.49	5	11	2	.	.	.	.	.	2	1	16	2	39
5.50 - 5.99	.	6	3	.	.	.	.	.	2	.	5	3	19
6.00 - 6.49	.	.	5	.	.	.	.	.	3	.	.	5	13
6.50 - 6.99	.	.	4	.	.	.	.	.	3	.	.	.	7
7.00 - 7.49	.	.	.	.	.	.	.	.	4	.	.	.	4
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 17

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	19	2	6	10	14	70	76	36	28	.	4	14	279
4.0 - 4.9	180	184	126	125	121	123	123	137	57	44	55	146	1421
5.0 - 5.9	196	192	170	185	273	212	176	224	196	154	123	220	2321
6.0 - 6.9	208	273	216	218	323	479	566	490	450	397	290	320	4230
7.0 - 7.9	306	285	393	274	627	831	976	1024	732	625	515	406	6994
8.0 - 8.9	374	437	490	443	836	1026	1234	1037	529	699	613	502	8220
9.0 - 9.9	480	460	454	485	680	543	578	558	511	625	720	487	6581
10.0 - 10.9	650	505	517	439	356	289	262	286	355	542	547	360	5108
11.0 - 11.9	334	313	398	505	344	282	219	206	317	360	300	327	3905
12.0 - 12.9	355	192	366	437	336	201	144	165	275	334	253	318	3376
13.0 - 13.9	295	212	349	500	235	118	59	105	256	217	241	342	2929
14.0 - 14.9	268	196	342	295	130	69	26	80	227	142	205	335	2315
15.0 - 15.9	223	155	256	177	107	51	13	42	162	126	135	280	1727
16.0 - 16.9	200	238	130	102	46	19	6	26	96	99	125	154	1241
17.0 - 17.9	158	174	87	52	18	7	5	25	58	45	76	82	787
18.0 - 18.9	103	111	63	21	8	.	1	13	27	25	49	69	490
19.0 - 19.9	71	67	49	27	5	.	.	8	17	14	44	41	343
20.0 - LONGER	44	76	52	25	5	.	.	2	27	16	25	61	333
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 17

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	103	138	76	62	12	3	1	1	1	18	84	123	622
11.25 - 33.74 (22.5)	114	108	49	55	34	15	9	14	26	92	123	185	824
33.75 - 56.24 (45.0)	560	554	343	446	626	471	225	318	684	845	514	611	6197
56.25 - 78.74 (67.5)	1983	1788	2230	2137	1680	1426	725	1086	2128	2510	2135	2227	22055
78.75 - 101.24 (90.0)	1344	1142	1321	1294	1747	1935	2945	2695	1353	935	1359	1059	19129
101.25 - 123.74 (112.5)	61	65	130	138	224	274	406	252	73	30	38	55	1746
123.75 - 146.24 (135.0)	65	55	130	56	80	62	45	46	20	3	13	27	602
146.25 - 168.74 (157.5)	21	27	27	20	20	12	16	15	2	3	2	11	176
168.75 - 191.24 (180.0)	17	13	15	13	8	23	5	22	19	3	3	23	164
191.25 - 213.74 (202.5)	9	19	8	15	10	35	22	9	8	1	4	11	151
213.75 - 236.24 (225.0)	11	16	15	6	5	41	18	3	6	2	1	27	151
236.25 - 258.74 (247.5)	11	7	7	3	2	15	29	3	.	2	4	10	93
258.75 - 281.24 (270.0)	17	17	16	8	9	8	17	.	.	4	1	6	103
281.25 - 303.74 (292.5)	41	36	17	22	7	.	1	.	.	5	3	12	144
303.75 - 326.24 (315.0)	48	32	35	27	.	.	.	.	.	6	14	35	197
326.25 - 348.74 (337.5)	59	55	45	18	.	.	.	.	.	5	22	42	246
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.00 N, LONG: 80.25 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 17 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	52	60	3	.	.	.	.	.	.	.	115
1.00 - 1.99	80	514	77	.	.	.	.	.	.	.	671
2.00 - 2.99	.	80	153	4	.	.	.	.	.	.	237
3.00 - 3.99	.	1	44	15	.	.	.	.	.	.	60
4.00 - 4.99	.	.	5	10	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	132	655	282	31	0	0	0	0	0	0	1100

STATION: 17 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	94	323	462	923	1653	1338	643	275	82	15	5808
1.00 - 1.99	32	1213	1818	1541	1653	1643	1233	528	210	28	9899
2.00 - 2.99	.	78	815	618	379	391	285	156	114	11	2847
3.00 - 3.99	.	.	65	296	100	101	101	37	23	10	733
4.00 - 4.99	.	.	.	27	53	22	17	19	29	.	167
5.00 - 5.99	.	.	.	1	4	24	1	1	13	.	44
6.00 - 6.99	.	.	.	.	.	3	.	.	9	.	12
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	126	1614	3160	3406	3842	3522	2280	1016	480	64	19510

STATION: 17 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	245	1793	7104	3411	1128	406	114	68	21	9	14299
1.00 - 1.99	30	1649	3619	4015	1837	1000	396	111	43	11	12711
2.00 - 2.99	.	36	676	659	411	267	134	40	19	3	2245
3.00 - 3.99	.	.	26	121	49	31	30	33	18	.	308
4.00 - 4.99	.	.	.	11	10	7	11	5	3	1	48
5.00 - 5.99	.	.	.	1	.	9	2	.	.	.	12
6.00 - 6.99	.	.	.	.	1	2	1	2	1	1	8
7.00 - 7.99	.	.	.	.	1	.	.	2	2	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	275	3478	11425	8218	3437	1722	688	261	107	25	29636

STATION: 17 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	160	145	24	.	.	.	.	.	.	.	329
1.00 - 1.99	38	461	133	20	.	.	.	.	.	.	652
2.00 - 2.99	.	28	165	11	2	.	.	.	.	.	206
3.00 - 3.99	.	.	15	2	.	.	.	.	.	.	17
4.00 - 4.99	.	.	2	1	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	198	634	339	34	2	0	0	0	0	0	1207

STATION: 17 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	131	.	.	.	.	.	.	.	.	.	131
1.00 - 1.99	112	29	.	.	.	.	.	.	.	.	141
2.00 - 2.99	.	1	.	.	.	.	.	.	.	.	1
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	243	30	0	0	0	0	0	0	0	0	273

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.00 N, LONG: 80.25 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 17 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	134	.	.	.	.	.	.	.	.	.	134
1.00 - 1.99	103	22	.	.	.	.	.	.	.	.	125
2.00 - 2.99	.	7	1	.	.	.	.	.	.	.	8
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	237	29	1	0	0	0	0	0	0	0	267

STATION: 17 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	106	.	.	.	.	.	.	.	.	.	106
1.00 - 1.99	93	12	.	.	.	.	.	.	.	.	105
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	199	14	0	0	0	0	0	0	0	0	213

STATION: 17 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	69	.	1	.	.	.	.	.	.	.	70
1.00 - 1.99	221	73	6	.	.	.	.	.	.	.	300
2.00 - 2.99	.	24	.	.	.	.	.	.	.	.	24
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	290	97	7	0	0	0	0	0	0	0	394

STATION: 17 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	991	2321	7594	4334	2781	1744	757	343	103	24	20992
1.00 - 1.99	709	3973	5653	5576	3490	2643	1629	639	253	39	24604
2.00 - 2.99	.	256	1810	1292	792	658	419	196	133	14	5570
3.00 - 3.99	.	1	150	434	149	132	131	70	41	10	1118
4.00 - 4.99	.	.	7	49	63	29	28	24	32	1	233
5.00 - 5.99	.	.	.	4	4	33	3	1	13	.	58
6.00 - 6.99	.	.	.	.	1	5	1	2	10	1	20
7.00 - 7.99	.	.	.	.	1	.	.	2	2	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1700	6551	15214	11689	7281	5244	2968	1277	587	89	52600

STATION: 17

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	320	331	412	492	685	1062	1213	1225	925	603	344	430	8042
2.50 - 4.99	1705	1445	1709	1810	2345	2450	2759	2584	2358	1807	1604	1789	24365
5.00 - 7.49	1058	967	1042	1122	1021	596	402	462	556	1005	1211	1031	10473
7.50 - 9.99	989	956	924	738	371	195	74	144	314	852	903	840	7300
10.00 - 12.49	246	263	248	124	41	17	10	25	113	136	184	252	1659
12.50 - 14.99	121	99	102	33	1	.	3	20	38	57	69	100	643
15.00 - 17.49	21	11	20	1	.	.	3	3	8	4	3	21	95
17.50 - 19.99	4	.	7	.	.	.	.	1	5	.	1	1	19
20.00 - GREATER	.	.	.	.	.	.	.	.	3	.	1	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.00 N, LONG: 80.25 W, DEPTH: 24 M

STATION: 17

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	760	536	467	372	182	110	73	116	179	596	660	692	4743
22.50 - 67.49 (45.0)	723	629	570	463	593	411	181	321	969	1451	1082	996	8389
67.50 - 112.49 (90.0)	630	652	742	934	1156	834	691	1334	1615	1213	1062	785	11648
112.50 - 157.49 (135.0)	496	539	780	725	1099	925	1220	983	639	342	559	511	8818
157.50 - 202.49 (180.0)	485	461	666	524	582	903	1086	778	418	193	272	381	6749
202.50 - 247.49 (225.0)	281	304	380	391	405	803	798	558	249	176	167	247	4759
247.50 - 292.49 (270.0)	379	406	383	466	299	276	336	210	155	184	184	315	3593
292.50 - 337.49 (315.0)	710	545	476	445	148	58	79	164	96	309	334	537	3901
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 17

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.66	1.40	1.26	1.35	0.95	0.87	0.51	1.16	1.01	1.90	1.41	1.73	1.27
1977	1.46	1.20	1.38	1.50	1.03	0.50	0.67	1.04	0.88	1.32	1.94	1.61	1.21
1978	1.54	1.83	1.41	1.10	0.92	0.90	0.75	0.82	1.18	2.04	1.59	1.78	1.32
1979	2.01	1.71	1.68	1.59	1.34	1.12	0.83	0.79	1.53	1.36	1.99	1.68	1.47
1980	1.57	1.83	1.65	1.31	0.96	0.93	0.75	1.02	1.07	1.44	2.04	1.86	1.37
1981	1.19	2.19	2.11	1.26	1.02	0.79	0.75	0.87	1.40	1.45	1.51	1.09	1.30
1982	1.13	1.31	1.32	1.14	1.06	0.79	0.56	0.69	0.98	1.70	1.70	1.42	1.15
1983	1.39	1.86	1.21	1.21	1.14	0.87	0.68	0.73	1.20	1.64	1.40	1.71	1.25
1984	2.18	1.47	1.39	1.17	1.07	0.75	0.78	0.66	1.58	1.70	2.11	1.48	1.36
1985	1.18	1.55	1.33	1.37	0.81	0.67	0.74	0.88	1.87	1.40	1.91	1.43	1.26
1986	1.54	1.35	1.64	1.26	1.42	0.79	0.56	0.90	1.31	1.43	1.67	1.69	1.30
1987	1.82	1.25	2.02	1.26	1.25	0.80	0.71	0.76	0.84	1.72	1.61	1.15	1.27
1988	1.67	1.30	1.14	1.09	1.05	0.94	0.83	0.72	1.10	1.36	1.15	1.08	1.12
1989	1.29	1.10	1.37	1.09	0.83	0.73	0.71	0.96	1.79	1.52	1.19	1.09	1.14
1990	1.23	1.47	1.42	1.65	0.99	0.84	0.87	0.84	1.15	1.45	1.32	1.67	1.24
1991	1.12	1.30	1.05	1.24	1.05	1.02	0.63	0.70	1.26	1.67	1.46	1.24	1.14
1992	1.21	1.13	1.22	1.26	1.05	0.66	0.62	0.90	1.03	1.39	1.76	1.53	1.15
1993	1.79	1.33	1.70	1.37	1.15	0.86	0.63	0.95	0.97	1.26	1.77	1.46	1.27
MEAN	1.50	1.48	1.46	1.29	1.06	0.82	0.70	0.86	1.23	1.54	1.64	1.48	

STATION: 17

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3810 5	3411 9	32 8 5	35 8 1	27 713	17 613	9 415	4314 8	2415 7	4512 5	36 8 2	38 9 3	4512 5
1977	31 8 2	27 8 4	28 8 6	34 9 8	26 8 8	12 425	12 8 6	25 8 8	20 7 8	29 9 7	35 9 2	3815 6	3815 6
1978	2913 9	4120 6	30 835	20 710	24 714	25 8 7	16 6 9	16 9 9	2513 7	5011 5	33 8 4	6414 7	6414 7
1979	4510 4	3313 6	3610 8	44 911	25 8 4	23 8 8	25 711	1315 9	721210	31 8 9	39 9 5	3610 5	721210
1980	4818 6	4919 6	3616 6	29 715	1915 6	19 8 4	17 6 9	35 812	1812 9	2812 5	5619 6	4111 5	5619 6
1981	33 9 2	5514 7	6820 6	28 8 6	20 613	19 7 6	13 7 5	32 813	3416 9	34 9 3	3617 6	23 9 5	6820 6
1982	20 9 6	2110 8	3211 8	24 911	21 9 7	22 712	14 613	14 612	15 9 9	4516 6	3815 7	24 8 9	4516 6
1983	36 8 7	5117 6	281112	29 8 1	21 6 8	14 6 6	15 610	4510 4	34 9 5	3413 6	2914 7	4913 4	5117 6
1984	4812 4	33 812	27 910	2515 7	22 7 5	19 7 2	12 417	22 614	44 912	3212 8	5814 5	28 8 7	5814 5
1985	35 8 0	32 9 8	37 9 7	34 9 8	19 8 4	16 616	451010	19 712	7217 8	4211 7	3910 9	36 9 3	7217 8
1986	4710 6	30 835	3811 4	3416 6	3215 6	21 7 6	9 421	20 6 7	2513 7	4411 5	40 9 5	43 9 9	4710 6
1987	5013 5	27 9 7	4015 6	2412 5	2312 5	17 9 9	15 5 9	1815 6	13 8 7	35 8 7	27 8 5	29 714	5013 5
1988	4316 7	27 7 3	18 8 9	22 611	19 6 4	22 7 5	22 8 7	24 7 9	24 712	24 6 0	331011	3817 6	4316 7
1989	4511 5	2710 6	45 9 2	19 8 5	19 612	1110 7	12 5 8	1810 9	7619 8	35 8 3	2213 7	2815 6	7619 8
1990	2117 6	28 7 8	3110 5	2911 8	17 611	1510 9	1710 7	1615 9	1913 7	3911 8	30 8 4	28 9 5	3911 8
1991	2411 7	27 9 6	27 7 9	28 9 7	27 810	24 9 5	1011 6	2210 7	4617 8	3012 7	3115 6	32 9 5	4617 8
1992	3011 8	2910 7	24 8 9	3111 5	19 9 6	10 420	10 513	37 8 9	18 8 7	26 715	3413 9	2914 6	37 8 9
1993	5110 1	27 9 5	4913 5	2714 7	1812 5	17 6 9	10 7 7	3414 9	2813 6	21 9 5	3612 5	3510 6	5110 1
MAX	5110 1	5514 7	6820 6	44 911	3215 6	25 8 7	451010	4510 4	7619 8	5011 5	5814 5	6414 7	

MAX Hmo(m): 7.6 MAX Tp(sec): 19. MAX Dp(deg): 83. DATE(gmt): 89090812

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 145. DATE(gmt): 79090400

MEAN Hmo(m): 1.3 MEAN Tp(sec): 10.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.25 N, LONG: 80.25 W, DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 18

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	14	15	15	37	87	176	232	206	62	.	24	43	911
0.50 - 0.99	834	839	880	1080	1760	2851	3590	2860	1388	638	536	914	18170
1.00 - 1.49	1527	1382	1619	1670	1818	997	556	1020	1701	1543	1324	1645	16802
1.50 - 1.99	1075	997	978	1003	635	246	56	248	628	1267	1161	811	9105
2.00 - 2.49	537	387	524	355	116	48	22	66	306	602	683	537	4183
2.50 - 2.99	231	253	241	127	26	2	2	25	103	232	358	257	1857
3.00 - 3.49	98	81	114	30	22	.	1	25	56	103	126	144	800
3.50 - 3.99	84	55	48	15	.	.	2	9	25	41	56	62	397
4.00 - 4.49	36	28	17	2	.	.	3	4	23	25	20	25	183
4.50 - 4.99	19	12	9	1	.	.	.	1	10	12	8	13	85
5.00 - 5.49	9	13	6	.	.	.	.	.	2	1	10	5	46
5.50 - 5.99	.	10	4	.	.	.	.	.	5	.	12	2	30
6.00 - 6.49	.	.	3	.	.	.	.	.	5	.	2	3	13
6.50 - 6.99	.	.	4	.	.	.	.	.	2	.	.	3	9
7.00 - 7.49	.	.	2	.	.	.	.	.	3	.	.	.	5
7.50 - 7.99	.	.	.	.	.	.	.	.	4	.	.	.	4
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 18

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	16	.	2	8	6	23	32	15	14	.	1	8	125
4.0 - 4.9	159	155	111	114	103	146	132	130	68	40	64	124	1346
5.0 - 5.9	181	224	207	191	273	195	136	204	201	158	120	234	2324
6.0 - 6.9	171	260	203	196	304	477	564	462	455	381	274	307	4054
7.0 - 7.9	294	259	357	302	608	806	1011	1062	679	613	496	377	6864
8.0 - 8.9	344	427	498	398	855	1092	1336	1129	551	674	578	492	8374
9.0 - 9.9	551	483	471	482	734	595	572	574	511	655	703	513	6844
10.0 - 10.9	678	533	525	481	361	307	259	252	375	535	610	367	5283
11.0 - 11.9	343	331	375	491	346	250	203	190	329	392	328	337	3915
12.0 - 12.9	341	182	367	428	324	181	114	152	261	319	237	321	3227
13.0 - 13.9	306	196	382	512	231	109	54	109	228	226	238	352	2943
14.0 - 14.9	265	210	340	295	140	64	27	74	234	142	208	334	2333
15.0 - 15.9	241	152	251	178	97	48	12	37	169	133	139	283	1740
16.0 - 16.9	199	236	128	110	47	20	7	27	102	90	131	158	1255
17.0 - 17.9	158	170	89	60	18	6	4	21	58	49	75	89	797
18.0 - 18.9	101	115	57	25	7	1	1	15	29	28	45	74	498
19.0 - 19.9	67	60	50	25	4	.	.	7	22	13	49	38	335
20.0 - LONGER	49	79	51	24	6	.	.	4	34	16	24	56	343
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 18

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	88	132	68	57	11	4	.	.	1	22	80	124	587
11.25 - 33.74 (22.5)	94	83	42	44	22	10	9	11	29	86	114	162	706
33.75 - 56.24 (45.0)	381	368	183	198	314	198	99	174	475	625	406	382	3803
56.25 - 78.74 (67.5)	2025	1821	2227	2193	1774	1415	688	931	2086	2470	1995	2264	21889
78.75 - 101.24 (90.0)	1347	1213	1371	1369	1773	1860	2119	2580	1505	1140	1569	1144	18990
101.25 - 123.74 (112.5)	197	127	182	226	388	626	1380	634	142	80	66	145	4193
123.75 - 146.24 (135.0)	69	60	127	64	99	71	53	63	19	5	15	25	670
146.25 - 168.74 (157.5)	38	31	64	42	33	31	27	31	8	4	7	22	338
168.75 - 191.24 (180.0)	32	47	47	35	17	29	22	28	35	5	9	42	348
191.25 - 213.74 (202.5)	7	19	18	11	15	38	21	9	15	4	6	22	185
213.75 - 236.24 (225.0)	10	12	12	7	3	30	17	2	4	3	3	24	127
236.25 - 258.74 (247.5)	10	10	4	4	3	6	19	1	.	1	3	8	69
258.75 - 281.24 (270.0)	16	12	13	6	6	2	10	.	.	4	1	5	75
281.25 - 303.74 (292.5)	39	36	16	23	6	.	.	.	1	5	3	15	144
303.75 - 326.24 (315.0)	38	34	32	20	.	.	.	.	.	6	14	34	178
326.25 - 348.74 (337.5)	73	67	58	21	.	.	.	.	.	4	29	46	298
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.25 N LONG: 80.25 W DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 18 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	41	55	3	.	.	.	.	.	.	.	99
1.00 - 1.99	61	494	90	.	.	.	.	.	.	.	645
2.00 - 2.99	.	80	168	2	.	.	.	.	.	.	250
3.00 - 3.99	.	.	35	12	.	.	.	.	.	.	47
4.00 - 4.99	.	.	3	8	1	.	.	.	.	.	12
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	102	629	299	24	1	0	0	0	0	0	1055

STATION: 18 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	62	206	265	583	1091	985	463	190	38	.	3883
1.00 - 1.99	29	1099	1563	1306	1265	1303	1006	475	195	.	8241
2.00 - 2.99	.	70	763	547	319	344	207	142	105	.	2497
3.00 - 3.99	.	.	64	283	109	107	97	30	20	.	710
4.00 - 4.99	.	.	.	27	49	14	19	19	16	.	144
5.00 - 5.99	.	.	.	2	5	24	.	4	15	.	50
6.00 - 6.99	.	.	.	.	.	2	.	.	7	.	9
7.00 - 7.99	.	.	.	.	.	.	.	.	2	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	91	1375	2655	2748	2838	2779	1792	860	398	0	15536

STATION: 18 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	177	1551	7100	3394	1283	562	173	95	35	19	14389
1.00 - 1.99	27	1555	4033	4958	2339	1447	662	201	59	48	15329
2.00 - 2.99	.	28	697	797	596	395	290	76	43	14	2936
3.00 - 3.99	.	.	18	156	62	64	48	44	11	10	413
4.00 - 4.99	.	.	.	10	17	10	27	16	27	.	107
5.00 - 5.99	.	.	.	.	2	13	1	.	7	1	24
6.00 - 6.99	.	.	.	.	2	6	1	1	1	1	12
7.00 - 7.99	.	.	.	.	.	.	1	2	4	.	7
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	204	3134	11848	9315	4301	2497	1203	435	187	93	33217

STATION: 18 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	138	180	48	.	.	.	.	.	.	.	366
1.00 - 1.99	39	602	99	6	.	.	.	.	.	.	746
2.00 - 2.99	.	30	215	18	.	.	.	.	.	.	263
3.00 - 3.99	.	.	14	8	1	.	.	.	.	.	23
4.00 - 4.99	.	.	.	5	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	177	812	376	37	2	0	0	0	0	0	1404

STATION: 18 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	109	1	.	.	.	.	.	.	.	.	110
1.00 - 1.99	167	261	.	.	.	.	.	.	.	.	428
2.00 - 2.99	.	53	7	.	.	.	.	.	.	.	60
3.00 - 3.99	.	.	2	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	276	315	9	0	0	0	0	0	0	0	600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.25 N, LONG: 80.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 18 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	106	.	.	.	.	.	.	.	.	.	106
1.00 - 1.99	98	22	.	.	.	.	.	.	.	.	120
2.00 - 2.99	.	5	.	.	.	.	.	.	.	.	5
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	204	27	0	0	0	0	0	0	0	0	231

STATION: 18 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	70	.	.	.	.	.	.	.	.	.	70
1.00 - 1.99	97	10	.	.	.	.	.	.	.	.	107
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	167	12	0	0	0	0	0	0	0	0	179

STATION: 18 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	57	1	.	.	.	.	.	.	.	.	58
1.00 - 1.99	193	58	40	.	.	.	.	.	.	.	291
2.00 - 2.99	.	15	11	1	.	.	.	.	.	.	27
3.00 - 3.99	.	.	.	2	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	250	74	51	3	0	0	0	0	0	0	378

STATION: 18 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	760	1994	7416	3977	2374	1547	636	285	73	19	19081
1.00 - 1.99	711	4101	5825	6270	3604	2750	1668	676	254	48	25907
2.00 - 2.99	.	283	1861	1365	915	739	497	218	148	14	6040
3.00 - 3.99	.	.	133	461	172	171	145	74	31	10	1197
4.00 - 4.99	.	.	3	50	67	24	46	35	43	.	268
5.00 - 5.99	.	.	.	4	7	37	1	4	22	1	76
6.00 - 6.99	.	.	.	.	3	8	1	1	8	1	22
7.00 - 7.99	.	.	.	.	.	.	1	2	6	.	9
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1471	6378	15238	12127	7142	5276	2995	1295	585	93	52600

STATION: 18

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	292	303	368	439	645	978	1073	1171	900	562	313	403	7447
2.50 - 4.99	1690	1449	1740	1840	2388	2520	2888	2650	2358	1798	1627	1784	24732
5.00 - 7.49	1053	971	1034	1131	1028	618	405	458	577	1061	1213	1036	10585
7.50 - 9.99	1017	961	933	758	366	190	83	136	321	838	901	845	7349
10.00 - 12.49	256	262	253	117	35	14	9	26	103	139	190	264	1668
12.50 - 14.99	130	113	111	34	2	.	4	22	46	62	67	107	698
15.00 - 17.49	22	10	18	1	.	.	2	.	9	4	7	20	93
17.50 - 19.99	4	3	7	.	.	.	.	1	3	.	2	5	25
20.00 - GREATER	.	.	.	.	.	.	.	.	3	.	.	.	3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.25 N, LONG: 80.25 W, DEPTH: 22 M

STATION: 18

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	743	528	462	358	187	110	66	120	190	605	664	703	4736
22.50 - 67.49 (45.0)	711	624	575	443	562	415	179	315	970	1454	1053	967	8268
67.50 - 112.49 (90.0)	606	645	707	882	1102	805	635	1254	1577	1191	1047	737	11188
112.50 - 157.49 (135.0)	481	521	766	741	1095	886	1149	1010	652	333	544	516	8694
157.50 - 202.49 (180.0)	481	465	675	539	628	919	1116	792	417	202	288	394	6916
202.50 - 247.49 (225.0)	289	312	397	414	432	841	874	592	248	164	162	259	4984
247.50 - 292.49 (270.0)	417	426	413	495	301	280	363	216	157	198	209	326	3801
292.50 - 337.49 (315.0)	736	551	469	448	157	64	82	165	109	317	353	562	4013
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 18

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.71	1.45	1.32	1.39	1.01	0.94	0.56	1.24	1.06	1.95	1.41	1.76	1.32
1977	1.50	1.23	1.41	1.54	1.04	0.57	0.71	1.06	0.91	1.36	1.98	1.67	1.25
1978	1.60	1.88	1.46	1.15	0.97	0.93	0.80	0.88	1.22	2.06	1.64	1.83	1.37
1979	2.07	1.80	1.72	1.65	1.39	1.17	0.89	0.84	1.61	1.39	2.03	1.74	1.52
1980	1.68	1.90	1.75	1.39	0.99	0.96	0.80	1.07	1.13	1.50	2.11	1.92	1.43
1981	1.23	2.28	2.19	1.31	1.09	0.85	0.80	0.91	1.48	1.48	1.56	1.17	1.36
1982	1.19	1.40	1.38	1.18	1.09	0.84	0.61	0.72	1.03	1.75	1.74	1.48	1.20
1983	1.45	1.92	1.30	1.27	1.17	0.92	0.75	0.79	1.24	1.68	1.46	1.77	1.31
1984	2.22	1.51	1.45	1.22	1.11	0.76	0.83	0.70	1.63	1.71	2.13	1.51	1.40
1985	1.24	1.59	1.36	1.39	0.86	0.71	0.79	0.92	1.91	1.45	1.98	1.45	1.30
1986	1.59	1.39	1.72	1.30	1.45	0.85	0.60	0.97	1.36	1.45	1.71	1.75	1.35
1987	1.93	1.31	2.09	1.32	1.29	0.86	0.75	0.81	0.88	1.73	1.63	1.19	1.32
1988	1.72	1.34	1.19	1.12	1.08	0.97	0.89	0.78	1.17	1.39	1.21	1.11	1.16
1989	1.35	1.15	1.42	1.14	0.89	0.80	0.76	1.01	1.98	1.56	1.25	1.15	1.20
1990	1.30	1.55	1.45	1.72	1.06	0.90	0.94	0.91	1.19	1.49	1.35	1.73	1.30
1991	1.21	1.34	1.15	1.30	1.10	1.08	0.71	0.75	1.34	1.72	1.50	1.28	1.20
1992	1.28	1.18	1.29	1.30	1.07	0.71	0.68	0.93	1.06	1.43	1.79	1.58	1.19
1993	1.86	1.38	1.78	1.42	1.19	0.90	0.69	0.99	1.01	1.31	1.81	1.49	1.32
MEAN	1.56	1.53	1.52	1.34	1.10	0.87	0.75	0.90	1.29	1.58	1.68	1.53	

STATION: 18

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3810 5	32 9 8	32 8 5	3610 3	26 714	19 612	9 415	4814 9	2614 8	4611 5	35 8 3	3710 5	4814 9
1977	31 8 2	27 8 4	27 812	3313 7	25 8 8	12 425	12 8 6	24 8 9	20 7 9	31 9 7	35 9 3	4015 6	4015 6
1978	2913 9	4320 7	30 836	20 531	24 715	24 8 7	15 6 9	16 9 9	2713 7	5011 6	32 8 5	6614 7	6614 7
1979	4410 5	3513 6	3510 8	45 912	24 8 4	22 7 7	25 812	151510	691210	32 9 8	40 9 4	3610 6	691210
1980	5218 7	5119 7	3917 7	30 812	1916 7	19 8 4	17 6 9	35 812	1812 9	3012 5	5819 7	4315 7	5819 7
1981	33 9 2	5714 7	7020 7	27 8 7	20 613	19 7 6	13 7 5	29 813	3416 9	35 9 3	3817 7	24 9 5	7020 7
1982	2119 7	2210 8	3211 8	24 7 8	22 9 7	22 612	13 613	13 6 6	1511 6	4616 7	4115 8	24 810	4616 7
1983	35 8 7	5217 7	311113	29 714	21 6 9	16 6 6	15 7 7	44 9 4	3410 6	3513 6	3014 8	5013 5	5217 7
1984	4813 5	34 814	28 620	2515 7	21 9 9	19 6 1	14 516	22 615	46 9 8	3412 8	6014 5	28 8 7	6014 5
1985	36 836	30 9 8	37 9 7	32 9 9	19 8 4	16 616	41 9 9	22 618	7617 9	4610 5	381010	33 9 4	7617 9
1986	4710 6	30 835	3911 4	3716 6	3315 7	21 7 6	10 416	19 6 7	2717 9	4411 6	41 9 6	41 910	4710 6
1987	5113 5	29 9 7	4015 7	2512 7	2412 6	18 9 9	15 5 9	1815 6	13 8 8	32 8 8	26 8 5	29 715	5113 5
1988	4616 8	28 7 3	19 8 9	22 612	1813 6	20 7 6	22 8 7	23 7 9	23 812	23 8 3	39 913	4017 7	4616 8
1989	4611 4	2810 7	45 9 1	20 9 7	20 613	13 517	12 8 9	1910 9	7919 9	35 9 4	2313 8	2815 6	7919 9
1990	2117 7	29 7 9	3210 6	2911 8	18 713	1510 9	1710 7	201510	2014 8	3811 9	30 8 5	28 9 6	3811 9
1991	2512 7	28 9 6	27 7 9	29 9 8	26 810	26 9 5	11 417	2410 8	4717 9	3112 7	3215 6	31 9 6	4717 9
1992	3111 8	3010 7	24 810	3111 5	19 9 6	12 516	10 514	36 8 9	18 9 6	26 814	3512 9	2914 6	36 8 9
1993	5210 0	27 9 5	5113 6	2814 7	1913 6	17 514	10 7 7	3614 9	2913 6	22 9 5	3812 5	36 9 6	5210 0
MAX	5210 0	5714 7	7020 7	45 912	3315 7	26 9 5	41 9 9	4814 9	7919 9	5011 6	6014 5	6614 7	

MAX Hmo(m): 7.9 MAX Tp(sec): 19. MAX Dp(deg): 86. DATE(gmt): 89090812

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 95. DATE(gmt): 79090400

MEAN Hmo(m): 1.3 MEAN Tp(sec): 10.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.50 N, LONG: 80.25 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 19

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	12	10	13	34	59	90	116	128	50	.	25	39	576
0.50 - 0.99	775	797	786	1016	1626	2796	3542	2769	1275	587	493	855	17317
1.00 - 1.49	1453	1357	1640	1706	1954	1109	706	1167	1764	1525	1296	1621	17298
1.50 - 1.99	1130	1007	1005	1023	650	265	67	266	679	1299	1206	861	9458
2.00 - 2.49	556	427	556	348	116	52	25	62	294	608	700	524	4268
2.50 - 2.99	275	260	248	144	47	8	2	34	127	250	362	290	2047
3.00 - 3.49	110	89	121	30	12	.	1	27	45	111	125	154	825
3.50 - 3.99	86	64	51	13	.	.	2	7	27	46	62	63	421
4.00 - 4.49	39	27	17	4	.	.	3	2	26	26	19	28	191
4.50 - 4.99	17	14	10	2	.	.	.	2	13	10	12	9	89
5.00 - 5.49	10	10	8	.	.	.	.	.	5	2	7	11	53
5.50 - 5.99	1	10	3	.	.	.	.	.	3	.	8	3	28
6.00 - 6.49	.	.	6	.	.	.	.	.	4	.	5	2	17
6.50 - 6.99	.	.	.	.	.	.	.	.	3	.	.	4	7
7.00 - 7.49	.	.	.	.	.	.	.	.	4	.	.	.	4
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 19

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	17	3	1	6	4	14	18	12	11	1	2	10	99
4.0 - 4.9	114	117	86	86	85	121	96	97	61	36	45	84	1028
5.0 - 5.9	176	223	188	212	264	176	131	181	180	146	133	229	2239
6.0 - 6.9	254	330	293	262	334	469	579	440	485	416	282	400	4544
7.0 - 7.9	339	344	417	362	655	908	1180	1252	764	703	558	430	7912
8.0 - 8.9	395	454	529	457	942	1148	1394	1191	573	726	606	546	8961
9.0 - 9.9	572	503	488	501	708	602	517	503	522	682	731	509	6838
10.0 - 10.9	657	539	495	460	348	294	224	228	390	512	588	355	5090
11.0 - 11.9	347	306	351	457	327	227	165	158	289	338	307	330	3602
12.0 - 12.9	322	168	357	417	299	137	86	133	250	308	224	310	3011
13.0 - 13.9	289	176	385	470	220	99	32	94	215	192	214	332	2718
14.0 - 14.9	260	191	317	265	130	58	24	72	209	134	209	309	2178
15.0 - 15.9	218	146	223	165	82	45	12	33	154	104	129	260	1571
16.0 - 16.9	184	202	112	85	37	18	6	23	90	74	115	134	1080
17.0 - 17.9	124	138	72	47	16	3	.	22	48	37	71	76	654
18.0 - 18.9	99	107	57	23	5	1	.	16	23	28	43	66	468
19.0 - 19.9	56	54	48	22	4	.	.	6	22	13	43	33	301
20.0 - LONGER	41	71	45	23	4	.	.	3	34	14	20	51	306
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 19

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	115	170	90	67	16	4	.	.	10	36	110	184	802
11.25 - 33.74 (22.5)	143	95	54	54	29	15	12	11	30	134	114	188	879
33.75 - 56.24 (45.0)	573	598	427	597	635	361	175	256	580	815	493	608	6118
56.25 - 78.74 (67.5)	1687	1465	1884	1698	1344	1077	495	709	1855	2145	1796	1884	18039
78.75 - 101.24 (90.0)	1274	1108	1297	1276	1705	1657	1612	2268	1478	1187	1539	1064	17465
101.25 - 123.74 (112.5)	283	237	238	340	537	993	2010	1065	273	97	149	230	6452
123.75 - 146.24 (135.0)	71	61	126	76	98	71	43	83	18	11	16	33	707
146.25 - 168.74 (157.5)	39	48	102	61	40	35	30	30	14	4	21	31	455
168.75 - 191.24 (180.0)	47	59	66	46	27	28	22	31	41	7	15	55	444
191.25 - 213.74 (202.5)	14	29	20	16	18	39	24	7	16	4	7	21	215
213.75 - 236.24 (225.0)	7	10	12	8	3	33	13	3	4	3	3	26	125
236.25 - 258.74 (247.5)	11	10	9	4	2	6	20	1	.	1	4	6	74
258.75 - 281.24 (270.0)	19	14	16	6	4	1	8	.	.	5	1	10	84
281.25 - 303.74 (292.5)	39	39	13	21	3	.	.	.	1	4	3	9	132
303.75 - 326.24 (315.0)	40	31	33	16	1	.	.	.	.	4	11	33	169
326.25 - 348.74 (337.5)	102	98	77	34	2	.	.	.	.	7	38	82	440
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.50 N, LONG: 80.25 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 19 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	29	104	5	.	.	.	.	.	.	.	138
1.00 - 1.99	40	627	159	.	.	.	.	.	.	.	826
2.00 - 2.99	.	99	263	4	.	.	.	.	.	.	366
3.00 - 3.99	.	.	62	17	.	.	.	.	.	.	79
4.00 - 4.99	.	.	7	14	2	.	.	.	.	.	23
5.00 - 5.99	.	.	.	2	1	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	69	830	496	37	3	0	0	0	0	0	1435

STATION: 19 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	54	150	205	557	1081	988	486	178	44	6	3749
1.00 - 1.99	26	1034	1643	1362	1470	1490	1026	474	188	33	8746
2.00 - 2.99	.	60	870	578	330	364	253	149	101	11	2716
3.00 - 3.99	.	.	74	318	108	119	80	34	27	7	767
4.00 - 4.99	.	.	2	39	60	12	21	20	21	.	175
5.00 - 5.99	.	.	.	4	11	32	.	1	13	.	61
6.00 - 6.99	.	.	.	.	2	4	.	.	6	.	12
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	80	1244	2794	2858	3062	3009	1866	856	400	57	16226

STATION: 19 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	139	1368	7330	2984	888	340	89	52	17	10	13217
1.00 - 1.99	25	1531	4861	5061	2044	1145	442	116	45	14	15284
2.00 - 2.99	.	22	736	801	544	343	201	51	21	3	2722
3.00 - 3.99	.	.	31	144	50	41	36	37	12	.	351
4.00 - 4.99	.	.	.	13	17	6	14	7	18	1	76
5.00 - 5.99	.	.	.	1	2	7	1	1	4	.	16
6.00 - 6.99	.	.	.	.	2	5	1	.	4	.	12
7.00 - 7.99	.	.	.	.	1	.	1	2	1	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	164	2921	12958	9004	3548	1887	785	266	122	28	31683

STATION: 19 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	95	233	127	.	.	.	.	.	.	.	455
1.00 - 1.99	31	711	117	8	.	.	.	.	.	.	867
2.00 - 2.99	.	42	210	2	.	.	.	.	.	.	254
3.00 - 3.99	.	.	17	10	.	.	.	.	.	.	27
4.00 - 4.99	.	.	1	4	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	126	986	472	25	0	0	0	0	0	0	1609

STATION: 19 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	105	11	.	.	.	.	.	.	.	.	116
1.00 - 1.99	43	442	2	.	.	.	.	.	.	.	487
2.00 - 2.99	.	150	23	.	.	.	.	.	.	.	173
3.00 - 3.99	.	2	14	.	.	.	.	.	.	.	16
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	148	605	40	0	0	0	0	0	0	0	793

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.50 N LONG: 80.25 W DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 19 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	97	.	.	.	.	.	.	.	.	.	97
1.00 - 1.99	100	24	.	.	.	.	.	.	.	.	124
2.00 - 2.99	.	9	.	.	.	.	.	.	.	.	9
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	197	33	0	0	0	0	0	0	0	0	230

STATION: 19 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	74	.	.	.	.	.	.	.	.	.	74
1.00 - 1.99	108	12	.	.	.	.	.	.	.	.	120
2.00 - 2.99	.	5	.	.	.	.	.	.	.	.	5
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	182	17	0	0	0	0	0	0	0	0	199

STATION: 19 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	37	9	1	.	.	.	.	.	.	.	47
1.00 - 1.99	124	130	48	.	.	.	.	.	.	.	302
2.00 - 2.99	.	8	62	.	.	.	.	.	.	.	70
3.00 - 3.99	.	.	2	4	.	.	.	.	.	.	6
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	161	147	113	4	0	0	0	0	0	0	425

STATION: 19 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	630	1875	7668	3541	1969	1328	575	230	61	16	17893
1.00 - 1.99	497	4511	6830	6431	3514	2635	1468	590	233	47	26756
2.00 - 2.99	.	395	2164	1385	874	707	454	200	122	14	6315
3.00 - 3.99	.	2	200	493	158	160	116	71	39	7	1246
4.00 - 4.99	.	.	11	70	79	18	35	27	39	1	280
5.00 - 5.99	.	.	.	8	14	39	1	2	17	.	81
6.00 - 6.99	.	.	.	.	4	9	1	.	10	.	24
7.00 - 7.99	.	.	.	.	1	.	1	2	1	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1127	6783	16873	11928	6613	4896	2651	1122	522	85	52600

STATION: 19

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	258	281	345	388	614	919	964	1143	885	512	284	391	6984
2.50 - 4.99	1697	1455	1775	1895	2434	2549	2977	2679	2347	1820	1645	1774	25047
5.00 - 7.49	1045	952	998	1112	1018	646	414	466	593	1065	1238	1027	10574
7.50 - 9.99	1026	973	948	769	361	200	94	127	330	848	879	834	7389
10.00 - 12.49	275	268	252	119	35	6	9	26	99	150	198	300	1737
12.50 - 14.99	134	127	120	36	2	.	6	22	49	62	65	112	735
15.00 - 17.49	26	12	19	1	.	.	.	1	12	7	8	19	104
17.50 - 19.99	3	4	7	.	.	.	.	.	2	.	3	7	27
20.00 - GREATER									3				3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.50 N, LONG: 80.25 W, DEPTH: 27 M

STATION: 19

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	717	532	437	361	193	104	72	140	204	613	674	704	4751
22.50 - 67.49 (45.0)	700	608	568	425	538	404	172	318	976	1441	1020	937	8107
67.50 - 112.49 (90.0)	595	606	693	811	1059	764	590	1166	1547	1166	1013	706	10716
112.50 - 157.49 (135.0)	450	520	752	750	1080	858	1056	1020	645	330	546	494	8501
157.50 - 202.49 (180.0)	485	482	670	575	660	929	1166	813	425	210	299	420	7134
202.50 - 247.49 (225.0)	292	325	414	432	466	885	951	625	261	172	178	262	5263
247.50 - 292.49 (270.0)	450	434	438	509	305	300	382	235	151	216	218	346	3987
292.50 - 337.49 (315.0)	775	565	492	457	163	76	75	147	111	316	372	592	4141
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 19

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.75	1.49	1.36	1.41	1.06	1.00	0.60	1.26	1.08	1.98	1.43	1.83	1.35
1977	1.55	1.28	1.43	1.54	1.05	0.62	0.75	1.07	0.93	1.40	2.02	1.69	1.28
1978	1.65	1.90	1.46	1.17	0.99	0.97	0.83	0.91	1.24	2.06	1.67	1.86	1.39
1979	2.09	1.84	1.71	1.66	1.41	1.21	0.94	0.88	1.65	1.41	2.07	1.78	1.55
1980	1.71	1.93	1.79	1.42	1.01	0.99	0.84	1.10	1.14	1.53	2.09	1.93	1.45
1981	1.27	2.31	2.14	1.34	1.13	0.89	0.84	0.96	1.48	1.52	1.58	1.23	1.38
1982	1.20	1.47	1.42	1.21	1.09	0.88	0.65	0.75	1.07	1.77	1.75	1.50	1.23
1983	1.51	1.92	1.36	1.29	1.18	0.96	0.80	0.84	1.26	1.68	1.48	1.83	1.34
1984	2.26	1.54	1.46	1.24	1.13	0.77	0.87	0.72	1.70	1.70	2.17	1.49	1.42
1985	1.30	1.61	1.38	1.37	0.91	0.72	0.83	0.96	1.93	1.50	1.96	1.45	1.32
1986	1.63	1.39	1.77	1.30	1.44	0.91	0.65	0.99	1.37	1.48	1.74	1.80	1.37
1987	1.95	1.38	2.09	1.34	1.31	0.90	0.78	0.85	0.91	1.75	1.64	1.22	1.34
1988	1.72	1.36	1.21	1.11	1.10	0.99	0.93	0.82	1.20	1.41	1.24	1.12	1.19
1989	1.39	1.20	1.45	1.19	0.92	0.84	0.80	1.04	2.03	1.60	1.26	1.20	1.24
1990	1.34	1.60	1.47	1.72	1.10	0.95	0.99	0.95	1.20	1.53	1.36	1.73	1.33
1991	1.26	1.38	1.22	1.34	1.13	1.12	0.77	0.77	1.38	1.74	1.54	1.32	1.24
1992	1.33	1.21	1.32	1.33	1.09	0.75	0.72	0.95	1.09	1.45	1.81	1.61	1.22
1993	1.92	1.42	1.80	1.44	1.20	0.94	0.74	1.01	1.03	1.36	1.85	1.51	1.35
MEAN	1.60	1.57	1.55	1.36	1.12	0.91	0.80	0.94	1.32	1.60	1.70	1.56	

STATION: 19

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4010 5	34 8 8	33 9 4	40 8 1	26 814	20 613	10 910	4514 9	2514 7	4911 4	36 8 2	3810 5	4911 4
1977	33 8 2	28 8 4	28 813	3213 7	24 8 8	13 425	12 7 5	24 8 9	21 7 9	32 9 7	37 835	3815 6	3815 6
1978	29 8 3	4111 4	32 835	24 8 5	27 618	25 7 8	14 610	16 9 9	2813 7	5110 5	3313 7	6814 7	6814 7
1979	4310 4	38 9 5	36 9 8	48 912	25 8 4	23 6 4	25 712	161510	741211	33 9 9	42 9 4	3810 5	741211
1980	5018 6	4718 6	3817 6	32 813	1914 6	21 8 4	16 6 9	36 812	1817 9	3212 5	5319 6	4511 5	5319 6
1981	3510 3	5714 7	6420 6	27 8 7	21 713	19 7 6	12 8 5	30 716	3518 9	38 8 2	3617 6	26 733	6420 6
1982	24 617	2210 8	3210 8	27 620	22 9 7	21 613	13 614	14 7 6	16 9 9	4316 6	3915 7	26 712	4316 6
1983	36 8 7	4917 6	35 718	30 714	21 8 9	17 7 6	16 7 6	45 9 4	3610 5	3512 6	2914 7	5413 4	5413 4
1984	5113 4	35 814	31 718	26 814	24 619	20 7 0	16 517	22 615	47 9 8	3212 8	6413 5	28 8 7	6413 5
1985	38 835	30 9 8	38 9 7	31 9 9	20 8 4	15 616	431010	26 618	7517 8	5110 6	381010	31 8 3	7517 8
1986	4910 6	31 835	4211 4	3516 6	3215 6	22 7 6	10 423	18 8 5	2817 8	4611 5	4410 5	4311 5	4910 6
1987	5213 5	32 8 7	4010 9	2612 7	2312 5	18 9 9	16 5 9	1815 6	14 8 8	31 7 6	26 8 4	29 715	5213 5
1988	4415 7	30 7 2	19 710	20 612	1813 5	19 7 6	22 8 7	23 614	23 712	25 8 3	42 814	3717 6	4415 7
1989	4912 3	2910 6	47 9 1	21 7 5	20 614	15 517	12 710	19 810	7019 9	36 9 4	2313 7	29 835	7019 9
1990	22 735	30 7 9	3310 5	29 9 7	19 714	1510 9	1710 7	231510	1913 7	3811 9	31 8 4	29 9 5	3811 9
1991	2611 7	29 9 6	27 7 9	29 9 8	26 810	27 9 5	11 417	2810 8	4116 9	3112 7	3115 6	32 9 5	4116 9
1992	3111 8	3010 7	25 8 9	3211 5	19 9 6	14 518	10 514	36 8 9	18 8 7	27 816	34 9 7	2813 6	36 8 9
1993	551035	28 9 5	5113 5	2814 7	1913 5	17 616	11 7 8	3514 9	2913 6	25 619	4012 5	36 9 6	551035
MAX	551035	5714 7	6420 6	48 912	3215 6	27 9 5	431010	45 9 4	7517 8	5110 6	6413 5	6814 7	

MAX Hmo(m): 7.5 MAX Tp(sec): 17. MAX Dp(deg): 83. DATE(gmt): 85092615

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 145. DATE(gmt): 79090403

MEAN Hmo(m): 1.3 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.75 N, LONG: 80.25 W, DEPTH: 36 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 20

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	7	4	9	23	48	65	85	85	45	.	26	38	435
0.50 - 0.99	717	745	719	963	1500	2671	3406	2651	1189	547	446	817	16371
1.00 - 1.49	1415	1315	1621	1689	2065	1225	863	1316	1792	1492	1273	1593	17659
1.50 - 1.99	1103	1017	1042	1053	663	283	76	274	711	1294	1220	834	9570
2.00 - 2.49	610	472	545	377	124	63	26	58	304	643	710	561	4493
2.50 - 2.99	301	269	272	160	55	13	2	36	134	270	387	306	2205
3.00 - 3.49	137	108	145	37	9	.	.	34	49	121	137	177	954
3.50 - 3.99	90	69	67	8	.	.	4	6	31	54	61	74	464
4.00 - 4.49	51	41	15	8	.	.	1	2	27	28	29	29	231
4.50 - 4.99	15	9	13	1	.	.	1	2	18	9	13	11	92
5.00 - 5.49	16	5	10	1	.	.	.	.	4	4	5	6	51
5.50 - 5.99	2	18	6	.	.	.	.	.	4	2	2	9	43
6.00 - 6.49	.	.	.	.	.	.	.	.	2	.	6	4	12
6.50 - 6.99	.	.	.	.	.	.	.	.	3	.	5	3	11
7.00 - 7.49	.	.	.	.	.	.	.	.	5	.	.	2	7
7.50 - 7.99	.	.	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 20

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	13	3	2	2	4	11	14	11	9	1	2	7	79
4.0 - 4.9	89	96	78	71	73	116	88	70	64	29	41	71	886
5.0 - 5.9	193	213	175	189	251	158	116	171	147	134	126	207	2080
6.0 - 6.9	313	373	312	278	292	396	464	381	442	413	271	416	4351
7.0 - 7.9	361	389	486	395	700	1035	1302	1356	824	713	574	440	8575
8.0 - 8.9	444	528	580	526	1052	1222	1508	1288	653	808	678	636	9923
9.0 - 9.9	659	547	518	534	722	605	498	461	577	710	783	552	7166
10.0 - 10.9	574	512	488	438	342	262	196	225	375	505	545	341	4803
11.0 - 11.9	347	291	336	434	295	204	141	142	275	325	297	342	3429
12.0 - 12.9	298	165	336	407	284	122	78	112	243	286	216	287	2834
13.0 - 13.9	272	165	370	457	206	91	26	80	205	195	202	312	2581
14.0 - 14.9	255	165	291	250	123	52	21	63	179	115	192	297	2003
15.0 - 15.9	189	133	191	154	68	33	8	36	128	82	133	244	1399
16.0 - 16.9	171	175	101	80	29	11	4	23	81	63	101	120	959
17.0 - 17.9	111	119	61	42	9	1	.	22	41	33	64	64	567
18.0 - 18.9	83	95	57	19	8	1	.	14	25	29	35	54	420
19.0 - 19.9	54	44	41	23	2	.	.	7	18	10	41	33	273
20.0 - LONGER	38	59	41	21	4	.	.	2	34	13	19	41	272
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 20

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	121	167	78	50	19	2	.	.	14	41	103	186	781
11.25 - 33.74 (22.5)	134	101	58	53	27	12	12	7	33	146	118	191	892
33.75 - 56.24 (45.0)	620	631	575	708	657	375	174	251	577	863	522	671	6624
56.25 - 78.74 (67.5)	1468	1251	1564	1505	1177	901	403	609	1687	1904	1637	1673	15779
78.75 - 101.24 (90.0)	1171	1031	1206	1149	1612	1390	1234	1944	1362	1300	1543	916	15858
101.25 - 123.74 (112.5)	451	387	421	500	748	1423	2476	1497	533	146	235	455	9272
123.75 - 146.24 (135.0)	68	78	131	91	114	70	41	79	25	11	23	42	773
146.25 - 168.74 (157.5)	47	48	117	63	43	34	34	31	26	5	22	30	500
168.75 - 191.24 (180.0)	54	65	82	62	28	33	22	33	34	12	17	58	500
191.25 - 213.74 (202.5)	11	18	19	12	15	32	29	9	21	1	6	18	191
213.75 - 236.24 (225.0)	6	11	16	9	4	41	11	4	3	1	3	26	135
236.25 - 258.74 (247.5)	11	13	10	4	2	7	18	.	1	1	4	9	80
258.75 - 281.24 (270.0)	23	15	20	6	4	.	10	.	.	4	2	8	92
281.25 - 303.74 (292.5)	43	36	18	18	3	.	.	.	1	5	5	15	144
303.75 - 326.24 (315.0)	127	97	73	45	6	.	.	.	2	11	23	79	463
326.25 - 348.74 (337.5)	109	123	76	45	5	.	.	.	1	13	57	87	516
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.75 N, LONG: 80.25 W, DEPTH: 36 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 20 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	26	104	2	.	.	.	.	.	.	.	132
1.00 - 1.99	24	601	159	.	.	.	.	.	.	.	784
2.00 - 2.99	.	92	286	3	.	.	.	.	.	.	381
3.00 - 3.99	.	.	79	33	.	.	.	.	.	.	112
4.00 - 4.99	.	.	4	23	3	.	.	.	.	.	30
5.00 - 5.99	.	.	.	4	3	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	50	797	530	63	6	0	0	0	0	0	1446

STATION: 20 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	49	110	164	498	957	859	400	146	33	8	3224
1.00 - 1.99	21	884	1626	1334	1413	1344	814	392	173	23	8024
2.00 - 2.99	.	70	926	534	315	332	212	120	78	12	2599
3.00 - 3.99	.	.	92	328	106	111	63	35	27	4	766
4.00 - 4.99	.	.	3	78	54	9	18	15	22	.	199
5.00 - 5.99	.	.	.	8	22	27	.	.	11	.	68
6.00 - 6.99	.	.	.	.	4	10	.	.	.	.	14
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	70	1064	2811	2780	2871	2692	1507	708	344	47	14894

STATION: 20 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	102	1031	7231	2667	763	343	100	47	15	7	12306
1.00 - 1.99	25	1337	5848	5334	1972	1144	461	131	47	13	16312
2.00 - 2.99	.	21	817	895	578	340	231	53	24	4	2963
3.00 - 3.99	.	.	38	153	50	50	42	36	17	.	386
4.00 - 4.99	.	.	.	20	14	4	14	9	20	.	81
5.00 - 5.99	.	.	.	3	3	5	1	1	2	.	15
6.00 - 6.99	.	.	.	.	1	4	1	1	2	.	9
7.00 - 7.99	.	.	.	.	1	2	1	1	3	.	8
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	127	2389	13934	9072	3382	1892	851	279	130	24	32080

STATION: 20 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	80	260	454	13	.	.	.	.	.	.	807
1.00 - 1.99	29	743	179	8	3	.	.	.	.	.	962
2.00 - 2.99	.	43	227	2	.	.	.	.	.	.	272
3.00 - 3.99	.	.	30	17	.	.	.	.	.	.	47
4.00 - 4.99	.	.	.	8	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	109	1046	890	50	4	0	0	0	0	0	2099

STATION: 20 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	102	20	.	.	.	.	.	.	.	.	122
1.00 - 1.99	36	417	3	.	.	.	.	.	.	.	456
2.00 - 2.99	.	164	70	.	.	.	.	.	.	.	234
3.00 - 3.99	.	.	47	.	.	.	.	.	.	.	47
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	138	601	122	0	0	0	0	0	0	0	861

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.75 N, LONG: 80.25 W, DEPTH: 36 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 20 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	97	.	.	.	.	.	.	.	.	.	97
1.00 - 1.99	108	25	.	.	.	.	.	.	.	.	133
2.00 - 2.99	.	9	.	.	.	.	.	.	.	.	9
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	205	34	0	0	0	0	0	0	0	0	239

STATION: 20 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	68	.	.	.	.	.	.	.	.	.	68
1.00 - 1.99	113	13	.	.	.	.	.	.	.	.	126
2.00 - 2.99	.	6	.	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	181	19	0	0	0	0	0	0	0	0	200

STATION: 20 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	37	13	.	.	.	.	.	.	.	.	50
1.00 - 1.99	48	367	17	.	.	.	.	.	.	.	432
2.00 - 2.99	.	101	132	1	.	.	.	.	.	.	234
3.00 - 3.99	.	.	60	.	.	.	.	.	.	.	60
4.00 - 4.99	.	.	2	1	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	85	481	211	4	0	0	0	0	0	0	781

STATION: 20 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	561	1538	7851	3178	1720	1202	500	193	48	15	16806
1.00 - 1.99	404	4387	7832	6676	3388	2488	1275	523	220	36	27229
2.00 - 2.99	.	506	2458	1435	893	672	443	173	102	16	6698
3.00 - 3.99	.	.	346	531	156	161	105	71	44	4	1418
4.00 - 4.99	.	.	11	130	71	13	32	24	42	.	323
5.00 - 5.99	.	.	.	19	28	32	1	1	13	.	94
6.00 - 6.99	.	.	.	.	5	14	1	1	2	.	23
7.00 - 7.99	.	.	.	.	2	2	1	1	3	.	9
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	965	6431	18498	11969	6263	4584	2358	987	474	71	52600

STATION: 20

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	244	274	332	382	588	856	883	1134	883	468	288	375	6707
2.50 - 4.99	1691	1438	1768	1877	2449	2576	3011	2682	2320	1823	1626	1730	24991
5.00 - 7.49	1021	937	983	1108	1024	677	455	478	604	1070	1224	1049	10630
7.50 - 9.99	1021	995	964	792	359	207	102	122	348	874	895	840	7519
10.00 - 12.49	303	268	262	121	42	4	7	27	95	155	209	327	1820
12.50 - 14.99	155	135	128	38	2	.	5	19	50	65	61	116	774
15.00 - 17.49	27	20	19	2	.	.	1	2	16	6	13	18	124
17.50 - 19.99	2	5	8	.	.	.	.	.	1	3	4	9	32
20.00 - GREATER									3				3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 28.75 N, LONG: 80.25 W, DEPTH: 36 M

STATION: 20

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	701	528	446	351	196	98	61	127	215	612	677	698	4710
22.50 - 67.49 (45.0)	693	617	539	416	513	409	169	350	981	1416	1004	912	8019
67.50 - 112.49 (90.0)	580	589	683	750	1003	739	549	1105	1521	1154	987	684	10344
112.50 - 157.49 (135.0)	433	490	741	744	1076	830	980	1005	626	332	520	464	8241
157.50 - 202.49 (180.0)	482	488	667	606	692	911	1173	819	433	214	324	439	7248
202.50 - 247.49 (225.0)	296	345	429	453	498	947	1046	664	275	180	191	284	5608
247.50 - 292.49 (270.0)	481	449	462	540	315	317	409	252	151	222	226	372	4196
292.50 - 337.49 (315.0)	798	566	497	460	171	69	77	142	118	334	391	611	4234
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 20

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.82	1.54	1.40	1.42	1.09	1.05	0.63	1.29	1.10	2.02	1.45	1.91	1.39
1977	1.60	1.31	1.45	1.55	1.06	0.65	0.77	1.08	0.95	1.44	2.05	1.73	1.30
1978	1.73	1.95	1.49	1.19	1.02	1.01	0.86	0.94	1.27	2.08	1.71	1.90	1.43
1979	2.15	1.89	1.73	1.69	1.43	1.25	0.99	0.92	1.68	1.44	2.11	1.82	1.59
1980	1.76	1.96	1.84	1.46	1.02	1.02	0.86	1.14	1.16	1.58	2.08	1.97	1.49
1981	1.31	2.38	2.11	1.37	1.17	0.92	0.87	0.99	1.50	1.56	1.60	1.31	1.42
1982	1.22	1.55	1.47	1.25	1.10	0.91	0.68	0.77	1.11	1.79	1.78	1.54	1.26
1983	1.58	1.94	1.44	1.32	1.20	0.99	0.84	0.88	1.29	1.69	1.51	1.89	1.38
1984	2.31	1.58	1.49	1.27	1.14	0.77	0.89	0.75	1.79	1.70	2.21	1.49	1.45
1985	1.38	1.63	1.40	1.36	0.95	0.74	0.87	0.98	1.96	1.55	1.98	1.46	1.35
1986	1.70	1.40	1.83	1.31	1.43	0.95	0.67	1.02	1.40	1.50	1.77	1.85	1.40
1987	2.01	1.44	2.10	1.39	1.33	0.93	0.81	0.87	0.93	1.77	1.66	1.24	1.37
1988	1.74	1.39	1.23	1.11	1.12	1.01	0.97	0.85	1.21	1.44	1.28	1.13	1.21
1989	1.42	1.25	1.50	1.23	0.95	0.87	0.84	1.07	2.07	1.65	1.30	1.25	1.28
1990	1.38	1.65	1.50	1.76	1.14	0.98	1.03	0.98	1.21	1.57	1.38	1.76	1.36
1991	1.30	1.42	1.28	1.37	1.16	1.16	0.81	0.80	1.43	1.78	1.56	1.33	1.28
1992	1.38	1.26	1.35	1.36	1.11	0.77	0.76	0.97	1.11	1.48	1.83	1.67	1.26
1993	1.97	1.47	1.85	1.48	1.22	0.96	0.77	1.03	1.05	1.41	1.90	1.55	1.39
MEAN	1.65	1.61	1.58	1.38	1.15	0.94	0.83	0.96	1.35	1.63	1.73	1.60	

STATION: 20

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4110 5	36 835	34 9 4	43 9 2	27 814	21 713	11 518	4414 9	2614 7	5111 4	38 9 2	3910 5	5111 4
1977	40 832	29 8 5	29 813	3013 7	23 7 8	13 425	13 8 6	24 8 9	21 7 9	3310 7	38 835	3815 6	40 832
1978	33 733	50 931	33 835	31 731	31 717	26 7 8	15 615	16 710	2913 7	5310 5	34 9 2	7114 7	7114 7
1979	44 9 0	42 9 6	39 718	521012	25 8 4	22 7 6	26 713	17 7 6	771110	34 9 9	45 9 4	4010 5	771110
1980	4818 6	46 9 1	3717 6	33 814	1814 6	22 8 4	16 6 9	37 912	181610	3312 5	5019 6	4811 4	5019 6
1981	3610 3	5813 6	5820 6	28 8 7	21 713	20 7 6	12 7 8	34 814	4218 9	41 8 1	3417 6	33 732	5820 6
1982	25 618	24 711	3410 7	29 718	23 9 7	21 613	12 614	14 7 6	16 910	44 935	3815 7	27 715	44 935
1983	38 8 7	4617 6	37 816	30 714	23 7 8	19 7 6	17 7 6	46 9 5	37 9 5	3512 6	30 8 5	6011 3	6011 3
1984	5412 3	37 814	34 720	28 617	26 717	20 8 2	17 616	21 615	5410 8	3111 8	6812 4	31 734	6812 4
1985	42 9 0	31 813	40 9 7	29 8 9	21 8 5	16 615	491011	30 717	7617 9	5710 7	371010	32 835	7617 9
1986	5210 6	32 835	4610 3	3416 6	3114 6	23 7 5	11 423	19 8 5	3017 9	4810 5	4710 5	4611 5	5210 6
1987	5313 5	36 8 8	4210 9	31 730	2312 5	18 9 9	16 5 9	1714 5	14 8 8	30 8 5	2710 9	30 715	5313 5
1988	4416 7	30 7 1	24 734	24 734	1813 5	18 8 9	22 8 8	31 713	22 712	27 8 3	501013	3517 6	501013
1989	5310 0	3010 5	49 9 1	21 7 4	19 615	16 617	12 710	20 911	7320 9	38 9 3	2211 8	34 834	7320 9
1990	25 734	32 8 8	3410 6	29 9 7	19 714	1510 9	1710 7	231510	1812 7	3811 9	32 8 4	30 9 5	3811 9
1991	2612 7	30 9 6	30 732	29 9 8	26 810	29 9 5	121011	2910 8	4416 9	3112 7	2915 6	33 9 5	4416 9
1992	3211 9	3110 7	25 8 9	3211 5	20 9 6	14 617	11 711	37 8 9	18 8 6	28 816	34 9 7	30 730	37 8 9
1993	5910 0	29 9 4	5213 5	28 814	1912 5	18 615	11 7 8	3414 9	2913 6	29 718	4212 5	37 9 5	5910 0
MAX	5910 0	5813 6	5820 6	521012	3114 6	29 9 5	491011	46 9 5	771110	5710 7	6812 4	7114 7	

MAX Hmo(m): 7.7 MAX Tp(sec): 11. MAX Dp(deg): 104. DATE(gmt): 79090403

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 110. DATE(gmt): 79090403

MEAN Hmo(m): 1.4 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.00 N, LONG: 80.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 21

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	18	15	28	61	107	187	248	262	98	.	33	67	1124
0.50 - 0.99	979	913	1067	1270	1995	2968	3711	3014	1508	774	647	1147	19993
1.00 - 1.49	1476	1471	1669	1670	1771	903	422	873	1553	1567	1436	1486	16297
1.50 - 1.99	942	868	869	897	451	218	53	198	645	1195	1097	755	8188
2.00 - 2.49	559	392	465	288	106	38	24	50	282	546	599	493	3842
2.50 - 2.99	239	222	187	102	26	6	3	34	106	206	305	259	1695
3.00 - 3.49	123	74	104	18	8	.	.	27	42	103	105	157	761
3.50 - 3.99	73	60	38	11	.	.	2	4	30	40	46	48	352
4.00 - 4.49	25	33	14	3	.	.	.	2	16	24	20	19	156
4.50 - 4.99	22	4	11	.	.	.	1	.	17	6	17	15	93
5.00 - 5.49	8	14	6	.	.	.	.	.	10	1	2	9	50
5.50 - 5.99	.	6	6	.	.	.	.	.	2	2	3	4	23
6.00 - 6.49	.	.	.	.	.	.	.	.	2	.	8	4	14
6.50 - 6.99	.	.	.	.	.	.	.	.	1	.	2	1	4
7.00 - 7.49	.	.	.	.	.	.	.	.	5	.	.	.	5
7.50 - 7.99	.	.	.	.	.	.	.	.	3	.	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 21

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	19	6	19	9	11	29	56	49	33	2	4	18	255
4.0 - 4.9	145	158	124	120	122	162	107	88	55	44	67	150	1342
5.0 - 5.9	206	260	200	187	258	191	148	185	239	183	169	255	2481
6.0 - 6.9	330	312	265	206	295	464	586	437	456	432	277	352	4412
7.0 - 7.9	244	269	366	303	533	802	998	1188	654	562	459	336	6714
8.0 - 8.9	321	406	417	404	864	1038	1318	1157	548	686	527	482	8168
9.0 - 9.9	579	511	481	510	784	645	635	552	536	730	724	497	7184
10.0 - 10.9	630	560	532	487	392	345	254	250	417	538	614	387	5406
11.0 - 11.9	370	329	390	455	350	232	177	169	328	373	352	362	3887
12.0 - 12.9	329	189	369	454	332	183	95	112	254	310	243	315	3185
13.0 - 13.9	320	188	411	511	229	107	49	89	239	214	231	345	2933
14.0 - 14.9	271	188	339	287	140	57	22	72	193	125	210	341	2245
15.0 - 15.9	212	146	216	178	85	47	12	39	150	98	137	268	1588
16.0 - 16.9	180	200	116	97	40	14	6	25	86	69	120	138	1091
17.0 - 17.9	117	131	72	49	15	4	1	22	48	45	78	75	657
18.0 - 18.9	92	103	62	18	6	.	.	18	27	24	41	68	459
19.0 - 19.9	57	55	39	24	4	.	.	8	20	15	44	31	297
20.0 - LONGER	42	61	46	21	4	.	.	4	37	14	23	44	296
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 21

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	98	144	73	47	17	7	.	.	3	35	103	167	694
11.25 - 33.74 (22.5)	107	81	43	53	39	12	11	6	30	134	118	172	806
33.75 - 56.24 (45.0)	595	594	431	573	596	346	175	234	552	756	479	568	5899
56.25 - 78.74 (67.5)	1807	1599	2045	1989	1572	1285	631	901	2068	2342	2048	2073	20360
78.75 - 101.24 (90.0)	1361	1172	1337	1281	1813	2242	2929	2865	1486	1102	1400	1063	20051
101.25 - 123.74 (112.5)	57	67	115	133	262	224	562	345	99	38	41	74	2017
123.75 - 146.24 (135.0)	53	46	88	43	66	51	32	41	12	5	10	21	468
146.25 - 168.74 (157.5)	10	16	46	18	26	14	15	17	11	3	5	18	199
168.75 - 191.24 (180.0)	21	21	37	18	17	22	20	25	16	3	7	25	232
191.25 - 213.74 (202.5)	16	28	24	19	15	36	24	19	25	7	8	52	243
213.75 - 236.24 (225.0)	7	16	27	17	13	54	19	9	5	3	6	29	205
236.25 - 258.74 (247.5)	13	13	15	8	2	25	21	2	1	2	1	21	124
258.75 - 281.24 (270.0)	26	24	20	6	3	2	25	.	1	4	7	16	134
281.25 - 303.74 (292.5)	70	44	25	27	10	.	.	.	1	5	12	26	220
303.75 - 326.24 (315.0)	143	103	75	46	9	.	.	.	4	16	34	92	522
326.25 - 348.74 (337.5)	80	104	63	42	4	.	.	.	6	9	41	77	426
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.00 N, LONG: 80.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 21 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	46	115	2	.	.	.	.	.	.	.	163
1.00 - 1.99	35	601	60	.	.	.	.	.	.	.	696
2.00 - 2.99	.	98	228	8	.	.	.	.	.	.	334
3.00 - 3.99	.	.	32	15	.	.	.	.	.	.	47
4.00 - 4.99	.	.	.	5	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	81	814	322	28	0	0	0	0	0	0	1245

STATION: 21 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	73	182	286	863	1544	1353	628	243	58	15	5245
1.00 - 1.99	28	1150	1602	1619	1853	1641	1056	439	194	22	9604
2.00 - 2.99	.	57	781	616	335	355	285	131	81	10	2651
3.00 - 3.99	.	.	49	302	140	113	80	40	25	4	753
4.00 - 4.99	.	.	.	33	66	18	19	17	30	.	183
5.00 - 5.99	.	.	.	2	7	34	1	.	13	.	57
6.00 - 6.99	.	.	.	.	1	10	.	.	.	.	11
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	101	1389	2718	3435	3946	3524	2069	870	401	51	18504

STATION: 21 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	172	1787	7554	3964	925	352	85	56	19	9	14923
1.00 - 1.99	26	1422	3486	4436	1696	935	338	97	44	12	12492
2.00 - 2.99	.	27	520	615	455	323	132	46	16	3	2137
3.00 - 3.99	.	.	21	96	33	33	44	32	9	1	269
4.00 - 4.99	.	.	.	7	14	3	10	9	18	.	61
5.00 - 5.99	.	.	.	2	2	4	.	3	5	.	16
6.00 - 6.99	.	.	.	1	.	4	1	.	1	.	7
7.00 - 7.99	.	.	.	.	1	.	.	3	3	1	8
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	198	3236	11581	9121	3126	1654	610	246	115	26	29913

STATION: 21 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	114	117	3	.	.	.	.	.	.	.	234
1.00 - 1.99	37	480	51	.	.	.	.	.	.	.	568
2.00 - 2.99	.	35	106	3	.	.	.	.	.	.	144
3.00 - 3.99	.	.	8	3	.	.	.	.	.	.	11
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	151	632	168	6	0	0	0	0	0	0	957

STATION: 21 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	209	1	.	.	.	.	.	.	.	.	210
1.00 - 1.99	145	54	2	.	.	.	.	.	.	.	201
2.00 - 2.99	.	11	8	.	.	.	.	.	.	.	19
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	354	66	10	0	0	0	0	0	0	0	430

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.00 N, LONG: 80.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 21 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	156	.	.	.	.	.	.	.	.	.	156
1.00 - 1.99	178	45	.	.	.	.	.	.	.	.	223
2.00 - 2.99	.	7	1	.	.	.	.	.	.	.	8
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	334	53	1	0	0	0	0	0	0	0	388

STATION: 21 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	110	.	.	.	.	.	.	.	.	.	110
1.00 - 1.99	149	15	.	.	.	.	.	.	.	.	164
2.00 - 2.99	.	6	.	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	259	21	0	0	0	0	0	0	0	0	280

STATION: 21 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	50	26	.	.	.	.	.	.	.	.	76
1.00 - 1.99	69	467	1	.	.	.	.	.	.	.	537
2.00 - 2.99	.	189	49	.	.	.	.	.	.	.	238
3.00 - 3.99	.	.	32	.	.	.	.	.	.	.	32
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	119	682	82	0	0	0	0	0	0	0	883

STATION: 21 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	930	2228	7845	4827	2469	1705	713	299	77	24	21117
1.00 - 1.99	667	4234	5202	6055	3549	2576	1394	536	238	34	24485
2.00 - 2.99	.	430	1693	1242	790	678	417	177	97	13	5537
3.00 - 3.99	.	1	142	416	173	146	124	72	34	5	1113
4.00 - 4.99	.	.	.	45	80	21	29	26	48	.	249
5.00 - 5.99	.	.	.	4	9	38	1	3	18	.	73
6.00 - 6.99	.	.	.	1	1	14	1	.	1	.	18
7.00 - 7.99	.	.	.	.	1	.	.	3	3	1	8
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1597	6893	14882	12590	7072	5178	2679	1116	516	77	52600

STATION: 21

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	248	272	334	385	586	865	843	1151	940	450	298	389	6761
2.50 - 4.99	1710	1454	1788	1930	2490	2588	3071	2698	2260	1844	1657	1724	25214
5.00 - 7.49	1008	935	968	1048	1003	643	430	457	593	1096	1200	1053	10434
7.50 - 9.99	1006	969	955	804	342	220	107	110	366	850	874	826	7429
10.00 - 12.49	301	273	271	115	40	3	10	29	93	151	216	326	1828
12.50 - 14.99	155	136	123	36	3	1	2	14	45	63	57	119	754
15.00 - 17.49	34	26	16	2	.	.	1	5	19	7	12	17	139
17.50 - 19.99	2	7	8	.	.	.	.	.	1	3	6	10	37
20.00 - GREATER			1						3				4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.00 N, LONG: 80.50 W, DEPTH: 18 M

STATION: 21

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	684	517	444	337	197	98	64	124	214	611	684	691	4665
22.50 - 67.49 (45.0)	711	620	518	412	470	408	161	350	959	1400	984	897	7890
67.50 - 112.49 (90.0)	578	583	680	698	1004	738	513	1067	1523	1145	973	660	10162
112.50 - 157.49 (135.0)	416	483	734	752	1058	772	939	971	626	348	515	467	8081
157.50 - 202.49 (180.0)	471	466	660	619	704	871	1136	801	414	197	338	424	7101
202.50 - 247.49 (225.0)	318	369	449	467	514	1005	1132	717	288	189	185	315	5948
247.50 - 292.49 (270.0)	486	451	473	574	339	358	440	280	164	236	237	391	4429
292.50 - 337.49 (315.0)	800	583	506	461	178	70	79	154	132	338	404	619	4324
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 21

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.71	1.38	1.26	1.37	0.97	0.96	0.55	1.20	1.06	1.90	1.35	1.77	1.29
1977	1.52	1.22	1.34	1.39	0.95	0.59	0.68	0.97	0.89	1.36	1.91	1.61	1.20
1978	1.59	1.87	1.35	1.05	0.89	0.91	0.75	0.84	1.21	1.95	1.59	1.75	1.31
1979	2.00	1.81	1.61	1.52	1.31	1.15	0.89	0.83	1.52	1.33	1.93	1.71	1.46
1980	1.68	1.87	1.71	1.35	0.96	0.93	0.76	1.04	1.11	1.52	2.02	1.89	1.40
1981	1.24	2.25	2.03	1.25	1.07	0.83	0.76	0.87	1.45	1.46	1.52	1.15	1.32
1982	1.12	1.40	1.33	1.13	1.02	0.81	0.60	0.67	1.01	1.70	1.67	1.42	1.16
1983	1.43	1.81	1.29	1.17	1.07	0.92	0.76	0.78	1.20	1.61	1.43	1.72	1.26
1984	2.17	1.42	1.37	1.17	0.99	0.69	0.77	0.66	1.68	1.56	2.05	1.39	1.33
1985	1.30	1.45	1.27	1.24	0.85	0.68	0.77	0.88	1.83	1.45	1.86	1.34	1.24
1986	1.58	1.29	1.63	1.23	1.33	0.85	0.60	0.91	1.35	1.40	1.62	1.74	1.29
1987	1.96	1.37	1.97	1.30	1.21	0.83	0.71	0.78	0.86	1.65	1.49	1.10	1.27
1988	1.61	1.23	1.09	1.02	1.02	0.90	0.85	0.74	1.10	1.35	1.18	1.05	1.09
1989	1.29	1.12	1.35	1.10	0.86	0.76	0.74	0.97	2.02	1.56	1.19	1.17	1.18
1990	1.21	1.45	1.33	1.63	1.00	0.86	0.91	0.89	1.15	1.46	1.25	1.63	1.23
1991	1.16	1.30	1.08	1.23	1.03	1.07	0.70	0.72	1.35	1.66	1.43	1.23	1.16
1992	1.26	1.14	1.20	1.23	1.02	0.67	0.64	0.83	1.02	1.38	1.64	1.56	1.13
1993	1.79	1.34	1.70	1.36	1.10	0.86	0.67	0.93	0.95	1.31	1.78	1.43	1.27
MEAN	1.54	1.48	1.44	1.26	1.04	0.85	0.73	0.86	1.26	1.53	1.61	1.48	

STATION: 21

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3911 5	33 836	31 9 5	4110 3	24 813	21 7 5	9 426	4214 8	2614 7	4911 5	33 9 3	3710 6	4911 5
1977	34 833	27 9 5	27 812	2813 7	21 7 8	13 425	12 8 5	23 8 8	21 7 8	3110 7	31 734	3815 6	3815 6
1978	30 733	4211 5	31 835	26 731	24 715	24 8 8	13 510	15 7 9	2913 7	4810 5	3413 7	6614 7	6614 7
1979	38 8 0	4110 5	30 8 7	4311 9	24 8 4	20 7 5	24 712	17 7 6	7012 9	31 9 8	4110 4	3710 5	7012 9
1980	5019 6	4418 6	3617 6	23 9 8	1814 6	22 8 4	15 6 9	33 911	1917 9	3212 5	5019 6	4615 7	5019 6
1981	3310 4	5613 6	5920 6	27 7 6	21 712	20 7 6	11 8 8	34 813	4819 8	39 9 3	3417 6	29 732	5920 6
1982	2115 6	2410 7	3310 7	25 8 7	22 9 6	20 611	9 9 7	14 7 6	16 9 9	42 9 0	3916 7	25 711	42 9 0
1983	33 8 7	4417 6	32 731	25 736	22 7 8	20 7 6	16 6 5	40 9 6	3510 5	3312 6	2814 7	5413 4	5413 4
1984	5013 4	33 814	2510 8	2215 7	24 7 1	19 636	11 5 8	18 516	5011 7	2812 7	6714 5	2611 9	6714 5
1985	41 9 1	29 8 1	35 9 7	26 8 9	20 8 5	15 615	4510 9	20 517	7817 8	5811 8	3210 9	2922 6	7817 8
1986	4611 5	29 836	4410 4	3516 6	3116 6	21 7 5	11 423	18 8 5	3116 8	4311 5	4510 5	4512 5	4611 5
1987	5013 5	34 9 7	3714 6	2712 7	2212 6	16 9 8	16 5 9	1614 6	13 8 8	29 8 7	2510 8	24 7 4	5013 5
1988	4616 7	29 7 2	21 633	21 632	17 6 3	16 8 8	21 8 7	31 712	21 711	26 9 4	39 912	3617 6	4616 7
1989	5213 4	2810 5	42 9 2	20 7 5	17 615	1110 7	12 8 9	17 9 9	7719 8	3410 4	2212 7	29 834	7719 8
1990	23 634	30 9 7	3210 6	28 9 7	19 713	1410 8	17 7 2	2215 9	1812 7	3611 8	30 8 4	28 9 5	3611 8
1991	2512 7	29 9 6	25 7 8	27 9 8	23 8 9	28 9 5	10 8 9	2911 8	4817 8	3012 7	2915 6	30 9 5	4817 8
1992	3012 8	2910 7	24 8 5	3110 5	19 9 6	12 515	9 710	32 8 8	18 9 7	26 813	32 9 7	2613 6	32 9 7
1993	5411 3	26 9 5	5113 6	2713 7	1813 5	17 613	10 7 8	3414 7	3014 7	23 9 5	4212 5	3410 6	5411 3
MAX	5411 3	5613 6	5920 6	4311 9	3116 6	28 9 5	4510 9	4214 8	7817 8	5811 8	6714 5	6614 7	

MAX Hmo(m): 7.8 MAX Tp(sec): 17. MAX Dp(deg): 79. DATE(gmt): 85092618

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 165. DATE(gmt): 79090406

MEAN Hmo(m): 1.3 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.25 N LONG: 80.75 W DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 22

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	37	34	39	79	133	226	316	297	109	5	44	95	1414
0.50 - 0.99	1113	1002	1187	1386	2118	3007	3688	3029	1553	841	714	1250	20888
1.00 - 1.49	1420	1464	1627	1638	1670	834	382	847	1500	1548	1420	1430	15780
1.50 - 1.99	910	824	843	847	404	208	46	173	642	1162	1091	720	7870
2.00 - 2.49	504	353	432	252	110	36	27	47	265	529	563	463	3581
2.50 - 2.99	224	214	176	90	29	9	2	40	114	201	298	251	1648
3.00 - 3.49	140	71	107	12	.	.	2	23	41	102	95	158	751
3.50 - 3.99	56	58	21	12	.	.	1	6	36	52	43	39	323
4.00 - 4.49	26	27	11	4	.	.	.	2	18	14	34	21	158
4.50 - 4.99	23	4	18	.	.	.	.	.	14	5	5	17	84
5.00 - 5.49	7	10	3	.	.	.	.	.	14	3	2	6	45
5.50 - 5.99	4	11	.	.	.	.	.	.	3	1	1	9	29
6.00 - 6.49	.	.	.	.	.	.	.	.	2	1	7	2	12
6.50 - 6.99	.	.	.	.	.	.	.	.	3	.	4	3	10
7.00 - 7.49	.	.	.	.	.	.	.	.	3	.	1	.	4
7.50 - 7.99	.	.	.	.	.	.	.	.	3	.	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 22

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	23	8	22	8	17	42	73	57	30	2	5	17	304
4.0 - 4.9	171	181	163	142	125	175	114	95	58	45	78	187	1534
5.0 - 5.9	284	325	233	213	244	165	111	150	235	189	168	278	2595
6.0 - 6.9	280	318	270	182	302	476	584	448	487	448	281	353	4429
7.0 - 7.9	245	255	360	310	566	874	1031	1188	693	602	465	366	6955
8.0 - 8.9	315	433	404	412	913	1078	1334	1212	591	689	521	469	8371
9.0 - 9.9	596	508	517	513	766	610	618	531	530	753	743	508	7193
10.0 - 10.9	623	540	540	472	416	318	254	265	396	523	598	377	5322
11.0 - 11.9	393	342	370	446	336	206	173	157	308	368	366	360	3825
12.0 - 12.9	322	193	378	463	303	160	94	100	262	296	246	315	3132
13.0 - 13.9	289	169	378	493	224	102	46	87	222	201	240	334	2785
14.0 - 14.9	280	185	313	286	130	60	19	64	169	116	200	326	2148
15.0 - 15.9	190	133	204	167	68	39	9	37	130	87	134	244	1442
16.0 - 16.9	164	178	116	104	31	13	4	27	79	59	105	133	1013
17.0 - 17.9	106	121	63	48	10	2	.	22	42	34	69	72	589
18.0 - 18.9	89	87	54	19	7	.	.	17	32	23	38	62	428
19.0 - 19.9	52	44	37	20	3	.	.	3	22	16	40	25	262
20.0 - LONGER	42	52	42	22	3	.	.	4	34	13	23	38	273
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 22

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	124	163	91	51	19	6	1	.	11	40	106	167	779
11.25 - 33.74 (22.5)	113	96	47	59	37	7	10	6	40	147	115	189	866
33.75 - 56.24 (45.0)	375	376	206	231	317	174	87	166	372	559	342	337	3542
56.25 - 78.74 (67.5)	1857	1642	2079	2150	1702	1301	625	833	2043	2303	1978	2107	20620
78.75 - 101.24 (90.0)	1468	1253	1432	1367	1870	2145	2674	2815	1638	1283	1560	1185	20690
101.25 - 123.74 (112.5)	79	103	140	197	342	460	889	524	132	70	78	101	3115
123.75 - 146.24 (135.0)	48	45	95	50	72	43	30	34	13	7	7	22	466
146.25 - 168.74 (157.5)	15	20	57	14	22	14	13	25	13	2	7	15	217
168.75 - 191.24 (180.0)	22	23	54	22	19	21	20	22	15	3	8	28	257
191.25 - 213.74 (202.5)	18	25	32	21	15	40	31	21	28	6	9	28	274
213.75 - 236.24 (225.0)	6	21	34	21	17	67	22	12	4	4	7	25	240
236.25 - 258.74 (247.5)	18	22	20	9	5	33	30	4	1	2	3	31	178
258.75 - 281.24 (270.0)	29	26	24	10	5	8	32	.	1	4	7	21	167
281.25 - 303.74 (292.5)	69	65	64	27	7	1	.	.	1	6	10	25	235
303.75 - 326.24 (315.0)	143	83	77	48	8	.	.	2	1	16	37	93	508
326.25 - 348.74 (337.5)	80	109	52	43	7	.	.	.	7	12	46	90	446
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.25 N, LONG: 80.75 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 22 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	65	116	1	.	.	.	.	.	.	.	182
1.00 - 1.99	37	626	97	.	.	.	.	.	.	.	760
2.00 - 2.99	.	134	218	5	.	.	.	.	.	.	357
3.00 - 3.99	.	.	56	16	.	.	.	.	.	.	72
4.00 - 4.99	.	.	1	14	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	102	876	373	35	0	0	0	0	0	0	1386

STATION: 22 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	90	194	252	777	1242	1062	522	187	46	12	4384
1.00 - 1.99	24	1117	1409	1170	1198	1002	546	307	160	10	6943
2.00 - 2.99	.	64	787	466	216	229	160	78	43	10	2053
3.00 - 3.99	.	.	55	299	98	66	44	28	18	1	609
4.00 - 4.99	.	.	1	39	70	15	5	5	20	.	155
5.00 - 5.99	.	.	.	2	16	30	.	.	3	.	51
6.00 - 6.99	.	.	.	.	1	10	.	.	.	.	11
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	114	1375	2504	2753	2841	2415	1277	605	290	33	14207

STATION: 22 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	165	1807	7962	4379	1375	725	229	108	45	12	16807
1.00 - 1.99	28	1388	3690	4551	2147	1375	626	177	60	20	14062
2.00 - 2.99	.	37	560	656	531	348	254	67	24	2	2479
3.00 - 3.99	.	.	36	128	42	54	55	40	15	1	371
4.00 - 4.99	.	.	1	6	16	5	13	9	22	.	72
5.00 - 5.99	.	.	.	1	2	6	1	7	6	1	23
6.00 - 6.99	.	.	.	.	2	5	.	2	1	1	11
7.00 - 7.99	.	.	.	.	1	.	.	2	3	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	193	3232	12249	9721	4116	2518	1178	412	176	36	33831

STATION: 22 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	119	138	6	.	.	.	.	.	.	.	263
1.00 - 1.99	41	487	46	.	.	.	.	.	.	.	574
2.00 - 2.99	.	29	119	2	.	.	.	.	.	.	150
3.00 - 3.99	.	.	11	4	.	.	.	.	.	.	15
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	160	654	182	6	0	0	0	0	0	0	1002

STATION: 22 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	228	1	.	.	.	.	.	.	.	.	229
1.00 - 1.99	175	55	1	.	.	.	.	.	.	.	231
2.00 - 2.99	.	12	6	.	.	.	.	.	.	.	18
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	403	68	7	0	0	0	0	0	0	0	478

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.25 N, LONG: 80.75 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 22 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	201	.	.	.	.	.	.	.	.	.	201
1.00 - 1.99	210	50	.	.	.	.	.	.	.	.	260
2.00 - 2.99	.	8	.	.	.	.	.	.	.	.	8
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	411	59	0	0	0	0	0	0	0	0	470

STATION: 22 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	154	.	.	.	.	.	.	.	.	.	154
1.00 - 1.99	164	21	.	.	.	.	.	.	.	.	185
2.00 - 2.99	.	7	.	.	.	.	.	.	.	.	7
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	318	28	0	0	0	0	0	0	0	0	346

STATION: 22 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	68	14	.	.	.	.	.	.	.	.	82
1.00 - 1.99	69	566	.	.	.	.	.	.	.	.	635
2.00 - 2.99	.	151	6	.	.	.	.	.	.	.	157
3.00 - 3.99	.	1	5	.	.	.	.	.	.	.	6
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	137	732	11	0	0	0	0	0	0	0	880

STATION: 22 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1090	2270	8221	5156	2617	1787	751	295	91	24	22302
1.00 - 1.99	748	4310	5243	5721	3345	2377	1172	484	220	30	23650
2.00 - 2.99	.	442	1696	1129	747	577	414	145	67	12	5229
3.00 - 3.99	.	2	163	447	140	120	99	68	33	2	1074
4.00 - 4.99	.	.	3	59	86	20	18	14	42	.	242
5.00 - 5.99	.	.	.	3	18	36	1	7	9	.	74
6.00 - 6.99	.	.	.	.	3	15	.	2	1	1	22
7.00 - 7.99	.	.	.	.	1	1	.	2	3	.	7
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1838	7024	15326	12515	6957	4933	2455	1017	466	69	52600

STATION: 22

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	259	295	349	406	629	885	856	1145	983	445	312	418	6982
2.50 - 4.99	1731	1465	1805	1939	2493	2567	3043	2723	2216	1855	1706	1741	25284
5.00 - 7.49	970	920	938	1048	963	652	439	438	574	1093	1160	1013	10208
7.50 - 9.99	1000	952	953	772	341	209	113	108	376	849	856	819	7348
10.00 - 12.49	301	265	278	114	35	6	11	32	100	149	219	317	1827
12.50 - 14.99	158	138	116	39	3	1	1	12	48	62	50	129	757
15.00 - 17.49	41	29	16	2	.	.	1	6	15	8	9	15	142
17.50 - 19.99	4	8	6	.	.	.	.	.	5	3	8	12	46
20.00 - GREATER	.	.	3	.	.	.	.	.	3	.	.	.	6
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.25 N, LONG: 80.75 W, DEPTH: 22 M

STATION: 22

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	688	521	438	325	198	101	59	125	223	614	670	681	4643
22.50 - 67.49 (45.0)	709	620	505	388	444	400	152	341	961	1387	990	875	7772
67.50 - 112.49 (90.0)	556	554	652	679	978	735	492	1045	1511	1131	946	654	9933
112.50 - 157.49 (135.0)	402	485	737	754	1030	716	890	950	606	356	505	470	7901
157.50 - 202.49 (180.0)	472	466	665	618	731	863	1098	775	411	200	356	405	7060
202.50 - 247.49 (225.0)	329	383	452	488	542	1033	1185	767	307	182	190	346	6204
247.50 - 292.49 (270.0)	510	454	497	612	351	393	499	308	172	244	240	406	4686
292.50 - 337.49 (315.0)	798	589	518	456	190	79	89	153	129	350	423	627	4401
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 22

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.70	1.35	1.24	1.36	0.95	0.95	0.54	1.21	1.06	1.89	1.35	1.76	1.28
1977	1.48	1.21	1.32	1.35	0.94	0.57	0.67	0.94	0.88	1.38	1.90	1.58	1.18
1978	1.58	1.79	1.30	1.01	0.87	0.89	0.74	0.82	1.19	1.92	1.58	1.74	1.28
1979	1.98	1.75	1.59	1.49	1.29	1.14	0.90	0.83	1.52	1.30	1.90	1.68	1.45
1980	1.60	1.78	1.65	1.33	0.92	0.92	0.75	1.03	1.10	1.53	1.95	1.87	1.37
1981	1.22	2.23	1.85	1.22	1.04	0.81	0.74	0.86	1.42	1.44	1.46	1.10	1.28
1982	1.05	1.37	1.31	1.13	0.99	0.79	0.58	0.65	1.00	1.67	1.65	1.38	1.13
1983	1.43	1.75	1.26	1.13	1.05	0.92	0.75	0.77	1.18	1.57	1.42	1.75	1.25
1984	2.14	1.40	1.31	1.11	0.95	0.66	0.74	0.65	1.74	1.50	2.03	1.37	1.30
1985	1.28	1.41	1.25	1.19	0.84	0.65	0.75	0.88	1.83	1.48	1.83	1.28	1.32
1986	1.55	1.24	1.60	1.17	1.25	0.83	0.59	0.87	1.37	1.38	1.61	1.74	1.22
1987	1.91	1.37	1.88	1.25	1.19	0.82	0.69	0.76	0.85	1.61	1.45	1.06	1.27
1988	1.55	1.18	1.03	0.95	0.98	0.88	0.84	0.72	1.08	1.34	1.16	1.00	1.24
1989	1.28	1.09	1.33	1.07	0.85	0.74	0.73	0.95	2.00	1.55	1.18	1.13	1.06
1990	1.16	1.40	1.30	1.61	0.97	0.84	0.90	0.86	1.15	1.47	1.22	1.60	1.16
1991	1.13	1.26	1.03	1.21	1.01	1.05	0.68	0.71	1.38	1.65	1.37	1.20	1.20
1992	1.23	1.10	1.17	1.18	0.99	0.65	0.62	0.81	1.01	1.37	1.59	1.51	1.14
1993	1.74	1.30	1.65	1.30	1.07	0.83	0.65	0.90	0.93	1.31	1.76	1.38	1.10
MEAN	1.50	1.44	1.39	1.23	1.01	0.83	0.71	0.85	1.26	1.52	1.58	1.45	1.24

STATION: 22

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4011 5	33 8 0	31 9 5	4310 3	26 814	23 8 5	10 426	4014 8	2614 7	5111 5	34 9 3	3710 6	5111 5
1977	34 9 0	28 8 5	29 813	26 810	21 7 8	12 426	12 8 6	24 8 8	22 7 8	3310 7	3113 7	3615 7	3615 7
1978	2911 6	4612 5	31 835	25 631	26 813	24 8 8	12 510	14 7 9	2812 7	4710 5	3413 7	6614 7	6614 7
1979	36 8 0	4410 6	33 910	4411 9	25 8 5	20 7 6	25 712	18 7 6	7312 9	32 9 9	4111 5	3810 5	7312 9
1980	4418 7	43 9 1	3316 6	22 9 9	1816 7	22 8 4	14 6 9	35 911	1816 9	3112 6	4419 7	4711 5	4711 5
1981	34 9 3	5613 7	5020 7	27 7 7	21 713	20 7 6	11 8 8	35 811	4818 8	40 9 3	3010 7	28 9 5	5613 7
1982	2014 7	25 9 8	3410 7	26 8 7	22 9 7	19 611	8 9 7	14 7 6	15 9 9	44 9 0	3715 7	26 712	44 9 0
1983	3310 8	4411 7	32 814	24 7 1	22 7 9	22 7 7	16 7 6	38 8 4	3610 5	3212 6	2714 7	5814 5	5814 5
1984	5213 4	34 814	25 621	22 711	28 7 1	19 636	11 5 8	17 516	5012 7	2712 7	7013 5	27 7 7	7013 5
1985	45 9 0	31 8 1	34 9 7	27 8 9	20 8 5	15 615	44 9 9	21 517	7617 8	6111 8	31 713	2922 7	7617 8
1986	4810 6	31 8 0	4711 4	3116 6	2914 7	21 7 5	11 424	19 8 5	3616 8	4411 5	4610 5	4712 5	4810 6
1987	5011 3	36 9 7	3810 9	2712 7	2112 6	16 9 8	16 5 8	1515 6	13 8 8	28 7 5	25 7 4	22 6 3	5011 3
1988	4616 7	29 7 1	18 532	18 532	17 6 3	16 8 9	22 8 7	31 712	21 711	28 9 4	39 911	3117 6	4616 7
1989	5814 3	2810 6	40 9 2	21 7 5	17 615	1110 7	12 8 9	16 910	7719 8	3610 4	2212 7	29 835	7719 8
1990	21 635	32 8 9	3210 6	28 9 7	20 714	1410 9	18 7 2	2115 9	1913 8	38 813	30 8 4	28 9 5	38 813
1991	2512 7	29 9 7	24 7 9	27 9 8	23 8 9	28 9 5	9 810	2710 8	5518 8	3012 7	2515 6	30 9 6	5518 8
1992	3011 9	2910 7	24 8 5	2911 6	1810 7	12 516	9 810	32 9 8	18 7 3	27 812	32 9 7	2610 6	32 9 7
1993	5812 4	26 9 5	4913 6	2814 7	1612 6	17 612	10 7 8	3414 7	3014 7	24 9 5	4312 6	3310 6	5812 4
MAX	5812 4	5613 7	5020 7	4411 9	2914 7	28 9 5	44 9 9	4014 8	7719 8	6111 8	7013 5	6614 7	

MAX Hmo(m): 7.7 MAX Tp(sec): 19. MAX Dp(deg): 83. DATE(gmt): 89090821

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 95. DATE(gmt): 79090406

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.50 N, LONG: 81.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 23

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	69	78	69	96	154	277	364	342	131	16	50	123	1769
0.50 - 0.99	1245	1147	1318	1521	2281	3016	3665	3046	1641	943	833	1357	22013
1.00 - 1.49	1477	1474	1645	1652	1550	803	369	801	1449	1544	1469	1440	15673
1.50 - 1.99	838	724	798	749	359	184	40	157	599	1147	1029	709	7333
2.00 - 2.49	427	326	358	214	100	34	23	49	252	485	533	394	3195
2.50 - 2.99	206	169	163	66	20	6	.	42	111	189	246	251	1469
3.00 - 3.49	114	64	69	11	.	.	1	18	40	80	76	109	582
3.50 - 3.99	40	44	20	8	.	.	1	9	37	41	50	34	284
4.00 - 4.49	23	20	16	3	.	.	1	.	17	11	17	19	127
4.50 - 4.99	19	7	8	.	.	.	.	.	16	5	2	11	68
5.00 - 5.49	4	19	.	.	.	.	.	.	11	1	2	8	45
5.50 - 5.99	2	.	.	.	.	.	.	.	6	1	5	6	20
6.00 - 6.49	.	.	.	.	.	.	.	.	3	1	5	3	12
6.50 - 6.99	.	.	.	.	.	.	.	.	2	.	3	.	5
7.00 - 7.49	.	.	.	.	.	.	.	.	5	.	.	.	5
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 23

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	30	12	23	12	17	56	87	54	27	3	10	25	356
4.0 - 4.9	258	279	238	203	141	170	124	110	65	59	105	282	2034
5.0 - 5.9	190	262	214	158	198	143	105	127	237	197	146	236	2213
6.0 - 6.9	207	249	208	147	271	459	502	400	432	427	240	274	3816
7.0 - 7.9	198	223	312	270	535	835	1031	1126	687	571	425	296	6509
8.0 - 8.9	291	403	399	400	916	1117	1375	1311	600	662	511	489	8474
9.0 - 9.9	632	554	574	541	828	650	657	528	565	766	750	549	7594
10.0 - 10.9	642	557	558	508	471	314	257	287	411	558	640	417	5620
11.0 - 11.9	424	392	379	467	336	216	174	171	315	387	394	378	4033
12.0 - 12.9	356	199	368	493	301	160	84	102	267	303	245	317	3195
13.0 - 13.9	301	175	385	470	218	94	43	79	218	203	245	342	2773
14.0 - 14.9	301	180	302	295	116	55	15	60	166	107	201	311	2109
15.0 - 15.9	193	143	201	161	69	39	8	37	123	80	138	240	1432
16.0 - 16.9	164	169	115	86	26	9	2	29	72	54	103	135	964
17.0 - 17.9	104	114	60	48	9	3	.	22	46	34	69	68	577
18.0 - 18.9	84	79	50	20	6	.	.	13	30	24	38	48	392
19.0 - 19.9	49	38	37	20	3	.	.	4	18	14	39	27	249
20.0 - LONGER	40	44	41	21	3	.	.	4	41	15	21	30	260
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 23

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	103	136	67	42	15	4	1	.	5	45	95	143	656
11.25 - 33.74 (22.5)	82	83	48	42	36	8	10	2	27	137	95	149	719
33.75 - 56.24 (45.0)	263	215	115	115	158	99	27	78	193	388	195	242	2088
56.25 - 78.74 (67.5)	1936	1735	2065	2186	1738	1258	615	820	2126	2341	1984	2148	20952
78.75 - 101.24 (90.0)	1633	1411	1563	1482	2030	2390	2994	3026	1768	1430	1759	1332	22818
101.25 - 123.74 (112.5)	66	94	148	195	309	331	614	416	114	65	62	81	2495
123.75 - 146.24 (135.0)	50	39	94	53	72	36	27	32	17	8	10	25	463
146.25 - 168.74 (157.5)	18	21	55	15	22	19	12	26	8	4	9	16	225
168.75 - 191.24 (180.0)	22	17	50	28	19	19	20	19	13	2	8	27	244
191.25 - 213.74 (202.5)	19	26	44	24	14	33	35	20	27	7	12	26	287
213.75 - 236.24 (225.0)	11	27	43	18	15	77	26	16	6	3	8	31	281
236.25 - 258.74 (247.5)	22	25	20	13	8	37	37	7	1	3	2	36	211
258.75 - 281.24 (270.0)	34	32	29	12	9	8	42	2	3	3	4	28	206
281.25 - 303.74 (292.5)	71	67	29	35	9	1	4	.	.	9	15	39	279
303.75 - 326.24 (315.0)	79	61	48	30	6	.	.	.	1	9	25	72	331
326.25 - 348.74 (337.5)	55	83	46	30	4	.	.	.	11	10	37	69	345
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.50 N, LONG: 81.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 23 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	107	68									175
1.00 - 1.99	68	597	39	1							705
2.00 - 2.99	.	89	180	1							270
3.00 - 3.99	.	.	27	7							34
4.00 - 4.99	.	.	.	6							6
5.00 - 5.99	.	.	.	.							0
6.00 - 6.99	.	.	.	.							0
7.00 - 7.99	.	.	.	.							0
8.00 - 8.99	.	.	.	.							0
9.00 - GREATER	.	.	.	.							0
TOTAL	175	754	246	15	0	0	0	0	0	0	1190

STATION: 23 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	98	221	215	693	913	787	426	137	.	.	3490
1.00 - 1.99	34	1097	1138	845	822	697	356	106	.	.	5095
2.00 - 2.99	.	50	665	417	148	131	106	30	.	.	1547
3.00 - 3.99	.	.	44	219	82	23	12	8	.	.	388
4.00 - 4.99	.	.	.	29	57	18	.	1	.	.	105
5.00 - 5.99	.	.	.	.	10	23	.	.	.	.	33
6.00 - 6.99	.	.	.	.	.	8	.	.	.	.	8
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	132	1368	2062	2203	2032	1687	900	282	0	0	10666

STATION: 23 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	163	1665	8429	5127	1969	1116	368	177	113	20	19147
1.00 - 1.99	26	1306	3543	5026	2573	1602	776	332	204	30	15418
2.00 - 2.99	.	32	487	694	578	393	263	108	50	10	2615
3.00 - 3.99	.	.	18	133	52	60	70	53	42	1	429
4.00 - 4.99	.	.	.	6	20	7	18	6	27	.	84
5.00 - 5.99	.	.	.	1	2	13	1	7	7	1	32
6.00 - 6.99	.	.	.	.	2	4	.	2	1	.	9
7.00 - 7.99	.	.	.	.	.	.	.	2	3	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	189	3003	12477	10987	5196	3195	1496	687	447	62	37739

STATION: 23 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	143	80	5								228
1.00 - 1.99	44	466	42	1							553
2.00 - 2.99	.	32	132	5							169
3.00 - 3.99	.	.	11	3							14
4.00 - 4.99	.	.	.	.							0
5.00 - 5.99	.	.	.	.							0
6.00 - 6.99	.	.	.	.							0
7.00 - 7.99	.	.	.	.							0
8.00 - 8.99	.	.	.	.							0
9.00 - GREATER	.	.	.	.							0
TOTAL	187	578	190	9	0	0	0	0	0	0	964

STATION: 23 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	226										226
1.00 - 1.99	181	55	1								237
2.00 - 2.99	.	6	4								10
3.00 - 3.99	.	.	.								0
4.00 - 4.99	.	.	.								0
5.00 - 5.99	.	.	.								0
6.00 - 6.99	.	.	.								0
7.00 - 7.99	.	.	.								0
8.00 - 8.99	.	.	.								0
9.00 - GREATER	.	.	.								0
TOTAL	407	61	5	0	0	0	0	0	0	0	473

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.50 N LONG: 81.00 W DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 23 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	223	.	.	.	.	.	.	.	.	.	223
1.00 - 1.99	238	57	.	.	.	.	.	.	.	.	295
2.00 - 2.99	.	7	.	.	.	.	.	.	.	.	7
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	461	65	0	0	0	0	0	0	0	0	526

STATION: 23 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	205	.	.	.	.	.	.	.	.	.	205
1.00 - 1.99	190	20	.	.	.	.	.	.	.	.	210
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	395	30	0	0	0	0	0	0	0	0	425

STATION: 23 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	85	3	.	.	.	.	.	.	.	.	88
1.00 - 1.99	359	134	.	.	.	.	.	.	.	.	493
2.00 - 2.99	.	33	3	.	.	.	.	.	.	.	36
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	444	170	3	0	0	0	0	0	0	0	617

STATION: 23 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1250	2037	8649	5820	2882	1903	794	314	113	20	23782
1.00 - 1.99	1140	3732	4763	5873	3395	2299	1132	438	204	30	23006
2.00 - 2.99	.	259	1471	1117	726	524	369	138	50	10	4664
3.00 - 3.99	.	1	100	362	134	83	82	61	42	1	866
4.00 - 4.99	.	.	.	41	77	25	18	7	27	.	195
5.00 - 5.99	.	.	.	1	12	36	1	7	7	1	65
6.00 - 6.99	.	.	.	.	2	12	.	2	1	.	17
7.00 - 7.99	.	.	.	.	.	.	.	2	3	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2390	6029	14983	13214	7228	4882	2396	969	447	62	52600

STATION: 23

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	312	325	392	450	700	948	923	1188	1053	447	348	459	7545
2.50 - 4.99	1723	1469	1807	1949	2477	2492	2961	2694	2158	1888	1739	1743	25100
5.00 - 7.49	959	916	928	1028	909	673	454	426	555	1091	1115	976	10030
7.50 - 9.99	964	935	940	740	342	195	116	104	358	820	845	825	7184
10.00 - 12.49	300	255	266	112	30	11	7	33	125	147	203	302	1791
12.50 - 14.99	157	134	104	39	6	1	2	12	45	59	52	127	738
15.00 - 17.49	43	29	19	2	.	.	1	5	14	9	8	18	148
17.50 - 19.99	6	9	4	.	.	.	.	2	11	3	9	14	58
20.00 - GREATER	.	.	4	.	.	.	.	.	1	.	1	.	6
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.50 N, LONG: 81.00 W, DEPTH: 18 M

STATION: 23

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	675	513	437	315	208	101	63	120	233	621	662	683	4631
22.50 - 67.49 (45.0)	703	616	485	371	417	406	139	347	941	1365	974	864	7628
67.50 - 112.49 (90.0)	546	539	621	639	945	727	475	1000	1493	1113	910	622	9630
112.50 - 157.49 (135.0)	393	492	740	763	1018	667	830	934	607	372	506	463	7785
157.50 - 202.49 (180.0)	464	446	663	636	737	859	1061	763	408	194	367	414	7012
202.50 - 247.49 (225.0)	354	391	485	509	569	1052	1248	788	311	181	203	358	6449
247.50 - 292.49 (270.0)	523	475	512	628	376	418	550	358	191	268	264	432	4995
292.50 - 337.49 (315.0)	806	600	521	459	194	90	98	154	136	350	434	628	4470
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 23

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.62	1.28	1.20	1.30	0.93	0.94	0.52	1.20	1.04	1.81	1.29	1.65	1.23
1977	1.35	1.15	1.28	1.30	0.91	0.56	0.66	0.91	0.86	1.35	1.81	1.50	1.14
1978	1.48	1.67	1.21	0.95	0.84	0.88	0.73	0.81	1.15	1.84	1.52	1.68	1.23
1979	1.87	1.64	1.54	1.43	1.25	1.12	0.89	0.83	1.51	1.25	1.82	1.60	1.39
1980	1.48	1.64	1.57	1.29	0.88	0.90	0.74	1.01	1.09	1.50	1.83	1.77	1.31
1981	1.15	2.14	1.67	1.19	1.01	0.80	0.72	0.85	1.38	1.37	1.37	1.01	1.21
1982	1.00	1.33	1.25	1.10	0.96	0.76	0.58	0.63	0.96	1.60	1.59	1.33	1.09
1983	1.38	1.67	1.16	1.07	1.01	0.92	0.74	0.76	1.12	1.52	1.37	1.69	1.20
1984	2.04	1.34	1.24	1.05	0.90	0.64	0.73	0.63	1.70	1.42	1.94	1.32	1.24
1985	1.19	1.34	1.20	1.13	0.82	0.62	0.73	0.87	1.80	1.47	1.77	1.20	1.17
1986	1.49	1.17	1.53	1.11	1.17	0.82	0.58	0.84	1.37	1.32	1.57	1.68	1.22
1987	1.80	1.32	1.78	1.18	1.16	0.81	0.67	0.73	0.82	1.52	1.38	0.99	1.18
1988	1.47	1.10	0.96	0.86	0.94	0.85	0.81	0.71	1.06	1.29	1.13	0.94	1.01
1989	1.22	1.04	1.26	1.04	0.83	0.72	0.72	0.94	1.98	1.49	1.16	1.05	1.12
1990	1.11	1.33	1.23	1.56	0.95	0.83	0.87	0.84	1.13	1.43	1.16	1.54	1.16
1991	1.09	1.18	0.98	1.18	0.99	1.04	0.67	0.69	1.37	1.61	1.29	1.16	1.10
1992	1.16	1.04	1.11	1.10	0.95	0.63	0.61	0.78	0.98	1.32	1.50	1.43	1.05
1993	1.67	1.22	1.58	1.23	1.04	0.81	0.64	0.87	0.90	1.28	1.68	1.29	1.18
MEAN	1.42	1.37	1.32	1.17	0.97	0.81	0.70	0.83	1.24	1.47	1.51	1.38	

STATION: 23

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4010 7	29 7 8	29 9 5	4011 4	26 814	24 8 5	10 427	3914 9	2614 7	4911 5	3310 7	3610 7	4911 5
1977	31 8 3	30 814	28 8 9	25 810	21 7 8	13 426	12 6 7	23 8 8	22 7 8	3210 8	3113 7	3415 7	3415 7
1978	26 7 0	4711 6	29 810	20 810	27 813	23 8 8	12 510	14 8 9	2712 7	44 9 5	3413 7	6214 7	6214 7
1979	36 9 8	4510 7	33 911	411110	25 8 5	22 6 7	24 712	18 7 7	6611 8	30 9 9	3910 5	3610 6	6611 8
1980	4018 7	39 9 3	3017 7	2216 7	1716 7	21 8 5	13 510	33 911	1917 9	2912 6	4219 7	4610 5	4610 5
1981	31 8 1	5413 7	4520 7	26 7 7	20 713	20 7 7	11 8 8	36 911	4718 9	36 9 4	2810 7	27 9 6	5413 7
1982	1714 7	26 9 8	3310 7	25 8 8	21 9 7	18 611	810 7	14 6 7	15 9 9	41 9 0	3515 7	25 712	41 9 0
1983	3310 8	4511 8	27 812	22 635	22 7 9	23 7 7	15 6 8	35 9 7	3410 6	3112 7	2714 7	5514 5	5514 5
1984	4913 5	32 814	25 621	22 712	29 8 1	17 6 0	11 5 8	17 515	4912 9	2712 8	6913 6	27 7 7	6913 6
1985	43 9 1	30 8 1	31 9 7	27 9 8	19 8 5	12 516	40 9 9	29 714	7017 8	6111 8	32 812	28 735	7017 8
1986	4611 6	28 735	4511 5	2816 7	2814 7	19 8 7	11 424	19 8 6	3916 8	4211 6	4410 6	4512 6	4611 6
1987	4710 3	35 8 8	3710 9	2512 7	2012 7	16 9 8	15 7 6	1415 7	14 8 8	25 7 3	25 7 4	2010 9	4710 3
1988	4516 7	28 8 3	15 7 9	1514 7	17 6 3	15 8 9	22 8 7	30 711	20 711	27 9 4	34 911	28 9 4	4516 7
1989	5714 4	27 9 5	36 9 3	20 7 5	15 616	12 417	11 8 9	16 910	7419 8	3410 4	2112 8	26 835	7419 8
1990	17 534	31 9 8	3110 7	27 9 7	20 714	1310 9	17 7 2	2215 9	2113 9	37 812	28 9 5	2712 9	37 812
1991	2512 7	27 9 7	22 7 9	25 8 8	23 8 9	29 9 6	10 910	2711 9	5818 8	2912 7	23 735	29 9 6	5818 8
1992	2911 9	2710 7	22 8 6	2711 6	18 7 6	10 421	9 810	30 9 8	18 7 3	25 815	3110 7	2510 7	3110 7
1993	5412 5	24 9 5	4713 7	2814 7	15 8 9	17 610	9 7 8	3414 7	3114 7	24 9 6	4212 7	3110 7	5412 5
MAX	5714 4	5413 7	4713 7	411110	29 8 1	29 9 6	40 9 9	3914 9	7419 8	6111 8	6913 6	6214 7	

MAX Hmo(m): 7.4 MAX Tp(sec): 19. MAX Dp(deg): 83. DATE(gmt): 89090900

MAX WIND SPEED(m/sec): 27. MAX WIND DIRECTION(deg): 40. DATE(gmt): 79090406

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.75 N, LONG: 81.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 24

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	71	75	69	98	138	192	242	244	105	11	46	116	1407
0.50 - 0.99	1198	1113	1224	1437	2136	2953	3675	3041	1566	897	814	1302	21356
1.00 - 1.49	1419	1424	1641	1648	1676	944	466	894	1526	1558	1414	1447	16057
1.50 - 1.99	909	773	843	808	390	190	56	164	607	1150	1093	739	7722
2.00 - 2.49	426	348	396	237	107	30	21	51	266	501	544	406	3333
2.50 - 2.99	234	180	176	69	16	11	1	37	100	201	247	260	1532
3.00 - 3.49	119	70	73	12	1	.	1	20	40	84	86	108	614
3.50 - 3.99	39	38	21	7	.	.	1	12	34	42	42	37	273
4.00 - 4.49	23	23	14	4	.	.	1	1	27	12	17	21	143
4.50 - 4.99	18	9	7	.	.	.	.	.	18	5	2	11	70
5.00 - 5.49	6	17	.	.	.	.	.	.	12	.	1	7	43
5.50 - 5.99	2	2	.	.	.	.	.	.	6	1	6	6	23
6.00 - 6.49	.	.	.	.	.	.	.	.	3	2	4	4	13
6.50 - 6.99	.	.	.	.	.	.	.	.	5	.	2	.	7
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	2	.	4
7.50 - 7.99	.	.	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 24

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	26	7	4	9	11	28	63	27	15	2	14	23	229
4.0 - 4.9	226	243	221	204	154	230	179	153	73	61	100	237	2081
5.0 - 5.9	258	356	329	222	235	134	136	152	258	202	167	363	2812
6.0 - 6.9	277	285	241	175	328	589	668	519	543	443	278	300	4646
7.0 - 7.9	194	242	335	287	601	926	1113	1219	748	611	434	315	7025
8.0 - 8.9	303	420	405	398	906	1049	1229	1150	564	658	536	512	8130
9.0 - 9.9	605	529	540	515	756	549	569	454	521	734	697	521	6990
10.0 - 10.9	630	509	528	483	475	291	238	279	371	558	649	395	5406
11.0 - 11.9	433	384	382	444	313	195	153	165	290	383	384	364	3890
12.0 - 12.9	346	186	346	486	275	150	70	110	261	303	230	307	3070
13.0 - 13.9	286	174	373	461	199	92	35	76	201	205	250	330	2682
14.0 - 14.9	287	172	287	287	103	46	10	59	151	99	199	282	1982
15.0 - 15.9	184	147	172	159	65	32	1	33	117	74	132	235	1351
16.0 - 16.9	150	160	115	82	24	5	.	30	72	43	97	132	910
17.0 - 17.9	96	101	62	49	8	3	.	17	44	41	63	58	542
18.0 - 18.9	74	75	48	18	7	1	.	13	27	21	31	46	361
19.0 - 19.9	48	41	33	22	1	.	.	4	27	10	38	16	240
20.0 - LONGER	41	41	43	19	3	.	.	4	37	16	21	28	253
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 24

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	114	125	52	34	14	5	1	.	6	48	84	135	618
11.25 - 33.74 (22.5)	78	82	43	42	33	7	6	3	18	122	94	146	674
33.75 - 56.24 (45.0)	164	129	81	73	92	59	15	23	87	300	140	184	1347
56.25 - 78.74 (67.5)	1775	1599	1847	2012	1516	1059	471	713	1875	2136	1747	1985	18735
78.75 - 101.24 (90.0)	1502	1276	1475	1339	1834	1682	1390	2119	1747	1638	1830	1119	18951
101.25 - 123.74 (112.5)	375	371	385	474	712	1237	2322	1459	478	153	251	434	8651
123.75 - 146.24 (135.0)	41	38	93	65	97	35	38	33	31	13	16	26	526
146.25 - 168.74 (157.5)	42	42	104	42	43	23	29	28	5	2	16	31	407
168.75 - 191.24 (180.0)	48	43	92	51	41	45	31	32	17	7	17	62	486
191.25 - 213.74 (202.5)	21	36	57	35	23	52	46	24	31	5	19	36	385
213.75 - 236.24 (225.0)	19	30	41	25	18	71	34	21	7	6	9	40	321
236.25 - 258.74 (247.5)	22	30	21	10	7	34	39	8	.	2	1	32	206
258.75 - 281.24 (270.0)	40	38	29	13	10	8	38	1	2	5	7	27	218
281.25 - 303.74 (292.5)	72	68	31	37	11	3	4	.	.	11	17	37	291
303.75 - 326.24 (315.0)	58	55	40	22	6	.	.	.	1	4	23	65	274
326.25 - 348.74 (337.5)	93	110	73	46	7	.	.	.	15	12	49	105	510
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.75 N, LONG: 81.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 24 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	109	64									173
1.00 - 1.99	55	621	30								706
2.00 - 2.99	.	112	182	1							295
3.00 - 3.99	.	.	32	4							36
4.00 - 4.99	.	.	1	7							8
5.00 - 5.99	.	.	.	1							1
6.00 - 6.99	.	.	.	.							0
7.00 - 7.99	.	.	.	.							0
8.00 - 8.99	.	.	.	.							0
9.00 - GREATER	.	.	.	.							0
TOTAL	164	797	245	13	0	0	0	0	0	0	1219

STATION: 24 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	87	183	124	422	510	316	.	.	.	.	1642
1.00 - 1.99	45	1025	789	448	407	298	.	.	.	.	3012
2.00 - 2.99	.	64	613	261	87	31	.	.	.	.	1056
3.00 - 3.99	.	.	57	185	52	8	.	.	.	.	302
4.00 - 4.99	.	.	.	27	51	8	.	.	.	.	86
5.00 - 5.99	.	.	.	.	8	15	.	.	.	.	23
6.00 - 6.99	.	.	.	.	.	6	.	.	.	.	6
7.00 - 7.99	.	.	.	.	.	2	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	132	1272	1583	1343	1115	684	0	0	0	0	6129

STATION: 24 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	140	1906	7899	4722	2147	1441	729	279	108	18	19389
1.00 - 1.99	28	1540	4267	5279	2897	1945	1063	412	192	28	17651
2.00 - 2.99	.	39	589	833	673	482	366	142	55	5	3184
3.00 - 3.99	.	.	26	157	87	73	78	52	46	.	519
4.00 - 4.99	.	.	.	12	31	14	23	9	28	.	117
5.00 - 5.99	.	.	.	1	7	21	1	5	6	1	42
6.00 - 6.99	.	.	.	1	2	4	1	3	2	1	14
7.00 - 7.99	.	.	.	.	1	.	.	1	2	.	4
8.00 - 8.99	.	.	.	.	.	.	.	.	1	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	168	3485	12781	11005	5845	3980	2261	903	440	53	40921

STATION: 24 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	136	404	257	10	.	.	.	.	.	.	807
1.00 - 1.99	42	551	106	5	.	.	.	.	.	.	704
2.00 - 2.99	.	31	153	10	.	.	.	.	.	.	194
3.00 - 3.99	.	.	16	10	.	.	.	.	.	.	26
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	178	986	534	35	0	0	0	0	0	0	1733

STATION: 24 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	217										217
1.00 - 1.99	236	383	1								620
2.00 - 2.99	.	46	10								56
3.00 - 3.99	.	1	.								1
4.00 - 4.99	.	.	.								0
5.00 - 5.99	.	.	.								0
6.00 - 6.99	.	.	.								0
7.00 - 7.99	.	.	.								0
8.00 - 8.99	.	.	.								0
9.00 - GREATER	.	.	.								0
TOTAL	453	430	11	0	0	0	0	0	0	0	894

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.75 N, LONG: 81.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 24 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	243	.	.	.	.	.	.	.	.	.	243
1.00 - 1.99	268	67	.	.	.	.	.	.	.	.	335
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	511	78	0	0	0	0	0	0	0	0	589

STATION: 24 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	198	.	.	.	.	.	.	.	.	.	198
1.00 - 1.99	218	23	.	.	.	.	.	.	.	.	241
2.00 - 2.99	.	13	.	.	.	.	.	.	.	.	13
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	416	36	0	0	0	0	0	0	0	0	452

STATION: 24 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	79	15	.	.	.	.	.	.	.	.	94
1.00 - 1.99	209	301	.	.	.	.	.	.	.	.	510
2.00 - 2.99	.	56	1	.	.	.	.	.	.	.	57
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	288	374	1	0	0	0	0	0	0	0	663

STATION: 24 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1209	2572	8280	5154	2657	1757	729	279	108	18	22763
1.00 - 1.99	1101	4511	5193	5732	3304	2243	1063	412	192	28	23779
2.00 - 2.99	.	371	1548	1105	760	513	366	142	55	5	4865
3.00 - 3.99	.	4	131	356	139	81	78	52	46	.	887
4.00 - 4.99	.	.	3	46	82	22	23	9	28	.	213
5.00 - 5.99	.	.	.	2	15	36	1	5	6	1	66
6.00 - 6.99	.	.	.	1	2	10	1	3	2	1	20
7.00 - 7.99	.	.	.	.	1	2	.	1	2	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	1	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2310	7458	15155	12396	6960	4664	2261	903	440	53	52600

STATION: 24

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	341	353	426	483	733	978	909	1192	1077	497	384	486	7859
2.50 - 4.99	1682	1426	1767	1899	2443	2414	2891	2644	2092	1838	1696	1710	24502
5.00 - 7.49	913	918	901	1039	894	697	530	462	580	1064	1093	962	10053
7.50 - 9.99	974	919	959	739	354	216	122	110	371	819	854	813	7250
10.00 - 12.49	327	270	272	116	33	14	9	37	121	175	211	313	1898
12.50 - 14.99	173	139	109	42	7	1	2	10	50	55	62	147	797
15.00 - 17.49	39	28	21	2	.	.	1	6	13	11	8	17	146
17.50 - 19.99	15	19	5	.	.	.	.	3	13	4	11	16	86
20.00 - GREATER			4						3	1	1		9
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 29.75 N, LONG: 81.00 W, DEPTH: 18 M

STATION: 24

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	666	497	438	309	210	108	54	119	230	628	660	658	4577
22.50 - 67.49	(45.0)	690	598	459	358	405	401	144	354	954	1346	934	841	7484
67.50 - 112.49	(90.0)	516	525	591	605	917	713	456	953	1424	1084	902	604	9290
112.50 - 157.49	(135.0)	377	456	735	741	964	623	740	894	612	355	477	444	7418
157.50 - 202.49	(180.0)	455	450	673	640	774	860	1055	765	407	212	384	416	7091
202.50 - 247.49	(225.0)	378	429	496	550	612	1102	1347	848	340	198	222	388	6910
247.50 - 292.49	(270.0)	556	487	550	650	398	419	568	375	214	279	274	461	5231
292.50 - 337.49	(315.0)	826	630	522	467	184	94	100	156	139	362	467	652	4599
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 24

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.64	1.31	1.24	1.32	0.97	0.99	0.57	1.24	1.06	1.82	1.30	1.67	1.26
1977	1.37	1.18	1.31	1.34	0.95	0.60	0.70	0.94	0.88	1.39	1.84	1.52	1.17
1978	1.53	1.66	1.24	0.98	0.89	0.91	0.77	0.84	1.17	1.83	1.54	1.69	1.25
1979	1.92	1.66	1.57	1.47	1.29	1.15	0.94	0.86	1.55	1.27	1.84	1.60	1.42
1980	1.51	1.63	1.62	1.34	0.90	0.92	0.77	1.03	1.12	1.53	1.83	1.78	1.33
1981	1.16	2.19	1.65	1.21	1.03	0.83	0.75	0.89	1.38	1.39	1.37	1.07	1.23
1982	1.02	1.37	1.28	1.14	0.97	0.78	0.62	0.67	0.98	1.61	1.60	1.36	1.11
1983	1.43	1.70	1.21	1.12	1.05	0.95	0.78	0.80	1.13	1.52	1.40	1.74	1.23
1984	2.04	1.37	1.27	1.07	0.94	0.66	0.78	0.66	1.75	1.40	1.94	1.34	1.27
1985	1.23	1.37	1.23	1.14	0.85	0.66	0.77	0.92	1.83	1.52	1.80	1.20	1.21
1986	1.50	1.18	1.56	1.11	1.17	0.86	0.61	0.87	1.42	1.32	1.59	1.70	1.24
1987	1.80	1.36	1.77	1.20	1.18	0.85	0.70	0.77	0.85	1.50	1.40	1.01	1.20
1988	1.46	1.13	0.98	0.86	0.94	0.87	0.86	0.76	1.10	1.29	1.16	0.94	1.03
1989	1.25	1.07	1.28	1.06	0.86	0.77	0.75	0.96	2.00	1.50	1.19	1.06	1.15
1990	1.13	1.37	1.25	1.59	0.98	0.85	0.92	0.85	1.16	1.48	1.16	1.57	1.19
1991	1.11	1.20	1.05	1.23	1.03	1.06	0.71	0.72	1.42	1.63	1.29	1.16	1.13
1992	1.20	1.06	1.14	1.12	0.96	0.68	0.64	0.82	1.00	1.35	1.52	1.43	1.08
1993	1.69	1.24	1.61	1.24	1.06	0.83	0.67	0.89	0.93	1.31	1.69	1.29	1.20
MEAN	1.44	1.39	1.35	1.20	1.00	0.85	0.74	0.86	1.26	1.48	1.53	1.40	

STATION: 24

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4311 8	30 735	30 8 5	4012 5	26 815	25 8 6	11 419	4210 8	2514 8	4912 6	3310 7	3710 7	4912 6
1977	34 810	31 815	30 810	25 811	21 7 8	13 425	13 6 7	23 8 9	23 8 8	3310 8	3113 7	3415 7	3415 7
1978	28 716	4911 7	29 812	22 810	26 814	24 7 9	14 518	141210	2712 8	44 9 5	3213 8	6214 8	6214 8
1979	37 9 9	4710 7	3415 9	431110	25 8 5	22 7 8	24 712	19 7 7	7012 9	31 9 9	3910 5	3710 7	7012 9
1980	3818 7	38 9 3	3117 8	2413 7	1716 8	21 8 5	13 510	34 911	1917 9	2912 7	4319 8	4615 7	4615 7
1981	32 8 1	5513 7	4220 7	27 7 7	20 714	20 7 7	11 8 8	39 912	5118 9	36 9 4	2810 8	27 9 7	5513 7
1982	20 617	27 9 9	3510 8	26 8 8	21 9 8	17 612	1010 8	14 7 7	16 7 6	42 9 1	3415 8	25 712	42 9 1
1983	3610 9	4811 8	27 814	25 618	23 7 9	25 7 7	15 6 9	35 9 8	3410 6	3112 7	2714 7	5614 6	5614 6
1984	4813 5	32 814	28 620	23 712	31 8 2	17 636	13 519	17 516	5512 9	2912 9	7114 7	27 7 7	7114 7
1985	43 9 1	30 8 2	32 9 7	28 9 9	20 8 6	14 615	411010	37 814	7217 9	6412 9	32 813	28 734	7217 9
1986	4711 7	2617 7	4611 5	2716 7	2714 7	19 8 7	11 424	19 8 6	4516 9	4211 6	4510 6	4612 7	4711 7
1987	4811 4	37 9 8	3811 9	2212 7	2012 7	16 9 9	15 5 9	1411 9	14 8 8	26 8 4	25 7 4	2110 9	4811 4
1988	4416 8	29 7 2	15 710	15 533	1710 7	14 8 9	23 8 7	32 811	20 712	29 8 4	32 912	29 8 3	4416 8
1989	5814 4	2610 7	36 9 4	20 7 5	15 616	15 517	11 6 9	16 910	8019 9	3410 5	2112 8	26 836	8019 9
1990	19 634	32 9 8	3110 7	28 9 7	21 714	1410 9	1910 9	211510	2413 9	3711 9	28 8 5	2913 9	3711 9
1991	2512 7	27 9 7	22 7 9	26 9 8	23 810	29 8 7	12 419	2911 9	6718 9	3012 8	23 8 1	28 9 6	6718 9
1992	3011 9	2710 8	22 8 6	27 8 5	1710 7	12 515	9 422	30 9 8	19 6 1	25 816	3010 7	2610 7	3010 7
1993	5412 5	24 8 5	4613 7	2814 7	15 9 9	17 610	9 7 9	3614 9	3214 7	25 8 7	4312 7	3110 7	5412 5
MAX	5814 4	5513 7	4613 7	431110	31 8 2	29 8 7	411010	4210 8	8019 9	6412 9	7114 7	6214 8	

MAX Hmo(m): 8.0 MAX Tp(sec): 19. MAX Dp(deg): 86. DATE(gmt): 89090900

MAX WIND SPEED(m/sec): 26. MAX WIND DIRECTION(deg): 40. DATE(gmt): 79090409

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.00 N, LONG: 81.00 W, DEPTH: 20 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 25

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	69	75	72	100	121	139	170	168	98	16	52	112	1192
0.50 - 0.99	1121	1058	1136	1391	2031	2840	3580	3007	1524	862	767	1241	20558
1.00 - 1.49	1354	1390	1640	1586	1754	1094	601	960	1540	1546	1330	1425	16220
1.50 - 1.99	948	795	841	870	430	198	85	195	593	1161	1188	774	8078
2.00 - 2.49	481	379	456	265	99	33	23	59	295	491	561	432	3574
2.50 - 2.99	252	205	188	83	28	15	2	36	111	231	255	270	1676
3.00 - 3.49	135	73	81	7	1	1	.	23	45	96	86	119	667
3.50 - 3.99	51	38	33	13	.	.	2	10	27	40	41	38	293
4.00 - 4.49	22	24	10	4	.	.	.	4	30	10	20	22	146
4.50 - 4.99	20	12	7	1	.	.	1	2	23	6	5	11	88
5.00 - 5.49	5	19	.	.	.	.	.	.	9	2	1	6	42
5.50 - 5.99	5	4	.	.	.	.	.	.	12	1	4	9	35
6.00 - 6.49	1	.	.	.	.	.	.	.	3	1	5	4	14
6.50 - 6.99	.	.	.	.	.	.	.	.	6	.	4	1	11
7.00 - 7.49	.	.	.	.	.	.	.	.	3	1	1	.	5
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 25

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	20	9	4	5	8	20	54	25	14	2	8	22	191
4.0 - 4.9	195	199	175	173	134	186	148	141	70	51	82	178	1732
5.0 - 5.9	324	396	331	260	246	141	139	142	227	224	213	407	3050
6.0 - 6.9	336	341	343	217	335	571	574	479	571	451	290	346	4854
7.0 - 7.9	236	280	336	292	643	973	1187	1246	786	637	457	300	7373
8.0 - 8.9	301	432	426	431	973	1118	1333	1226	590	681	576	540	8627
9.0 - 9.9	629	527	610	548	784	577	601	457	541	749	703	595	7321
10.0 - 10.9	649	524	542	461	435	263	208	270	344	533	633	400	5262
11.0 - 11.9	409	359	338	420	270	169	133	162	267	366	378	352	3623
12.0 - 12.9	310	179	322	470	256	137	63	103	248	282	212	291	2873
13.0 - 13.9	259	163	339	431	185	85	21	72	196	200	221	304	2476
14.0 - 14.9	287	154	254	278	96	42	3	57	143	92	186	255	1847
15.0 - 15.9	152	129	157	160	63	29	.	31	116	69	123	219	1248
16.0 - 16.9	130	144	115	77	21	4	.	26	76	42	94	129	858
17.0 - 17.9	80	101	59	45	6	4	.	10	41	38	63	48	495
18.0 - 18.9	66	63	42	16	7	1	.	9	28	21	27	35	315
19.0 - 19.9	43	35	31	21	2	.	.	4	27	14	30	18	225
20.0 - LONGER	38	37	40	15	.	.	.	4	35	12	24	25	230
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 25

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	132	146	54	40	15	6	.	.	10	61	98	156	718
11.25 - 33.74 (22.5)	88	77	48	39	33	5	9	4	20	150	94	157	724
33.75 - 56.24 (45.0)	126	119	66	63	87	45	11	17	73	269	129	169	1174
56.25 - 78.74 (67.5)	1435	1351	1576	1845	1282	885	364	553	1631	1897	1458	1702	15979
78.75 - 101.24 (90.0)	1604	1278	1489	1330	1797	1525	1141	1894	1800	1755	1965	1191	18769
101.25 - 123.74 (112.5)	498	519	573	592	945	1593	2679	1827	670	244	355	589	11084
123.75 - 146.24 (135.0)	46	57	100	85	117	49	43	52	38	18	27	30	662
146.25 - 168.74 (157.5)	53	47	125	47	37	29	17	24	8	5	18	35	445
168.75 - 191.24 (180.0)	54	55	99	61	46	31	38	23	11	9	28	63	518
191.25 - 213.74 (202.5)	27	26	53	28	30	41	45	20	31	7	22	39	369
213.75 - 236.24 (225.0)	16	32	47	26	24	74	40	31	6	5	8	35	344
236.25 - 258.74 (247.5)	23	37	26	15	11	26	35	11	.	4	1	33	222
258.75 - 281.24 (270.0)	41	43	26	12	6	9	36	.	2	4	6	26	211
281.25 - 303.74 (292.5)	82	69	31	37	14	2	6	.	.	11	13	37	302
303.75 - 326.24 (315.0)	132	89	73	46	15	.	.	8	8	11	48	108	538
326.25 - 348.74 (337.5)	107	127	78	54	5	.	.	.	12	14	50	94	541
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.00 N, LONG: 81.00 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 25 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	102	70	.	.	.	.	.	.	.	.	172
1.00 - 1.99	30	645	33	.	.	.	.	.	.	.	708
2.00 - 2.99	.	138	244	1	.	.	.	.	.	.	383
3.00 - 3.99	.	.	69	1	.	.	.	.	.	.	70
4.00 - 4.99	.	.	.	9	.	.	.	.	.	.	9
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	132	853	346	11	0	0	0	0	0	0	1342

STATION: 25 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	73	160	77	273	330	47	.	.	.	.	960
1.00 - 1.99	46	960	539	222	214	50	.	.	.	.	2031
2.00 - 2.99	.	75	612	156	32	.	.	.	.	.	875
3.00 - 3.99	.	.	70	164	30	.	.	.	.	.	264
4.00 - 4.99	.	.	.	32	37	6	.	.	.	.	75
5.00 - 5.99	.	.	.	3	10	13	.	.	.	.	26
6.00 - 6.99	.	.	.	.	.	8	.	.	.	.	8
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	119	1195	1298	850	653	124	0	0	0	0	4239

STATION: 25 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	127	1506	7708	4621	2069	1525	667	235	109	12	18579
1.00 - 1.99	29	1474	4847	5868	2893	2083	977	365	162	35	18733
2.00 - 2.99	.	47	684	929	713	479	362	143	52	4	3413
3.00 - 3.99	.	.	33	208	98	65	75	51	44	1	575
4.00 - 4.99	.	.	.	16	57	14	22	10	19	1	139
5.00 - 5.99	.	.	.	3	10	24	1	4	8	1	51
6.00 - 6.99	.	.	.	.	1	7	2	2	5	.	17
7.00 - 7.99	.	.	.	.	2	2	.	.	2	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	156	3027	13272	11645	5843	4199	2106	810	401	54	41513

STATION: 25 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	118	557	649	20	.	.	.	.	.	.	1344
1.00 - 1.99	42	627	199	21	.	.	.	.	.	.	889
2.00 - 2.99	.	45	179	12	.	.	.	.	.	.	236
3.00 - 3.99	.	.	19	14	.	.	.	.	.	.	33
4.00 - 4.99	.	.	1	10	.	.	.	.	.	.	11
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	160	1229	1047	77	0	0	0	0	0	0	2513

STATION: 25 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	172	13	.	.	.	.	.	.	.	.	185
1.00 - 1.99	63	524	1	.	.	.	.	.	.	.	588
2.00 - 2.99	.	134	15	.	.	.	.	.	.	.	149
3.00 - 3.99	.	.	9	.	.	.	.	.	.	.	9
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	235	671	25	0	0	0	0	0	0	0	931

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.00 N, LONG: 81.00 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 25 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	244	.	.	.	.	.	.	.	.	.	244
1.00 - 1.99	302	70	.	.	.	.	.	.	.	.	372
2.00 - 2.99	.	11	.	.	.	.	.	.	.	.	11
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	546	82	0	0	0	0	0	0	0	0	628

STATION: 25 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	157	.	.	.	.	.	.	.	.	.	157
1.00 - 1.99	240	24	.	.	.	.	.	.	.	.	264
2.00 - 2.99	.	16	.	.	.	.	.	.	.	.	16
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	397	41	0	0	0	0	0	0	0	0	438

STATION: 25 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	96	13	.	.	.	.	.	.	.	.	109
1.00 - 1.99	82	631	.	.	.	.	.	.	.	.	713
2.00 - 2.99	.	162	5	.	.	.	.	.	.	.	167
3.00 - 3.99	.	.	7	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	178	806	12	0	0	0	0	0	0	0	996

STATION: 25 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1089	2319	8434	4914	2399	1572	667	235	109	12	21750
1.00 - 1.99	834	4955	5619	6111	3107	2133	977	365	162	35	24298
2.00 - 2.99	.	628	1739	1098	745	479	362	143	52	4	5250
3.00 - 3.99	.	2	207	387	128	65	75	51	44	1	960
4.00 - 4.99	.	.	1	67	94	20	22	10	19	1	234
5.00 - 5.99	.	.	.	6	20	37	1	4	8	1	77
6.00 - 6.99	.	.	.	.	1	15	2	2	5	.	25
7.00 - 7.99	.	.	.	.	2	2	.	.	2	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1923	7904	16000	12583	6496	4323	2106	810	401	54	52600

STATION: 25

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	385	381	466	507	777	991	905	1204	1100	518	421	509	8164
2.50 - 4.99	1603	1376	1719	1843	2394	2371	2822	2604	2024	1809	1695	1667	23927
5.00 - 7.49	914	925	882	1054	880	693	584	476	612	1021	1033	934	10008
7.50 - 9.99	946	872	964	732	364	243	140	125	378	833	858	811	7266
10.00 - 12.49	362	317	284	132	41	19	8	33	121	205	219	339	2080
12.50 - 14.99	190	145	116	47	8	3	4	13	53	61	72	170	882
15.00 - 17.49	45	33	24	5	.	.	1	4	15	11	9	16	163
17.50 - 19.99	18	20	5	.	.	.	.	5	12	3	10	18	91
20.00 - GREATER	1	3	4	.	.	.	.	.	5	3	3	.	19
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.00 N, LONG: 81.00 W, DEPTH: 20 M

STATION: 25

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	657	495	428	313	208	103	60	111	223	621	653	648	4520
22.50 - 67.49 (45.0)	683	588	447	349	410	411	137	371	976	1333	917	838	7460
67.50 - 112.49 (90.0)	493	497	564	570	875	678	448	915	1360	1067	847	572	8886
112.50 - 157.49 (135.0)	368	442	717	729	896	607	656	844	609	337	499	413	7117
157.50 - 202.49 (180.0)	450	452	676	621	814	840	1063	760	406	232	372	433	7119
202.50 - 247.49 (225.0)	391	464	528	604	658	1149	1408	906	369	204	247	413	7341
247.50 - 292.49 (270.0)	586	507	578	687	428	440	597	402	234	299	316	493	5567
292.50 - 337.49 (315.0)	836	627	526	447	175	92	95	155	143	371	469	654	4590
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 25

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.71	1.37	1.27	1.34	1.02	1.05	0.60	1.28	1.08	1.82	1.33	1.72	1.30
1977	1.42	1.23	1.34	1.38	0.98	0.63	0.72	0.96	0.90	1.44	1.87	1.57	1.20
1978	1.61	1.69	1.27	1.01	0.93	0.94	0.81	0.89	1.18	1.81	1.55	1.73	1.28
1979	1.98	1.71	1.59	1.51	1.33	1.18	1.00	0.91	1.61	1.28	1.88	1.62	1.46
1980	1.54	1.63	1.67	1.39	0.91	0.96	0.80	1.07	1.15	1.56	1.84	1.79	1.36
1981	1.17	2.23	1.64	1.25	1.05	0.86	0.79	0.93	1.38	1.39	1.37	1.14	1.26
1982	1.04	1.44	1.31	1.18	0.98	0.81	0.65	0.70	1.01	1.63	1.61	1.39	1.14
1983	1.50	1.74	1.27	1.15	1.09	0.99	0.82	0.84	1.14	1.52	1.44	1.77	1.27
1984	2.05	1.42	1.30	1.08	0.96	0.68	0.83	0.69	1.82	1.39	1.96	1.34	1.29
1985	1.29	1.41	1.25	1.17	0.89	0.67	0.80	0.95	1.87	1.57	1.84	1.21	1.24
1986	1.55	1.19	1.61	1.11	1.15	0.91	0.64	0.90	1.43	1.33	1.62	1.73	1.26
1987	1.83	1.40	1.77	1.21	1.21	0.89	0.74	0.80	0.88	1.49	1.43	1.05	1.22
1988	1.46	1.16	1.01	0.85	0.95	0.90	0.90	0.80	1.13	1.31	1.19	0.95	1.05
1989	1.30	1.12	1.31	1.10	0.88	0.81	0.79	1.00	2.05	1.53	1.22	1.10	1.18
1990	1.19	1.41	1.28	1.61	1.01	0.89	0.97	0.88	1.18	1.53	1.19	1.58	1.23
1991	1.15	1.25	1.12	1.27	1.08	1.10	0.76	0.75	1.46	1.65	1.32	1.20	1.17
1992	1.26	1.08	1.20	1.14	0.96	0.70	0.68	0.84	1.03	1.36	1.54	1.45	1.11
1993	1.73	1.26	1.64	1.25	1.07	0.87	0.71	0.91	0.95	1.33	1.71	1.30	1.23
MEAN	1.49	1.43	1.38	1.22	1.02	0.88	0.78	0.89	1.29	1.50	1.55	1.42	

STATION: 25

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4810 8	3310 9	31 8 5	4311 5	27 814	27 8 6	12 427	4611 9	2514 8	5112 7	3410 7	3710 7	5112 7
1977	36 835	34 815	32 810	26 811	21 7 8	13 425	14 6 8	24 8 9	24 8 8	3410 8	3013 8	35 8 3	36 835
1978	30 733	5311 7	31 813	26 631	28 618	24 8 9	17 519	151210	2612 8	45 9 5	3113 8	6514 8	6514 8
1979	39 8 9	4811 7	3615 9	451110	26 8 5	23 6 8	24 713	20 8 8	721310	31 9 9	3911 6	3810 7	721310
1980	3418 7	4011 8	33 8 1	27 617	1817 8	21 8 6	14 513	35 912	201710	2912 7	4519 8	4811 6	4811 6
1981	35 8 3	5613 7	3920 8	28 7 7	21 714	20 7 7	12 8 8	471012	4818 9	37 8 3	2810 8	27 9 7	5613 7
1982	23 617	29 9 9	3610 8	27 8 8	22 8 8	16 612	1010 8	14 7 7	17 7 6	43 9 2	3315 8	26 712	43 9 2
1983	3810 9	5311 9	28 813	29 715	24 7 9	27 8 7	16 6 9	35 9 8	3510 6	3112 7	2814 8	5912 5	5912 5
1984	4913 5	32 913	30 718	25 617	34 8 1	17 636	16 519	17 515	591210	3112 9	7214 7	28 7 7	7214 7
1985	43 9 1	32 8 1	32 9 8	29 9 9	21 7 6	15 517	45 910	41 814	6916 9	7012 9	35 813	28 735	7012 9
1986	4911 7	2617 8	4710 4	2616 7	2715 8	19 8 8	12 424	20 8 7	4617 9	4310 6	4711 7	4612 7	4911 7
1987	5110 3	40 9 8	4011 9	2312 7	1912 7	17 9 9	16 6 8	1511 9	15 8 9	27 8 4	26 7 3	22 616	5110 3
1988	4516 8	29 7 2	18 519	18 633	18 516	14 810	25 8 7	36 911	201710	30 8 3	31 812	31 9 4	4516 8
1989	6214 4	27 9 6	36 8 2	21 7 5	16 517	18 617	12 710	17 911	7519 9	3510 5	2112 8	27 8 0	7519 9
1990	22 633	3210 8	3110 7	28 9 8	21 714	1410 9	2110 9	231510	2514 9	3711 9	28 8 4	2913 9	3711 9
1991	5612 7	27 9 8	24 618	26 8 8	24 810	31 8 7	121010	3011 9	6719 9	3012 8	27 734	28 8 7	6719 9
1992	3312 9	2710 8	23 8 6	27 8 5	1710 7	13 516	10 711	31 9 8	20 6 2	25 817	3010 8	2610 8	3312 9
1993	5513 6	24 8 5	4513 7	2914 8	15 8 9	17 610	10 810	3414 8	3214 8	26 8 7	4312 7	31 9 6	5513 6
MAX	6214 4	5613 7	4710 4	451110	34 8 1	31 8 7	45 910	471012	7519 9	7012 9	7214 7	6514 8	

MAX Hmo(m): 7.5 MAX Tp(sec): 19. MAX Dp(deg): 90. DATE(gmt): 89090900

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 45. DATE(gmt): 79090409

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.25 N, LONG: 81.25 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 26

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	133	138	119	163	214	375	471	437	173	54	87	182	2546
0.50 - 0.99	1469	1405	1539	1767	2641	3107	3608	3110	1918	1200	1058	1637	24459
1.00 - 1.49	1438	1429	1635	1565	1285	698	332	681	1232	1654	1535	1371	14855
1.50 - 1.99	746	594	752	611	261	116	41	123	548	961	954	610	6317
2.00 - 2.49	364	305	258	178	56	23	9	62	243	358	446	399	2701
2.50 - 2.99	200	99	99	21	7	1	1	29	72	159	141	170	999
3.00 - 3.49	69	37	38	10	.	.	2	12	30	55	46	46	345
3.50 - 3.99	24	22	21	5	.	.	.	8	40	16	26	19	181
4.00 - 4.49	15	26	3	.	.	.	.	2	19	4	12	14	95
4.50 - 4.99	4	17	.	.	.	.	.	.	14	1	5	10	51
5.00 - 5.49	2	.	.	.	.	.	.	.	4	.	3	3	12
5.50 - 5.99	.	.	.	.	.	.	.	.	27	2	7	3	39
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 26

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	36	26	17	25	32	77	134	68	35	5	25	40	520
4.0 - 4.9	301	332	276	265	185	194	153	138	93	96	137	335	2505
5.0 - 5.9	179	218	193	119	151	95	79	90	190	209	138	245	1906
6.0 - 6.9	164	192	143	112	194	330	239	271	367	322	213	203	2750
7.0 - 7.9	139	189	221	215	489	799	1008	1022	702	494	301	195	5774
8.0 - 8.9	227	357	390	380	966	1260	1549	1449	659	677	537	474	8925
9.0 - 9.9	640	592	635	600	900	682	757	566	582	791	767	657	8169
10.0 - 10.9	707	602	638	534	515	320	261	321	395	612	696	443	6044
11.0 - 11.9	478	422	418	443	329	216	178	182	300	393	414	414	4187
12.0 - 12.9	366	213	350	488	284	158	62	121	277	317	229	318	3183
13.0 - 13.9	309	177	405	458	190	97	39	81	215	220	251	336	2778
14.0 - 14.9	308	177	282	312	115	48	4	65	156	115	202	284	2068
15.0 - 15.9	188	150	178	174	70	33	1	32	120	70	141	227	1384
16.0 - 16.9	152	159	125	81	24	6	.	25	91	54	104	152	973
17.0 - 17.9	104	110	71	55	10	3	.	15	41	38	71	57	575
18.0 - 18.9	76	74	51	20	7	2	.	10	29	21	34	40	364
19.0 - 19.9	50	43	30	24	3	.	.	2	27	19	35	19	252
20.0 - LONGER	40	39	41	15	.	.	.	6	41	11	25	25	243
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 26

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	98	99	39	24	19	6	.	.	4	51	67	110	517
11.25 - 33.74 (22.5)	57	66	30	36	27	4	3	1	16	106	58	118	522
33.75 - 56.24 (45.0)	101	80	64	49	65	35	13	27	57	230	123	137	981
56.25 - 78.74 (67.5)	1854	1657	1892	2093	1603	1121	511	741	1941	2322	1876	2056	19667
78.75 - 101.24 (90.0)	1923	1719	1940	1743	2465	2903	3623	3505	2165	1680	2015	1595	27276
101.25 - 123.74 (112.5)	35	45	90	77	85	31	39	53	53	9	26	33	576
123.75 - 146.24 (135.0)	27	16	54	41	57	11	21	26	9	13	11	18	304
146.25 - 168.74 (157.5)	18	12	38	26	20	16	12	15	9	2	6	16	190
168.75 - 191.24 (180.0)	23	11	42	27	19	16	22	18	9	3	12	35	237
191.25 - 213.74 (202.5)	19	32	49	28	18	32	41	26	30	4	19	27	325
213.75 - 236.24 (225.0)	23	39	43	24	20	67	55	24	7	11	8	39	360
236.25 - 258.74 (247.5)	27	37	27	17	20	57	67	22	2	2	5	43	326
258.75 - 281.24 (270.0)	42	47	26	18	12	17	49	.	2	4	7	38	262
281.25 - 303.74 (292.5)	70	74	35	46	17	4	8	.	.	14	20	49	337
303.75 - 326.24 (315.0)	103	57	53	40	13	.	.	3	6	4	35	72	386
326.25 - 348.74 (337.5)	44	81	42	31	4	.	.	3	10	9	32	78	334
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.25 N, LONG: 81.25 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 26 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	147	16	.	.	.	.	.	.	.	.	163
1.00 - 1.99	75	545	.	.	.	.	.	.	.	.	620
2.00 - 2.99	.	110	41	.	.	.	.	.	.	.	151
3.00 - 3.99	.	.	2	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	222	671	43	0	0	0	0	0	0	0	936

STATION: 26 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	144	167	82	199	131	.	.	.	.	.	723
1.00 - 1.99	47	871	520	116	57	.	.	.	.	.	1611
2.00 - 2.99	.	15	368	246	14	.	.	.	.	.	643
3.00 - 3.99	.	.	4	78	55	4	.	.	.	.	141
4.00 - 4.99	.	.	.	4	13	13	.	.	.	.	30
5.00 - 5.99	.	.	.	.	.	6	.	.	.	.	6
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	191	1053	974	643	270	23	0	0	0	0	3154

STATION: 26 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	222	1214	9646	6985	3296	2097	877	348	148	18	24851
1.00 - 1.99	26	1047	3574	5621	3061	2181	1066	391	165	33	17165
2.00 - 2.99	.	12	367	880	607	443	326	143	49	4	2831
3.00 - 3.99	.	.	3	71	102	60	65	38	38	2	379
4.00 - 4.99	.	.	.	5	31	28	21	11	20	.	116
5.00 - 5.99	.	.	.	.	3	14	2	8	17	1	45
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	248	2273	13590	13562	7100	4823	2357	939	437	58	45387

STATION: 26 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	175	17	.	.	.	.	.	.	.	.	192
1.00 - 1.99	35	309	48	.	.	.	.	.	.	.	392
2.00 - 2.99	.	5	34	5	.	.	.	.	.	.	44
3.00 - 3.99	.	.	1	3	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	210	331	83	8	0	0	0	0	0	0	632

STATION: 26 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	243	.	.	.	.	.	.	.	.	.	243
1.00 - 1.99	175	44	7	.	.	.	.	.	.	.	226
2.00 - 2.99	.	2	2	.	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	418	46	9	0	0	0	0	0	0	0	473

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.25 N, LONG: 81.25 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 26 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	361		.	.	.	.	.	.	.	.	361
1.00 - 1.99	301	58	.	.	.	.	.	.	.	.	359
2.00 - 2.99	.	3	.	.	.	.	.	.	.	.	3
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	662	61	0	0	0	0	0	0	0	0	723

STATION: 26 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	295		.	.	.	.	.	.	.	.	295
1.00 - 1.99	224	31	.	.	.	.	.	.	.	.	255
2.00 - 2.99	.	9	.	.	.	.	.	.	.	.	9
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	519	40	0	0	0	0	0	0	0	0	559

STATION: 26 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	177		.	.	.	.	.	.	.	.	177
1.00 - 1.99	378	166	.	.	.	.	.	.	.	.	544
2.00 - 2.99	.	15	.	.	.	.	.	.	.	.	15
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	555	181	0	0	0	0	0	0	0	0	736

STATION: 26 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1764	1414	9728	7184	3427	2097	877	348	148	18	27005
1.00 - 1.99	1261	3071	4149	5737	3118	2181	1066	391	165	33	21172
2.00 - 2.99	.	171	812	1131	621	443	326	143	49	4	3700
3.00 - 3.99	.	.	10	152	157	64	65	38	38	2	526
4.00 - 4.99	.	.	.	9	44	41	21	11	20		146
5.00 - 5.99	.	.	.	.	3	20	2	8	17	1	51
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	3025	4656	14699	14213	7370	4846	2357	939	437	58	52600

STATION: 26

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	377	364	447	476	777	999	919	1217	1100	497	408	502	8083
2.50 - 4.99	1655	1451	1767	1955	2457	2420	2866	2651	2052	1887	1776	1713	24650
5.00 - 7.49	917	917	923	1056	829	671	542	432	594	1046	1034	950	9911
7.50 - 9.99	947	893	955	679	356	210	125	115	380	788	829	818	7095
10.00 - 12.49	345	263	235	107	36	18	9	31	110	184	195	321	1854
12.50 - 14.99	157	143	111	43	9	2	3	10	56	51	58	125	768
15.00 - 17.49	49	20	19	4	.	.	.	5	11	6	8	18	140
17.50 - 19.99	15	21	3	.	.	.	.	3	14	5	11	17	89
20.00 - GREATER	2		4						3		1		10
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.25 N, LONG: 81.25 W, DEPTH: 9 M

STATION: 26

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	650	482	426	296	205	116	51	114	221	624	628	633	4446
22.50 - 67.49 (45.0)	667	599	447	361	389	398	132	343	966	1310	931	839	7382
67.50 - 112.49 (90.0)	498	479	540	554	835	682	443	920	1382	1073	812	554	8772
112.50 - 157.49 (135.0)	376	441	726	734	941	611	627	843	605	343	512	409	7168
157.50 - 202.49 (180.0)	450	446	690	616	798	818	1068	758	400	226	378	434	7082
202.50 - 247.49 (225.0)	390	477	526	613	661	1143	1395	913	348	213	240	444	7363
247.50 - 292.49 (270.0)	590	514	579	691	445	452	643	409	251	294	346	497	5711
292.50 - 337.49 (315.0)	843	634	530	455	190	100	105	164	147	381	473	654	4676
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 26

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.45	1.18	1.10	1.20	0.86	0.89	0.51	1.16	0.99	1.60	1.15	1.43	1.13
1977	1.20	1.05	1.17	1.22	0.85	0.55	0.63	0.82	0.80	1.28	1.67	1.36	1.05
1978	1.39	1.47	1.08	0.86	0.80	0.82	0.69	0.78	1.08	1.61	1.39	1.48	1.12
1979	1.73	1.52	1.45	1.32	1.16	1.06	0.88	0.81	1.45	1.13	1.63	1.40	1.29
1980	1.34	1.39	1.45	1.22	0.80	0.84	0.69	0.96	1.08	1.42	1.66	1.62	1.21
1981	1.01	2.01	1.43	1.11	0.93	0.75	0.69	0.81	1.31	1.22	1.21	0.90	1.11
1982	0.92	1.26	1.13	1.02	0.87	0.70	0.56	0.59	0.90	1.48	1.44	1.21	1.01
1983	1.34	1.55	1.06	0.99	0.95	0.89	0.72	0.72	1.00	1.38	1.29	1.52	1.11
1984	1.81	1.26	1.15	0.96	0.80	0.59	0.70	0.59	1.57	1.24	1.72	1.24	1.13
1985	1.10	1.22	1.11	1.02	0.78	0.59	0.69	0.84	1.66	1.42	1.69	1.06	1.09
1986	1.37	1.04	1.42	1.01	1.02	0.79	0.56	0.78	1.35	1.18	1.47	1.52	1.13
1987	1.68	1.25	1.56	1.12	1.08	0.77	0.64	0.70	0.78	1.30	1.25	0.92	1.09
1988	1.31	0.99	0.86	0.74	0.82	0.77	0.77	0.68	1.03	1.16	1.06	0.82	0.92
1989	1.11	0.98	1.14	0.97	0.77	0.70	0.71	0.90	1.95	1.36	1.13	0.97	1.05
1990	1.04	1.19	1.11	1.46	0.89	0.79	0.84	0.78	1.09	1.38	1.04	1.46	1.09
1991	1.01	1.07	0.94	1.13	0.97	0.97	0.66	0.67	1.33	1.50	1.15	1.05	1.04
1992	1.11	0.95	1.07	0.97	0.85	0.60	0.58	0.71	0.90	1.21	1.34	1.30	0.97
1993	1.52	1.07	1.45	1.10	0.97	0.76	0.61	0.82	0.84	1.20	1.53	1.15	1.09
MEAN	1.30	1.25	1.20	1.08	0.90	0.77	0.67	0.78	1.17	1.34	1.38	1.25	

STATION: 26

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3711 8	2711 8	25 8 6	3712 6	23 714	22 9 6	10 427	4311 8	2414 7	4012 6	2810 7	3210 7	4311 8
1977	2910 8	24 715	25 9 9	2317 8	18 9 8	12 426	12 6 8	20 8 8	19 8 8	3010 8	2913 7	3215 7	3215 7
1978	2512 8	4112 7	23 9 9	19 8 9	23 813	19 8 8	11 419	1412 9	2312 8	3616 7	2913 7	5614 8	5614 8
1979	3313 8	4212 8	3215 8	3612 9	23 8 6	19 7 7	19 711	17 7 7	5713 8	27 9 8	3310 6	3110 7	5713 8
1980	3218 7	3411 8	3117 7	2116 7	1514 7	18 8 6	12 512	2813 9	2217 9	2612 7	4319 8	4615 7	4615 7
1981	27 7 1	4913 8	3919 7	25 7 7	18 713	18 7 7	11 8 8	351010	4918 8	29 9 6	2510 8	23 9 7	4918 8
1982	1515 7	27 9 8	3110 8	23 8 8	20 8 8	14 610	910 7	12 7 7	16 7 7	3717 7	3215 7	22 8 8	3717 7
1983	3411 8	4711 8	2410 8	21 519	20 8 8	23 8 7	15 6 7	2910 8	3010 7	2912 7	2414 7	4712 6	4712 6
1984	3813 6	26 912	23 628	20 810	26 7 2	15 6 1	11 5 8	13 416	4612 9	2812 8	5714 7	2511 9	5714 7
1985	34 9 4	24 7 2	27 9 7	25 9 8	19 7 6	11 423	3410 9	351010	5716 8	5712 9	29 812	2322 7	5712 9
1986	3911 7	2417 7	3911 6	2216 7	2614 7	17 7 6	11 425	19 8 7	4717 8	3610 6	3811 7	3812 7	4717 8
1987	4311 5	33 9 8	3211 8	2212 7	1812 7	15 9 8	14 7 7	1310 8	14 9 8	23 8 4	2210 8	2110 8	4311 5
1988	4416 7	23 7 4	1314 7	13 532	1610 7	12 8 9	21 8 7	27 8 9	2016 9	25 8 5	25 810	26 9 5	4416 7
1989	5114 5	2410 7	31 8 5	18 7 5	14 6 7	13 418	11 7 9	1712 9	5718 8	2915 7	2112 8	24 7 2	5718 8
1990	18 9 8	2910 8	2710 7	26 9 7	18 713	1310 8	2011 8	2315 9	2514 8	3311 8	23 8 5	2813 8	3311 8
1991	2412 7	24 9 7	18 6 1	23 8 8	21 8 8	27 8 7	11 9 9	3012 8	5719 8	2812 8	20 635	23 8 7	5719 8
1992	3112 8	2410 8	20 7 5	2311 7	16 8 7	10 6 8	1011 7	25 9 8	18 9 7	21 8 7	26 9 8	2410 7	3112 8
1993	4512 5	21 7 5	4113 7	2214 7	14 9 8	15 6 8	9 8 9	3714 8	3314 7	24 8 7	4112 7	2710 7	4512 5
MAX	5114 5	4913 8	4113 7	3712 6	2614 7	27 8 7	3410 9	4311 8	5719 8	5712 9	5714 7	5614 8	

MAX Hmo(m): 5.7 MAX Tp(sec): 19. MAX Dp(deg): 79. DATE(gmt): 91090921

MAX WIND SPEED(m/sec): 28. MAX WIND DIRECTION(deg): 5. DATE(gmt): 79090412

MEAN Hmo(m): 1.1 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.50 N, LONG: 81.25 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 27

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	140	141	130	176	198	309	377	333	154	51	82	198	2289
0.50 - 0.99	1434	1363	1452	1760	2545	3079	3632	3157	1947	1223	1039	1602	24233
1.00 - 1.49	1416	1408	1635	1539	1387	791	398	721	1258	1696	1551	1347	15147
1.50 - 1.99	816	632	769	617	261	117	46	139	512	943	982	679	6513
2.00 - 2.49	375	324	313	189	69	23	7	60	239	321	425	392	2737
2.50 - 2.99	174	99	114	22	4	1	2	30	72	157	153	157	985
3.00 - 3.49	60	40	33	11	.	.	2	11	36	54	39	43	329
3.50 - 3.99	31	23	17	6	.	.	.	12	27	13	26	17	172
4.00 - 4.49	13	28	1	.	.	.	.	.	36	3	9	12	102
4.50 - 4.99	3	14	.	.	.	.	.	1	7	1	2	12	40
5.00 - 5.49	1	.	.	.	.	.	.	.	8	.	8	3	20
5.50 - 5.99	1	.	.	.	.	.	.	.	3	1	3	2	10
6.00 - 6.49	.	.	.	.	.	.	.	.	10	1	1	.	12
6.50 - 6.99	.	.	.	.	.	.	.	.	11	.	.	.	11
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 27

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	32	26	17	24	18	58	94	35	18	7	26	41	396
4.0 - 4.9	335	382	315	290	209	237	203	166	114	131	152	354	2888
5.0 - 5.9	292	328	306	191	208	152	133	121	238	276	207	360	2812
6.0 - 6.9	181	204	174	134	221	428	302	351	462	344	238	232	3271
7.0 - 7.9	144	201	261	215	585	878	1126	1128	701	547	312	196	6294
8.0 - 8.9	228	356	355	413	975	1208	1472	1345	637	631	556	483	8659
9.0 - 9.9	620	582	638	596	869	615	689	512	547	760	779	627	7834
10.0 - 10.9	719	566	618	518	457	257	216	289	353	581	656	428	5658
11.0 - 11.9	466	402	399	404	282	191	139	165	266	375	375	386	3850
12.0 - 12.9	356	190	299	449	254	143	57	116	279	312	209	306	2970
13.0 - 13.9	263	149	371	438	172	87	28	87	209	202	228	320	2554
14.0 - 14.9	289	166	263	308	111	37	4	56	149	101	195	266	1945
15.0 - 15.9	169	131	162	169	63	19	1	33	115	67	134	206	1269
16.0 - 16.9	133	155	118	80	25	4	.	26	99	51	101	139	931
17.0 - 17.9	92	97	62	44	8	2	.	14	40	35	65	57	516
18.0 - 18.9	60	57	43	20	5	4	.	12	28	20	32	31	312
19.0 - 19.9	42	40	24	15	2	.	.	2	24	18	28	16	211
20.0 - LONGER	43	40	39	12	.	.	.	6	41	6	27	16	230
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 27

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	120	107	48	37	24	7	.	.	4	71	66	131	615
11.25 - 33.74 (22.5)	65	65	32	26	23	2	4	1	19	116	73	121	547
33.75 - 56.24 (45.0)	62	58	40	40	53	25	9	21	54	185	86	104	737
56.25 - 78.74 (67.5)	259	274	127	164	195	234	108	120	473	523	286	259	3022
78.75 - 101.24 (90.0)	3278	2746	3243	3236	3257	2704	2299	3027	3223	3302	3400	2963	36678
101.25 - 123.74 (112.5)	191	286	399	426	638	1089	1746	1146	448	186	204	378	7137
123.75 - 146.24 (135.0)	33	30	95	71	98	11	33	35	22	14	27	30	499
146.25 - 168.74 (157.5)	37	27	65	39	32	22	20	22	10	7	11	27	319
168.75 - 191.24 (180.0)	37	34	90	40	46	55	44	20	10	9	22	68	455
191.25 - 213.74 (202.5)	29	53	67	42	23	57	44	20	33	4	25	37	434
213.75 - 236.24 (225.0)	22	43	51	28	23	69	58	32	4	12	10	44	396
236.25 - 258.74 (247.5)	29	46	24	22	14	42	47	12	.	1	6	48	291
258.75 - 281.24 (270.0)	48	50	29	21	9	18	43	.	.	4	8	37	267
281.25 - 303.74 (292.5)	75	83	32	49	9	4	8	.	1	13	22	49	345
303.75 - 326.24 (315.0)	109	69	71	47	15	.	1	2	4	6	37	78	439
326.25 - 348.74 (337.5)	70	101	51	32	5	1	.	6	15	11	37	90	419
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.50 N, LONG: 81.25 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 27 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	169	9	.	.	.	.	.	.	.	.	178
1.00 - 1.99	88	643	.	.	.	.	.	.	.	.	731
2.00 - 2.99	.	163	14	.	.	.	.	.	.	.	177
3.00 - 3.99	.	.	7	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	257	815	21	0	0	0	0	0	0	0	1093

STATION: 27 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	160	99	7	.	.	.	.	.	.	.	266
1.00 - 1.99	54	796	164	.	.	.	.	.	.	.	1014
2.00 - 2.99	.	41	240	39	.	.	.	.	.	.	320
3.00 - 3.99	.	.	6	23	12	.	.	.	.	.	41
4.00 - 4.99	.	.	.	1	5	.	.	.	.	.	6
5.00 - 5.99	.	.	.	.	.	2	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	214	936	417	63	17	2	0	0	0	0	1649

STATION: 27 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	238	1600	9647	6543	3232	1975	823	311	142	16	24527
1.00 - 1.99	29	1372	4015	5728	2805	2017	1008	326	136	25	17461
2.00 - 2.99	.	21	530	990	582	398	296	145	55	1	3018
3.00 - 3.99	.	.	11	139	126	56	51	29	31	2	445
4.00 - 4.99	.	.	.	6	46	34	20	8	16	.	130
5.00 - 5.99	.	.	.	.	4	15	1	2	5	1	28
6.00 - 6.99	.	.	.	.	2	2	1	7	11	.	23
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	267	2993	14203	13406	6797	4497	2200	828	396	45	45632

STATION: 27 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	199	185	71	.	.	.	.	.	.	.	455
1.00 - 1.99	37	446	120	.	.	.	.	.	.	.	603
2.00 - 2.99	.	14	111	16	.	.	.	.	.	.	141
3.00 - 3.99	.	.	1	6	1	.	.	.	.	.	8
4.00 - 4.99	.	.	.	1	5	.	.	.	.	.	6
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	236	645	303	23	6	0	0	0	0	0	1213

STATION: 27 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	239	.	.	.	.	.	.	.	.	.	239
1.00 - 1.99	251	339	4	.	.	.	.	.	.	.	594
2.00 - 2.99	.	11	5	.	.	.	.	.	.	.	16
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	490	350	9	0	0	0	0	0	0	0	849

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.50 N, LONG: 81.25 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 27 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	363	.	.	.	.	.	.	.	.	.	363
1.00 - 1.99	322	74	.	.	.	.	.	.	.	.	396
2.00 - 2.99	.	4	.	.	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	685	78	0	0	0	0	0	0	0	0	763

STATION: 27 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	291	.	.	.	.	.	.	.	.	.	291
1.00 - 1.99	241	28	.	.	.	.	.	.	.	.	269
2.00 - 2.99	.	16	.	.	.	.	.	.	.	.	16
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	532	44	0	0	0	0	0	0	0	0	576

STATION: 27 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	203	.	.	.	.	.	.	.	.	.	203
1.00 - 1.99	400	192	.	.	.	.	.	.	.	.	592
2.00 - 2.99	.	30	.	.	.	.	.	.	.	.	30
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	603	222	0	0	0	0	0	0	0	0	825

STATION: 27 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1862	1893	9725	6543	3232	1975	823	311	142	16	26522
1.00 - 1.99	1422	3890	4303	5728	2805	2017	1008	326	136	25	21660
2.00 - 2.99	.	300	900	1045	582	398	296	145	55	1	3722
3.00 - 3.99	.	.	25	168	139	56	51	29	31	2	501
4.00 - 4.99	.	.	.	8	56	34	20	8	16	.	142
5.00 - 5.99	.	.	.	.	4	17	1	2	5	1	30
6.00 - 6.99	.	.	.	.	2	2	1	7	11	.	23
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3284	6083	14953	13492	6820	4499	2200	828	396	45	52600

STATION: 27

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	358	335	423	435	734	937	853	1172	1069	466	362	449	7593
2.50 - 4.99	1665	1466	1785	1996	2499	2494	2929	2702	2071	1903	1846	1762	25118
5.00 - 7.49	914	912	922	1048	834	656	555	426	602	1074	1000	948	9891
7.50 - 9.99	947	910	945	681	353	216	116	123	390	786	845	828	7140
10.00 - 12.49	350	269	254	114	34	15	6	25	105	176	192	322	1862
12.50 - 14.99	167	138	109	42	10	2	5	9	57	49	55	120	763
15.00 - 17.49	46	22	18	4	.	.	.	5	7	8	8	21	139
17.50 - 19.99	14	19	5	.	.	.	.	2	16	2	11	14	83
20.00 - GREATER	3	1	3	.	.	.	.	.	3	.	1	.	11
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.50 N, LONG: 81.25 W, DEPTH: 11 M

STATION: 27

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	642	505	413	289	209	117	52	111	221	628	603	624	4414
22.50 - 67.49 (45.0)	661	589	450	357	373	396	130	358	968	1305	925	826	7338
67.50 - 112.49 (90.0)	496	465	511	528	823	679	443	886	1369	1072	785	550	8607
112.50 - 157.49 (135.0)	373	424	739	748	930	623	604	841	598	343	531	412	7166
157.50 - 202.49 (180.0)	449	467	707	624	815	811	1089	797	407	223	363	426	7178
202.50 - 247.49 (225.0)	392	476	529	629	665	1142	1395	905	361	223	258	457	7432
247.50 - 292.49 (270.0)	589	525	577	685	454	459	652	406	240	290	362	520	5759
292.50 - 337.49 (315.0)	862	621	538	460	195	93	99	160	156	380	493	649	4706
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 27

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.45	1.19	1.13	1.18	0.91	0.93	0.53	1.17	0.98	1.57	1.15	1.43	1.14
1977	1.19	1.09	1.22	1.26	0.88	0.56	0.64	0.84	0.79	1.27	1.67	1.36	1.07
1978	1.42	1.43	1.11	0.87	0.83	0.84	0.72	0.82	1.07	1.55	1.37	1.48	1.13
1979	1.73	1.51	1.46	1.35	1.18	1.07	0.91	0.84	1.50	1.13	1.64	1.37	1.31
1980	1.30	1.32	1.47	1.24	0.80	0.84	0.70	0.98	1.09	1.40	1.62	1.58	1.19
1981	0.99	2.00	1.37	1.13	0.93	0.77	0.71	0.84	1.26	1.20	1.16	0.94	1.10
1982	0.92	1.29	1.13	1.05	0.85	0.71	0.60	0.62	0.91	1.44	1.41	1.23	1.01
1983	1.35	1.55	1.11	1.02	0.99	0.90	0.75	0.76	0.98	1.37	1.30	1.56	1.13
1984	1.78	1.31	1.16	0.97	0.84	0.61	0.75	0.62	1.60	1.21	1.71	1.22	1.15
1985	1.11	1.24	1.15	1.03	0.80	0.60	0.73	0.86	1.68	1.45	1.70	1.06	1.11
1986	1.37	1.03	1.43	0.99	1.00	0.82	0.58	0.80	1.31	1.15	1.49	1.51	1.12
1987	1.64	1.26	1.52	1.09	1.10	0.80	0.67	0.72	0.81	1.25	1.25	0.93	1.09
1988	1.28	1.00	0.88	0.72	0.81	0.78	0.81	0.73	1.06	1.14	1.09	0.81	0.92
1989	1.13	1.00	1.14	0.98	0.79	0.74	0.73	0.92	1.99	1.35	1.16	0.96	1.07
1990	1.05	1.23	1.13	1.46	0.91	0.81	0.88	0.79	1.08	1.39	1.04	1.46	1.10
1991	1.02	1.06	1.00	1.16	1.01	0.97	0.70	0.69	1.35	1.48	1.13	1.06	1.05
1992	1.13	0.95	1.10	0.97	0.83	0.62	0.60	0.74	0.92	1.20	1.35	1.27	0.98
1993	1.53	1.07	1.46	1.09	0.98	0.78	0.64	0.84	0.85	1.19	1.51	1.12	1.09
MEAN	1.30	1.25	1.22	1.09	0.91	0.79	0.70	0.81	1.18	1.32	1.38	1.24	

STATION: 27

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3811 9	2911 9	26 8 7	3711 7	25 913	23 8 7	10 420	451110	2214 8	4111 7	28 9 8	3310 8	451110
1977	2910 9	32 913	27 913	2317 9	19 8 9	11 426	12 6 8	20 8 9	19 7 8	3010 9	2713 8	3116 8	32 913
1978	2513 9	4511 8	25 911	19 810	25 813	19 7 9	13 519	151210	22 8 8	37 9 7	2613 8	5514 9	5514 9
1979	3513 9	4410 8	3515 9	381210	23 8 7	20 6 8	20 712	161610	6712 9	28 9 9	3410 8	3010 8	6712 9
1980	2719 8	3211 9	3017 8	2310 9	1514 8	17 7 6	12 512	281310	2217 9	27 9 7	4319 9	4515 8	4515 8
1981	25 6 0	4813 8	3520 8	24 6 8	19 714	18 7 8	11 8 9	371011	4416 9	2710 8	2510 8	23 8 9	4813 8
1982	18 518	28 9 9	29 9 8	23 8 9	19 8 9	14 610	10 420	12 6 8	17 7 8	3517 8	3015 8	22 811	3517 8
1983	3511 9	4711 9	261010	26 811	21 8 9	24 8 8	16 6 8	29 9 9	3010 8	2812 8	2614 8	4813 8	4813 8
1984	3812 7	29 912	25 910	22 811	24 6 1	15 536	12 5 9	13 514	501210	2712 9	6214 8	261210	6214 8
1985	32 7 0	24 715	27 9 8	25 9 9	20 7 7	11 516	34 810	381012	6917 9	601210	32 912	22 6 2	6917 9
1986	4111 8	2418 8	3811 7	2116 8	2515 8	16 7 7	11 425	19 8 8	4417 9	3610 7	4010 8	3812 8	4417 9
1987	4411 6	34 9 8	3411 9	2112 8	1712 8	15 9 9	15 6 8	1310 9	14 9 9	24 8 5	2210 9	2110 9	4411 6
1988	4216 8	23 6 2	15 518	13 532	17 6 4	13 5 4	21 8 8	28 810	2116 9	25 7 4	25 910	26 9 5	4216 8
1989	5614 7	2310 8	2810 7	18 7 6	15 6 7	17 518	11 710	171110	6918 9	28 9 7	2112 9	23 635	6918 9
1990	18 9 9	2910 9	2610 8	26 7 6	19 714	13 9 9	1810 9	231510	2414 9	3411 9	25 7 4	2913 9	3411 9
1991	2312 8	23 9 7	20 519	23 8 9	22 8 9	27 8 7	12 419	3112 9	6618 9	2812 9	19 6 0	23 8 7	6618 9
1992	3212 9	2310 9	2011 9	21 9 7	15 8 8	12 515	9 423	24 8 8	18 6 4	21 813	2610 9	23 9 9	3212 9
1993	4412 7	20 8 7	4011 8	2414 8	14 9 9	15 5 8	9 810	3814 9	3114 8	24 8 7	3912 8	27 9 7	4412 7
MAX	5614 7	4813 8	4011 8	381210	2515 8	27 8 7	34 810	451110	6918 9	601210	6214 8	5514 9	

MAX Hmo(m): 6.9 MAX Tp(sec): 18. MAX Dp(deg): 90. DATE(gmt): 89090906

MAX WIND SPEED(m/sec): 27. MAX WIND DIRECTION(deg): 20. DATE(gmt): 79090412

MEAN Hmo(m): 1.1 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.75 N, LONG: 81.25 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 28

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	176	174	156	197	208	280	331	295	149	64	83	236	2349
0.50 - 0.99	1459	1399	1483	1793	2595	3132	3645	3220	2048	1334	1130	1666	24904
1.00 - 1.49	1455	1390	1597	1596	1370	779	430	702	1242	1788	1630	1336	15315
1.50 - 1.99	805	657	794	535	227	107	48	141	463	807	936	668	6188
2.00 - 2.49	340	272	296	160	57	21	5	53	217	298	357	375	2451
2.50 - 2.99	146	83	101	21	7	1	3	29	74	125	113	115	818
3.00 - 3.49	50	42	29	11	.	.	1	12	44	39	36	31	295
3.50 - 3.99	22	25	8	7	.	.	1	10	27	5	16	15	136
4.00 - 4.49	6	30	.	.	.	.	.	2	19	1	5	14	77
4.50 - 4.99	2	.	.	.	.	.	.	.	9	1	7	5	24
5.00 - 5.49	3	.	.	.	.	.	.	.	5	1	4	3	16
5.50 - 5.99	.	.	.	.	.	.	.	.	7	1	3	.	11
6.00 - 6.49	.	.	.	.	.	.	.	.	9	.	.	.	9
6.50 - 6.99	.	.	.	.	.	.	.	.	7	.	.	.	7
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 28

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	39	34	36	30	17	55	78	38	22	8	28	54	439
4.0 - 4.9	384	447	303	341	195	200	179	152	120	179	195	375	3070
5.0 - 5.9	360	342	339	199	254	177	159	124	248	306	260	427	3195
6.0 - 6.9	144	197	216	193	258	469	307	410	478	365	221	197	3455
7.0 - 7.9	151	223	288	244	683	933	1306	1253	759	595	338	208	6981
8.0 - 8.9	269	388	378	456	1005	1272	1476	1279	644	638	610	496	8911
9.0 - 9.9	639	626	688	602	836	597	630	490	544	759	796	679	7886
10.0 - 10.9	731	554	607	509	401	220	176	253	333	542	603	432	5361
11.0 - 11.9	445	363	395	375	247	155	92	139	248	336	349	387	3531
12.0 - 12.9	324	161	261	398	232	114	41	103	263	291	175	274	2637
13.0 - 13.9	256	137	307	401	149	83	16	75	196	186	210	311	2327
14.0 - 14.9	262	138	257	271	96	28	3	57	140	94	182	215	1743
15.0 - 15.9	134	121	139	155	57	9	1	33	104	68	117	188	1126
16.0 - 16.9	127	143	100	68	23	2	.	25	94	41	92	125	840
17.0 - 17.9	79	86	57	41	8	2	.	14	36	27	64	52	466
18.0 - 18.9	46	50	33	16	2	4	.	10	29	13	28	23	254
19.0 - 19.9	42	33	21	16	1	.	.	3	26	11	28	12	193
20.0 - LONGER	32	29	39	5	.	.	.	6	36	5	24	9	185
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 28

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	117	101	44	28	25	5	.	.	6	66	72	120	584
11.25 - 33.74 (22.5)	47	58	22	32	17	3	4	.	11	118	63	108	483
33.75 - 56.24 (45.0)	55	55	45	35	48	27	8	15	51	182	84	89	688
56.25 - 78.74 (67.5)	106	109	63	46	66	97	39	46	183	276	151	140	1322
78.75 - 101.24 (90.0)	2475	2159	2414	2655	2367	1648	942	1634	2595	3092	2892	2437	27310
101.25 - 123.74 (112.5)	1075	964	1191	1010	1612	2264	3180	2593	1357	633	804	999	17682
123.75 - 146.24 (135.0)	50	45	120	114	115	36	38	63	33	21	35	53	723
146.25 - 168.74 (157.5)	46	40	111	46	51	28	21	24	11	11	15	31	435
168.75 - 191.24 (180.0)	49	58	109	79	44	43	45	20	16	8	31	72	574
191.25 - 213.74 (202.5)	33	46	73	54	30	55	52	17	28	6	30	36	460
213.75 - 236.24 (225.0)	23	49	46	33	26	59	47	34	3	10	10	49	389
236.25 - 258.74 (247.5)	33	44	25	24	16	37	40	10	2	2	9	45	287
258.75 - 281.24 (270.0)	60	56	39	25	9	15	38	.	3	3	8	40	296
281.25 - 303.74 (292.5)	91	97	37	52	11	3	10	.	.	13	25	54	393
303.75 - 326.24 (315.0)	126	83	77	60	21	.	.	1	6	8	41	95	518
326.25 - 348.74 (337.5)	78	108	51	30	6	.	.	7	15	15	50	96	456
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.75 N, LONG: 81.25 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 28 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	183										183
1.00 - 1.99	228	531									759
2.00 - 2.99		59	4								63
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	411	590	4	0	0	0	0	0	0	0	1005

STATION: 28 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	198	65									263
1.00 - 1.99	60	795	70								925
2.00 - 2.99		60	152	11							223
3.00 - 3.99			3	1	1						5
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	258	920	225	12	1	0	0	0	0	0	1416

STATION: 28 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	230	1410	9708	6415	3054	1890	789	267	126	14	23903
1.00 - 1.99	31	1507	3991	5588	2500	1793	877	295	121	19	16722
2.00 - 2.99		18	559	887	433	297	251	121	45	4	2615
3.00 - 3.99			12	128	122	45	38	25	27		397
4.00 - 4.99				5	41	31	11	1	10		99
5.00 - 5.99					5	13		5	4		27
6.00 - 6.99					1	1		6	8		16
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	261	2935	14270	13023	6156	4070	1966	720	341	37	43779

STATION: 28 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	222	572	826	63							1683
1.00 - 1.99	33	570	374	79	1						1057
2.00 - 2.99		18	175	54	1						248
3.00 - 3.99			5	16	7						28
4.00 - 4.99					2						2
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	255	1160	1380	212	11	0	0	0	0	0	3018

STATION: 28 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	258	10									268
1.00 - 1.99	80	580	8								668
2.00 - 2.99		65	3								68
3.00 - 3.99			1								1
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	338	655	12	0	0	0	0	0	0	0	1005

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.75 N, LONG: 81.25 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 28 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	387										387
1.00 - 1.99	313	73	1								387
2.00 - 2.99		6									6
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	700	79	1	0	0	0	0	0	0	0	780

STATION: 28 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	328										328
1.00 - 1.99	245	33									278
2.00 - 2.99		13									13
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	573	46	0	0	0	0	0	0	0	0	619

STATION: 28 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	238										238
1.00 - 1.99	475	232									707
2.00 - 2.99		33									33
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	713	265	0	0	0	0	0	0	0	0	978

STATION: 28 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2044	2057	10534	6478	3054	1890	789	267	126	14	27253
1.00 - 1.99	1465	4321	4444	5667	2501	1793	877	295	121	19	21503
2.00 - 2.99		272	893	952	434	297	251	121	45	4	3269
3.00 - 3.99			21	145	130	45	38	25	27		431
4.00 - 4.99				5	43	31	11	1	10		101
5.00 - 5.99					5	13		5	4		27
6.00 - 6.99					1	1		6	8		16
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	3509	6650	15892	13247	6168	4070	1966	720	341	37	52600

STATION: 28

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	333	304	393	409	711	900	807	1120	1063	441	355	409	7245
2.50 - 4.99	1666	1493	1797	2016	2521	2538	2968	2768	2050	1936	1846	1776	25375
5.00 - 7.49	940	897	937	1037	826	649	563	411	634	1072	1010	940	9916
7.50 - 9.99	940	928	939	695	362	215	116	129	382	772	848	864	7190
10.00 - 12.49	343	263	255	117	32	16	5	22	110	187	188	326	1864
12.50 - 14.99	182	144	115	41	12	2	5	11	54	46	53	115	780
15.00 - 17.49	42	26	20	5				2	10	9	9	23	146
17.50 - 19.99	15	16	4					1	15	1	10	11	73
20.00 - GREATER	3	1	4						2		1		11
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 30.75 N, LONG: 81.25 W, DEPTH: 11 M

STATION: 28

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	633	495	417	278	203	119	44	106	229	624	603	628	4379
22.50 - 67.49 (45.0)	671	588	447	354	371	397	134	359	977	1307	923	815	7343
67.50 - 112.49 (90.0)	496	465	506	512	799	677	438	882	1361	1061	759	541	8497
112.50 - 157.49 (135.0)	364	407	709	738	912	614	567	841	586	350	542	407	7037
157.50 - 202.49 (180.0)	432	473	720	649	840	816	1096	803	406	231	359	424	7249
202.50 - 247.49 (225.0)	404	485	550	619	665	1132	1432	908	377	222	274	467	7535
247.50 - 292.49 (270.0)	621	532	570	690	470	469	655	403	221	279	369	540	5819
292.50 - 337.49 (315.0)	843	627	545	480	204	96	98	162	163	390	491	642	4741
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 28

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.39	1.16	1.12	1.11	0.93	0.95	0.54	1.15	0.94	1.48	1.11	1.38	1.11
1977	1.13	1.08	1.22	1.24	0.88	0.57	0.64	0.84	0.78	1.23	1.61	1.31	1.05
1978	1.40	1.34	1.09	0.85	0.84	0.84	0.73	0.83	1.04	1.44	1.32	1.42	1.09
1979	1.66	1.44	1.41	1.33	1.17	1.07	0.93	0.85	1.50	1.10	1.58	1.30	1.28
1980	1.24	1.22	1.44	1.21	0.77	0.82	0.70	0.98	1.07	1.32	1.52	1.47	1.15
1981	0.93	1.91	1.27	1.11	0.91	0.76	0.72	0.85	1.17	1.14	1.10	0.94	1.06
1982	0.89	1.30	1.10	1.03	0.83	0.72	0.61	0.64	0.89	1.35	1.32	1.21	0.99
1983	1.32	1.50	1.14	1.01	0.98	0.89	0.76	0.77	0.94	1.31	1.25	1.50	1.11
1984	1.68	1.31	1.13	0.95	0.84	0.61	0.78	0.63	1.56	1.16	1.64	1.16	1.12
1985	1.09	1.22	1.14	1.02	0.81	0.60	0.75	0.85	1.62	1.44	1.63	1.02	1.10
1986	1.34	0.98	1.40	0.94	0.96	0.84	0.59	0.79	1.22	1.10	1.45	1.45	1.09
1987	1.53	1.24	1.44	1.04	1.07	0.81	0.69	0.71	0.82	1.16	1.21	0.93	1.05
1988	1.21	0.97	0.87	0.69	0.79	0.77	0.83	0.75	1.06	1.09	1.07	0.78	0.91
1989	1.10	1.01	1.10	0.97	0.78	0.76	0.75	0.92	1.95	1.29	1.13	0.93	1.06
1990	1.05	1.22	1.11	1.40	0.92	0.82	0.89	0.79	1.03	1.35	1.01	1.40	1.08
1991	1.01	1.01	1.03	1.15	1.02	0.96	0.73	0.70	1.30	1.40	1.10	1.03	1.04
1992	1.11	0.94	1.10	0.95	0.81	0.63	0.61	0.75	0.90	1.13	1.32	1.20	0.95
1993	1.51	1.04	1.41	1.06	0.96	0.79	0.65	0.83	0.84	1.16	1.45	1.06	1.06
MEAN	1.26	1.21	1.20	1.06	0.90	0.79	0.72	0.81	1.15	1.26	1.32	1.19	

STATION: 28

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3610 9	281110	25 8 8	3711 8	25 914	22 8 7	10 420	421110	2014 9	3911 8	27 9 8	3111 9	421110
1977	29 910	32 914	27 910	23 620	19 910	11 426	11 6 9	20 7 9	18 7 9	3010 9	2612 9	2816 9	32 914
1978	27 812	4211 9	25 912	19 811	28 814	18 710	14 517	161210	2312 9	34 9 8	24 9 6	5013 9	5013 9
1979	34 8 9	4411 9	3615 9	391211	23 8 7	19 6 7	19 712	171611	651310	28 910	33 9 7	2810 9	651310
1980	26 9 9	3010 9	2817 9	251011	14 610	15 8 8	12 513	291311	231710	2610 8	4019 9	4215 9	4215 9
1981	22 6 0	4413 9	3020 9	23 7 8	19 715	18 7 8	12 8 9	391012	3616 9	2310 9	2310 9	22 810	4413 9
1982	18 617	28 910	26 9 9	22 8 9	18 8 9	14 712	11 519	11 6 9	17 7 8	3117 9	2615 9	23 713	3117 9
1983	351110	441110	291011	28 910	21 810	23 8 8	15 6 8	27 9 9	2910 8	2712 9	2514 9	4513 9	4513 9
1984	3411 7	32 912	29 912	23 812	22 620	13 5 0	13 520	13 514	501211	261210	5714 9	261210	5714 9
1985	28 7 0	26 812	27 912	24 910	20 7 7	12 517	35 911	381013	691710	581210	31 813	21 619	691710
1986	3811 8	2217 9	3310 8	1916 9	2215 9	15 810	12 425	19 8 9	3716 9	3310 8	4010 8	3411 8	4010 8
1987	4311 7	34 9 9	331110	2012 9	15 9 9	15 9 9	14 6 9	1210 9	151211	25 7 4	22 7 6	211010	4311 7
1988	3716 9	20 5 1	17 519	13 532	17 6 4	14 5 4	20 8 8	28 811	211610	53 6 3	24 911	25 9 6	3716 9
1989	5413 8	221210	2410 8	19 6 4	17 6 7	18 617	11 811	181111	682010	26 9 6	2113 9	21 5 0	682010
1990	18 910	281010	2510 9	26 7 7	19 714	13 910	1710 9	231510	2214 9	331010	24 713	2813 9	331010
1991	2212 9	22 8 7	22 619	21 810	22 810	25 8 8	12 518	311210	5518 9	2812 9	18 5 0	22 8 8	5518 9
1992	3112 9	2110 9	21 910	20 7 5	14 8 9	12 515	9 423	231011	18 6 4	21 813	261010	22 9 9	3112 9
1993	4312 8	21 6 5	3811 9	2513 9	14 810	15 5 8	9 810	3614 9	2714 9	24 8 8	3712 9	26 9 8	4312 8
MAX	5413 8	441110	3811 9	391211	28 814	25 8 8	35 911	421110	691710	581210	5714 9	5013 9	

MAX Hmo(m): 6.9 MAX Tp(sec): 17. MAX Dp(deg): 97. DATE(gmt): 85092700

MAX WIND SPEED(m/sec): 24. MAX WIND DIRECTION(deg): 280. DATE(gmt): 93031318

MEAN Hmo(m): 1.1 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.00 N, LONG: 81.25 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 29

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	228	231	196	232	259	301	370	316	178	94	102	288	2795
0.50 - 0.99	1579	1531	1606	1911	2723	3226	3606	3349	2244	1629	1317	1851	26572
1.00 - 1.49	1495	1339	1587	1572	1233	690	439	571	1102	1771	1686	1304	14789
1.50 - 1.99	721	628	731	455	213	90	43	126	435	625	804	659	5530
2.00 - 2.49	281	188	263	116	31	13	1	59	178	239	282	256	1907
2.50 - 2.99	117	76	56	23	5	.	2	26	77	86	87	61	616
3.00 - 3.49	31	42	24	6	.	.	3	8	41	13	22	25	215
3.50 - 3.99	7	35	1	5	.	.	.	7	18	4	6	13	96
4.00 - 4.49	3	2	.	.	.	.	.	2	12	.	6	5	30
4.50 - 4.99	2	.	.	.	.	.	.	.	11	2	4	2	21
5.00 - 5.49	.	.	.	.	.	.	.	.	5	.	4	.	9
5.50 - 5.99	.	.	.	.	.	.	.	.	19	1	.	.	20
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 29

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	67	100	69	58	37	69	79	36	21	21	34	111	702
4.0 - 4.9	477	507	339	406	202	188	178	147	130	224	214	430	3442
5.0 - 5.9	243	236	254	147	223	162	142	123	237	224	170	311	2472
6.0 - 6.9	144	198	250	212	286	457	285	408	440	380	217	187	3464
7.0 - 7.9	149	240	313	316	714	991	1352	1303	835	622	375	233	7443
8.0 - 8.9	299	419	442	515	1084	1334	1513	1281	665	691	629	515	9387
9.0 - 9.9	679	667	723	642	811	604	633	515	548	826	881	753	8282
10.0 - 10.9	789	583	631	509	386	212	162	228	323	534	613	458	5428
11.0 - 11.9	452	359	397	353	218	122	79	129	251	297	355	412	3424
12.0 - 12.9	308	162	237	325	217	94	28	82	238	259	161	245	2356
13.0 - 13.9	235	108	259	343	121	63	9	66	181	162	184	283	2014
14.0 - 14.9	225	106	213	241	89	13	3	57	137	75	170	181	1510
15.0 - 15.9	115	96	125	129	50	4	1	32	117	60	109	153	991
16.0 - 16.9	113	140	76	53	13	2	.	22	75	40	74	123	731
17.0 - 17.9	63	63	49	39	10	2	.	14	36	24	59	41	400
18.0 - 18.9	40	37	27	16	2	3	.	11	24	11	28	16	215
19.0 - 19.9	30	28	23	13	1	.	.	4	28	9	25	9	170
20.0 - LONGER	36	23	37	3	.	.	.	6	34	5	22	3	169
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 29

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	77	85	19	15	14	4	.	.	.	43	35	85	377
11.25 - 33.74 (22.5)	31	44	20	22	15	3	4	1	8	80	37	70	335
33.75 - 56.24 (45.0)	39	44	29	21	45	17	5	5	34	149	71	76	535
56.25 - 78.74 (67.5)	61	80	42	32	30	68	20	29	114	168	80	94	818
78.75 - 101.24 (90.0)	1276	1058	1322	1510	1219	768	325	583	1743	1954	1517	1559	14834
101.25 - 123.74 (112.5)	2254	1976	2078	1929	2633	3081	3747	3575	2289	1935	2264	1869	29630
123.75 - 146.24 (135.0)	119	162	331	306	249	133	106	158	43	55	86	153	1901
146.25 - 168.74 (157.5)	58	43	118	77	70	24	23	23	16	17	34	36	539
168.75 - 191.24 (180.0)	63	72	124	79	58	46	22	18	15	9	32	82	650
191.25 - 213.74 (202.5)	31	44	73	52	26	55	51	19	28	3	19	38	439
213.75 - 236.24 (225.0)	27	52	58	47	32	56	45	36	2	9	14	48	426
236.25 - 258.74 (247.5)	41	45	33	41	16	40	41	10	3	1	11	53	335
258.75 - 281.24 (270.0)	66	72	45	43	15	18	35	.	5	3	9	47	358
281.25 - 303.74 (292.5)	121	111	46	60	19	6	10	.	.	13	31	65	482
303.75 - 326.24 (315.0)	123	74	84	68	19	1	.	3	5	9	38	99	523
326.25 - 348.74 (337.5)	77	110	42	18	4	.	.	4	15	16	42	90	418
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.00 N, LONG: 81.25 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 29 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	282										282
1.00 - 1.99	339	49	2								390
2.00 - 2.99	.	9									9
3.00 - 3.99	.										0
4.00 - 4.99	.										0
5.00 - 5.99	.										0
6.00 - 6.99	.										0
7.00 - 7.99	.										0
8.00 - 8.99	.										0
9.00 - GREATER	.										0
TOTAL	621	58	2	0	0	0	0	0	0	0	681

STATION: 29 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	235	16									251
1.00 - 1.99	114	569	76								759
2.00 - 2.99	.	26	46	3							75
3.00 - 3.99	.	.	.	.							0
4.00 - 4.99	.	.	.	.							0
5.00 - 5.99	.	.	.	.							0
6.00 - 6.99	.	.	.	.							0
7.00 - 7.99	.	.	.	.							0
8.00 - 8.99	.	.	.	.							0
9.00 - GREATER	.	.	.	.							0
TOTAL	349	611	122	3	0	0	0	0	0	0	1085

STATION: 29 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	253	999	5214	4662	2726	1767	727	228	117	18	16711
1.00 - 1.99	43	1434	2978	4239	2057	1396	755	264	108	11	13285
2.00 - 2.99	.	9	321	704	319	204	152	91	27	5	1832
3.00 - 3.99	.	.	2	59	107	37	29	1	19	.	254
4.00 - 4.99	.	.	.	1	8	21	4	3	6	.	43
5.00 - 5.99	.	.	.	.	.	4	1	8	11	.	24
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	296	2442	8515	9665	5217	3429	1668	595	288	34	32149

STATION: 29 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	268	1093	6539	2468	270	31	2	3	1	2	10677
1.00 - 1.99	31	660	1397	1370	223	42	18	9	8	1	3759
2.00 - 2.99	.	8	217	180	31	20	32	7	4	.	499
3.00 - 3.99	.	.	1	24	27	1	2	1	1	.	57
4.00 - 4.99	.	.	.	.	8	.	.	.	.	.	8
5.00 - 5.99	.	.	.	.	4	1	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	299	1761	8154	4042	563	95	54	20	14	3	15005

STATION: 29 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	301	28									329
1.00 - 1.99	77	612	5								694
2.00 - 2.99	.	43	32								75
3.00 - 3.99	.	.	.								0
4.00 - 4.99	.	.	.								0
5.00 - 5.99	.	.	.								0
6.00 - 6.99	.	.	.								0
7.00 - 7.99	.	.	.								0
8.00 - 8.99	.	.	.								0
9.00 - GREATER	.	.	.								0
TOTAL	378	683	37	0	0	0	0	0	0	0	1098

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.00 N, LONG: 81.25 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 29 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	429	1	.	.	.	.	.	.	.	.	430
1.00 - 1.99	325	68	.	.	.	.	.	.	.	.	393
2.00 - 2.99	.	2	.	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	754	71	0	0	0	0	0	0	0	0	825

STATION: 29 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	416	.	.	.	.	.	.	.	.	.	416
1.00 - 1.99	275	52	.	.	.	.	.	.	.	.	327
2.00 - 2.99	.	11	.	.	.	.	.	.	.	.	11
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	691	63	0	0	0	0	0	0	0	0	754

STATION: 29 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	271	.	.	.	.	.	.	.	.	.	271
1.00 - 1.99	485	227	.	.	.	.	.	.	.	.	712
2.00 - 2.99	.	20	.	.	.	.	.	.	.	.	20
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	756	247	0	0	0	0	0	0	0	0	1003

STATION: 29 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2455	2137	11753	7130	2996	1798	729	231	118	20	29367
1.00 - 1.99	1689	3671	4458	5609	2280	1438	773	273	116	12	20319
2.00 - 2.99	.	128	616	887	350	224	184	98	31	5	2523
3.00 - 3.99	.	.	3	83	134	38	31	2	20	.	311
4.00 - 4.99	.	.	.	1	16	21	4	3	6	.	51
5.00 - 5.99	.	.	.	.	4	5	1	8	11	.	29
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4144	5936	16830	13710	5780	3524	1722	615	302	37	52600

STATION: 29

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	307	280	373	395	692	870	769	1095	1044	425	342	384	6976
2.50 - 4.99	1681	1514	1786	2044	2521	2557	2997	2782	2057	1959	1867	1783	25548
5.00 - 7.49	932	887	963	1015	840	659	570	427	647	1068	992	948	9948
7.50 - 9.99	958	925	933	692	368	215	120	127	385	772	861	887	7243
10.00 - 12.49	336	274	265	122	31	17	2	20	108	188	187	315	1865
12.50 - 14.99	190	150	118	47	12	2	5	11	51	47	50	113	796
15.00 - 17.49	39	23	17	5	.	.	1	2	18	5	13	29	152
17.50 - 19.99	18	18	5	.	.	.	.	.	6	.	7	5	59
20.00 - GREATER	3	1	4	.	.	.	.	.	4	.	1	.	13
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.00 N, LONG: 81.25 W, DEPTH: 9 M

STATION: 29

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	640	499	419	263	203	121	44	111	226	615	591	635	4367
22.50 - 67.49 (45.0)	666	593	451	363	375	391	141	364	981	1302	918	813	7358
67.50 - 112.49 (90.0)	492	451	505	493	774	679	434	873	1344	1056	749	528	8378
112.50 - 157.49 (135.0)	364	399	670	715	887	594	537	825	591	360	534	388	6864
157.50 - 202.49 (180.0)	415	472	748	669	862	822	1108	796	407	222	361	424	7306
202.50 - 247.49 (225.0)	413	504	561	632	683	1123	1431	928	387	231	292	480	7665
247.50 - 292.49 (270.0)	636	531	576	685	457	495	667	409	225	281	385	560	5907
292.50 - 337.49 (315.0)	838	623	534	500	223	95	102	158	159	397	490	636	4755
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 29

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.29	1.11	1.08	1.03	0.92	0.93	0.54	1.10	0.89	1.34	1.02	1.27	1.04
1977	1.02	1.03	1.17	1.21	0.85	0.56	0.63	0.81	0.74	1.13	1.50	1.22	0.99
1978	1.34	1.22	1.05	0.82	0.82	0.82	0.72	0.82	1.00	1.29	1.23	1.30	1.03
1979	1.54	1.34	1.33	1.28	1.11	1.04	0.92	0.82	1.48	1.03	1.47	1.19	1.21
1980	1.16	1.08	1.37	1.15	0.73	0.78	0.68	0.96	1.03	1.21	1.36	1.32	1.07
1981	0.84	1.77	1.14	1.08	0.86	0.74	0.71	0.83	1.08	1.04	1.01	0.91	0.99
1982	0.85	1.28	1.05	0.99	0.78	0.71	0.61	0.63	0.86	1.22	1.21	1.16	0.94
1983	1.27	1.39	1.13	0.97	0.95	0.85	0.75	0.75	0.87	1.21	1.17	1.38	1.06
1984	1.53	1.28	1.07	0.92	0.81	0.60	0.78	0.63	1.47	1.10	1.52	1.07	1.06
1985	1.02	1.15	1.11	0.98	0.81	0.59	0.74	0.81	1.50	1.38	1.52	0.95	1.04
1986	1.25	0.91	1.32	0.88	0.89	0.84	0.58	0.76	1.12	1.01	1.38	1.34	1.02
1987	1.38	1.18	1.32	0.98	1.02	0.80	0.68	0.70	0.80	1.03	1.14	0.91	0.99
1988	1.11	0.92	0.85	0.66	0.75	0.75	0.81	0.76	1.04	1.00	1.03	0.73	0.87
1989	1.04	0.98	1.03	0.94	0.76	0.76	0.75	0.89	1.86	1.18	1.06	0.86	1.01
1990	1.02	1.18	1.06	1.31	0.90	0.81	0.88	0.78	0.97	1.27	0.94	1.30	1.03
1991	0.96	0.95	1.03	1.12	1.01	0.93	0.73	0.68	1.22	1.28	1.03	0.98	0.99
1992	1.06	0.90	1.09	0.90	0.77	0.62	0.61	0.74	0.86	1.03	1.25	1.11	0.91
1993	1.45	0.98	1.33	0.99	0.92	0.77	0.64	0.80	0.81	1.08	1.34	0.98	1.01
MEAN	1.17	1.15	1.14	1.01	0.87	0.77	0.71	0.79	1.09	1.16	1.23	1.11	

STATION: 29

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	321010	281111	22 7 5	3511 9	24 914	20 8 8	9 427	441112	181211	3612 9	24 9 9	291110	441112
1977	27 911	31 915	26 912	23 718	19 810	11 426	10 610	18 710	17 710	281010	251210	241610	31 915
1978	26 718	371110	25 913	19 913	271013	16 711	13 517	161212	301410	301210	23 8 5	451310	451310
1979	32 910	411110	341510	381112	21 8 8	19 6 9	19 813	181612	571312	27 911	3010 10	251010	571312
1980	25 910	271010	251710	251012	14 612	14 8 9	11 712	291412	231711	26 9 9	3619 10	371510	371510
1981	19 8 9	391310	29 913	21 7 9	19 715	17 7 9	12 710	371013	301611	211510	211011	21 812	391310
1982	18 616	28 911	23 910	20 810	17 810	14 713	11 519	10 610	17 7 9	261710	211510	22 813	28 911
1983	331111	401110	301012	27 718	20 811	20 8 9	15 6 9	25 911	2710 9	251110	24 814	391310	401110
1984	3111 8	321013	29 913	23 912	23 718	10 436	13 519	12 712	521212	281211	541410	251211	541410
1985	22 5 0	26 814	25 913	231011	19 7 8	11 518	34 912	331014	571710	561212	29 914	21 718	571710
1986	3311 9	201710	2610 9	19 619	181510	15 710	11 425	18 910	321510	3010 9	3411 9	311110	3411 9
1987	3912 8	31 910	301110	181210	15 912	14 910	14 6 9	10 810	171212	23 7 4	211011	201112	3912 8
1988	301610	19 619	16 519	13 428	17 6 5	14 6 6	19 8 9	27 912	221611	21 6 4	23 912	23 8 4	301610
1989	4913 9	211211	20 6 6	18 6 5	16 6 8	19 617	111011	191112	571710	23 7 3	201310	21 616	571710
1990	171011	26 911	231010	24 7 7	18 715	13 911	17 618	241512	201410	321111	23 813	261310	321111
1991	211210	20 9 9	22 814	20 811	21 811	23 8 8	12 518	291211	481810	251110	171012	19 7 8	481810
1992	301210	191010	211111	17 910	13 810	11 517	10 712	221012	17 6 4	20 814	261011	20 910	301210
1993	351310	18 713	3610 9	24 715	14 613	14 5 9	10 912	341410	231410	22 9 9	341210	24 9 9	3610 9
MAX	4913 9	411110	3610 9	381112	271013	23 8 8	34 912	441112	571710	561212	541410	451310	

MAX Hmo(m): 5.7 MAX Tp(sec): 17. MAX Dp(deg): 104. DATE(gmt): 89090906

MAX WIND SPEED(m/sec): 26. MAX WIND DIRECTION(deg): 40. DATE(gmt): 79090415

MEAN Hmo(m): 1.0 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.5 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.25 N, LONG: 81.00 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 30

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	213	216	170	199	193	197	283	223	145	76	100	260	2275
0.50 - 0.99	1351	1318	1387	1702	2501	3003	3463	3174	2026	1384	1127	1631	24067
1.00 - 1.49	1490	1327	1602	1653	1421	947	611	786	1236	1781	1601	1302	15757
1.50 - 1.99	850	765	802	529	271	144	98	170	474	777	984	744	6608
2.00 - 2.49	344	258	367	171	67	28	2	59	213	287	325	354	2475
2.50 - 2.99	127	91	85	44	10	1	2	22	100	117	126	108	833
3.00 - 3.49	61	46	37	12	1	.	3	17	51	31	31	32	322
3.50 - 3.99	15	34	14	6	.	.	2	8	22	5	8	18	132
4.00 - 4.49	3	17	.	4	.	.	.	5	14	3	3	13	62
4.50 - 4.99	7	.	.	.	.	.	.	.	13	2	5	2	29
5.00 - 5.49	1	.	.	.	.	.	.	.	6	.	6	.	13
5.50 - 5.99	2	.	.	.	.	.	.	.	7	1	2	.	12
6.00 - 6.49	.	.	.	.	.	.	.	.	6	.	2	.	8
6.50 - 6.99	.	.	.	.	.	.	.	.	7	.	.	.	7
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 30

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	36	63	59	52	24	41	53	19	14	10	31	67	469
4.0 - 4.9	451	446	295	412	191	179	182	153	123	181	199	375	3187
5.0 - 5.9	461	438	390	312	319	248	212	179	268	357	347	524	4055
6.0 - 6.9	224	234	301	234	340	488	265	447	494	444	265	262	3998
7.0 - 7.9	172	280	372	361	747	1041	1402	1309	919	636	441	261	7941
8.0 - 8.9	339	479	499	626	1112	1315	1524	1291	695	723	640	584	9827
9.0 - 9.9	692	651	759	614	786	586	583	468	552	831	871	770	8163
10.0 - 10.9	778	545	591	526	363	198	145	218	309	512	604	446	5235
11.0 - 11.9	434	341	372	348	188	104	69	117	210	270	314	385	3152
12.0 - 12.9	305	157	220	279	190	73	17	71	165	211	136	233	2057
13.0 - 13.9	197	93	222	255	104	33	9	65	150	122	126	223	1599
14.0 - 14.9	132	71	157	165	65	5	2	47	119	57	140	121	1081
15.0 - 15.9	61	85	85	64	27	3	1	22	120	48	74	102	692
16.0 - 16.9	70	97	45	30	6	2	.	28	62	24	38	79	481
17.0 - 17.9	38	41	35	27	2	1	.	13	36	21	41	19	274
18.0 - 18.9	37	14	17	7	.	2	.	7	27	9	15	7	142
19.0 - 19.9	17	22	14	5	.	1	.	4	22	6	16	5	112
20.0 - LONGER	20	15	31	3	.	.	.	6	35	2	22	1	135
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 30

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	119	117	39	26	28	6	.	.	7	70	72	124	608
11.25 - 33.74 (22.5)	77	56	35	35	22	4	3	2	19	139	82	107	581
33.75 - 56.24 (45.0)	70	65	45	37	54	20	11	13	65	194	98	120	792
56.25 - 78.74 (67.5)	111	115	75	59	65	110	39	62	194	282	168	167	1447
78.75 - 101.24 (90.0)	1621	1428	1616	1777	1543	961	489	981	2018	2489	2071	1721	18715
101.25 - 123.74 (112.5)	1582	1389	1537	1395	2140	2754	3480	3084	1860	1136	1399	1411	23167
123.75 - 146.24 (135.0)	158	188	374	352	294	152	125	167	59	60	121	171	2221
146.25 - 168.74 (157.5)	72	53	135	100	80	22	30	36	16	23	44	43	654
168.75 - 191.24 (180.0)	55	68	123	78	60	60	54	24	14	11	37	82	666
191.25 - 213.74 (202.5)	51	77	93	91	53	77	56	30	33	10	39	60	670
213.75 - 236.24 (225.0)	49	78	87	69	40	91	80	36	8	9	22	71	640
236.25 - 258.74 (247.5)	40	60	42	63	24	41	54	20	1	2	10	57	414
258.75 - 281.24 (270.0)	71	69	46	53	20	16	32	.	5	1	13	47	373
281.25 - 303.74 (292.5)	139	106	59	61	13	2	11	.	.	11	37	59	498
303.75 - 326.24 (315.0)	148	88	95	92	21	4	.	.	5	8	51	117	629
326.25 - 348.74 (337.5)	101	115	63	32	7	.	.	9	16	19	56	107	525
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.25 N, LONG: 81.00 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 30 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	234	1									235
1.00 - 1.99	261	584	1								846
2.00 - 2.99		55	2								57
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	495	640	3	0	0	0	0	0	0	0	1138

STATION: 30 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	241	84									325
1.00 - 1.99	66	938	118								1122
2.00 - 2.99		69	153	9							231
3.00 - 3.99			2	2							4
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	307	1091	273	11	0	0	0	0	0	0	1682

STATION: 30 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	212	1050	6899	5442	2509	1254	461	152	62	11	18052
1.00 - 1.99	46	1569	3925	5385	1985	1129	532	175	107	11	14864
2.00 - 2.99		20	565	832	383	191	127	67	23	2	2210
3.00 - 3.99			9	168	106	31	17	4	8		343
4.00 - 4.99				8	43	15	7	3	4		80
5.00 - 5.99					6	6	1	3	5		21
6.00 - 6.99						3	1	4	6		14
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	258	2639	11398	11835	5032	2629	1146	408	215	24	35584

STATION: 30 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	237	998	4298	691	44	9	1			1	6279
1.00 - 1.99	39	735	1326	616	67	25	3	3	3	1	2818
2.00 - 2.99		24	294	185	29	10	19	4	3		568
3.00 - 3.99			9	58	23	6	4	1			101
4.00 - 4.99				1	10						11
5.00 - 5.99					4						4
6.00 - 6.99						1					1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	276	1757	5927	1551	177	51	27	8	6	2	9782

STATION: 30 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	242	52									294
1.00 - 1.99	42	690	60								792
2.00 - 2.99		41	97								138
3.00 - 3.99			3	1							4
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	284	783	160	1	0	0	0	0	0	0	1228

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.25 N, LONG: 81.00 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 30 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	444	24	.	.	.	.	.	.	.	.	468
1.00 - 1.99	87	681	1	.	.	.	.	.	.	.	769
2.00 - 2.99	.	44	4	.	.	.	.	.	.	.	48
3.00 - 3.99	.	.	2	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	531	749	7	0	0	0	0	0	0	0	1287

STATION: 30 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	378	.	.	.	.	.	.	.	.	.	378
1.00 - 1.99	288	50	.	.	.	.	.	.	.	.	338
2.00 - 2.99	.	11	.	.	.	.	.	.	.	.	11
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	666	61	0	0	0	0	0	0	0	0	727

STATION: 30 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	311	.	.	.	.	.	.	.	.	.	311
1.00 - 1.99	528	288	.	.	.	.	.	.	.	.	816
2.00 - 2.99	.	45	.	.	.	.	.	.	.	.	45
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	839	333	0	0	0	0	0	0	0	0	1172

STATION: 30 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2299	2209	11197	6133	2553	1263	462	152	62	12	26342
1.00 - 1.99	1357	5535	5431	6001	2052	1154	535	178	110	12	22365
2.00 - 2.99	.	309	1115	1026	412	201	146	71	26	2	3308
3.00 - 3.99	.	.	25	229	129	37	21	5	8	.	454
4.00 - 4.99	.	.	.	9	53	15	7	3	4	.	91
5.00 - 5.99	.	.	.	.	10	6	1	3	5	.	25
6.00 - 6.99	.	.	.	.	.	4	1	4	6	.	15
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3656	8053	17768	13398	5209	2680	1173	416	221	26	52600

STATION: 30

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	292	247	342	378	646	766	706	1056	995	389	363	355	6535
2.50 - 4.99	1629	1485	1718	1979	2503	2578	2971	2780	2056	1931	1767	1732	25129
5.00 - 7.49	926	898	984	1030	873	698	636	462	663	1083	987	948	10188
7.50 - 9.99	958	932	959	717	393	260	141	131	411	788	914	956	7560
10.00 - 12.49	379	304	300	154	37	16	3	23	105	215	209	302	2047
12.50 - 14.99	211	147	133	53	12	2	3	12	60	53	59	138	883
15.00 - 17.49	46	35	18	8	.	.	3	.	18	5	10	29	172
17.50 - 19.99	20	22	6	1	.	.	1	.	4	.	10	4	68
20.00 - GREATER	3	2	4	.	.	.	.	.	8	.	1	.	18
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.25 N, LONG: 81.00 W, DEPTH: 11 M

STATION: 30

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	635	509	392	292	205	116	55	118	238	608	587	645	4400
22.50 - 67.49 (45.0)	676	589	454	355	382	414	141	380	1006	1308	911	813	7429
67.50 - 112.49 (90.0)	480	454	507	472	733	660	429	857	1299	1027	728	504	8150
112.50 - 157.49 (135.0)	359	380	647	690	884	579	518	801	570	366	533	384	6711
157.50 - 202.49 (180.0)	402	466	765	694	879	839	1116	814	424	231	362	411	7403
202.50 - 247.49 (225.0)	407	526	571	652	717	1131	1467	951	401	241	302	492	7858
247.50 - 292.49 (270.0)	663	522	572	682	446	484	648	385	220	291	397	556	5866
292.50 - 337.49 (315.0)	842	626	556	483	218	97	90	158	162	392	500	659	4783
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 30

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.38	1.20	1.15	1.07	0.99	1.01	0.58	1.18	0.91	1.40	1.11	1.37	1.11
1977	1.14	1.12	1.25	1.28	0.90	0.60	0.66	0.84	0.77	1.22	1.59	1.29	1.05
1978	1.44	1.26	1.15	0.89	0.89	0.87	0.78	0.86	1.11	1.32	1.32	1.40	1.11
1979	1.62	1.39	1.40	1.34	1.18	1.12	0.99	0.89	1.61	1.11	1.59	1.27	1.29
1980	1.22	1.19	1.45	1.23	0.77	0.86	0.72	1.03	1.10	1.29	1.36	1.41	1.13
1981	0.95	1.82	1.17	1.15	0.93	0.81	0.76	0.91	1.10	1.15	1.10	0.99	1.06
1982	0.89	1.39	1.14	1.07	0.83	0.77	0.66	0.69	0.93	1.24	1.29	1.24	1.01
1983	1.36	1.44	1.25	1.04	1.03	0.93	0.80	0.80	0.93	1.30	1.22	1.53	1.14
1984	1.64	1.38	1.13	1.01	0.89	0.64	0.85	0.67	1.59	1.17	1.66	1.11	1.14
1985	1.11	1.24	1.21	1.06	0.87	0.64	0.80	0.86	1.58	1.49	1.55	1.04	1.12
1986	1.33	0.97	1.44	0.93	0.90	0.92	0.65	0.81	1.18	1.09	1.49	1.43	1.10
1987	1.38	1.28	1.36	1.03	1.08	0.86	0.73	0.77	0.87	1.13	1.20	0.97	1.05
1988	1.17	1.00	0.92	0.71	0.81	0.80	0.86	0.82	1.13	1.07	1.11	0.78	0.93
1989	1.15	1.08	1.14	1.02	0.82	0.83	0.82	0.97	1.94	1.28	1.15	0.94	1.09
1990	1.08	1.30	1.14	1.37	0.96	0.88	0.96	0.82	1.04	1.37	1.02	1.38	1.11
1991	1.05	1.04	1.13	1.20	1.08	0.99	0.77	0.73	1.32	1.37	1.11	1.05	1.07
1992	1.14	0.99	1.17	0.97	0.83	0.68	0.65	0.80	0.93	1.10	1.35	1.19	0.98
1993	1.57	1.09	1.42	1.06	0.97	0.82	0.67	0.86	0.85	1.17	1.45	1.05	1.08
MEAN	1.26	1.23	1.22	1.08	0.93	0.83	0.76	0.85	1.16	1.24	1.31	1.19	

STATION: 30

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	33 9 9	311110	25 8 8	4311 9	26 914	21 8 7	11 520	441112	18 7 9	4111 8	26 8 8	3110 9	441112
1977	2910 8	33 915	28 911	28 818	21 810	12 427	11 5 8	19 710	18 7 9	3010 9	271210	26 912	33 915
1978	321010	4011 9	28 913	25 913	30 914	16 711	14 518	161111	371410	301210	27 9 6	451310	451310
1979	341014	4412 9	381014	411112	24 8 8	20 7 5	19 713	181612	691312	29 910	33 9 8	27 8 7	691312
1980	28 9 9	29 911	271014	29 914	16 611	16 525	11 711	301412	241711	3010 9	36 9 9	371210	371210
1981	23 6 0	4112 9	32 915	22 7 9	20 814	19 7 8	13 8 9	431013	301611	231510	221011	23 812	431013
1982	18 910	301010	25 816	23 816	17 810	15 713	12 520	11 6 9	21 7 8	26 635	23 7 9	25 812	301010
1983	351110	4412 9	351112	33 915	21 811	22 8 8	17 7 7	251011	3010 8	2710 9	24 816	4413 9	4413 9
1984	3710 7	341013	32 916	27 812	26 817	13 536	15 521	13 712	581212	281210	6113 9	271211	6113 9
1985	27 7 1	29 914	30 912	26 817	22 7 7	16 523	361013	32 914	661710	271112	34 913	22 817	661710
1986	4010 9	24 623	3610 8	20 619	21 7 9	17 7 9	15 524	20 8 8	311510	3210 8	4110 8	3211 9	4110 8
1987	4812 8	34 9 9	311110	21 529	16 912	17 521	15 7 9	11 810	201212	26 8 7	231011	221011	4812 8
1988	27 911	21 717	17 617	13 518	19 6 5	16 6 5	20 8 8	30 812	231611	23 7 6	241013	25 9 7	30 812
1989	5713 9	25 8 7	23 6 3	19 7 6	18 6 7	20 618	131011	201111	682011	26 7 3	231410	23 714	682011
1990	19 911	28 910	25 9 9	27 8 8	19 714	15 522	19 718	231511	241410	341111	27 812	281310	341111
1991	2112 9	23 8 7	24 915	22 810	22 810	25 8 9	13 519	321211	461610	2811 9	19 5 1	22 7 5	461610
1992	321210	23 7 4	231011	19 9 9	14 8 9	12 516	11 523	231012	18 6 4	21 814	281011	23 8 8	321210
1993	4613 9	20 6 5	3911 9	25 814	14 810	15 5 9	10 811	371410	2014 9	24 9 8	3812 9	27 9 8	4613 9
MAX	5713 9	4412 9	3911 9	4311 9	30 914	25 8 9	361013	441112	691312	571112	6113 9	451310	

MAX Hmo(m): 6.9 MAX Tp(sec): 13. MAX Dp(deg): 115. DATE(gmt): 79090418

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 70. DATE(gmt): 79090415

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.50 N, LONG: 81.00 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 31

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	266	247	195	246	250	260	377	280	171	120	118	313	2843
0.50 - 0.99	1510	1484	1519	1839	2657	3160	3498	3298	2231	1696	1345	1828	26065
1.00 - 1.49	1502	1333	1592	1597	1253	781	516	639	1112	1713	1650	1279	14967
1.50 - 1.99	750	625	779	474	251	105	66	153	410	596	809	676	5694
2.00 - 2.49	274	223	279	121	47	14	1	49	215	241	259	260	1983
2.50 - 2.99	109	81	73	27	6	.	2	27	83	75	95	65	643
3.00 - 3.49	37	50	20	10	.	.	.	9	39	17	20	24	226
3.50 - 3.99	6	24	7	6	.	.	4	7	19	3	9	17	102
4.00 - 4.49	7	5	.	.	.	.	.	2	15	1	2	2	34
4.50 - 4.99	2	.	.	.	.	.	.	.	6	1	7	.	16
5.00 - 5.49	1	.	.	.	.	.	.	.	4	1	5	.	11
5.50 - 5.99	.	.	.	.	.	.	.	.	15	.	1	.	16
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 31

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	71	112	80	80	53	79	83	40	21	25	37	126	807
4.0 - 4.9	511	514	338	422	222	202	207	159	136	240	231	475	3657
5.0 - 5.9	288	244	273	195	275	179	154	157	261	261	215	334	2836
6.0 - 6.9	177	197	264	245	340	489	270	462	468	425	259	225	3821
7.0 - 7.9	166	292	354	372	756	1105	1420	1323	946	650	434	662	8080
8.0 - 8.9	343	467	529	630	1098	1279	1521	1255	653	723	631	558	9687
9.0 - 9.9	686	639	759	625	720	550	558	456	491	778	860	778	7900
10.0 - 10.9	751	559	601	463	347	172	140	211	287	469	601	423	5024
11.0 - 11.9	424	339	347	313	163	110	77	114	215	256	293	366	3017
12.0 - 12.9	301	165	199	260	211	88	22	74	182	265	138	217	2122
13.0 - 13.9	211	93	234	307	117	46	8	70	190	160	173	247	1856
14.0 - 14.9	178	94	201	204	89	9	3	56	137	74	145	156	1346
15.0 - 15.9	108	85	105	106	48	3	1	26	136	58	107	131	914
16.0 - 16.9	103	136	59	45	14	3	.	24	77	40	70	115	686
17.0 - 17.9	58	56	47	34	8	2	.	15	38	21	58	33	370
18.0 - 18.9	42	34	21	11	3	2	.	10	26	9	24	9	191
19.0 - 19.9	23	28	17	6	.	2	.	4	21	7	23	7	138
20.0 - LONGER	23	18	36	2	.	.	.	8	35	3	21	2	148
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 31

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	91	91	22	12	14	4	.	.	3	45	32	80	394
11.25 - 33.74 (22.5)	36	45	24	24	18	4	3	4	9	96	42	84	389
33.75 - 56.24 (45.0)	51	54	36	21	41	16	5	7	46	173	82	96	628
56.25 - 78.74 (67.5)	68	90	51	40	47	83	23	49	147	184	110	142	1034
78.75 - 101.24 (90.0)	941	732	940	1141	902	629	268	465	1456	1528	1140	1120	11262
101.25 - 123.74 (112.5)	2348	2107	2200	1982	2696	2994	3548	3482	2391	2233	2482	2043	30506
123.75 - 146.24 (135.0)	234	298	491	489	412	293	301	315	178	95	152	261	3519
146.25 - 168.74 (157.5)	83	67	170	122	105	29	34	34	16	29	51	57	797
168.75 - 191.24 (180.0)	60	70	119	76	64	62	70	22	13	12	34	77	679
191.25 - 213.74 (202.5)	34	46	65	58	34	61	55	23	25	8	31	45	485
213.75 - 236.24 (225.0)	28	52	63	57	36	52	59	34	8	8	11	57	465
236.25 - 258.74 (247.5)	44	51	39	67	24	58	48	22	.	1	8	63	425
258.75 - 281.24 (270.0)	84	72	51	61	26	28	40	.	7	3	18	58	448
281.25 - 303.74 (292.5)	151	116	65	77	20	4	10	.	.	13	39	80	575
303.75 - 326.24 (315.0)	125	81	87	72	15	3	.	3	5	17	46	99	553
326.25 - 348.74 (337.5)	86	100	41	21	10	.	.	4	16	19	42	102	441
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.50 N, LONG: 81.00 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 31 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	293	2	.	.	.	.	.	.	.	.	295
1.00 - 1.99	381	66	.	.	.	.	.	.	.	.	447
2.00 - 2.99	.	13	.	.	.	.	.	.	.	.	13
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	674	81	0	0	0	0	0	0	0	0	755

STATION: 31 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	281	19	.	.	.	.	.	.	.	.	300
1.00 - 1.99	121	676	75	.	.	.	.	.	.	.	872
2.00 - 2.99	.	27	71	.	.	.	.	.	.	.	98
3.00 - 3.99	.	.	4	1	.	.	.	.	.	.	5
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	402	722	150	1	0	0	0	0	0	0	1275

STATION: 31 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	270	995	3746	3337	2168	1510	675	211	75	12	12999
1.00 - 1.99	48	1532	2606	3079	1526	1177	629	217	98	3	10915
2.00 - 2.99	.	11	422	556	223	162	120	54	22	3	1573
3.00 - 3.99	.	.	2	77	85	25	15	2	11	.	217
4.00 - 4.99	.	.	.	1	18	8	2	3	.	.	32
5.00 - 5.99	.	.	.	.	1	6	1	.	.	.	8
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	318	2538	6776	7050	4021	2888	1442	487	206	18	25744

STATION: 31 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	256	1280	8265	3266	531	96	22	12	10	3	13741
1.00 - 1.99	42	763	2132	2217	478	166	75	28	20	7	5928
2.00 - 2.99	.	13	282	334	57	44	57	25	6	.	818
3.00 - 3.99	.	.	.	50	40	4	4	3	3	.	104
4.00 - 4.99	.	.	.	2	9	2	.	1	4	.	18
5.00 - 5.99	.	.	.	.	3	2	.	5	9	.	19
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	298	2056	10679	5869	1118	314	158	74	52	10	20628

STATION: 31 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	308	52	.	.	.	.	.	.	.	.	360
1.00 - 1.99	73	657	90	.	.	.	.	.	.	.	820
2.00 - 2.99	.	11	69	2	.	.	.	.	.	.	82
3.00 - 3.99	.	.	.	2	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	381	720	159	4	0	0	0	0	0	0	1264

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.50 N, LONG: 81.00 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 31 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	404	10	.	.	.	.	.	.	.	.	414
1.00 - 1.99	355	135	2	.	.	.	.	.	.	.	492
2.00 - 2.99	.	6	1	.	.	.	.	.	.	.	7
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	759	151	3	0	0	0	0	0	0	0	913

STATION: 31 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	510	.	.	.	.	.	.	.	.	.	510
1.00 - 1.99	337	73	.	.	.	.	.	.	.	.	410
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	847	83	0	0	0	0	0	0	0	0	930

STATION: 31 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	289	.	.	.	.	.	.	.	.	.	289
1.00 - 1.99	496	281	.	.	.	.	.	.	.	.	777
2.00 - 2.99	.	25	.	.	.	.	.	.	.	.	25
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	785	306	0	0	0	0	0	0	0	0	1091

STATION: 31 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2611	2358	12011	6603	2699	1606	697	223	85	15	28908
1.00 - 1.99	1853	4183	4905	5296	2004	1343	704	245	118	10	20661
2.00 - 2.99	.	116	845	892	280	206	177	79	28	3	2626
3.00 - 3.99	.	.	6	130	125	29	19	5	14	.	328
4.00 - 4.99	.	.	.	3	27	10	2	4	4	.	50
5.00 - 5.99	.	.	.	.	4	8	1	5	9	.	27
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	6657	17767	12924	5139	3202	1600	561	258	28	52600

STATION: 31

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	307	252	358	385	660	749	725	1074	1016	396	374	370	6666
2.50 - 4.99	1605	1485	1684	1962	2487	2572	2922	2746	2018	1919	1764	1695	24859
5.00 - 7.49	930	887	988	1010	859	700	653	473	651	1082	976	947	10156
7.50 - 9.99	949	914	958	736	400	276	154	138	433	794	908	971	7631
10.00 - 12.49	374	319	307	161	45	21	4	20	114	213	216	297	2091
12.50 - 14.99	226	155	142	56	13	2	2	13	62	58	64	151	944
15.00 - 17.49	43	34	13	8	.	.	2	.	10	2	9	29	150
17.50 - 19.99	27	21	9	2	.	.	2	.	9	.	8	4	82
20.00 - GREATER	3	5	5	.	.	.	.	.	7	.	1	.	21
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.50 N, LONG: 81.00 W, DEPTH: 9 M

STATION: 31

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION	WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	642	513	393	299	223	119	56	134	251	605	566	631	4432
22.50 - 67.49	(45.0)	672	589	455	352	376	419	143	395	1009	1276	906	820	7412
67.50 - 112.49	(90.0)	472	437	496	457	718	649	431	848	1272	1025	716	482	8003
112.50 - 157.49	(135.0)	374	382	629	676	839	585	503	783	560	373	527	387	6618
157.50 - 202.49	(180.0)	384	461	772	696	891	831	1094	818	427	230	371	402	7377
202.50 - 247.49	(225.0)	405	540	600	677	743	1118	1474	956	421	258	312	504	8008
247.50 - 292.49	(270.0)	676	520	564	678	455	495	658	374	215	298	413	576	5922
292.50 - 337.49	(315.0)	839	630	555	485	219	104	105	156	165	399	509	662	4828
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 31

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.26	1.11	1.09	1.01	0.95	0.97	0.55	1.12	0.87	1.29	1.02	1.26	1.04
1977	1.03	1.04	1.20	1.20	0.85	0.57	0.63	0.80	0.72	1.12	1.49	1.22	0.99
1978	1.37	1.18	1.09	0.85	0.86	0.84	0.74	0.83	1.03	1.21	1.22	1.25	1.04
1979	1.51	1.34	1.32	1.29	1.13	1.07	0.95	0.84	1.54	1.03	1.47	1.18	1.22
1980	1.17	1.07	1.42	1.18	0.72	0.79	0.68	0.99	1.05	1.18	1.33	1.30	1.07
1981	0.84	1.74	1.15	1.09	0.88	0.76	0.73	0.87	1.05	1.05	1.01	0.94	1.00
1982	0.87	1.33	1.06	1.01	0.79	0.74	0.64	0.66	0.88	1.20	1.20	1.17	0.96
1983	1.28	1.39	1.23	1.01	0.98	0.89	0.77	0.77	0.87	1.23	1.17	1.40	1.08
1984	1.49	1.31	1.11	0.98	0.85	0.61	0.83	0.64	1.49	1.08	1.53	1.04	1.08
1985	1.05	1.15	1.14	1.00	0.84	0.60	0.78	0.81	1.46	1.41	1.50	0.95	1.06
1986	1.25	0.91	1.33	0.88	0.88	0.89	0.61	0.80	1.09	1.00	1.40	1.34	1.03
1987	1.37	1.23	1.31	0.98	1.02	0.82	0.71	0.74	0.83	1.00	1.13	0.94	1.01
1988	1.10	0.93	0.89	0.68	0.77	0.76	0.84	0.80	1.08	0.99	1.06	0.74	0.89
1989	1.07	1.02	1.06	0.96	0.78	0.80	0.79	0.94	1.84	1.19	1.07	0.88	1.03
1990	1.02	1.22	1.08	1.30	0.92	0.84	0.93	0.78	0.99	1.27	0.95	1.28	1.05
1991	0.99	0.95	1.09	1.14	1.04	0.94	0.75	0.70	1.22	1.26	1.03	0.98	1.01
1992	1.09	0.94	1.12	0.91	0.78	0.65	0.62	0.77	0.87	1.00	1.26	1.11	0.93
1993	1.49	1.02	1.34	1.00	0.92	0.79	0.64	0.82	0.81	1.09	1.34	0.97	1.02
MEAN	1.18	1.16	1.17	1.03	0.89	0.80	0.73	0.82	1.09	1.15	1.23	1.11	

STATION: 31

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	291011	291111	23 7 5	351110	25 914	20 814	10 421	421112	181211	351110	24 8 9	291110	421112
1977	27 911	32 915	271015	26 819	20 911	12 426	10 5 9	17 710	17 710	281010	261210	24 913	32 915
1978	31 916	381110	26 913	23 913	281014	14 611	12 519	161212	311310	281610	26 9 8	411310	411310
1979	321015	411210	371015	391112	22 9 9	19 7 6	19 713	181712	571312	27 911	301010	251310	571312
1980	271010	271012	271015	28 915	16 711	15 6 7	11 712	291412	231712	2810 9	371910	361510	371910
1981	19 7 8	401210	301014	20 7 9	19 814	18 7 9	13 711	431013	311612	201510	201012	22 813	431013
1982	19 911	291011	22 815	22 719	15 810	14 713	12 421	9 610	20 6 8	25 8 4	23 710	25 813	291011
1983	331111	411210	371112	31 916	19 712	20 8 9	17 7 8	231012	2910 9	25 811	24 915	3811 9	411210
1984	3511 9	331014	29 916	26 912	25 720	10 435	15 619	13 712	551213	241211	561310	261212	561310
1985	21 5 0	28 915	29 913	25 818	21 7 8	13 424	381013	28 914	571712	501112	34 915	22 720	571712
1986	3510 9	211710	29 8 5	19 619	20 8 9	16 710	12 425	19 8 9	251411	30 8 5	3710 9	301012	3710 9
1987	4412 9	31 910	291010	19 529	16 913	15 521	15 6 9	12 5 8	191213	24 7 5	221011	211011	4412 9
1988	271610	21 717	16 519	14 518	18 6 5	17 6 6	18 7 9	29 913	231612	20 6 4	221013	24 8 7	29 913
1989	501310	24 8 8	21 7 8	18 6 5	18 7 9	19 716	131112	191112	572012	24 7 6	211410	23 714	572012
1990	181012	26 911	231010	26 8 9	18 715	14 911	18 718	221412	231410	321112	24 913	251310	321112
1991	201210	21 7 6	23 915	21 811	21 811	24 8 9	12 420	301212	361511	261210	161012	20 7 6	361511
1992	301211	21 7 5	221011	17 6 5	13 5 6	11 615	10 423	211012	18 6 7	20 814	271012	22 8 9	301211
1993	421310	21 710	371110	24 814	14 614	14 5 9	10 812	321410	211410	22 9 9	361210	25 8 8	421310
MAX	501310	411210	371110	391112	281014	24 8 9	381013	431013	572012	501112	561310	411310	

MAX Hmo(m): 5.7 MAX Tp(sec): 20. MAX Dp(deg): 115. DATE(gmt): 89090800

MAX WIND SPEED(m/sec): 27. MAX WIND DIRECTION(deg): 155. DATE(gmt): 79090418

MEAN Hmo(m): 1.0 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.5 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.75 N, LONG: 80.75 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 32

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	267	246	184	232	248	215	349	250	156	118	132	285	2682
0.50 - 0.99	1399	1392	1404	1714	2521	3028	3362	3176	2175	1613	1261	1721	24766
1.00 - 1.49	1432	1253	1530	1591	1325	892	631	750	1091	1641	1560	1267	14963
1.50 - 1.99	832	688	850	543	282	149	113	160	402	667	900	714	6300
2.00 - 2.49	323	286	324	157	72	36	3	79	211	281	270	316	2358
2.50 - 2.99	128	106	123	62	14	.	1	17	141	109	142	103	946
3.00 - 3.49	55	64	33	9	2	.	.	17	73	27	24	31	335
3.50 - 3.99	15	21	14	10	.	.	3	8	17	5	13	19	125
4.00 - 4.49	7	15	2	2	.	.	1	6	16	1	4	8	62
4.50 - 4.99	4	1	.	.	.	.	1	1	11	2	5	.	25
5.00 - 5.49	2	.	.	.	.	.	.	.	7	.	7	.	16
5.50 - 5.99	.	.	.	.	.	.	.	.	5	.	2	.	7
6.00 - 6.49	.	.	.	.	.	.	.	.	3	.	.	.	3
6.50 - 6.99	.	.	.	.	.	.	.	.	12	.	.	.	12
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 32

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	72	98	66	64	62	64	81	34	20	24	35	115	735
4.0 - 4.9	471	453	306	387	232	217	257	178	139	232	209	449	3530
5.0 - 5.9	364	363	360	324	317	346	247	237	332	344	256	439	3929
6.0 - 6.9	216	244	319	263	376	514	288	473	493	447	300	292	4225
7.0 - 7.9	185	304	385	392	733	1018	1326	1256	925	643	444	272	7883
8.0 - 8.9	309	424	463	595	1066	1238	1466	1200	638	695	573	487	9154
9.0 - 9.9	641	613	730	623	700	505	551	457	448	750	818	706	7542
10.0 - 10.9	729	538	620	455	334	173	141	208	301	446	636	452	5033
11.0 - 11.9	434	351	324	311	162	104	74	116	198	264	294	372	3004
12.0 - 12.9	293	145	203	239	203	78	20	73	168	244	135	239	2040
13.0 - 13.9	232	106	220	272	122	38	9	75	176	158	159	231	1798
14.0 - 14.9	170	98	193	198	84	12	3	54	139	83	154	148	1336
15.0 - 15.9	103	80	94	97	47	3	1	34	130	56	112	108	865
16.0 - 16.9	98	120	61	48	16	3	.	28	81	36	66	101	658
17.0 - 17.9	58	56	49	30	8	2	.	16	43	22	59	36	379
18.0 - 18.9	41	32	17	11	1	3	.	12	25	9	23	8	182
19.0 - 19.9	23	26	14	6	1	2	.	5	24	6	24	6	137
20.0 - LONGER	25	21	40	5	.	.	.	8	40	5	23	3	170
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 32

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	90	95	25	12	21	3	.	2	5	52	32	87	424
11.25 - 33.74 (22.5)	47	49	35	33	19	5	2	4	15	125	53	96	483
33.75 - 56.24 (45.0)	105	94	54	36	64	60	13	18	112	300	151	203	1210
56.25 - 78.74 (67.5)	82	113	85	46	68	106	43	74	265	186	144	140	1352
78.75 - 101.24 (90.0)	1358	1060	1304	1439	1138	630	312	635	1558	1940	1642	1440	14456
101.25 - 123.74 (112.5)	1706	1511	1548	1356	2137	2391	2933	2887	1888	1532	1734	1384	23007
123.75 - 146.24 (135.0)	284	368	554	637	557	658	684	618	353	171	239	348	5471
146.25 - 168.74 (157.5)	121	113	241	174	171	68	61	58	39	50	65	92	1253
168.75 - 191.24 (180.0)	74	87	166	110	91	98	105	45	20	21	50	105	972
191.25 - 213.74 (202.5)	37	71	75	79	54	97	90	44	27	11	28	64	677
213.75 - 236.24 (225.0)	44	81	74	75	37	105	95	33	7	17	23	72	663
236.25 - 258.74 (247.5)	42	60	55	77	32	64	75	36	3	4	10	70	528
258.75 - 281.24 (270.0)	94	70	52	69	26	29	38	2	6	8	22	56	472
281.25 - 303.74 (292.5)	169	121	69	79	25	3	13	.	2	11	43	98	633
303.75 - 326.24 (315.0)	125	93	94	77	17	3	.	3	6	15	57	112	602
326.25 - 348.74 (337.5)	86	86	33	21	7	.	.	5	14	21	27	97	397
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.75 N, LONG: 80.75 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 32 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	270										270
1.00 - 1.99	395	81									476
2.00 - 2.99		13									13
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	665	94	0	0	0	0	0	0	0	0	759

STATION: 32 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	255	83		1							339
1.00 - 1.99	124	1160	103								1387
2.00 - 2.99		67	412	2							481
3.00 - 3.99			19								19
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	379	1310	534	3	0	0	0	0	0	0	2226

STATION: 32 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	258	893	2818	2839	1942	1417	645	211	76	14	11113
1.00 - 1.99	55	1365	2106	2823	1414	1130	558	189	99	8	9747
2.00 - 2.99		28	328	466	291	199	118	75	24	5	1534
3.00 - 3.99			12	97	87	35	33	2	13		279
4.00 - 4.99				3	36	6	5	5			55
5.00 - 5.99					7	6	1				14
6.00 - 6.99							1				1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	313	2286	5264	6228	3777	2793	1361	482	212	27	22743

STATION: 32 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	230	1324	8273	3375	594	99	25	11	10	1	13942
1.00 - 1.99	48	807	2335	2509	532	178	60	29	21	8	6527
2.00 - 2.99		25	322	357	77	51	61	27	10		930
3.00 - 3.99			6	64	44	9	14	6	2		145
4.00 - 4.99				7	16	2	2	1	4		32
5.00 - 5.99					4			1	4		9
6.00 - 6.99						2		4	8		14
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	278	2156	10936	6312	1267	341	162	79	59	9	21599

STATION: 32 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	317	156		1							474
1.00 - 1.99	59	902	131								1092
2.00 - 2.99		56	163	18							237
3.00 - 3.99			4	13							17
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	376	1114	298	32	0	0	0	0	0	0	1820

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.75 N, LONG: 80.75 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 32 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	499	13	.	.	.	.	.	.	.	.	512
1.00 - 1.99	110	659	2	.	.	.	.	.	.	.	771
2.00 - 2.99	.	39	3	.	.	.	.	.	.	.	42
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	609	711	5	0	0	0	0	0	0	0	1325

STATION: 32 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	524	.	.	.	.	.	.	.	.	.	524
1.00 - 1.99	354	102	.	.	.	.	.	.	.	.	456
2.00 - 2.99	.	15	.	.	.	.	.	.	.	.	15
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	878	117	0	0	0	0	0	0	0	0	995

STATION: 32 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	274	.	.	.	.	.	.	.	.	.	274
1.00 - 1.99	493	314	.	.	.	.	.	.	.	.	807
2.00 - 2.99	.	52	.	.	.	.	.	.	.	.	52
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	767	366	0	0	0	0	0	0	0	0	1133

STATION: 32 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2627	2469	11091	6216	2536	1516	670	222	86	15	27448
1.00 - 1.99	1638	5390	4677	5332	1946	1308	618	218	120	16	21263
2.00 - 2.99	.	295	1228	843	368	250	179	102	34	5	3304
3.00 - 3.99	.	.	41	174	131	44	47	8	15	.	460
4.00 - 4.99	.	.	.	10	52	8	7	6	4	.	87
5.00 - 5.99	.	.	.	.	11	6	1	1	4	.	23
6.00 - 6.99	.	.	.	.	.	2	1	4	8	.	15
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4265	8154	17037	12575	5044	3134	1523	561	271	36	52600

STATION: 32

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	322	263	366	392	661	700	693	1046	973	388	383	380	6567
2.50 - 4.99	1534	1414	1600	1863	2436	2520	2849	2734	2002	1864	1681	1625	24122
5.00 - 7.49	917	899	973	1042	849	741	727	491	657	1074	973	937	10280
7.50 - 9.99	961	908	989	755	446	319	181	157	471	827	934	975	7923
10.00 - 12.49	394	343	342	182	56	38	7	24	122	222	243	346	2319
12.50 - 14.99	249	175	162	74	16	2	3	10	70	84	82	162	1089
15.00 - 17.49	56	44	16	10	.	.	.	2	9	5	13	35	190
17.50 - 19.99	27	20	11	2	.	.	3	.	7	.	9	4	83
20.00 - GREATER	4	6	5	.	.	.	1	.	9	.	2	.	27
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 31.75 N, LONG: 80.75 W, DEPTH: 11 M

STATION: 32

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	625	516	372	303	226	114	52	144	260	592	541	631	4376
22.50 - 67.49 (45.0)	694	583	464	352	377	437	161	425	1020	1278	905	828	7524
67.50 - 112.49 (90.0)	449	437	497	436	703	655	430	834	1246	1004	697	448	7836
112.50 - 157.49 (135.0)	366	380	610	647	783	572	492	750	538	353	516	373	6380
157.50 - 202.49 (180.0)	372	455	767	728	909	829	1040	816	413	239	379	384	7331
202.50 - 247.49 (225.0)	415	557	634	707	797	1116	1534	1006	453	281	326	527	8353
247.50 - 292.49 (270.0)	708	516	557	662	450	499	653	353	220	314	438	596	5966
292.50 - 337.49 (315.0)	835	628	563	485	219	98	102	136	170	403	518	677	4834
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 32

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.29	1.19	1.13	1.04	1.00	1.02	0.58	1.19	0.88	1.33	1.05	1.31	1.09
1977	1.08	1.09	1.24	1.29	0.86	0.59	0.64	0.80	0.72	1.16	1.54	1.27	1.02
1978	1.45	1.21	1.16	0.91	0.89	0.85	0.78	0.85	1.12	1.21	1.27	1.30	1.08
1979	1.56	1.40	1.38	1.34	1.18	1.12	0.98	0.87	1.67	1.07	1.54	1.22	1.27
1980	1.23	1.14	1.52	1.22	0.74	0.84	0.70	1.04	1.13	1.23	1.37	1.39	1.13
1981	0.90	1.82	1.23	1.14	0.91	0.80	0.76	0.90	1.10	1.11	1.05	1.00	1.05
1982	0.90	1.39	1.11	1.04	0.80	0.77	0.67	0.68	0.92	1.23	1.24	1.21	0.99
1983	1.33	1.45	1.33	1.06	1.03	0.92	0.80	0.79	0.89	1.28	1.22	1.49	1.13
1984	1.54	1.38	1.18	1.05	0.89	0.62	0.87	0.66	1.55	1.12	1.60	1.06	1.13
1985	1.10	1.20	1.21	1.04	0.87	0.64	0.81	0.81	1.52	1.46	1.55	1.01	1.10
1986	1.30	0.95	1.39	0.92	0.88	0.93	0.67	0.84	1.14	1.04	1.44	1.39	1.08
1987	1.43	1.30	1.34	1.03	1.05	0.86	0.73	0.78	0.86	1.02	1.15	0.99	1.05
1988	1.14	0.96	0.93	0.71	0.80	0.77	0.87	0.84	1.15	1.02	1.11	0.76	0.92
1989	1.13	1.10	1.11	1.02	0.82	0.86	0.84	0.99	2.00	1.24	1.13	0.92	1.09
1990	1.06	1.30	1.12	1.34	0.96	0.89	0.99	0.80	1.05	1.32	0.99	1.35	1.10
1991	1.04	1.00	1.18	1.19	1.08	0.97	0.77	0.73	1.30	1.30	1.06	1.04	1.05
1992	1.14	0.99	1.18	0.94	0.81	0.70	0.65	0.79	0.90	1.03	1.31	1.14	0.97
1993	1.57	1.09	1.42	1.05	0.94	0.81	0.65	0.87	0.82	1.14	1.41	1.02	1.07
MEAN	1.23	1.22	1.23	1.07	0.92	0.83	0.76	0.85	1.15	1.18	1.28	1.16	

STATION: 32

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	281011	321111	25 7 4	3712 9	26 915	20 814	12 520	421113	181211	3611 9	26 7 6	311110	421113
1977	281010	34 916	291015	291013	21 911	13 427	11 5 8	17 6 9	18 710	301010	281210	241610	34 916
1978	371012	391110	28 914	27 915	301015	14 6 9	13 518	171212	311610	29 7 5	30 8 4	4212 9	4212 9
1979	351016	4512 9	391115	401113	24 7 5	23 7 4	19 714	201813	681313	281011	321011	28 817	681313
1980	301010	29 631	291015	311015	18 710	17 525	13 812	331613	261712	3210 9	381910	391510	391510
1981	20 620	4312 9	32 917	21 7 9	20 716	18 7 8	14 521	461014	351610	251510	20 622	25 912	461014
1982	22 912	311011	25 816	23 717	15 810	15 614	14 520	9 6 9	22 7 7	29 8 4	24 810	27 813	311011
1983	351110	4311 9	421112	35 917	19 712	21 7 7	19 7 6	221013	3210 9	271010	26 916	3912 9	4311 9
1984	3611 9	381014	32 917	29 913	27 817	10 912	17 618	13 713	561213	241211	5613 9	271212	5613 9
1985	22 5 0	30 816	31 913	28 917	23 7 6	17 524	481113	26 814	691712	481113	381015	23 817	691712
1986	3510 9	25 623	29 8 4	20 718	21 8 9	18 6 8	16 524	21 7 7	281310	29 8 5	3811 9	311012	3811 9
1987	4712 9	31 910	291010	19 529	17 912	18 618	15 6 8	15 6 7	211213	25 7 3	231011	231011	4712 9
1988	301011	22 717	18 618	16 617	20 6 4	19 6 4	19 7 8	31 815	261612	231410	23 810	26 7 4	31 815
1989	5312 9	27 8 6	22 6 3	19 6 4	20 7 8	20 717	151012	211112	692012	26 7 5	261510	25 715	692012
1990	19 912	26 914	26 7 7	27 8 6	19 715	16 522	21 817	241512	301510	331112	27 913	281310	331112
1991	211210	24 622	261014	22 7 8	21 811	24 8 8	13 519	341212	401510	281210	18 8 8	21 7 5	401510
1992	331210	25 7 6	241012	20 6 4	14 810	12 615	12 523	221013	20 7 6	21 815	28 912	24 7 7	331210
1993	4613 9	24 8 9	391110	25 815	14 912	15 5 9	11 812	411410	201410	24 8 7	4212 9	28 7 5	4613 9
MAX	5312 9	4512 9	421112	401113	301015	24 8 8	481113	461014	692012	481113	5613 9	4212 9	

MAX Hmo(m): 6.9 MAX Tp(sec): 20. MAX Dp(deg): 119. DATE(gmt): 89090800

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 110. DATE(gmt): 79090418

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.00 N, LONG: 80.50 W, DEPTH: 13 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 33

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	358	332	287	335	330	276	378	275	213	203	193	417	3597
0.50 - 0.99	1472	1373	1436	1805	2529	2887	3260	3176	2219	1754	1362	1710	24983
1.00 - 1.49	1350	1236	1428	1419	1205	927	681	723	993	1483	1530	1176	14151
1.50 - 1.99	766	641	762	491	291	167	126	163	365	578	757	663	5770
2.00 - 2.49	301	260	324	175	85	60	12	80	261	301	296	329	2484
2.50 - 2.99	124	125	164	55	22	3	1	15	129	92	127	112	969
3.00 - 3.49	61	65	42	28	2	.	2	19	73	44	28	42	406
3.50 - 3.99	20	28	13	10	.	.	.	6	18	5	10	9	119
4.00 - 4.49	7	7	6	2	.	.	1	6	14	4	12	6	65
4.50 - 4.99	5	4	2	.	.	.	2	1	9	.	5	.	28
5.00 - 5.49	.	1	.	.	.	.	.	.	9	.	.	.	10
5.50 - 5.99	.	.	.	.	.	.	1	.	4	.	.	.	5
6.00 - 6.49	.	.	.	.	.	.	.	.	5	.	.	.	5
6.50 - 6.99	.	.	.	.	.	.	.	.	8	.	.	.	8
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 33

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	172	150	133	154	116	79	96	43	39	62	98	171	1313
4.0 - 4.9	585	567	387	528	328	241	304	222	194	328	325	587	4596
5.0 - 5.9	469	389	429	423	447	467	367	387	449	470	324	537	5158
6.0 - 6.9	337	400	483	384	540	720	380	613	732	671	468	450	6178
7.0 - 7.9	277	348	460	552	832	1096	1296	1211	934	696	500	266	8468
8.0 - 8.9	358	457	544	634	1019	1075	1352	1071	634	716	575	502	8937
9.0 - 9.9	623	575	709	658	657	426	497	414	404	669	842	692	7166
10.0 - 10.9	678	515	586	446	250	133	100	172	193	378	591	458	4500
11.0 - 11.9	410	315	272	172	87	45	43	84	127	163	265	323	2306
12.0 - 12.9	221	93	138	93	78	24	17	57	91	98	72	150	1132
13.0 - 13.9	115	73	89	100	48	1	7	53	127	86	65	126	890
14.0 - 14.9	82	47	80	66	30	3	3	44	91	50	60	66	622
15.0 - 15.9	29	39	43	51	16	3	2	25	105	28	47	58	446
16.0 - 16.9	38	44	37	19	8	1	.	29	71	15	23	49	334
17.0 - 17.9	22	18	23	25	4	.	.	12	43	20	22	16	205
18.0 - 18.9	22	13	8	5	1	3	.	10	24	7	13	8	114
19.0 - 19.9	12	15	6	3	3	2	.	7	24	5	8	3	88
20.0 - LONGER	14	14	37	7	.	1	.	10	38	2	22	2	147
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 33

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	115	122	51	19	34	4	.	2	10	61	55	108	581
11.25 - 33.74 (22.5)	84	65	56	46	25	10	4	7	29	162	91	109	688
33.75 - 56.24 (45.0)	115	101	70	39	56	54	11	20	119	302	145	222	1254
56.25 - 78.74 (67.5)	124	155	101	64	100	120	40	101	271	256	171	214	1717
78.75 - 101.24 (90.0)	577	465	515	467	517	435	229	440	1109	1210	830	724	7518
101.25 - 123.74 (112.5)	2028	1738	1894	1734	2257	2285	2752	2880	2198	1941	2164	1711	25582
123.75 - 146.24 (135.0)	367	447	655	812	755	787	764	685	418	275	363	374	6702
146.25 - 168.74 (157.5)	140	156	310	256	238	88	76	72	51	66	91	110	1654
168.75 - 191.24 (180.0)	106	112	202	161	128	129	139	74	37	34	69	137	1328
191.25 - 213.74 (202.5)	60	88	109	120	114	136	137	66	24	30	45	98	1027
213.75 - 236.24 (225.0)	73	121	113	118	71	135	159	68	17	22	42	100	1039
236.25 - 258.74 (247.5)	49	74	78	113	40	80	97	37	4	7	20	87	686
258.75 - 281.24 (270.0)	131	84	71	105	45	40	41	2	7	18	40	84	668
281.25 - 303.74 (292.5)	213	137	79	118	38	10	15	.	6	24	72	138	850
303.75 - 326.24 (315.0)	169	109	108	112	25	4	.	4	10	28	74	117	760
326.25 - 348.74 (337.5)	113	98	52	36	21	3	.	6	10	28	48	131	546
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.00 N, LONG: 80.50 W, DEPTH: 13 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 33 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	524	1	.	.	.	.	.	.	.	.	525
1.00 - 1.99	452	122	1	.	.	.	.	.	.	.	575
2.00 - 2.99	.	22	5	.	.	.	.	.	.	.	27
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	976	145	6	0	0	0	0	0	0	0	1127

STATION: 33 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	449	77	.	.	.	.	.	.	.	.	526
1.00 - 1.99	155	1210	4	.	.	.	.	.	.	.	1369
2.00 - 2.99	.	490	118	1	.	.	.	.	.	.	609
3.00 - 3.99	.	.	37	1	.	.	.	.	.	.	38
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	604	1777	159	2	0	0	0	0	0	0	2542

STATION: 33 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	430	1409	2505	2250	925	632	409	90	11	4	8665
1.00 - 1.99	63	1815	1794	2095	901	363	114	65	16	.	7226
2.00 - 2.99	.	89	485	282	157	140	58	18	.	.	1229
3.00 - 3.99	.	.	46	132	52	16	14	7	.	.	267
4.00 - 4.99	.	.	.	12	31	2	2	3	.	.	50
5.00 - 5.99	.	.	.	.	1	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	1	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	493	3313	4830	4771	2067	1153	598	183	27	4	17439

STATION: 33 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	316	1892	9044	3928	724	113	33	38	75	20	16183
1.00 - 1.99	47	934	2426	2452	507	183	66	58	58	17	6748
2.00 - 2.99	.	34	359	363	69	46	62	26	15	.	974
3.00 - 3.99	.	.	11	77	42	11	20	8	4	.	173
4.00 - 4.99	.	.	.	14	19	2	1	1	4	.	41
5.00 - 5.99	.	.	.	.	5	2	.	2	5	.	14
6.00 - 6.99	.	.	.	.	1	2	.	3	6	.	12
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	363	2860	11840	6834	1367	359	182	136	167	37	24145

STATION: 33 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	416	307	10	.	.	.	.	.	.	.	733
1.00 - 1.99	97	1084	243	.	.	.	.	.	.	.	1424
2.00 - 2.99	.	55	253	34	.	.	.	.	.	.	342
3.00 - 3.99	.	.	8	24	3	.	.	.	.	.	35
4.00 - 4.99	.	.	.	1	1	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	513	1446	514	59	4	0	0	0	0	0	2536

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.00 N, LONG: 80.50 W, DEPTH: 13 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 33 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	685	91	.	.	.	.	.	.	.	.	776
1.00 - 1.99	116	934	11	.	.	.	.	.	.	.	1061
2.00 - 2.99	.	140	34	.	.	.	.	.	.	.	174
3.00 - 3.99	.	.	10	.	.	.	.	.	.	.	10
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	801	1165	55	0	0	0	0	0	0	0	2021

STATION: 33 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	730	3	.	.	.	.	.	.	.	.	733
1.00 - 1.99	450	139	.	.	.	.	.	.	.	.	589
2.00 - 2.99	.	16	1	.	.	.	.	.	.	.	17
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1180	158	1	0	0	0	0	0	0	0	1339

STATION: 33 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	439	.	.	.	.	.	.	.	.	.	439
1.00 - 1.99	540	389	.	.	.	.	.	.	.	.	929
2.00 - 2.99	.	81	.	.	.	.	.	.	.	.	81
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	979	472	0	0	0	0	0	0	0	0	1451

STATION: 33 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3989	3780	11559	6178	1649	745	442	128	86	24	28580
1.00 - 1.99	1920	6627	4479	4547	1408	546	180	123	74	17	19921
2.00 - 2.99	.	927	1255	680	226	186	120	44	15	.	3453
3.00 - 3.99	.	2	112	234	97	27	34	15	4	.	525
4.00 - 4.99	.	.	.	27	51	4	3	4	4	.	93
5.00 - 5.99	.	.	.	.	6	2	.	2	5	.	15
6.00 - 6.99	.	.	.	.	1	2	1	3	6	.	13
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5909	11336	17405	11666	3438	1512	780	319	194	41	52600

STATION: 33

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	357	299	375	423	672	662	726	1062	979	402	394	409	6760
2.50 - 4.99	1439	1349	1536	1749	2344	2433	2679	2632	1940	1811	1623	1519	23054
5.00 - 7.49	912	880	976	1042	868	803	818	543	658	1057	965	950	10472
7.50 - 9.99	972	907	983	781	487	361	225	181	515	823	926	984	8145
10.00 - 12.49	395	356	336	219	73	58	9	34	125	262	281	366	2514
12.50 - 14.99	290	196	215	90	20	3	2	10	74	100	104	188	1292
15.00 - 17.49	59	50	25	12	.	.	1	.	13	8	11	43	222
17.50 - 19.99	33	25	12	3	.	.	1	2	3	1	15	3	98
20.00 - GREATER	7	10	6	1	.	.	3	.	13	.	1	2	43
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.00 N, LONG: 80.50 W, DEPTH: 13 M

STATION: 33

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	611	539	369	305	220	113	54	156	267	596	526	619	4375
22.50 - 67.49	(45.0)	716	577	481	353	380	441	167	431	1045	1293	906	863	7653
67.50 - 112.49	(90.0)	430	432	498	412	699	655	438	849	1205	970	690	416	7694
112.50 - 157.49	(135.0)	356	360	584	637	724	567	462	687	510	340	491	358	6076
157.50 - 202.49	(180.0)	366	452	764	712	905	819	977	818	410	248	379	375	7225
202.50 - 247.49	(225.0)	418	577	663	747	860	1139	1609	1042	478	301	354	537	8725
247.50 - 292.49	(270.0)	738	526	546	660	450	481	646	356	237	328	442	617	6027
292.50 - 337.49	(315.0)	829	609	559	494	226	105	111	125	168	388	532	679	4825
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 33

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.19	1.11	0.96	1.03	1.04	0.59	1.17	0.83	1.25	1.03	1.30	1.07
1977	1.06	1.10	1.23	1.26	0.84	0.59	0.64	0.79	0.70	1.14	1.46	1.21	1.00
1978	1.46	1.10	1.17	0.91	0.91	0.84	0.78	0.84	1.09	1.10	1.23	1.29	1.06
1979	1.50	1.33	1.33	1.29	1.17	1.14	0.99	0.87	1.70	1.07	1.51	1.18	1.25
1980	1.17	1.12	1.50	1.19	0.72	0.87	0.70	1.03	1.10	1.19	1.24	1.28	1.09
1981	0.90	1.69	1.14	1.14	0.89	0.81	0.76	0.91	0.97	1.10	1.02	1.01	1.03
1982	0.88	1.39	1.11	1.05	0.76	0.78	0.68	0.69	0.91	1.10	1.18	1.21	0.98
1983	1.32	1.37	1.38	1.03	1.04	0.93	0.80	0.79	0.87	1.25	1.16	1.48	1.12
1984	1.45	1.39	1.16	1.07	0.91	0.62	0.89	0.65	1.58	1.07	1.55	0.98	1.11
1985	1.10	1.19	1.22	1.05	0.88	0.65	0.83	0.81	1.48	1.46	1.41	1.01	1.09
1986	1.25	0.90	1.35	0.88	0.80	0.95	0.69	0.84	1.07	1.00	1.41	1.36	1.04
1987	1.27	1.32	1.22	0.96	1.00	0.88	0.74	0.79	0.87	0.99	1.13	0.97	1.01
1988	1.04	0.94	0.93	0.70	0.79	0.77	0.89	0.86	1.15	0.99	1.10	0.74	0.91
1989	1.11	1.10	1.11	1.01	0.81	0.88	0.86	0.98	1.89	1.22	1.09	0.90	1.08
1990	1.05	1.33	1.13	1.26	0.97	0.90	1.03	0.79	1.02	1.29	0.98	1.27	1.08
1991	1.03	0.99	1.23	1.17	1.07	0.97	0.77	0.72	1.32	1.26	1.02	1.04	1.05
1992	1.12	1.00	1.18	0.93	0.79	0.71	0.65	0.80	0.91	0.99	1.31	1.09	0.96
1993	1.54	1.11	1.40	1.02	0.91	0.80	0.64	0.87	0.81	1.14	1.39	0.99	1.05
MEAN	1.20	1.20	1.22	1.05	0.91	0.84	0.77	0.84	1.13	1.14	1.23	1.13	

STATION: 33

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	27 914	331112	27 7 5	371010	28 915	21 815	13 521	421012	17 6 9	32 7 4	26 7 8	311110	421012
1977	321011	36 916	301015	34 918	22 810	14 426	12 5 8	17 6 9	19 710	311010	271310	26 721	36 916
1978	401113	381011	29 914	31 916	331016	15 6 9	13 618	161212	321710	27 7 7	30 7 3	411110	411110
1979	371016	501210	421116	411213	25 7 7	25 7 6	19 711	201813	681313	291011	321011	30 721	681313
1980	34 910	30 631	32 724	341016	19 711	21 623	14 519	341613	241712	3510 9	37 910	3310 9	37 910
1981	22 719	3910 9	351017	23 817	22 6 3	21 621	16 621	451114	351610	241410	23 624	27 912	451114
1982	23 912	321011	27 720	24 6 7	13 810	15 715	15 621	10 521	26 8 9	31 7 6	27 810	29 813	321011
1983	381010	471110	461113	381016	20 710	22 6 7	21 6 5	211013	331010	27 9 9	28 916	381210	471110
1984	3510 9	411014	36 918	32 913	28 818	10 912	20 621	14 713	541214	251210	491210	281212	541214
1985	22 5 0	33 816	32 813	31 918	25 7 7	20 623	561114	24 816	651712	441113	421016	25 720	651712
1986	34 9 9	29 723	28 7 3	21 719	23 8 9	20 6 8	18 623	24 7 8	281310	341010	3810 9	33 912	3810 9
1987	471210	33 912	30 910	19 529	17 912	20 620	16 6 9	17 6 8	201213	25 7 4	231012	221012	471210
1988	34 911	24 718	21 622	19 618	21 6 4	20 6 4	21 6 6	32 816	251612	241410	27 811	26 7 5	34 911
1989	4811 9	29 7 5	25 7 8	20 6 5	22 6 7	22 717	16 520	201112	692012	28 7 7	251510	27 715	692012
1990	20 531	28 7 8	29 8 8	30 7 6	19 718	18 621	23 818	221512	301510	321112	30 912	281310	321112
1991	211312	28 721	281015	25 7 9	20 812	25 8 9	13 520	341212	351510	331310	18 6 8	22 6 4	351510
1992	321211	27 7 5	241012	22 6 4	16 5 4	12 5 8	14 523	211013	21 6 5	22 6 5	27 912	26 7 8	321211
1993	4311 9	29 8 9	421016	25 815	15 912	15 510	11 812	431510	14 912	27 9 9	401210	28 7 7	431510
MAX	4811 9	501210	461113	411213	331016	25 8 9	561114	451114	692012	441113	491210	411110	

MAX Hmo(m): 6.9 MAX Tp(sec): 20. MAX Dp(deg): 119. DATE(gmt): 89090718

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 145. DATE(gmt): 79090421

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.25 N, LONG: 80.25 W, DEPTH: 13 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 34

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	321	285	222	257	251	194	294	211	167	162	159	349	2872
0.50 - 0.99	1196	1130	1264	1565	2296	2693	3114	3043	2065	1458	1121	1469	22414
1.00 - 1.49	1344	1258	1454	1508	1416	1102	863	891	1100	1565	1516	1221	15238
1.50 - 1.99	886	755	791	627	325	235	147	177	424	703	912	739	6721
2.00 - 2.49	390	299	387	212	131	70	37	78	258	325	335	404	2926
2.50 - 2.99	164	163	187	79	28	25	2	31	135	142	165	153	1274
3.00 - 3.49	80	99	107	34	14	1	1	14	78	66	59	80	633
3.50 - 3.99	44	45	30	22	2	.	2	12	38	34	24	30	283
4.00 - 4.49	20	23	14	14	1	.	.	5	15	6	9	10	117
4.50 - 4.99	10	9	5	2	.	.	1	1	12	2	8	9	59
5.00 - 5.49	6	4	3	.	.	.	1	1	9	1	7	.	32
5.50 - 5.99	3	2	.	.	.	.	1	.	7	.	5	.	18
6.00 - 6.49	.	.	.	.	.	.	1	.	9	.	.	.	10
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	3	.	.	.	3
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 34

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	72	71	65	53	60	28	40	32	22	22	58	87	610
4.0 - 4.9	512	521	448	563	356	279	385	207	163	268	317	546	4565
5.0 - 5.9	762	647	551	604	518	506	448	466	440	564	478	763	6747
6.0 - 6.9	434	477	549	495	665	862	495	744	854	743	518	511	7347
7.0 - 7.9	370	442	549	619	914	1187	1389	1286	1050	820	664	419	9709
8.0 - 8.9	422	479	571	606	940	924	1154	957	574	715	548	488	8378
9.0 - 9.9	546	497	649	537	580	357	406	324	354	586	742	626	6204
10.0 - 10.9	548	406	489	379	198	104	86	151	169	338	493	388	3749
11.0 - 11.9	333	257	224	157	81	43	36	70	113	131	237	275	1957
12.0 - 12.9	200	89	118	90	69	21	14	58	93	92	55	123	1022
13.0 - 13.9	96	69	72	75	33	.	7	51	120	77	56	94	750
14.0 - 14.9	72	30	60	51	29	2	3	36	79	36	64	54	516
15.0 - 15.9	22	26	32	41	11	1	1	20	104	25	30	47	360
16.0 - 16.9	26	22	30	15	5	.	.	28	64	16	19	29	254
17.0 - 17.9	13	9	12	20	5	.	.	9	41	18	12	10	149
18.0 - 18.9	16	11	8	5	.	3	.	11	22	7	9	3	95
19.0 - 19.9	9	10	8	4	.	3	.	6	24	4	5	1	74
20.0 - LONGER	11	9	29	6	.	.	.	8	34	2	15	.	114
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 34

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	144	171	67	41	50	7	.	3	16	79	89	143	810
11.25 - 33.74 (22.5)	132	96	91	65	33	10	2	7	34	208	133	168	979
33.75 - 56.24 (45.0)	182	153	132	82	94	95	20	32	184	387	241	309	1911
56.25 - 78.74 (67.5)	185	216	142	151	144	154	59	141	398	324	235	221	2370
78.75 - 101.24 (90.0)	798	680	781	855	725	517	322	669	1323	1673	1217	894	10454
101.25 - 123.74 (112.5)	1452	1234	1379	1085	1893	2063	2552	2568	1780	1235	1458	1214	19913
123.75 - 146.24 (135.0)	319	365	528	721	683	747	687	637	400	245	330	336	5998
146.25 - 168.74 (157.5)	129	138	304	236	254	84	83	91	48	62	91	85	1605
168.75 - 191.24 (180.0)	125	128	246	190	160	141	151	90	39	47	83	144	1544
191.25 - 213.74 (202.5)	80	95	131	163	127	156	186	82	34	21	57	130	1262
213.75 - 236.24 (225.0)	83	149	128	125	103	166	191	83	15	37	46	114	1240
236.25 - 258.74 (247.5)	89	111	131	154	46	118	135	48	10	20	29	122	1013
258.75 - 281.24 (270.0)	209	157	118	149	62	36	64	2	12	37	68	151	1065
281.25 - 303.74 (292.5)	227	139	89	139	40	17	12	.	5	28	91	148	935
303.75 - 326.24 (315.0)	201	135	130	121	24	6	.	5	10	34	86	133	885
326.25 - 348.74 (337.5)	109	105	67	43	26	3	.	6	12	27	66	152	616
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.25 N, LONG: 80.25 W, DEPTH: 13 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 34 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	401	1	.	.	.	.	.	.	.	.	402
1.00 - 1.99	343	662	.	.	.	.	.	.	.	.	1005
2.00 - 2.99	.	120	12	.	.	.	.	.	.	.	132
3.00 - 3.99	.	2	2	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	1	.	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	744	785	15	0	0	0	0	0	0	0	1544

STATION: 34 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	348	248	6	18	24	4	.	.	.	.	648
1.00 - 1.99	88	1659	25	.	.	.	.	.	.	.	1772
2.00 - 2.99	.	238	644	3	.	.	.	.	.	.	885
3.00 - 3.99	.	.	248	10	.	.	.	.	.	.	258
4.00 - 4.99	.	.	25	3	1	.	.	.	.	.	29
5.00 - 5.99	.	.	.	7	.	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	436	2145	948	41	25	4	0	0	0	0	3599

STATION: 34 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	346	1515	3005	2390	904	493	282	69	58	23	9085
1.00 - 1.99	57	1920	2388	2361	902	335	97	77	28	3	8168
2.00 - 2.99	.	49	572	273	171	130	61	15	11	.	1282
3.00 - 3.99	.	.	86	158	24	19	14	8	.	.	309
4.00 - 4.99	.	.	2	42	21	1	2	1	.	.	69
5.00 - 5.99	.	.	.	3	18	1	1	.	.	.	23
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	403	3484	6053	5227	2040	979	457	170	97	26	18936

STATION: 34 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	279	1950	7312	2495	447	69	18	10	9	1	12590
1.00 - 1.99	45	1001	2362	1737	363	167	70	28	23	7	5803
2.00 - 2.99	.	56	362	231	54	32	60	24	7	.	826
3.00 - 3.99	.	.	46	85	20	10	8	6	4	.	179
4.00 - 4.99	.	.	1	23	15	2	1	1	5	.	48
5.00 - 5.99	.	.	.	3	4	1	.	2	5	.	15
6.00 - 6.99	.	.	.	.	2	.	.	3	4	.	9
7.00 - 7.99	.	.	.	.	1	2	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	324	3007	10083	4574	906	283	157	74	57	8	19473

STATION: 34 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	373	402	21	.	.	.	.	.	.	.	796
1.00 - 1.99	89	1219	252	2	.	.	.	.	.	.	1562
2.00 - 2.99	.	73	361	28	.	.	.	.	.	.	462
3.00 - 3.99	.	.	65	55	1	.	.	.	.	.	121
4.00 - 4.99	.	.	.	21	5	.	.	.	.	.	26
5.00 - 5.99	.	.	.	3	1	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	462	1694	699	109	8	0	0	0	0	0	2972

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.25 N, LONG: 80.25 W, DEPTH: 13 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 34 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	640	162	.	.	.	.	.	.	.	.	802
1.00 - 1.99	89	1198	37	.	.	.	.	.	.	.	1324
2.00 - 2.99	.	77	209	.	.	.	.	.	.	.	286
3.00 - 3.99	.	.	26	.	.	.	.	.	.	.	26
4.00 - 4.99	.	.	2	2	.	.	.	.	.	.	4
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	729	1437	274	2	0	0	0	0	0	0	2442

STATION: 34 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	497	5	.	.	.	.	.	.	.	.	502
1.00 - 1.99	513	720	.	.	.	.	.	.	.	.	1233
2.00 - 2.99	.	178	3	.	.	.	.	.	.	.	181
3.00 - 3.99	.	4	12	.	.	.	.	.	.	.	16
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1010	907	15	0	0	0	0	0	0	0	1932

STATION: 34 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	461	.	.	.	.	.	.	.	.	.	461
1.00 - 1.99	606	486	.	.	.	.	.	.	.	.	1092
2.00 - 2.99	.	146	.	.	.	.	.	.	.	.	146
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1067	635	0	0	0	0	0	0	0	0	1702

STATION: 34 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3345	4283	10344	4903	1375	566	300	79	67	24	25286
1.00 - 1.99	1830	8865	5064	4100	1265	502	167	105	51	10	21959
2.00 - 2.99	.	937	2163	535	225	162	121	39	18	.	4200
3.00 - 3.99	.	9	485	308	45	29	22	14	4	.	916
4.00 - 4.99	.	.	30	91	42	3	3	2	5	.	176
5.00 - 5.99	.	.	1	16	23	2	1	2	5	.	50
6.00 - 6.99	.	.	.	.	3	.	.	3	4	.	10
7.00 - 7.99	.	.	.	.	1	2	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5175	14094	18087	9953	2979	1266	614	244	154	34	52600

STATION: 34

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	356	310	375	421	659	642	693	1039	950	401	393	416	6655
2.50 - 4.99	1410	1309	1493	1686	2302	2386	2626	2589	1929	1752	1577	1467	22526
5.00 - 7.49	887	869	961	1046	895	839	876	589	663	1045	954	934	10558
7.50 - 9.99	978	907	1000	800	499	385	249	200	527	860	927	978	8310
10.00 - 12.49	418	355	337	250	86	64	13	33	142	278	306	405	2687
12.50 - 14.99	309	233	252	94	22	4	1	10	82	114	132	214	1467
15.00 - 17.49	64	48	27	18	1	.	2	2	11	10	13	42	238
17.50 - 19.99	35	30	13	4	.	.	.	2	3	4	14	6	111
20.00 - GREATER	7	11	6	1	.	.	4	.	13	.	4	2	48
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.25 N, LONG: 80.25 W, DEPTH: 13 M

STATION: 34

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	608	562	374	314	224	108	59	154	272	597	543	626	4441
22.50 - 67.49 (45.0)	732	570	472	356	388	456	175	453	1086	1307	909	873	7777
67.50 - 112.49 (90.0)	419	431	495	416	690	644	423	837	1169	953	677	411	7565
112.50 - 157.49 (135.0)	351	357	584	626	709	561	460	675	491	341	486	345	5986
157.50 - 202.49 (180.0)	368	451	778	700	931	834	988	823	420	249	381	374	7297
202.50 - 247.49 (225.0)	409	576	659	761	869	1162	1634	1048	482	314	355	536	8805
247.50 - 292.49 (270.0)	754	523	538	658	437	452	621	348	236	314	446	623	5950
292.50 - 337.49 (315.0)	823	602	564	489	216	103	104	126	164	389	523	676	4779
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 34

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.42	1.29	1.17	1.06	1.11	1.10	0.66	1.21	0.87	1.37	1.15	1.47	1.16
1977	1.23	1.22	1.31	1.33	0.88	0.68	0.67	0.83	0.74	1.24	1.53	1.33	1.08
1978	1.59	1.26	1.26	0.98	0.97	0.88	0.83	0.87	1.15	1.19	1.35	1.45	1.15
1979	1.63	1.45	1.42	1.37	1.26	1.21	1.05	0.91	1.79	1.16	1.66	1.34	1.35
1980	1.31	1.32	1.65	1.35	0.80	0.94	0.75	1.06	1.13	1.29	1.37	1.44	1.20
1981	1.08	1.85	1.28	1.22	0.97	0.88	0.80	0.97	1.00	1.23	1.14	1.13	1.12
1982	0.98	1.48	1.21	1.13	0.81	0.85	0.71	0.73	0.97	1.19	1.29	1.31	1.05
1983	1.40	1.52	1.52	1.14	1.09	0.99	0.86	0.82	0.97	1.36	1.25	1.66	1.21
1984	1.63	1.52	1.30	1.23	0.99	0.66	0.94	0.68	1.71	1.13	1.73	1.03	1.21
1985	1.30	1.34	1.30	1.13	0.94	0.71	0.88	0.84	1.57	1.57	1.47	1.11	1.18
1986	1.39	0.99	1.48	0.96	0.84	1.01	0.76	0.91	1.13	1.12	1.51	1.49	1.13
1987	1.42	1.45	1.33	1.05	1.06	0.92	0.77	0.84	0.91	1.12	1.18	1.05	1.09
1988	1.15	1.03	1.01	0.78	0.86	0.82	0.93	0.90	1.20	1.07	1.18	0.82	0.98
1989	1.21	1.19	1.25	1.09	0.87	0.93	0.92	1.02	1.93	1.38	1.16	1.05	1.16
1990	1.11	1.46	1.21	1.36	1.02	0.95	1.09	0.80	1.06	1.36	1.06	1.36	1.15
1991	1.13	1.10	1.34	1.23	1.11	1.04	0.79	0.76	1.41	1.35	1.12	1.13	1.13
1992	1.20	1.12	1.24	1.01	0.87	0.75	0.70	0.84	0.99	1.08	1.42	1.22	1.04
1993	1.68	1.24	1.55	1.12	0.95	0.85	0.66	0.90	0.87	1.24	1.56	1.11	1.14
MEAN	1.33	1.32	1.32	1.14	0.97	0.90	0.82	0.88	1.19	1.25	1.34	1.25	

STATION: 34

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 914	35 820	31 8 7	4511 8	32 916	22 816	15 621	47 910	19 7 9	39 8 4	31 7 6	36 8 8	47 910
1977	4010 9	40 917	33 812	411018	24 810	17 623	13 5 7	17 6 9	21 710	36 9 9	30 7 3	34 820	411018
1978	47 921	441010	31 914	37 918	401016	15 6 8	15 619	151112	311610	32 7 5	37 8 4	4711 9	4711 9
1979	451016	5812 9	511117	441213	30 7 5	30 7 4	21 710	21 721	741314	33 910	361010	35 821	741314
1980	38 9 9	32 822	37 823	401016	21 710	26 722	16 522	321713	231712	4110 9	40 9 9	38 8 5	4110 9
1981	27 721	4610 7	411117	26 817	26 7 3	26 720	19 622	501014	341610	25 7 5	27 723	30 913	501014
1982	24 912	361010	36 823	28 7 6	14 810	16 623	17 621	11 522	31 8 8	37 8 4	30 810	33 813	37 8 4
1983	421010	5410 9	531113	471017	21 710	24 7 7	24 7 6	22 7 9	39 8 7	31 9 8	33 916	4512 9	5410 9
1984	43 8 4	481014	41 920	35 913	33 819	14 536	22 720	14 713	551114	251210	5812 8	30 7 7	5812 8
1985	29 7 1	40 916	37 813	361018	29 7 5	24 723	621114	26 7 7	641712	5111 9	511018	29 721	641712
1986	41 8 5	36 822	35 8 4	24 719	26 8 8	22 7 8	20 723	28 7 7	3013 9	39 9 8	4510 8	37 911	4510 8
1987	5612 8	38 812	34 9 9	25 628	18 6 8	23 718	18 7 8	18 6 7	191213	30 7 3	28 7 5	25 718	5612 8
1988	38 911	26 719	24 624	24 717	23 7 5	21 6 3	24 7 7	35 817	251612	26 7 6	31 810	31 8 5	38 911
1989	5612 9	35 8 5	29 7 3	22 7 5	24 7 7	23 721	17 522	201112	632012	33 8 6	28 722	30 814	632012
1990	23 623	33 818	34 8 7	33 7 7	22 719	20 720	27 819	211512	301510	321112	35 912	281310	35 912
1991	22 6 3	34 820	34 917	28 7 8	21 811	28 8 8	14 620	361212	341510	3614 9	25 6 3	27 7 4	3614 9
1992	341210	32 8 7	251012	25 7 5	17 6 6	13 616	15 623	211013	25 7 5	25 7 5	30 7 6	31 7 6	341210
1993	5111 8	34 8 9	47 921	28 816	17 620	16 611	11 812	4315 9	15 911	31 7 7	4811 8	33 816	5111 8
MAX	5612 9	5812 9	531113	471017	401016	30 7 4	621114	501014	741314	5111 9	5812 8	4711 9	

MAX Hmo(m): 7.4 MAX Tp(sec): 13. MAX Dp(deg): 137. DATE(gmt): 79090421

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 305. DATE(gmt): 89092203

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.50 N, LONG: 80.00 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 35

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	393	351	324	351	342	297	388	309	288	284	213	456	3996
0.50 - 0.99	1508	1383	1423	1837	2563	2819	3229	3203	2266	1964	1440	1760	25395
1.00 - 1.49	1364	1281	1482	1386	1179	1007	716	668	951	1400	1634	1228	14296
1.50 - 1.99	784	612	727	524	303	168	117	176	421	555	678	683	5748
2.00 - 2.49	259	268	317	139	54	29	7	52	177	181	231	234	1948
2.50 - 2.99	90	112	138	49	20	.	2	20	107	52	100	68	758
3.00 - 3.49	48	45	38	23	3	.	.	14	46	21	18	31	287
3.50 - 3.99	15	15	10	11	.	.	1	14	15	6	6	4	97
4.00 - 4.49	3	4	4	.	.	.	2	6	14	1	.	.	34
4.50 - 4.99	.	1	1	.	.	.	2	2	9	.	.	.	15
5.00 - 5.49	.	.	.	.	.	.	.	.	4	.	.	.	4
5.50 - 5.99	.	.	.	.	.	.	.	.	22	.	.	.	22
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 35

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	232	178	182	197	143	106	120	63	62	103	130	243	1759
4.0 - 4.9	625	612	450	546	378	290	394	308	286	512	409	734	5544
5.0 - 5.9	461	330	429	388	381	464	400	407	398	425	327	496	4906
6.0 - 6.9	220	321	376	359	477	592	301	492	509	347	286	253	4533
7.0 - 7.9	254	318	461	536	834	1062	1135	1135	928	655	462	267	8047
8.0 - 8.9	406	537	567	676	1096	1119	1405	1131	720	866	643	585	9751
9.0 - 9.9	652	651	783	719	670	451	509	450	459	744	919	734	7741
10.0 - 10.9	711	568	612	484	258	150	117	181	246	401	613	476	4817
11.0 - 11.9	467	318	275	192	101	42	45	80	129	167	301	375	2492
12.0 - 12.9	244	102	140	77	59	28	24	60	103	99	79	143	1158
13.0 - 13.9	97	63	76	51	35	9	9	46	114	61	65	88	714
14.0 - 14.9	67	28	35	34	15	.	4	34	83	32	58	34	424
15.0 - 15.9	10	32	26	17	9	2	1	21	86	16	14	17	251
16.0 - 16.9	7	5	14	13	3	.	.	23	66	12	7	14	164
17.0 - 17.9	4	3	10	15	4	.	.	6	45	17	3	4	111
18.0 - 18.9	.	1	4	5	1	2	.	8	22	4	4	1	52
19.0 - 19.9	5	.	4	4	.	3	.	10	28	3	.	.	57
20.0 - LONGER	2	5	20	7	.	.	.	9	36	.	.	.	79
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 35

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	130	134	54	37	40	6	2	1	14	76	62	116	672
11.25 - 33.74 (22.5)	99	65	70	44	29	12	4	13	31	174	90	142	773
33.75 - 56.24 (45.0)	109	113	92	70	88	53	13	27	136	251	128	218	1298
56.25 - 78.74 (67.5)	130	171	109	71	90	123	48	105	252	219	154	158	1630
78.75 - 101.24 (90.0)	608	434	526	485	447	361	160	378	922	1195	813	694	7023
101.25 - 123.74 (112.5)	1283	1214	1274	1150	1608	1527	1728	2154	1833	1647	1719	1251	18388
123.75 - 146.24 (135.0)	929	809	909	1118	1245	1459	1641	1294	903	578	694	705	12284
146.25 - 168.74 (157.5)	205	285	541	375	355	132	92	132	88	100	188	178	2671
168.75 - 191.24 (180.0)	176	198	303	245	204	225	229	121	59	42	104	219	2125
191.25 - 213.74 (202.5)	47	75	94	149	106	150	186	93	27	29	46	93	1095
213.75 - 236.24 (225.0)	52	96	98	99	80	132	176	86	12	30	38	84	983
236.25 - 258.74 (247.5)	54	70	76	97	36	70	118	46	7	10	22	102	708
258.75 - 281.24 (270.0)	131	80	70	119	46	42	48	4	9	22	54	98	723
281.25 - 303.74 (292.5)	208	125	74	115	39	12	19	.	2	26	87	145	852
303.75 - 326.24 (315.0)	185	110	114	99	24	12	.	3	13	29	73	116	778
326.25 - 348.74 (337.5)	118	93	60	47	27	4	.	7	12	36	48	145	597
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.50 N LONG: 80.00 W DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 35 (337.50 - 22.49) 0.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	681										681
1.00 - 1.99	487	129	2								618
2.00 - 2.99	.	12	1								13
3.00 - 3.99	.	.	.								0
4.00 - 4.99	.	.	.								0
5.00 - 5.99	.	.	.								0
6.00 - 6.99	.	.	.								0
7.00 - 7.99	.	.	.								0
8.00 - 8.99	.	.	.								0
9.00 - GREATER	.	.	.								0
TOTAL	1168	141	3	0	0	0	0	0	0	0	1312

STATION: 35 (22.50 - 67.49) 45.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	622	39	8	21	62	54	15	1	.	.	822
1.00 - 1.99	571	830	125	8	.	.	.	.	.	.	1534
2.00 - 2.99	.	45	22	40	1	.	.	.	.	.	108
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1193	914	155	69	63	54	15	1	0	0	2464

STATION: 35 (67.50 - 112.49) 90.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	530	889	1791	1760	798	228	91	40	33	5	6165
1.00 - 1.99	113	1296	1351	1443	702	291	63	32	12	.	5303
2.00 - 2.99	.	46	263	291	122	83	32	8	.	.	845
3.00 - 3.99	.	.	4	53	56	13	3	2	.	.	131
4.00 - 4.99	.	.	.	1	6	.	.	.	.	.	7
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	643	2231	3409	3548	1684	615	189	82	45	5	12451

STATION: 35 (112.50 - 157.49) 135.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	384	1717	9855	5034	899	147	33	9	14	13	18105
1.00 - 1.99	46	865	2800	3034	759	226	68	23	24	6	7851
2.00 - 2.99	.	13	294	507	140	71	78	28	10	.	1141
3.00 - 3.99	.	.	2	72	55	15	29	11	4	.	188
4.00 - 4.99	.	.	.	6	18	5	2	4	2	.	37
5.00 - 5.99	.	.	.	.	2	5	1	5	13	.	26
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	430	2595	12951	8653	1873	469	211	80	67	19	27348

STATION: 35 (157.50 - 202.49) 180.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	521	664	178	10	.	.	.	.	.	.	1373
1.00 - 1.99	112	1294	721	78	.	.	.	.	.	.	2205
2.00 - 2.99	.	22	299	157	4	.	.	.	.	.	482
3.00 - 3.99	.	.	1	42	21	.	.	.	.	.	64
4.00 - 4.99	.	.	.	.	5	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	633	1980	1199	287	30	0	0	0	0	0	4129

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.50 N, LONG: 80.00 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 35 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	816	59	.	.	.	.	.	.	.	.	875
1.00 - 1.99	109	844	39	.	.	.	.	.	.	.	992
2.00 - 2.99	.	15	41	1	.	.	.	.	.	.	57
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	925	918	80	1	0	0	0	0	0	0	1924

STATION: 35 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	864	7	.	.	.	.	.	.	.	.	871
1.00 - 1.99	431	140	1	.	.	.	.	.	.	.	572
2.00 - 2.99	.	6	.	.	.	.	.	.	.	.	6
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1295	153	1	0	0	0	0	0	0	0	1449

STATION: 35 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	499	.	.	.	.	.	.	.	.	.	499
1.00 - 1.99	517	452	.	.	.	.	.	.	.	.	969
2.00 - 2.99	.	54	.	.	.	.	.	.	.	.	54
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1016	507	0	0	0	0	0	0	0	0	1523

STATION: 35 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4917	3375	11832	6825	1759	429	139	50	47	18	29391
1.00 - 1.99	2386	5850	5039	4563	1461	517	131	55	36	6	20044
2.00 - 2.99	.	213	920	996	267	154	110	36	10	.	2706
3.00 - 3.99	.	1	7	167	132	28	32	13	4	.	384
4.00 - 4.99	.	.	.	7	29	5	2	4	2	.	49
5.00 - 5.99	.	.	.	.	2	5	1	5	13	.	26
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7303	9439	17798	12558	3650	1138	415	163	112	24	52600

STATION: 35

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	373	301	375	427	669	654	722	1060	923	428	372	418	6722
2.50 - 4.99	1360	1284	1446	1629	2242	2306	2526	2519	1921	1739	1582	1403	21957
5.00 - 7.49	888	880	974	1043	905	855	911	610	680	1060	976	975	10757
7.50 - 9.99	977	925	994	829	522	422	273	221	534	805	887	977	8366
10.00 - 12.49	434	360	352	255	91	75	25	42	156	298	331	410	2829
12.50 - 14.99	326	225	267	109	33	8	1	8	80	117	141	218	1533
15.00 - 17.49	59	51	36	22	2	.	1	2	10	12	15	55	265
17.50 - 19.99	38	36	13	5	.	.	1	2	6	5	12	6	124
20.00 - GREATER	9	10	7	1	.	.	4	.	10	.	4	2	47
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.50 N, LONG: 80.00 W, DEPTH: 9 M

STATION: 35

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	609	562	387	321	234	121	68	173	277	594	532	608	4486
22.50 - 67.49 (45.0)	711	572	484	357	400	459	185	447	1124	1284	904	884	7811
67.50 - 112.49 (90.0)	408	414	481	385	660	618	431	835	1089	921	638	359	7239
112.50 - 157.49 (135.0)	353	335	553	575	631	566	426	613	493	348	477	329	5699
157.50 - 202.49 (180.0)	356	459	798	735	975	807	909	845	423	264	399	382	7352
202.50 - 247.49 (225.0)	424	601	666	781	878	1150	1682	1050	481	322	364	557	8956
247.50 - 292.49 (270.0)	752	521	533	656	456	477	628	351	242	324	460	643	6043
292.50 - 337.49 (315.0)	851	608	562	510	230	122	135	150	191	407	546	702	5014
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 35

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.21	1.19	1.09	0.90	1.07	1.02	0.60	1.14	0.81	1.10	0.96	1.23	1.03
1977	1.04	1.06	1.19	1.22	0.80	0.60	0.62	0.76	0.65	1.10	1.37	1.17	0.96
1978	1.43	1.00	1.18	0.93	0.92	0.81	0.77	0.82	1.03	0.97	1.12	1.18	1.01
1979	1.41	1.28	1.26	1.24	1.11	1.07	0.96	0.84	1.65	1.00	1.45	1.09	1.19
1980	1.14	1.07	1.47	1.17	0.70	0.86	0.70	1.03	1.11	1.07	1.15	1.18	1.05
1981	0.86	1.58	1.08	1.11	0.88	0.80	0.78	0.89	0.95	1.01	0.96	1.01	0.99
1982	0.89	1.39	1.09	1.01	0.74	0.81	0.67	0.67	0.90	0.98	1.10	1.14	0.95
1983	1.28	1.31	1.40	1.06	1.03	0.89	0.77	0.76	0.79	1.22	1.11	1.42	1.09
1984	1.33	1.39	1.18	1.07	0.91	0.63	0.90	0.63	1.41	1.01	1.40	0.92	1.06
1985	1.07	1.16	1.18	1.03	0.86	0.66	0.82	0.75	1.32	1.37	1.34	0.98	1.04
1986	1.17	0.88	1.32	0.87	0.76	0.96	0.70	0.84	0.95	0.91	1.32	1.25	0.99
1987	1.18	1.27	1.14	0.94	0.96	0.88	0.73	0.79	0.86	0.92	1.09	0.97	0.98
1988	1.01	0.94	0.93	0.73	0.79	0.75	0.88	0.86	1.13	0.89	1.10	0.70	0.89
1989	1.04	1.08	1.10	1.02	0.80	0.90	0.88	0.97	1.83	1.08	1.04	0.89	1.05
1990	1.06	1.31	1.11	1.20	0.98	0.93	1.05	0.80	0.97	1.24	0.96	1.22	1.07
1991	1.03	0.96	1.26	1.14	1.06	0.93	0.78	0.72	1.22	1.17	0.99	1.01	1.02
1992	1.09	1.00	1.18	0.92	0.78	0.71	0.65	0.79	0.86	0.91	1.27	1.03	0.93
1993	1.50	1.08	1.35	1.02	0.90	0.79	0.63	0.88	0.79	1.06	1.26	0.94	1.02
MEAN	1.15	1.16	1.19	1.03	0.89	0.83	0.77	0.83	1.07	1.06	1.17	1.07	

STATION: 35

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	26 914	331212	22 810	3111 9	28 916	19 716	14 620	451413	19 710	2511 9	24 714	311010	451413
1977	321012	331016	281016	361017	21 912	17 622	12 5 8	14 913	17 610	28 910	2613 9	29 918	361017
1978	411114	321012	28 915	32 918	341016	14 619	13 717	161113	281710	2814 9	2310 8	361010	411114
1979	371116	431210	401116	371113	22 815	22 710	18 712	221814	571314	261011	301015	30 918	571314
1980	341011	27 631	32 917	351016	18 713	22 722	16 523	381614	271612	3210 9	31 810	3014 9	381614
1981	23 718	351014	341217	23 7 7	201013	23 720	17 621	401016	351613	2012 9	23 818	29 913	401016
1982	26 913	281012	29 917	23 814	12 813	16 525	16 621	12 522	24 810	24 9 7	25 811	27 814	29 917
1983	33 910	471111	471113	361116	19 718	16 5 8	17 7 9	191014	2510 9	26 7 8	28 916	3511 9	471113
1984	2811 9	381114	351017	31 914	28 819	11 912	19 720	14 714	451014	231213	3712 9	261212	451014
1985	20 634	33 916	31 914	291017	21 8 8	20 722	491216	18 8 8	571612	401210	391016	24 818	571612
1986	27 9 8	27 918	25 917	21 718	21 8 9	231012	17 623	20 913	2513 9	281010	28 9 9	3310 9	3310 9
1987	4011 9	31 912	261015	18 530	17 912	19 619	16 5 8	16 7 9	191114	20 812	241012	241012	4011 9
1988	34 912	22 717	20 623	22 817	19 717	15 619	17 518	29 917	281612	24 712	29 812	20 5 3	34 912
1989	3611 9	24 9 6	25 814	20 618	21 716	21 818	171012	221112	571413	23 9 8	23 817	27 814	571413
1990	20 622	29 916	26 916	24 717	21 816	19 719	23 917	251613	2415 9	321113	33 913	26 815	33 913
1991	21 613	29 917	311016	24 7 9	19 812	23 8 9	13 520	391213	361712	3114 9	20 5 3	24 916	391213
1992	331211	24 8 9	261012	20 623	15 5 6	12 5 8	14 523	201014	16 5 4	21 816	28 912	22 8 8	331211
1993	3511 9	28 8 9	421115	24 816	16 912	14 913	11 813	3815 9	15 912	23 810	3312 9	26 818	421115
MAX	411114	471111	471113	371113	341016	23 8 9	491216	451413	571413	401210	391016	361010	

MAX Hmo(m): 5.7 MAX Tp(sec): 14. MAX Dp(deg): 130. DATE(gmt): 89092206

MAX WIND SPEED(m/sec): 38. MAX WIND DIRECTION(deg): 340. DATE(gmt): 89092203

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.5 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.75 N, LONG: 79.50 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 36

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	374	316	286	307	305	294	395	308	224	257	226	449	3741
0.50 - 0.99	1528	1363	1417	1863	2548	2758	3197	3200	2292	1993	1402	1697	25258
1.00 - 1.49	1302	1291	1471	1366	1185	1022	720	666	1009	1350	1623	1232	14237
1.50 - 1.99	778	630	719	527	319	195	133	182	428	584	692	702	5889
2.00 - 2.49	299	268	330	166	76	48	12	52	160	191	230	247	2079
2.50 - 2.99	101	123	160	48	26	3	2	25	100	63	107	98	856
3.00 - 3.49	51	54	60	28	4	.	1	14	41	22	27	28	330
3.50 - 3.99	24	20	13	15	1	.	.	9	18	3	12	11	126
4.00 - 4.49	6	6	5	.	.	.	2	6	9	1	1	.	36
4.50 - 4.99	1	1	3	.	.	.	.	2	9	.	.	.	16
5.00 - 5.49	.	.	.	.	.	.	2	.	8	.	.	.	10
5.50 - 5.99	.	.	.	.	.	.	.	.	4	.	.	.	4
6.00 - 6.49	.	.	.	.	.	.	.	.	4	.	.	.	4
6.50 - 6.99	.	.	.	.	.	.	.	.	14	.	.	.	14
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 36

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	213	183	174	165	146	94	158	62	52	84	132	234	1697
4.0 - 4.9	669	681	463	565	359	330	493	297	311	541	457	756	5922
5.0 - 5.9	438	357	457	444	409	486	488	491	355	316	258	467	4966
6.0 - 6.9	282	362	423	402	600	676	386	570	566	446	388	320	5421
7.0 - 7.9	325	381	517	603	909	1059	1081	1185	1025	784	555	353	8777
8.0 - 8.9	447	511	559	617	982	1031	1184	1034	663	868	637	552	9085
9.0 - 9.9	610	604	737	622	574	411	468	379	427	637	815	666	6950
10.0 - 10.9	630	495	533	462	235	148	123	147	217	340	556	449	4335
11.0 - 11.9	415	247	263	180	92	44	47	72	119	151	271	324	2225
12.0 - 12.9	202	88	114	97	72	28	21	60	100	106	70	133	1091
13.0 - 13.9	94	66	73	56	45	6	9	53	114	87	57	84	744
14.0 - 14.9	75	32	52	42	24	1	5	35	89	48	63	50	516
15.0 - 15.9	27	36	34	24	9	1	1	25	81	23	29	51	341
16.0 - 16.9	15	7	19	14	3	.	.	18	65	12	15	22	190
17.0 - 17.9	7	12	15	11	5	.	.	8	49	15	5	3	130
18.0 - 18.9	7	6	5	5	.	1	.	10	24	5	6	.	69
19.0 - 19.9	5	4	13	4	.	3	.	9	25	1	6	.	70
20.0 - LONGER	3	.	13	7	.	1	.	9	38	.	.	.	71
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 36

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	120	145	54	56	39	10	1	2	13	69	73	117	699
11.25 - 33.74 (22.5)	95	74	70	38	33	16	3	2	33	128	93	157	742
33.75 - 56.24 (45.0)	109	111	79	61	82	50	13	29	127	291	109	208	1269
56.25 - 78.74 (67.5)	178	197	127	101	100	141	59	119	334	306	247	208	2117
78.75 - 101.24 (90.0)	603	451	557	554	506	444	186	407	1000	1177	730	677	7292
101.25 - 123.74 (112.5)	1278	1111	1208	1102	1621	1507	1754	2217	1733	1616	1726	1220	18093
123.75 - 146.24 (135.0)	759	711	843	965	1059	1227	1358	1089	806	492	610	588	10507
146.25 - 168.74 (157.5)	267	310	519	367	349	148	81	145	85	117	205	181	2774
168.75 - 191.24 (180.0)	201	219	360	307	271	277	284	161	93	56	122	257	2608
191.25 - 213.74 (202.5)	62	110	116	164	129	210	256	124	35	33	44	113	1396
213.75 - 236.24 (225.0)	57	106	102	109	93	147	227	108	15	40	49	96	1149
236.25 - 258.74 (247.5)	60	80	78	112	42	85	152	45	8	19	30	102	813
258.75 - 281.24 (270.0)	153	88	73	127	45	30	71	5	9	24	62	107	794
281.25 - 303.74 (292.5)	198	131	83	108	33	15	18	.	7	30	89	145	857
303.75 - 326.24 (315.0)	200	118	120	98	31	8	1	8	12	26	74	134	830
326.25 - 348.74 (337.5)	124	110	75	51	31	5	.	3	10	40	57	154	660
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.75 N, LONG: 79.50 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 36 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	696										696
1.00 - 1.99	552	132									684
2.00 - 2.99		16									16
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1248	148	0	0	0	0	0	0	0	0	1396

STATION: 36 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	531	115	2				1				649
1.00 - 1.99	723	449	516	2							1690
2.00 - 2.99		14	206	7							227
3.00 - 3.99				1							1
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1254	578	724	10	0	0	1	0	0	0	2567

STATION: 36 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	513	1242	1883	1579	904	563	228	67	42	5	7026
1.00 - 1.99	135	1373	1519	990	477	205	75	39	17		4830
2.00 - 2.99		45	394	224	54	46	10	5			778
3.00 - 3.99			11	107	40	1					159
4.00 - 4.99				1	9						10
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	648	2660	3807	2901	1484	815	313	111	59	5	12803

STATION: 36 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	328	1780	8854	4634	869	117	35	10	11	6	16644
1.00 - 1.99	54	951	2662	2799	724	242	77	27	26	5	7567
2.00 - 2.99		33	334	447	133	60	75	30	8		1120
3.00 - 3.99			8	95	38	16	28	13	5		203
4.00 - 4.99				6	17	5	1	2	4		35
5.00 - 5.99					5	3		2	3		13
6.00 - 6.99					2	2	1	4	9		18
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	382	2764	11858	7981	1788	445	217	88	66	11	25600

STATION: 36 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	589	822	213	23							1647
1.00 - 1.99	105	1445	728	142	1						2421
2.00 - 2.99		49	383	168	10						610
3.00 - 3.99			9	56	26						91
4.00 - 4.99				1	6						7
5.00 - 5.99					1						1
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	694	2316	1333	390	44	0	0	0	0	0	4777

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.75 N, LONG: 79.50 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 36 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	858	104	.	.	.	.	.	.	.	.	962
1.00 - 1.99	122	1062	66	.	.	.	.	.	.	.	1250
2.00 - 2.99	.	23	70	3	.	.	.	.	.	.	96
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	980	1189	136	3	0	0	0	0	0	0	2308

STATION: 36 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	855	2	.	.	.	.	.	.	.	.	857
1.00 - 1.99	499	164	3	.	.	.	.	.	.	.	666
2.00 - 2.99	.	9	1	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1354	175	4	0	0	0	0	0	0	0	1533

STATION: 36 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	517	1	.	.	.	.	.	.	.	.	518
1.00 - 1.99	542	476	.	.	.	.	.	.	.	.	1018
2.00 - 2.99	.	78	.	.	.	.	.	.	.	.	78
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1059	557	0	0	0	0	0	0	0	0	1616

STATION: 36 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4887	4066	10952	6236	1773	680	264	77	53	11	28999
1.00 - 1.99	2732	6052	5494	3933	1202	447	152	66	43	5	20126
2.00 - 2.99	.	267	1388	849	197	106	85	35	8	.	2935
3.00 - 3.99	.	2	28	259	104	17	28	13	5	.	456
4.00 - 4.99	.	.	.	8	32	5	1	2	4	.	52
5.00 - 5.99	.	.	.	.	6	3	.	2	3	.	14
6.00 - 6.99	.	.	.	.	2	2	1	4	9	.	18
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7619	10387	17862	11285	3316	1260	531	199	125	16	52600

STATION: 36

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	325	235	320	377	581	616	652	973	836	387	300	358	5960
2.50 - 4.99	1330	1264	1422	1591	2260	2267	2515	2577	1996	1733	1570	1391	21916
5.00 - 7.49	877	889	981	1064	942	902	945	632	684	1081	1007	959	10963
7.50 - 9.99	1047	958	1036	879	543	448	328	218	554	830	934	1011	8786
10.00 - 12.49	444	389	387	276	108	84	18	49	142	297	333	452	2979
12.50 - 14.99	327	242	263	108	29	3	1	12	78	122	143	242	1570
15.00 - 17.49	68	58	33	21	1	.	.	1	16	12	18	43	271
17.50 - 19.99	37	29	16	3	.	.	2	2	7	2	14	7	119
20.00 - GREATER	9	8	6	1	.	.	3	.	7	.	1	1	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 32.75 N, LONG: 79.50 W, DEPTH: 11 M

STATION: 36

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	633	604	402	326	240	117	71	154	268	601	530	628	4574
22.50 - 67.49	(45.0)	708	581	500	371	428	470	217	496	1203	1317	901	882	8074
67.50 - 112.49	(90.0)	383	379	475	371	630	627	411	813	998	886	605	328	6906
112.50 - 157.49	(135.0)	338	332	554	519	589	518	412	578	458	325	473	293	5389
157.50 - 202.49	(180.0)	353	444	731	727	942	754	872	801	435	251	397	385	7092
202.50 - 247.49	(225.0)	425	600	693	826	927	1237	1720	1107	507	339	381	584	9346
247.50 - 292.49	(270.0)	793	542	559	675	467	476	653	368	259	366	498	680	6336
292.50 - 337.49	(315.0)	831	590	550	505	241	121	108	147	192	379	535	684	4883
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 36

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.22	1.22	1.11	0.92	1.11	1.03	0.61	1.14	0.82	1.12	0.98	1.28	1.05
1977	1.07	1.08	1.21	1.18	0.79	0.62	0.62	0.73	0.66	1.12	1.35	1.20	0.97
1978	1.45	1.04	1.19	0.97	0.97	0.81	0.78	0.81	1.01	0.99	1.14	1.20	1.03
1979	1.43	1.31	1.26	1.23	1.13	1.08	0.94	0.82	1.65	0.99	1.45	1.10	1.20
1980	1.15	1.08	1.51	1.22	0.72	0.90	0.70	1.02	1.08	1.05	1.16	1.21	1.07
1981	0.88	1.61	1.13	1.16	0.90	0.82	0.78	0.90	0.95	1.03	0.97	1.02	1.01
1982	0.92	1.37	1.09	1.03	0.74	0.82	0.69	0.67	0.90	1.00	1.12	1.12	0.95
1983	1.27	1.35	1.41	1.08	1.04	0.89	0.75	0.75	0.84	1.25	1.11	1.48	1.10
1984	1.36	1.38	1.22	1.11	0.95	0.63	0.90	0.62	1.43	0.99	1.44	0.90	1.08
1985	1.11	1.18	1.20	1.04	0.88	0.69	0.83	0.74	1.34	1.38	1.33	1.01	1.06
1986	1.20	0.90	1.35	0.90	0.78	0.97	0.72	0.88	0.92	0.96	1.33	1.28	1.02
1987	1.25	1.30	1.18	0.95	0.95	0.89	0.72	0.80	0.86	0.94	1.08	0.98	0.99
1988	1.05	0.95	0.95	0.80	0.82	0.76	0.88	0.87	1.14	0.91	1.14	0.74	0.92
1989	1.07	1.11	1.17	1.05	0.84	0.93	0.90	0.95	1.88	1.12	1.01	0.93	1.08
1990	1.07	1.36	1.15	1.21	1.00	0.94	1.07	0.80	0.94	1.22	0.96	1.22	1.08
1991	1.06	1.00	1.31	1.15	1.05	0.96	0.79	0.75	1.25	1.15	0.99	1.05	1.04
1992	1.12	1.06	1.20	0.94	0.82	0.72	0.67	0.80	0.88	0.90	1.29	1.09	0.96
1993	1.52	1.13	1.38	1.09	0.90	0.80	0.61	0.88	0.81	1.09	1.31	0.96	1.04
MEAN	1.18	1.19	1.22	1.06	0.91	0.85	0.78	0.83	1.08	1.07	1.18	1.10	

STATION: 36

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	28 914	341014	23 8 9	3310 8	29 916	19 716	16 621	461413	21 710	2710 8	24 715	331010	461413
1977	341012	34 916	301016	381117	21 812	17 624	12 4 7	13 5 9	16 610	29 910	2413 9	31 920	381117
1978	461116	321012	28 914	31 917	351016	14 6 9	13 717	151113	221710	241212	26 9 7	33 9 8	461116
1979	371113	441210	401116	381113	22 8 7	23 710	18 611	231814	681315	27 910	321016	31 919	681315
1980	35 911	27 723	33 918	371016	19 711	23 722	16 523	381614	261512	3411 8	31 9 9	29 9 7	381614
1981	26 720	371014	371217	25 7 8	20 615	23 819	19 719	421116	331613	21 624	25 822	30 813	421116
1982	26 913	27 911	29 820	23 714	12 913	17 622	18 720	12 523	25 8 9	2610 7	25 810	27 815	29 820
1983	361011	461110	491113	371117	20 719	16 5 8	17 7 9	181015	28 9 8	26 9 8	29 916	3811 9	491113
1984	3210 7	411014	381117	31 916	30 919	12 912	20 720	13 714	501214	231213	3811 8	261212	501214
1985	21 634	331016	30 914	321017	23 8 7	22 820	511216	20 7 7	691713	4211 9	401017	26 918	691713
1986	2910 9	28 918	27 917	22 719	23 7 8	26 912	19 721	28 814	24 6 7	29 9 9	3210 9	3610 9	3610 9
1987	431110	33 912	301016	19 720	17 912	19 620	16 7 8	18 7 9	19 512	21 812	24 711	25 723	431110
1988	35 912	24 717	21 623	23 817	19 618	16 619	17 617	29 818	281613	25 811	30 811	23 8 5	35 912
1989	3710 8	26 8 5	25 714	21 618	22 716	23 819	18 621	211112	691414	26 8 7	25 818	28 813	691414
1990	23 719	31 917	27 916	25 8 7	23 817	20 720	22 818	251613	191510	311113	33 913	28 915	33 913
1991	23 717	31 918	331116	24 6 8	19 7 9	24 8 8	13 619	421214	381712	261310	23 8 6	27 916	421214
1992	321212	26 8 6	261013	22 7 7	16 6 7	12 6 9	15 624	191014	18 7 5	20 816	27 913	25 8 8	321212
1993	3711 9	29 8 9	461116	25 915	17 620	14 914	10 812	311412	15 912	24 8 9	3510 8	29 819	461116
MAX	461116	461110	491113	381113	351016	26 912	511216	461413	691414	4211 9	401017	3811 9	

MAX Hmo(m): 6.9 MAX Tp(sec): 14. MAX Dp(deg): 137. DATE(gmt): 89092206

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 75. DATE(gmt): 89092203

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.00 N, LONG: 79.00 W, DEPTH: 20 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 37

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	324	268	267	263	247	262	334	262	192	250	210	402	3281
0.50 - 0.99	1394	1189	1297	1690	2387	2563	3112	3164	2169	1751	1292	1505	23513
1.00 - 1.49	1279	1276	1402	1401	1258	1137	797	727	1084	1379	1551	1178	14469
1.50 - 1.99	764	727	725	575	373	240	171	188	415	566	712	757	6213
2.00 - 2.49	369	285	372	219	135	81	42	61	213	290	299	352	2718
2.50 - 2.99	165	161	226	96	45	36	2	30	115	140	145	158	1319
3.00 - 3.49	84	92	104	41	16	1	2	14	56	63	72	69	614
3.50 - 3.99	44	42	50	19	2	.	.	8	24	13	20	28	250
4.00 - 4.49	28	20	12	15	1	.	.	4	13	9	15	11	128
4.50 - 4.99	7	7	6	1	.	.	2	5	10	2	4	4	48
5.00 - 5.49	4	5	2	.	.	.	1	1	5	1	.	.	19
5.50 - 5.99	2	.	1	.	.	.	1	.	10	.	.	.	14
6.00 - 6.49	.	.	.	.	.	.	.	.	7	.	.	.	7
6.50 - 6.99	.	.	.	.	.	.	.	.	2	.	.	.	2
7.00 - 7.49	.	.	.	.	.	.	.	.	3	.	.	.	3
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 37

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	166	139	133	117	107	67	161	53	42	70	116	190	1361
4.0 - 4.9	627	592	465	514	344	295	453	288	230	392	401	576	5177
5.0 - 5.9	706	611	612	614	555	680	666	626	529	638	545	840	7622
6.0 - 6.9	501	558	682	649	871	992	605	976	932	747	668	554	8735
7.0 - 7.9	394	483	580	709	985	1056	1127	1172	1010	895	619	457	9487
8.0 - 8.9	493	545	609	582	801	804	926	742	494	735	638	538	7907
9.0 - 9.9	513	448	553	532	475	278	367	231	294	429	572	519	5211
10.0 - 10.9	436	360	385	323	171	104	92	115	179	230	371	341	3107
11.0 - 11.9	329	174	222	133	65	29	39	63	94	100	201	225	1674
12.0 - 12.9	147	65	70	43	29	10	18	58	93	88	65	88	774
13.0 - 13.9	70	46	50	26	31	1	6	44	101	62	43	69	549
14.0 - 14.9	55	13	32	27	18	.	4	31	53	43	54	30	360
15.0 - 15.9	14	20	29	14	6	.	.	12	80	16	19	24	234
16.0 - 16.9	4	4	11	15	4	.	.	16	60	8	4	12	138
17.0 - 17.9	1	10	8	7	2	.	.	7	46	11	3	1	96
18.0 - 18.9	5	2	7	4	.	.	.	12	23	.	1	.	54
19.0 - 19.9	2	2	7	4	.	3	.	10	27	.	.	.	55
20.0 - LONGER	1	.	9	7	.	1	.	8	33	.	.	.	59
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 37

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	194	236	149	116	67	18	4	2	28	137	149	211	1311
11.25 - 33.74 (22.5)	205	145	129	87	70	45	7	7	54	240	164	243	1396
33.75 - 56.24 (45.0)	213	184	147	92	115	105	27	63	239	398	285	335	2203
56.25 - 78.74 (67.5)	233	256	189	176	136	162	80	178	387	387	241	228	2653
78.75 - 101.24 (90.0)	414	311	370	369	385	445	185	410	973	941	537	421	5761
101.25 - 123.74 (112.5)	1144	997	1116	970	1595	1421	1765	2128	1679	1464	1575	1117	16971
123.75 - 146.24 (135.0)	553	540	692	879	887	1028	1087	991	610	414	500	425	8606
146.25 - 168.74 (157.5)	249	267	409	358	329	141	102	124	99	121	198	141	2538
168.75 - 191.24 (180.0)	221	229	420	352	345	266	300	173	106	66	151	265	2894
191.25 - 213.74 (202.5)	88	124	193	213	201	293	322	177	57	43	74	143	1928
213.75 - 236.24 (225.0)	112	168	170	193	128	232	318	157	39	63	83	165	1828
236.25 - 258.74 (247.5)	88	110	103	111	58	98	163	38	9	39	42	134	993
258.75 - 281.24 (270.0)	154	107	70	123	45	33	82	4	13	28	66	123	848
281.25 - 303.74 (292.5)	200	113	81	101	33	16	18	2	9	36	94	137	840
303.75 - 326.24 (315.0)	230	126	119	99	32	9	2	7	8	28	80	178	918
326.25 - 348.74 (337.5)	166	159	107	81	38	8	2	3	10	59	81	198	912
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.00 N, LONG: 79.00 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 37 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	533	66	132	.	.	.	.	.	.	.	731
1.00 - 1.99	394	1027	8	.	.	.	.	.	.	.	1429
2.00 - 2.99	.	154	48	.	.	.	.	.	.	.	202
3.00 - 3.99	.	2	27	.	.	.	.	.	.	.	29
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	927	1249	217	0	0	0	0	0	0	0	2393

STATION: 37 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	474	234	52	.	.	.	.	.	.	.	760
1.00 - 1.99	119	1939	21	.	.	.	.	.	.	.	2079
2.00 - 2.99	.	263	682	1	.	.	.	.	.	.	946
3.00 - 3.99	.	.	256	3	.	.	.	.	.	.	259
4.00 - 4.99	.	.	24	14	.	.	.	.	.	.	38
5.00 - 5.99	.	.	1	1	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	593	2436	1036	19	0	0	0	0	0	0	4084

STATION: 37 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	466	1821	1886	1212	636	408	113	46	32	4	6624
1.00 - 1.99	66	1855	1241	590	305	115	67	20	3	.	4262
2.00 - 2.99	.	46	502	58	20	14	1	.	.	.	641
3.00 - 3.99	.	.	81	76	7	.	.	.	.	.	164
4.00 - 4.99	.	.	1	26	21	.	.	.	.	.	48
5.00 - 5.99	.	.	.	3	5	.	.	.	.	.	8
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	532	3722	3711	1965	995	537	181	66	35	4	11748

STATION: 37 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	304	2316	7502	3447	646	86	25	6	14	5	14351
1.00 - 1.99	34	1144	2631	2054	611	210	83	28	23	4	6822
2.00 - 2.99	.	53	402	309	105	56	70	30	6	.	1031
3.00 - 3.99	.	.	44	105	14	11	11	12	8	.	205
4.00 - 4.99	.	.	.	16	15	5	1	2	7	.	46
5.00 - 5.99	.	.	.	1	5	1	.	1	8	.	16
6.00 - 6.99	.	.	.	.	4	2	1	2	.	.	9
7.00 - 7.99	.	.	.	.	.	.	.	3	.	.	3
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	338	3513	10579	5932	1400	372	191	84	66	9	22484

STATION: 37 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	562	877	214	27	.	.	.	.	.	.	1680
1.00 - 1.99	101	1562	631	130	4	.	.	.	.	.	2428
2.00 - 2.99	.	101	492	102	11	.	.	.	.	.	706
3.00 - 3.99	.	.	52	96	18	.	.	.	.	.	166
4.00 - 4.99	.	.	.	26	14	.	.	.	.	.	40
5.00 - 5.99	.	.	.	1	6	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	663	2540	1389	382	53	0	0	0	0	0	5027

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.00 N, LONG: 79.00 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 37 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	884	344	9	.	.	.	.	.	.	.	1237
1.00 - 1.99	157	1580	91	1	.	.	.	.	.	.	1829
2.00 - 2.99	.	66	289	3	.	.	.	.	.	.	358
3.00 - 3.99	.	.	25	14	.	.	.	.	.	.	39
4.00 - 4.99	.	.	.	2	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1041	1990	414	20	0	0	0	0	0	0	3465

STATION: 37 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	822	14	.	.	.	.	.	.	.	.	836
1.00 - 1.99	484	196	1	.	.	.	.	.	.	.	681
2.00 - 2.99	.	15	13	.	.	.	.	.	.	.	28
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1306	225	14	0	0	0	0	0	0	0	1545

STATION: 37 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	519	22	34	.	.	.	.	.	.	.	575
1.00 - 1.99	619	533	.	.	.	.	.	.	.	.	1152
2.00 - 2.99	.	125	.	.	.	.	.	.	.	.	125
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1138	682	34	0	0	0	0	0	0	0	1854

STATION: 37 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4564	5694	9829	4686	1282	494	138	52	46	9	26794
1.00 - 1.99	1974	9836	4624	2775	920	325	150	48	26	4	20682
2.00 - 2.99	.	823	2428	473	136	70	71	30	6	.	4037
3.00 - 3.99	.	4	485	294	39	11	11	12	8	.	864
4.00 - 4.99	.	.	27	84	50	5	1	2	7	.	176
5.00 - 5.99	.	.	1	6	16	1	.	1	8	.	33
6.00 - 6.99	.	.	.	.	4	2	1	2	.	.	9
7.00 - 7.99	.	.	.	.	1	.	.	3	.	.	4
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6538	16357	17394	8318	2448	909	372	150	101	13	52600

STATION: 37

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	283	205	276	340	525	589	625	949	795	365	269	321	5542
2.50 - 4.99	1289	1218	1396	1575	2218	2189	2432	2576	1990	1714	1534	1362	21493
5.00 - 7.49	875	918	971	1010	999	969	1011	647	700	1076	1018	940	11134
7.50 - 9.99	1066	974	1077	968	560	488	375	218	575	867	982	1044	9194
10.00 - 12.49	485	408	393	287	129	77	15	47	147	288	313	487	3076
12.50 - 14.99	337	255	287	119	32	8	1	15	75	140	167	255	1691
15.00 - 17.49	76	61	38	18	1	.	1	11	15	11	23	44	299
17.50 - 19.99	43	30	19	3	.	.	1	1	14	3	12	11	137
20.00 - GREATER	10	3	7	.	.	.	3	.	9	.	2	.	34
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.00 N, LONG: 79.00 W, DEPTH: 20 M

STATION: 37

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	672	624	436	335	260	135	72	158	277	626	531	651	4777
22.50 - 67.49 (45.0)	680	615	514	380	460	494	247	580	1254	1325	910	848	8307
67.50 - 112.49 (90.0)	373	350	453	360	593	602	390	737	911	847	575	321	6512
112.50 - 157.49 (135.0)	327	299	538	482	547	486	390	535	441	317	447	287	5096
157.50 - 202.49 (180.0)	355	444	715	721	917	738	839	775	426	254	417	382	6983
202.50 - 247.49 (225.0)	419	598	712	860	969	1270	1785	1153	545	345	395	611	9662
247.50 - 292.49 (270.0)	813	552	556	685	468	474	643	377	280	396	504	671	6419
292.50 - 337.49 (315.0)	825	590	540	497	250	121	98	149	186	354	541	693	4844
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 37

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.33	1.31	1.15	1.02	1.21	1.09	0.64	1.18	0.84	1.25	1.08	1.41	1.13
1977	1.20	1.17	1.29	1.19	0.83	0.66	0.64	0.73	0.69	1.25	1.38	1.28	1.02
1978	1.51	1.17	1.27	1.05	1.04	0.83	0.81	0.82	1.03	1.06	1.25	1.32	1.10
1979	1.54	1.43	1.30	1.26	1.21	1.14	0.94	0.81	1.70	1.03	1.52	1.21	1.25
1980	1.21	1.20	1.65	1.30	0.76	0.98	0.72	1.01	1.05	1.09	1.26	1.36	1.13
1981	0.98	1.69	1.23	1.17	0.96	0.85	0.80	0.93	0.91	1.17	1.05	1.09	1.06
1982	0.97	1.40	1.13	1.10	0.75	0.84	0.73	0.68	0.93	1.04	1.18	1.17	0.99
1983	1.33	1.47	1.47	1.12	1.08	0.94	0.77	0.76	0.97	1.37	1.14	1.67	1.17
1984	1.52	1.42	1.30	1.21	1.04	0.65	0.92	0.62	1.58	1.02	1.61	0.90	1.15
1985	1.22	1.26	1.30	1.09	0.93	0.74	0.85	0.77	1.41	1.48	1.33	1.11	1.12
1986	1.29	0.98	1.45	0.94	0.81	1.02	0.76	0.95	0.92	1.10	1.40	1.44	1.09
1987	1.37	1.42	1.29	0.99	0.96	0.92	0.75	0.84	0.90	1.05	1.12	1.03	1.05
1988	1.23	1.11	1.07	0.98	0.96	0.85	0.94	0.91	1.22	1.14	1.27	0.96	1.05
1989	1.20	1.21	1.36	1.15	0.92	1.00	0.95	0.97	1.89	1.28	1.03	1.09	1.17
1990	1.13	1.57	1.31	1.31	1.10	1.03	1.14	0.80	1.00	1.25	1.14	1.38	1.18
1991	1.19	1.12	1.46	1.19	1.07	1.06	0.82	0.80	1.38	1.20	1.08	1.19	1.13
1992	1.30	1.31	1.32	1.10	0.94	0.82	0.75	0.85	0.98	0.98	1.44	1.29	1.09
1993	1.67	1.26	1.47	1.21	0.92	0.82	0.62	0.88	0.85	1.21	1.48	1.04	1.12
MEAN	1.29	1.30	1.32	1.13	0.97	0.90	0.81	0.85	1.12	1.17	1.27	1.22	

STATION: 37

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	33 914	391019	29 7 4	44 9 5	341013	23 7 7	20 721	501414	26 710	35 8 4	29 7 4	381010	501414
1977	441011	40 917	361016	451118	24 810	17 625	12 5 7	13 5 9	14 5 6	32 910	29 7 4	361021	451118
1978	561119	38 910	33 818	33 919	40 917	15 6 8	16 6 8	16 614	22 7 9	29 8 8	32 8 5	36 8 7	561119
1979	431118	5311 9	481017	431113	29 7 5	27 8 8	18 610	211814	671215	30 910	361017	36 920	671215
1980	381010	29 724	41 921	431017	22 7 9	27 822	17 524	361915	241512	4311 8	34 9 9	39 8 6	4311 8
1981	30 722	421014	451118	28 817	26 7 5	27 822	22 721	471018	301912	25 7 3	30 824	33 813	471018
1982	26 913	29 910	33 820	26 7 6	11 813	23 718	22 722	12 523	29 7 7	36 8 3	29 810	28 714	36 8 3
1983	471010	521110	571112	431017	24 818	21 6 6	21 6 5	18 722	33 8 7	33 8 8	34 817	4510 9	571112
1984	40 8 4	461014	441119	361010	391019	16 535	24 820	13 714	631212	251213	47 9 5	28 7 8	631212
1985	31 7 0	40 917	33 813	401019	31 8 7	26 823	561117	28 7 5	721713	5411 9	46 918	29 821	721713
1986	38 8 5	32 822	34 8 4	26 720	27 8 8	291013	23 723	37 816	24 7 8	37 9 9	39 8 5	4612 9	4612 9
1987	5211 9	41 911	351016	23 6 1	20 6 5	20 619	19 6 7	23 7 8	20 7 8	26 7 4	26 711	29 724	5211 9
1988	37 912	27 718	23 624	27 817	25 7 4	23 7 3	21 7 7	32 817	28 7 5	33 8 1	34 917	34 8 4	37 912
1989	44 9 6	36 8 5	36 8 3	25 7 5	26 7 7	28 820	21 723	25 7 5	871414	32 7 6	29 818	30 813	871414
1990	28 722	351017	35 8 6	31 7 4	28 817	23 820	25 818	241614	22 7 2	301113	351015	34 916	351015
1991	29 718	39 919	391017	29 8 8	22 7 9	30 7 5	15 620	461214	371712	29 7 4	33 8 4	33 917	461214
1992	36 918	36 8 3	281013	30 736	21 6 5	14 6 8	17 624	20 619	26 7 4	29 7 4	30 811	31 7 7	36 8 3
1993	49 9 3	36 8 8	521117	30 916	18 621	14 813	10 811	281412	16 624	30 8 8	42 8 6	36 919	521117
MAX	561119	5311 9	571112	451118	40 917	30 7 5	561117	501414	871414	5411 9	47 9 5	4612 9	

MAX Hmo(m): 8.7 MAX Tp(sec): 14. MAX Dp(deg): 144. DATE(gmt): 89092206

MAX WIND SPEED(m/sec): 41. MAX WIND DIRECTION(deg): 80. DATE(gmt): 89092203

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.4

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.25 N, LONG: 79.00 W, DEPTH: 5 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 38

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	318	265	238	262	268	303	398	359	266	264	212	408	3561
0.50 - 0.99	1539	1320	1372	1781	2365	2511	3133	3301	2221	2125	1505	1577	24750
1.00 - 1.49	1534	1530	1752	1595	1467	1356	859	556	1171	1379	1749	1585	16533
1.50 - 1.99	689	602	685	518	301	129	61	149	336	512	586	640	5208
2.00 - 2.49	237	225	275	105	50	16	7	35	134	138	188	181	1591
2.50 - 2.99	95	85	94	35	10	3	2	24	71	34	62	50	565
3.00 - 3.49	52	45	48	24	3	2	4	40	121	12	18	23	392
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.49	.	.	.	.	.	.	.	.	.	.	.	.	0
5.50 - 5.99	.	.	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 38

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	249	198	164	135	144	114	217	84	70	124	137	201	1837
4.0 - 4.9	576	534	342	394	221	212	324	253	180	367	359	529	4291
5.0 - 5.9	299	238	281	200	187	259	203	288	330	338	201	366	3190
6.0 - 6.9	318	305	368	415	571	676	388	655	591	537	375	391	5590
7.0 - 7.9	325	390	574	669	1017	985	1038	1132	994	715	565	387	8791
8.0 - 8.9	617	789	862	1025	1231	1376	1551	1216	796	1061	869	906	12299
9.0 - 9.9	662	649	765	646	615	441	505	392	441	597	792	652	7157
10.0 - 10.9	614	502	521	443	223	184	145	167	225	278	509	443	4254
11.0 - 11.9	394	247	269	196	89	36	57	73	125	151	287	298	2222
12.0 - 12.9	197	76	108	81	64	18	21	55	112	122	54	126	1034
13.0 - 13.9	92	46	49	40	52	13	9	35	110	91	44	70	651
14.0 - 14.9	60	25	55	38	34	2	6	39	74	44	60	31	468
15.0 - 15.9	26	26	35	15	8	.	.	22	75	18	31	47	303
16.0 - 16.9	14	10	22	1	3	.	.	16	64	9	15	14	168
17.0 - 17.9	8	21	15	9	4	.	.	7	43	12	5	2	126
18.0 - 18.9	5	8	5	5	1	.	.	11	24	.	6	1	66
19.0 - 19.9	4	7	14	3	.	3	.	12	30	.	9	.	82
20.0 - LONGER	4	1	15	5	.	1	.	7	36	.	2	.	71
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 38

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	131	152	60	88	54	12	4	2	19	88	80	147	837
11.25 - 33.74 (22.5)	122	106	73	66	58	32	3	3	38	177	124	184	986
33.75 - 56.24 (45.0)	115	117	95	58	74	92	36	67	192	303	169	258	1576
56.25 - 78.74 (67.5)	113	151	87	72	72	108	47	112	187	200	151	120	1420
78.75 - 101.24 (90.0)	381	280	311	307	244	231	77	138	470	569	418	356	3782
101.25 - 123.74 (112.5)	712	664	790	730	1130	804	889	1525	1687	1681	1361	872	12845
123.75 - 146.24 (135.0)	1572	1315	1556	1583	1776	2117	2364	2104	1354	1018	1288	1221	19268
146.25 - 168.74 (157.5)	372	452	675	564	513	279	173	166	188	145	261	342	4130
168.75 - 191.24 (180.0)	178	192	266	257	229	308	310	182	83	57	100	181	2343
191.25 - 213.74 (202.5)	14	40	87	83	58	110	151	55	30	23	35	66	752
213.75 - 236.24 (225.0)	35	76	64	81	73	86	177	64	22	42	44	76	840
236.25 - 258.74 (247.5)	73	84	87	96	42	65	116	31	10	21	32	100	757
258.75 - 281.24 (270.0)	147	97	63	111	49	36	87	6	16	41	76	127	856
281.25 - 303.74 (292.5)	185	113	74	89	32	21	22	1	6	29	74	128	774
303.75 - 326.24 (315.0)	181	103	101	82	29	11	6	3	7	23	59	140	745
326.25 - 348.74 (337.5)	133	130	75	53	31	8	2	5	11	47	48	146	689
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.25 N, LONG: 79.00 W, DEPTH: 5 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 38 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	659		33								692
1.00 - 1.99	373	236	284								893
2.00 - 2.99			4								4
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1032	236	321	0	0	0	0	0	0	0	1589

STATION: 38 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	549	203	44								796
1.00 - 1.99	92	1542	428	1							2063
2.00 - 2.99		2	30								32
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	641	1747	502	1	0	0	0	0	0	0	2891

STATION: 38 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	373	845	615	470	678	509	196	71	42	1	3800
1.00 - 1.99	22	819	1328	149	84	35	26	7	13		2483
2.00 - 2.99			261	228	16	3					508
3.00 - 3.99			1	41	20	4					66
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	395	1664	2205	888	798	551	222	78	55	1	6857

STATION: 38 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	274	1878	10475	5387	1070	126	39	25	23	9	19306
1.00 - 1.99	19	810	4565	4003	1030	318	100	34	21	5	10905
2.00 - 2.99			254	682	245	87	66	29	12	1	1376
3.00 - 3.99			3	92	77	37	44	26	26		305
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	293	2688	15297	10164	2422	568	249	114	82	15	31892

STATION: 38 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	454	758	249	40							1501
1.00 - 1.99	74	1006	1661	191	7						2939
2.00 - 2.99			89	116	19						224
3.00 - 3.99				11	10						21
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	528	1764	1999	358	36	0	0	0	0	0	4685

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.25 N, LONG: 79.00 W, DEPTH: 5 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 38 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	728	9	19	.	.	.	.	.	.	.	756
1.00 - 1.99	353	147	323	.	.	.	.	.	.	.	823
2.00 - 2.99	.	.	2	.	.	.	.	.	.	.	2
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1081	156	344	0	0	0	0	0	0	0	1581

STATION: 38 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	919	1	19	.	.	.	.	.	.	.	939
1.00 - 1.99	363	97	236	.	.	.	.	.	.	.	696
2.00 - 2.99	.	.	5	.	.	.	.	.	.	.	5
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1282	98	260	0	0	0	0	0	0	0	1640

STATION: 38 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	504	.	17	.	.	.	.	.	.	.	521
1.00 - 1.99	372	424	143	.	.	.	.	.	.	.	939
2.00 - 2.99	.	3	2	.	.	.	.	.	.	.	5
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	876	427	162	0	0	0	0	0	0	0	1465

STATION: 38 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4460	3694	11471	5897	1748	635	235	96	65	10	28311
1.00 - 1.99	1668	5081	8968	4344	1121	353	126	41	34	5	21741
2.00 - 2.99	.	5	647	1026	280	90	66	29	12	1	2156
3.00 - 3.99	.	.	4	144	107	41	44	26	26	.	392
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6128	8780	21090	11411	3256	1119	471	192	137	16	52600

STATION: 38

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	259	189	260	311	496	574	632	950	766	350	249	304	5340
2.50 - 4.99	1331	1264	1407	1622	2278	2252	2488	2639	2044	1780	1602	1391	22098
5.00 - 7.49	892	919	993	1021	989	956	981	608	708	1095	1025	973	11160
7.50 - 9.99	1052	971	1079	954	552	453	345	198	549	830	955	1045	8983
10.00 - 12.49	485	388	391	276	119	79	12	43	151	279	306	449	2978
12.50 - 14.99	322	246	272	116	30	6	1	22	69	117	149	250	1600
15.00 - 17.49	70	66	36	18	.	.	2	4	17	10	23	44	290
17.50 - 19.99	44	27	21	2	.	.	.	.	11	3	9	8	125
20.00 - GREATER	9	2	5	.	.	.	3	.	5	.	2	.	26
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.25 N, LONG: 79.00 W, DEPTH: 5 M

STATION: 38

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	686	640	451	349	286	141	85	171	290	645	548	660	4952
22.50 - 67.49 (45.0)	665	610	508	376	445	487	248	587	1226	1298	882	825	8157
67.50 - 112.49 (90.0)	358	333	445	351	564	595	398	719	905	824	553	295	6340
112.50 - 157.49 (135.0)	333	310	527	476	548	473	375	535	468	333	461	299	5138
157.50 - 202.49 (180.0)	353	442	718	738	922	738	822	781	412	264	419	385	6994
202.50 - 247.49 (225.0)	418	600	720	842	962	1234	1740	1114	532	348	407	628	9545
247.50 - 292.49 (270.0)	820	549	548	682	471	512	691	401	297	395	517	673	6556
292.50 - 337.49 (315.0)	831	588	547	506	266	140	105	156	190	357	533	699	4918
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 38

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.12	1.13	1.02	0.84	1.08	0.98	0.57	1.07	0.79	1.04	0.92	1.14	0.98
1977	0.96	0.96	1.10	1.03	0.77	0.59	0.58	0.68	0.60	1.08	1.23	1.09	0.89
1978	1.32	0.95	1.10	0.90	0.95	0.76	0.73	0.79	0.90	0.89	1.02	1.05	0.95
1979	1.29	1.21	1.09	1.11	1.02	1.02	0.88	0.74	1.48	0.84	1.35	0.99	1.08
1980	1.04	0.93	1.37	1.11	0.67	0.84	0.67	0.97	1.06	0.91	1.06	1.14	0.98
1981	0.75	1.46	1.00	1.00	0.85	0.71	0.74	0.81	0.93	0.94	0.86	0.94	0.91
1982	0.88	1.30	1.01	0.97	0.70	0.77	0.66	0.62	0.85	0.91	0.97	1.00	0.88
1983	1.21	1.23	1.25	0.99	0.97	0.80	0.72	0.70	0.81	1.15	0.96	1.38	1.01
1984	1.29	1.31	1.10	1.02	0.88	0.62	0.85	0.58	1.23	0.94	1.31	0.81	0.99
1985	0.98	1.08	1.08	0.99	0.86	0.61	0.77	0.69	1.09	1.23	1.25	0.91	0.96
1986	1.10	0.83	1.26	0.85	0.74	0.94	0.63	0.84	0.77	0.89	1.21	1.20	0.94
1987	1.13	1.16	1.10	0.89	0.89	0.83	0.69	0.75	0.83	0.87	1.05	0.94	0.92
1988	1.28	1.30	1.24	1.24	1.12	1.11	0.82	0.83	1.35	1.27	1.23	1.21	1.17
1989	1.02	1.05	1.14	1.04	0.80	0.88	0.85	0.92	1.63	1.04	0.90	0.88	1.01
1990	1.12	1.54	1.43	1.34	1.29	1.24	1.15	0.82	1.23	1.20	1.34	1.40	1.26
1991	1.05	0.95	1.27	1.07	0.99	0.92	0.78	0.72	1.18	1.03	0.96	1.01	0.99
1992	1.47	1.35	1.51	1.24	1.13	1.05	1.11	0.88	0.84	0.84	1.42	1.37	1.19
1993	1.50	1.05	1.24	1.04	0.87	0.76	0.59	0.83	0.76	1.03	1.24	0.87	0.98
MEAN	1.14	1.15	1.18	1.04	0.92	0.86	0.77	0.79	1.02	1.01	1.13	1.07	

STATION: 38

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	26 914	321213	23 816	301010	281013	17 6 5	14 717	321313	20 712	251313	20 715	32 910	32 910
1977	321012	291016	281015	321017	22 913	13 714	9 5 8	11 913	11 5 7	23 913	211012	241016	321017
1978	321314	30 912	28 914	24 917	32 915	12 5 5	13 6 9	161113	281313	241113	23 8 8	26 8 9	32 915
1979	321116	321212	321216	321014	20 8 8	21 8 9	14 914	261814	321116	23 911	291015	25 917	321116
1980	31 911	211113	321014	311016	17 713	17 816	14 914	321414	301513	301110	27 912	321010	321010
1981	20 817	321115	321012	21 916	19 8 9	18 916	15 717	321016	321513	17 8 8	20 816	28 914	321513
1982	29 913	24 913	22 816	20 714	11 813	19 815	16 817	10 422	22 810	23 9 8	22 811	21 815	29 913
1983	321111	321113	321013	311016	19 816	16 6 6	15 6 5	171015	23 8 8	26 910	23 916	311010	321013
1984	2710 9	321014	301117	27 813	241117	13 913	17 817	12 813	321313	261213	3210 9	241213	3210 9
1985	19 636	301016	24 813	321016	21 8 8	16 818	321216	19 8 8	321613	321210	32 916	21 917	32 916
1986	27 910	22 917	281015	19 817	20 810	311013	14 817	32 914	17 6 7	28 911	28 9 9	321014	321014
1987	3210 9	321012	301115	18 714	16 914	15 617	14 6 8	16 7 9	201215	18 813	241113	241013	321012
1988	32 812	231014	19 8 0	21 916	19 7 3	18 8 3	16 6 7	25 816	321613	21 812	27 812	21 9 7	321613
1989	32 9 8	24 9 9	23 9 9	18 7 6	18 7 8	20 917	181012	241113	321314	24 910	23 817	24 812	321314
1990	211014	311014	27 916	22 8 8	24 816	17 818	211013	321614	191413	311113	321114	31 915	321114
1991	251013	291016	321115	20 810	17 813	22 8 8	13 618	321213	321713	23 810	23 9 9	25 916	321713
1992	321213	24 9 8	311013	20 8 8	15 7 8	14 6 9	15 625	191014	17 7 5	19 7 5	27 912	22 8 9	321213
1993	3210 8	24 910	321314	251014	14 913	14 814	9 812	321413	14 913	22 8 9	31 9 9	271213	321413
MAX	3210 8	321012	321314	321016	32 915	311013	321216	321413	321713	321210	321114	321014	

MAX Hmo(m): 3.2 MAX Tp(sec): 14. MAX Dp(deg): 126. DATE(gmt): 93083012

MAX WIND SPEED(m/sec): 37. MAX WIND DIRECTION(deg): 65. DATE(gmt): 89092203

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.5 STANDARD DEVIATION Tp(sec): 2.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.50 N, LONG: 78.75 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 39

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	421	317	325	370	317	386	508	399	317	334	279	490	4463
0.50 - 0.99	1498	1414	1413	1816	2558	2761	3151	3197	2270	2017	1503	1704	25302
1.00 - 1.49	1350	1268	1430	1314	1128	917	641	582	928	1249	1522	1157	13486
1.50 - 1.99	717	643	715	558	342	207	147	169	442	570	610	735	5855
2.00 - 2.49	282	235	344	167	87	42	10	55	187	214	293	265	2181
2.50 - 2.99	115	119	151	57	21	7	2	31	84	64	80	68	799
3.00 - 3.49	55	51	63	28	10	.	2	12	30	10	32	25	318
3.50 - 3.99	19	19	14	10	1	.	1	7	13	4	1	16	105
4.00 - 4.49	6	5	7	.	.	.	2	9	12	2	.	4	47
4.50 - 4.99	1	1	1	.	.	.	.	2	8	.	.	.	13
5.00 - 5.49	.	.	1	.	.	.	.	1	7	.	.	.	9
5.50 - 5.99	.	.	.	.	.	.	.	.	9	.	.	.	9
6.00 - 6.49	.	.	.	.	.	.	.	.	6	.	.	.	6
6.50 - 6.99	.	.	.	.	.	.	.	.	7	.	.	.	7
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 39

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	272	261	215	199	189	131	226	86	77	160	187	285	2288
4.0 - 4.9	715	702	560	581	396	416	571	385	303	533	504	779	6445
5.0 - 5.9	634	524	612	581	475	667	581	520	616	568	480	789	7047
6.0 - 6.9	293	360	418	405	618	649	404	658	571	478	400	293	5547
7.0 - 7.9	226	322	382	567	888	1017	949	1133	886	642	451	255	7718
8.0 - 8.9	403	434	574	576	897	885	1067	932	597	751	591	455	8162
9.0 - 9.9	570	547	618	582	536	357	451	316	359	604	721	563	6224
10.0 - 10.9	532	471	524	438	261	138	121	141	217	321	491	415	4070
11.0 - 11.9	407	254	273	204	95	37	54	69	119	143	253	316	2224
12.0 - 12.9	225	74	115	67	44	18	25	62	109	117	88	132	1076
13.0 - 13.9	110	63	80	39	35	3	9	49	110	68	60	93	719
14.0 - 14.9	48	22	44	30	15	.	5	42	69	35	63	47	420
15.0 - 15.9	19	22	16	16	8	.	1	18	89	18	21	24	252
16.0 - 16.9	3	7	7	14	4	.	.	10	65	9	5	16	140
17.0 - 17.9	1	5	4	6	2	.	.	10	45	15	1	2	91
18.0 - 18.9	4	.	3	5	1	.	.	14	24	2	2	.	55
19.0 - 19.9	2	4	8	3	.	1	.	10	31	.	2	.	61
20.0 - LONGER	.	.	11	7	.	1	.	9	33	.	.	.	61
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 39

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	141	175	100	89	54	17	1	2	25	102	101	144	951
11.25 - 33.74 (22.5)	145	104	95	75	73	35	8	6	46	205	120	198	1110
33.75 - 56.24 (45.0)	159	146	123	56	79	75	36	58	215	288	204	252	1691
56.25 - 78.74 (67.5)	121	165	100	65	69	137	53	139	265	234	140	141	1629
78.75 - 101.24 (90.0)	486	349	432	415	371	273	134	351	716	887	547	462	5423
101.25 - 123.74 (112.5)	997	868	989	902	1357	1166	1400	1885	1723	1625	1543	1087	15542
123.75 - 146.24 (135.0)	959	875	965	1091	1260	1514	1526	1309	974	619	776	681	12549
146.25 - 168.74 (157.5)	294	318	491	439	383	200	118	182	123	143	230	199	3120
168.75 - 191.24 (180.0)	189	236	367	334	309	231	303	175	100	58	141	240	2683
191.25 - 213.74 (202.5)	65	98	147	180	156	232	266	130	44	36	57	123	1534
213.75 - 236.24 (225.0)	88	144	163	182	128	234	324	159	34	59	81	166	1762
236.25 - 258.74 (247.5)	104	126	99	115	55	113	163	53	9	29	51	139	1056
258.75 - 281.24 (270.0)	173	99	74	126	49	42	93	8	19	37	94	133	947
281.25 - 303.74 (292.5)	174	105	95	95	47	26	30	.	12	39	85	166	874
303.75 - 326.24 (315.0)	220	119	120	103	37	10	7	3	9	31	85	176	920
326.25 - 348.74 (337.5)	149	145	104	53	37	15	2	4	6	72	65	157	809
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.50 N, LONG: 78.75 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 39 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	946	1	.	.	.	.	.	.	.	.	947
1.00 - 1.99	712	175	.	.	.	.	.	.	.	.	887
2.00 - 2.99	.	32	.	.	.	.	.	.	.	.	32
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1658	208	0	0	0	0	0	0	0	0	1866

STATION: 39 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	781	24	.	.	.	.	.	.	.	.	805
1.00 - 1.99	211	1739	.	.	.	.	.	.	.	.	1950
2.00 - 2.99	.	359	21	.	.	.	.	.	.	.	380
3.00 - 3.99	.	.	14	.	.	.	.	.	.	.	14
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	992	2122	35	0	0	0	0	0	0	0	3149

STATION: 39 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	647	1105	1498	1225	787	400	95	35	29	5	5826
1.00 - 1.99	57	1330	897	788	491	238	80	24	6	.	3911
2.00 - 2.99	.	131	277	92	65	31	7	4	.	.	607
3.00 - 3.99	.	.	12	50	38	16	.	.	.	.	116
4.00 - 4.99	.	.	.	3	9	2	.	.	.	.	14
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	704	2566	2684	2159	1390	687	182	63	35	5	10475

STATION: 39 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	375	2133	8821	4808	913	122	33	7	13	5	17230
1.00 - 1.99	51	912	2519	2276	703	229	83	24	26	3	6826
2.00 - 2.99	.	27	365	452	164	73	81	29	7	1	1199
3.00 - 3.99	.	.	12	91	37	12	11	13	6	.	182
4.00 - 4.99	.	.	.	3	9	9	1	2	11	.	35
5.00 - 5.99	.	.	.	.	3	2	1	2	7	.	15
6.00 - 6.99	.	.	.	.	1	3	.	6	3	.	13
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	426	3072	11717	7630	1830	450	210	83	73	9	25500

STATION: 39 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	648	844	351	60	.	.	.	.	.	.	1903
1.00 - 1.99	98	1299	627	198	10	.	.	.	.	.	2232
2.00 - 2.99	.	51	334	178	24	.	.	.	.	.	587
3.00 - 3.99	.	.	8	67	35	.	.	.	.	.	110
4.00 - 4.99	.	.	.	.	10	1	.	.	.	.	11
5.00 - 5.99	.	.	.	.	1	1	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	746	2194	1320	503	80	2	0	0	0	0	4845

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.50 N, LONG: 78.75 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 39 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1154	134	27	.	.	.	.	.	.	.	1315
1.00 - 1.99	183	1560	52	1	.	.	.	.	.	.	1796
2.00 - 2.99	.	79	40	1	.	.	.	.	.	.	120
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1337	1773	120	2	0	0	0	0	0	0	3232

STATION: 39 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1125	1	.	.	.	.	.	.	.	.	1126
1.00 - 1.99	522	152	.	.	.	.	.	.	.	.	674
2.00 - 2.99	.	3	4	.	.	.	.	.	.	.	7
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1647	156	4	0	0	0	0	0	0	0	1807

STATION: 39 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	612	1	.	.	.	.	.	.	.	.	613
1.00 - 1.99	611	454	.	.	.	.	.	.	.	.	1065
2.00 - 2.99	.	48	.	.	.	.	.	.	.	.	48
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1223	503	0	0	0	0	0	0	0	0	1726

STATION: 39 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6288	4243	10697	6093	1700	522	128	42	42	10	29765
1.00 - 1.99	2445	7621	4095	3263	1204	467	163	48	32	3	19341
2.00 - 2.99	.	730	1041	723	253	104	88	33	7	1	2980
3.00 - 3.99	.	.	47	208	110	28	11	13	6	.	423
4.00 - 4.99	.	.	.	6	28	12	1	2	11	.	60
5.00 - 5.99	.	.	.	1	4	3	1	2	7	.	18
6.00 - 6.99	.	.	.	.	1	3	.	6	3	.	13
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8733	12594	15880	10294	3300	1139	392	146	108	14	52600

STATION: 39

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	233	170	224	277	467	541	605	905	733	328	224	268	4975
2.50 - 4.99	1341	1262	1421	1637	2290	2298	2509	2691	2080	1811	1658	1428	22426
5.00 - 7.49	892	942	1008	1021	989	931	990	607	730	1089	1014	942	11155
7.50 - 9.99	1062	992	1083	970	571	467	341	192	535	841	946	1089	9089
10.00 - 12.49	487	373	392	286	114	76	13	47	139	273	301	428	2929
12.50 - 14.99	326	241	273	110	33	6	2	18	73	110	141	255	1588
15.00 - 17.49	70	64	41	17	.	1	1	4	14	11	28	41	292
17.50 - 19.99	44	27	18	2	.	.	3	.	9	1	7	13	124
20.00 - GREATER	9	1	4	.	.	.	.	.	7	.	1	.	22
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.50 N, LONG: 78.75 W, DEPTH: 11 M

STATION: 39

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	709	659	461	375	315	191	96	193	306	687	562	697	5251
22.50 - 67.49 (45.0)	647	614	513	373	438	483	265	614	1259	1257	867	780	8110
67.50 - 112.49 (90.0)	346	320	447	343	558	597	396	688	826	802	541	294	6158
112.50 - 157.49 (135.0)	321	299	505	460	510	424	358	542	462	338	448	286	4953
157.50 - 202.49 (180.0)	343	444	703	748	935	742	800	742	418	260	429	392	6956
202.50 - 247.49 (225.0)	433	593	731	836	968	1229	1733	1109	542	367	406	629	9576
247.50 - 292.49 (270.0)	835	546	543	675	454	499	697	426	296	403	541	710	6625
292.50 - 337.49 (315.0)	830	597	561	510	286	155	119	150	211	350	526	676	4971
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 39

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.18	1.19	1.09	0.92	1.17	1.02	0.59	1.17	0.80	1.12	0.98	1.25	1.04
1977	1.06	1.05	1.18	1.16	0.78	0.60	0.59	0.68	0.63	1.16	1.38	1.15	0.95
1978	1.43	1.01	1.22	0.99	0.99	0.77	0.74	0.77	1.03	0.93	1.14	1.14	1.01
1979	1.43	1.31	1.27	1.15	1.12	1.03	0.86	0.76	1.59	0.92	1.36	1.03	1.15
1980	1.08	0.98	1.49	1.17	0.71	0.89	0.68	0.96	1.03	0.98	1.10	1.24	1.03
1981	0.84	1.55	1.07	1.08	0.93	0.74	0.75	0.83	0.91	1.03	0.91	1.00	0.97
1982	0.91	1.27	1.01	1.01	0.69	0.78	0.69	0.63	0.86	0.91	1.06	1.01	0.90
1983	1.26	1.34	1.37	1.05	1.02	0.86	0.70	0.69	0.84	1.27	1.11	1.47	1.08
1984	1.33	1.33	1.22	1.12	0.95	0.63	0.86	0.56	1.39	0.96	1.37	0.86	1.04
1985	1.09	1.13	1.18	1.00	0.87	0.66	0.79	0.69	1.25	1.34	1.26	0.99	1.02
1986	1.14	0.88	1.34	0.88	0.75	0.95	0.67	0.88	0.86	0.94	1.28	1.28	0.99
1987	1.25	1.25	1.13	0.95	0.90	0.85	0.68	0.79	0.85	0.90	1.05	0.97	0.96
1988	1.04	0.96	0.99	0.88	0.86	0.76	0.87	0.87	1.11	0.89	1.19	0.82	0.94
1989	1.07	1.12	1.23	1.07	0.85	0.94	0.88	0.95	1.83	1.10	1.03	0.96	1.08
1990	1.06	1.38	1.20	1.20	1.02	0.96	1.09	0.79	0.94	1.19	0.95	1.26	1.08
1991	1.10	0.99	1.35	1.10	1.02	0.97	0.80	0.78	1.27	1.09	0.98	1.08	1.04
1992	1.18	1.14	1.23	0.95	0.84	0.74	0.70	0.78	0.88	0.88	1.23	1.11	0.97
1993	1.49	1.12	1.35	1.13	0.88	0.77	0.57	0.84	0.79	1.10	1.29	0.96	1.02
MEAN	1.16	1.17	1.22	1.05	0.91	0.83	0.75	0.80	1.05	1.04	1.15	1.09	

STATION: 39

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	291014	311213	26 817	32 7 4	321013	20 7 9	16 522	501414	23 712	25 6 3	23 716	35 910	501414
1977	37 912	341016	311016	371119	22 812	14 426	12 5 7	10 812	14 5 7	27 912	261111	261018	371119
1978	451118	29 912	29 816	26 919	35 916	15 5 5	14 6 9	15 614	281312	27 8 9	24 6 5	27 818	451118
1979	371217	451110	401116	371113	22 819	23 7 8	14 6 9	221814	561316	26 910	321116	28 820	561316
1980	32 911	25 631	341014	381016	18 713	21 623	15 524	421915	261513	351010	30 911	411210	421915
1981	23 623	381115	371117	25 917	22 810	20 622	17 522	381016	331813	20 6 5	24 623	27 914	381016
1982	27 913	24 912	24 818	22 815	10 713	26 718	20 819	11 523	23 7 9	25 6 3	24 811	24 715	27 913
1983	411111	431010	501213	33 917	22 619	18 6 7	16 5 4	16 523	23 6 5	26 8 9	28 817	381010	501213
1984	29 7 4	381014	351118	311110	321019	13 913	20 819	12 713	641214	251213	34 7 5	251213	641214
1985	22 633	351017	28 813	33 820	23 6 5	20 623	431117	20 6 6	691713	421210	38 815	22 820	691713
1986	27 910	25 819	301017	23 719	22 7 9	291013	17 524	35 915	201210	27 8 9	31 910	401310	401310
1987	421011	371011	331116	19 714	17 5 7	17 619	16 5 7	18 710	191215	19 6 4	24 914	25 817	421011
1988	31 812	22 916	18 617	23 817	19 6 4	16 620	17 618	25 816	271613	24 711	311016	24 6 3	311016
1989	341112	26 6 4	26 7 4	21 619	22 717	25 819	191012	201012	691314	26 8 9	26 817	29 812	691314
1990	23 722	311015	281016	24 6 4	26 816	20 721	22 818	281614	191410	281113	341014	31 915	341014
1991	27 914	301017	351116	23 6 8	19 710	23 6 6	14 619	441314	401713	251012	25 6 3	29 917	441314
1992	321212	27 8 9	291013	23 6 4	17 610	12 5 8	15 622	18 618	20 6 6	21 6 3	27 811	24 7 9	321212
1993	341211	27 7 8	431215	28 916	17 521	13 814	9 812	301413	161310	25 810	331210	30 918	431215
MAX	451118	451110	501213	381016	35 916	291013	431117	501414	691314	421210	38 815	411210	

MAX Hmo(m): 6.9 MAX Tp(sec): 13. MAX Dp(deg): 144. DATE(gmt): 89092206

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 70. DATE(gmt): 89092203

MEAN Hmo(m): 1.0 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N LONG: 78.50 W DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 40

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	296	194	208	239	218	356	511	401	253	241	190	357	3464
0.50 - 0.99	1458	1423	1367	1746	2582	2835	3137	3208	2311	2053	1524	1721	25365
1.00 - 1.49	1510	1357	1531	1489	1246	944	690	624	1064	1408	1590	1293	14746
1.50 - 1.99	697	683	721	601	313	145	109	118	371	528	636	721	5643
2.00 - 2.49	311	241	414	157	73	33	11	47	156	180	279	272	2174
2.50 - 2.99	122	101	154	57	22	7	1	31	66	38	72	52	723
3.00 - 3.49	47	51	46	21	10	.	2	16	32	13	27	25	290
3.50 - 3.99	19	17	15	10	.	.	3	7	14	3	2	16	106
4.00 - 4.49	3	2	5	.	.	.	.	9	15	.	.	5	39
4.50 - 4.99	1	3	3	.	.	.	.	3	13	.	.	2	25
5.00 - 5.49	.	.	.	.	.	.	.	.	9	.	.	.	9
5.50 - 5.99	.	.	.	.	.	.	.	.	16	.	.	.	16
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 40

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	124	124	65	71	132	101	244	88	78	90	90	126	1333
4.0 - 4.9	608	568	458	439	348	472	526	358	385	503	414	643	5722
5.0 - 5.9	401	348	361	322	359	449	556	398	290	248	258	427	4417
6.0 - 6.9	191	293	334	352	562	647	386	593	387	336	276	244	4601
7.0 - 7.9	195	256	319	420	722	866	884	1053	818	468	363	227	6591
8.0 - 8.9	339	379	490	483	877	908	1089	988	619	707	533	410	7822
9.0 - 9.9	499	539	642	534	556	407	488	369	411	666	719	532	6362
10.0 - 10.9	595	509	539	471	287	175	166	158	324	413	535	409	4581
11.0 - 11.9	408	293	323	340	188	140	68	116	222	300	351	487	3236
12.0 - 12.9	328	135	252	215	145	55	38	93	178	294	162	217	2112
13.0 - 13.9	260	119	207	293	109	51	13	95	176	198	110	222	1853
14.0 - 14.9	208	157	198	217	106	30	5	62	124	121	214	209	1651
15.0 - 15.9	114	152	100	84	50	17	1	34	105	67	107	164	995
16.0 - 16.9	84	93	84	43	18	2	.	18	68	31	82	94	617
17.0 - 17.9	47	40	30	12	5	.	.	11	51	14	43	19	272
18.0 - 18.9	38	42	26	14	.	.	.	11	24	3	30	11	199
19.0 - 19.9	13	21	19	8	.	.	.	12	26	5	22	7	133
20.0 - LONGER	12	4	17	2	.	.	.	7	34	.	11	16	103
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 40

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	105	117	48	56	51	19	1	1	20	79	62	84	643
11.25 - 33.74 (22.5)	107	64	57	50	73	38	11	5	33	150	97	122	807
33.75 - 56.24 (45.0)	68	108	62	35	44	52	44	55	177	132	108	109	994
56.25 - 78.74 (67.5)	61	99	50	53	50	140	39	111	187	166	65	116	1137
78.75 - 101.24 (90.0)	1169	917	1085	1228	844	514	210	462	1018	1575	1194	1227	11443
101.25 - 123.74 (112.5)	435	406	496	418	602	454	347	802	969	897	875	512	7213
123.75 - 146.24 (135.0)	1234	1050	1154	1115	1608	1912	2398	2157	1431	1020	1125	952	17156
146.25 - 168.74 (157.5)	358	384	536	468	427	283	181	324	246	154	288	265	3914
168.75 - 191.24 (180.0)	210	275	400	375	368	315	361	231	120	63	161	269	3148
191.25 - 213.74 (202.5)	64	91	128	122	123	225	321	124	45	42	48	113	1446
213.75 - 236.24 (225.0)	56	119	109	106	99	215	279	127	30	49	47	120	1356
236.25 - 258.74 (247.5)	71	74	58	52	38	83	141	48	12	25	24	86	712
258.75 - 281.24 (270.0)	125	66	39	71	30	34	95	11	13	22	55	91	652
281.25 - 303.74 (292.5)	129	74	67	58	42	19	24	1	6	20	60	119	619
303.75 - 326.24 (315.0)	156	101	96	72	32	7	9	3	8	17	67	159	727
326.25 - 348.74 (337.5)	116	127	79	41	33	10	3	2	5	53	44	120	633
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.50 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 40 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	541	.	.	.	.	.	.	.	.	.	541
1.00 - 1.99	619	137	.	.	.	.	.	.	.	.	756
2.00 - 2.99	.	23	.	.	.	.	.	.	.	.	23
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1160	160	0	0	0	0	0	0	0	0	1320

STATION: 40 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	506	2	.	.	14	.	.	.	.	.	522
1.00 - 1.99	919	426	16	2	18	.	.	.	.	.	1381
2.00 - 2.99	.	62	3	2	.	.	.	.	.	.	67
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1425	490	19	4	32	0	0	0	0	0	1970

STATION: 40 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	454	612	1141	1491	2076	1759	731	190	59	7	8520
1.00 - 1.99	140	973	832	894	939	1130	601	144	56	3	5712
2.00 - 2.99	.	28	131	149	176	93	54	46	29	.	706
3.00 - 3.99	.	.	.	17	49	24	3	5	1	.	99
4.00 - 4.99	.	.	.	.	.	7	5	.	.	.	12
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	594	1613	2104	2551	3240	3013	1394	385	145	10	15049

STATION: 40 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	277	1534	7972	4544	913	113	30	10	10	4	15407
1.00 - 1.99	38	734	2295	2557	822	259	88	24	28	5	6850
2.00 - 2.99	.	15	275	478	182	80	84	27	6	.	1147
3.00 - 3.99	.	.	5	75	40	20	13	10	8	.	171
4.00 - 4.99	.	.	.	2	8	10	2	8	10	.	40
5.00 - 5.99	.	.	.	.	1	2	1	7	10	.	21
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	315	2283	10547	7656	1966	484	218	86	72	9	23636

STATION: 40 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	468	950	336	55	1	.	.	.	.	.	1810
1.00 - 1.99	73	1443	958	281	11	.	.	.	.	.	2766
2.00 - 2.99	.	33	408	320	40	.	.	.	.	.	801
3.00 - 3.99	.	.	3	74	48	1	.	.	.	.	126
4.00 - 4.99	.	.	.	.	9	3	.	.	.	.	12
5.00 - 5.99	.	.	.	.	1	3	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	541	2426	1705	730	110	7	0	0	0	0	5519

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.50 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 40 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	851	80	.	.	.	.	.	.	.	.	931
1.00 - 1.99	132	1326	11	.	.	.	.	.	.	.	1469
2.00 - 2.99	.	90	22	.	.	.	.	.	.	.	112
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	983	1496	33	0	0	0	0	0	0	0	2512

STATION: 40 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	772	1	.	.	.	.	.	.	.	.	773
1.00 - 1.99	381	98	4	.	.	.	.	.	.	.	483
2.00 - 2.99	.	2	.	2	.	.	.	.	.	.	4
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1153	101	4	2	0	0	0	0	0	0	1260

STATION: 40 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	325	.	.	.	.	.	.	.	.	.	325
1.00 - 1.99	559	413	.	.	.	.	.	.	.	.	972
2.00 - 2.99	.	36	1	.	.	.	.	.	.	.	37
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	884	449	1	0	0	0	0	0	0	0	1334

STATION: 40 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4194	3179	9449	6090	3004	1872	761	200	69	11	28829
1.00 - 1.99	2861	5550	4116	3734	1790	1389	689	168	84	8	20389
2.00 - 2.99	.	289	840	951	398	173	138	73	35	.	2897
3.00 - 3.99	.	.	8	166	137	45	16	15	9	.	396
4.00 - 4.99	.	.	.	2	17	20	7	8	10	.	64
5.00 - 5.99	.	.	.	.	2	5	1	7	10	.	25
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7055	9018	14413	10943	5348	3504	1612	471	217	19	52600

STATION: 40

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	223	171	222	270	458	527	606	898	692	333	220	243	4863
2.50 - 4.99	1333	1236	1414	1634	2256	2303	2525	2686	2125	1830	1659	1443	22444
5.00 - 7.49	875	955	993	993	997	936	983	610	730	1058	1005	934	11069
7.50 - 9.99	1096	997	1097	1002	597	478	330	205	534	859	957	1104	9256
10.00 - 12.49	492	385	402	292	123	68	14	44	134	266	308	411	2539
12.50 - 14.99	322	237	262	113	32	6	2	16	68	108	137	272	1575
15.00 - 17.49	73	62	48	14	1	1	2	4	20	8	25	40	298
17.50 - 19.99	41	29	21	2	.	1	2	1	8	2	9	17	133
20.00 - GREATER	9	.	5	.	.	.	.	.	9	.	.	.	23
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.50 W, DEPTH: 9 M

STATION: 40

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	728	670	471	409	329	201	102	196	329	704	567	715	5421
22.50 - 67.49 (45.0)	646	617	534	379	445	508	277	654	1244	1264	863	760	8191
67.50 - 112.49 (90.0)	332	291	432	325	543	579	400	651	807	750	520	289	5919
112.50 - 157.49 (135.0)	299	307	483	431	483	406	339	531	432	330	429	258	4728
157.50 - 202.49 (180.0)	349	431	673	748	909	704	766	706	436	269	436	391	6818
202.50 - 247.49 (225.0)	438	602	756	839	1007	1264	1737	1139	549	379	433	647	9790
247.50 - 292.49 (270.0)	839	550	548	677	448	491	709	440	324	410	543	727	6706
292.50 - 337.49 (315.0)	833	604	567	512	300	167	134	147	199	358	529	677	5027
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 40

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.18	1.22	1.11	0.97	1.16	0.99	0.59	1.14	0.83	1.11	0.95	1.23	1.04
1977	1.10	1.04	1.19	1.18	0.77	0.61	0.58	0.67	0.62	1.14	1.41	1.24	0.96
1978	1.43	1.09	1.24	1.04	1.01	0.74	0.72	0.76	1.02	0.99	1.11	1.13	1.02
1979	1.47	1.41	1.30	1.21	1.11	0.99	0.83	0.74	1.53	0.89	1.35	1.06	1.15
1980	1.28	1.09	1.63	1.23	0.74	0.90	0.68	0.95	1.05	0.97	1.22	1.32	1.09
1981	0.85	1.67	1.39	1.08	0.97	0.73	0.74	0.82	1.03	1.03	1.02	1.00	1.02
1982	0.98	1.26	1.00	1.00	0.71	0.81	0.69	0.60	0.86	1.05	1.06	1.01	0.91
1983	1.26	1.45	1.36	1.11	1.03	0.82	0.66	0.67	0.83	1.29	1.14	1.47	1.09
1984	1.38	1.32	1.27	1.16	0.96	0.63	0.86	0.55	1.32	1.02	1.33	0.90	1.06
1985	1.09	1.14	1.18	1.02	0.85	0.68	0.78	0.65	1.16	1.29	1.38	1.02	1.02
1986	1.14	0.94	1.35	0.98	0.88	0.93	0.66	0.93	0.87	0.94	1.24	1.27	1.01
1987	1.38	1.20	1.30	1.04	0.92	0.84	0.67	0.78	0.85	0.87	1.05	0.99	0.99
1988	1.08	0.97	0.98	0.94	0.85	0.74	0.85	0.85	1.07	0.88	1.20	0.94	0.95
1989	1.06	1.12	1.26	1.07	0.86	0.94	0.87	0.94	1.84	1.06	1.04	1.01	1.09
1990	1.07	1.35	1.17	1.21	1.02	0.94	1.06	0.81	0.94	1.19	0.94	1.27	1.08
1991	1.09	0.98	1.36	1.08	1.01	0.93	0.80	0.80	1.22	1.08	1.00	1.05	1.03
1992	1.18	1.10	1.22	0.96	0.84	0.73	0.67	0.76	0.82	0.86	1.19	1.16	0.96
1993	1.48	1.13	1.38	1.21	0.92	0.75	0.57	0.85	0.79	1.07	1.25	0.99	1.03
MEAN	1.19	1.19	1.26	1.08	0.92	0.82	0.74	0.79	1.04	1.04	1.16	1.11	

STATION: 40

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	271015	331018	26 818	281110	301014	16 717	16 621	491415	21 712	221313	21 716	331012	491415
1977	32 913	331017	311116	371118	22 812	13 525	11 4 6	11 523	1310 9	25 914	2712 9	271018	371118
1978	461217	26 913	28 917	251017	32 916	13 619	13 6 9	141114	331313	241312	2110 9	29 918	461217
1979	361218	471310	401117	381018	22 818	22 6 8	14 813	221715	501316	24 910	321116	28 918	501316
1980	30 912	22 632	34 918	381017	18 714	23 819	14 914	411916	281513	3311 9	3318 9	461410	461410
1981	23 819	3713 9	361117	24 918	21 816	20 623	18 621	391017	381813	22 624	24 819	25 814	391017
1982	27 914	23 913	24 721	22 915	10 714	29 817	21 819	12 524	19 7 9	301210	22 811	22 716	301210
1983	371010	381112	461214	33 917	23 818	16 6 8	13 4 4	16 622	1914 9	2512 9	27 817	351110	461214
1984	2714 9	371015	351217	291011	331018	14 913	23 819	12 813	571316	241214	3112 9	231213	571316
1985	23 635	321017	26 814	361018	19 5 4	22 623	391017	16 7 7	571715	361110	37 917	22 623	571715
1986	2514 9	27 819	31 917	24 818	1814 9	281014	19 623	341016	1812 9	25 810	27 8 9	391410	391410
1987	3813 9	351012	331117	20 622	15 913	17 619	14 518	15 6 8	191216	1610 9	24 916	25 817	3813 9
1988	29 913	23 916	18 617	22 916	18 717	15 520	17 618	24 816	271613	22 611	3011116	2316 9	3011116
1989	301112	22 718	23 917	20 619	21 717	24 918	191013	211113	571316	23 810	27 818	28 813	571316
1990	24 818	311018	281016	21 722	25 917	19 720	21 818	291615	1913 9	281114	35 915	31 916	35 915
1991	281014	34 918	361017	19 5 7	18 710	20 7 7	15 619	431315	461813	241012	21 5 3	29 917	461813
1992	341213	2210 8	311014	19 7 7	16 610	12 5 8	15 622	17 618	17 5 4	18 5 3	25 913	24 914	341213
1993	3713 9	25 818	451216	281016	17 620	13 814	10 522	321413	2713 9	21 718	3212 9	31 918	451216
MAX	461217	471310	461214	381017	331018	29 817	391017	491415	571316	361110	37 917	461410	

MAX Hmo(m): 5.7 MAX Tp(sec): 13. MAX Dp(deg): 158. DATE(gmt): 89092209

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 75. DATE(gmt): 89092203

MEAN Hmo(m): 1.0 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.5 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.00 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 41

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	216	140	152	164	133	240	284	265	195	181	150	260	2380
0.50 - 0.99	1197	1203	1122	1428	2265	2582	3026	3044	2112	1769	1266	1373	22387
1.00 - 1.49	1358	1263	1513	1539	1435	1187	939	833	1098	1461	1544	1152	15322
1.50 - 1.99	883	835	813	777	471	239	184	180	467	618	776	873	7116
2.00 - 2.49	495	346	485	269	112	58	23	60	200	296	390	566	3300
2.50 - 2.99	179	160	238	81	33	8	3	21	106	116	134	158	1237
3.00 - 3.49	84	81	82	42	9	6	2	24	56	18	39	50	493
3.50 - 3.99	30	30	36	12	6	.	3	16	15	5	21	16	190
4.00 - 4.49	14	11	15	6	.	.	.	8	18	.	.	8	80
4.50 - 4.99	5	3	4	2	.	.	.	7	13	.	.	6	40
5.00 - 5.49	1	.	1	.	.	.	.	3	10	.	.	2	17
5.50 - 5.99	2	.	3	.	.	.	.	3	30	.	.	.	38
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 41

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	65	61	34	28	72	24	49	41	37	46	57	38	552
4.0 - 4.9	433	427	349	331	306	366	545	299	236	343	299	393	4327
5.0 - 5.9	555	448	411	435	388	599	753	468	364	375	366	586	5748
6.0 - 6.9	369	372	390	435	663	717	447	614	504	524	402	393	5830
7.0 - 7.9	247	355	391	449	726	827	831	1048	853	515	414	294	6950
8.0 - 8.9	325	373	538	510	884	942	1097	997	638	708	503	440	7955
9.0 - 9.9	509	522	634	551	579	432	470	378	414	624	690	516	6319
10.0 - 10.9	541	516	528	456	280	171	153	155	335	391	513	384	4423
11.0 - 11.9	396	295	341	327	176	130	61	118	198	262	341	538	3183
12.0 - 12.9	302	122	218	192	129	44	38	99	154	279	147	194	1918
13.0 - 13.9	252	108	191	270	97	36	14	85	165	184	100	204	1706
14.0 - 14.9	185	142	175	194	100	18	4	68	114	110	208	199	1517
15.0 - 15.9	105	134	91	84	45	12	2	32	104	55	101	147	912
16.0 - 16.9	81	87	80	33	13	1	.	18	67	25	77	88	570
17.0 - 17.9	38	44	32	9	5	.	.	13	50	15	35	19	260
18.0 - 18.9	39	35	26	9	1	.	.	11	28	5	33	15	202
19.0 - 19.9	11	23	17	5	.	1	.	13	26	3	23	4	126
20.0 - LONGER	11	8	18	2	.	.	.	7	33	.	11	12	102
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 41

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	89	89	50	43	55	17	2	2	18	80	67	88	600
11.25 - 33.74 (22.5)	91	74	48	38	45	32	10	7	36	134	100	143	758
33.75 - 56.24 (45.0)	134	146	108	64	81	98	52	95	284	262	178	203	1705
56.25 - 78.74 (67.5)	70	99	57	57	51	126	55	82	180	223	104	99	1203
78.75 - 101.24 (90.0)	1072	827	996	1089	760	460	166	438	940	1378	1041	1027	10194
101.25 - 123.74 (112.5)	375	386	455	423	620	420	343	882	1002	877	844	463	7090
123.75 - 146.24 (135.0)	1066	947	995	944	1457	1719	2093	1912	1258	927	997	854	15169
146.25 - 168.74 (157.5)	349	322	461	487	334	315	262	357	276	173	305	257	3898
168.75 - 191.24 (180.0)	282	353	539	440	533	316	322	247	151	86	228	294	3791
191.25 - 213.74 (202.5)	95	151	210	214	207	394	475	217	75	46	76	174	2334
213.75 - 236.24 (225.0)	82	130	164	136	107	261	378	159	52	63	61	145	1738
236.25 - 258.74 (247.5)	125	108	76	102	52	105	190	52	24	46	56	151	1087
258.75 - 281.24 (270.0)	238	126	72	124	55	32	98	8	9	64	98	175	1099
281.25 - 303.74 (292.5)	138	85	67	64	44	14	10	4	4	24	66	124	644
303.75 - 326.24 (315.0)	153	110	101	55	29	5	6	2	6	23	65	157	712
326.25 - 348.74 (337.5)	105	119	65	40	34	6	2	.	5	58	34	110	578
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.00 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 41 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	373	1	.	.	.	.	.	.	.	.	374
1.00 - 1.99	632	98	.	.	15	.	.	.	.	.	745
2.00 - 2.99	.	30	7	.	20	.	.	.	.	.	57
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1005	129	7	0	35	0	0	0	0	0	1176

STATION: 41 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	372	55	1	.	.	.	.	.	.	.	428
1.00 - 1.99	154	1612	15	.	12	.	.	.	.	.	1793
2.00 - 2.99	.	311	327	4	17	.	.	.	.	.	659
3.00 - 3.99	.	.	8	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	526	1978	351	4	29	0	0	0	0	0	2888

STATION: 41 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	337	567	1028	1287	1621	1427	564	163	42	6	7042
1.00 - 1.99	45	821	828	794	955	1138	594	154	60	3	5392
2.00 - 2.99	.	21	152	138	135	114	91	50	35	.	736
3.00 - 3.99	.	.	1	29	82	25	3	7	.	.	147
4.00 - 4.99	.	.	.	.	6	24	4	.	.	.	34
5.00 - 5.99	.	.	.	.	.	2	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	382	1409	2009	2248	2799	2730	1256	374	137	9	13353

STATION: 41 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	220	1182	7129	3857	787	86	25	8	8	2	13304
1.00 - 1.99	40	651	2403	2921	784	240	72	24	25	7	7167
2.00 - 2.99	.	13	279	486	285	96	75	25	8	.	1267
3.00 - 3.99	.	.	4	104	53	25	44	5	5	.	240
4.00 - 4.99	.	.	.	1	5	3	.	7	5	.	21
5.00 - 5.99	.	.	.	.	.	5	2	10	14	.	31
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	260	1846	9815	7369	1914	455	218	79	65	9	22030

STATION: 41 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	365	941	345	66	3	2	.	1	1	.	1724
1.00 - 1.99	63	1490	1295	272	39	8	3	1	.	.	3171
2.00 - 2.99	.	30	596	565	53	5	.	.	1	.	1247
3.00 - 3.99	.	.	8	179	86	4	2	1	1	.	281
4.00 - 4.99	.	.	.	12	38	7	2	1	5	.	65
5.00 - 5.99	.	.	.	.	4	12	1	5	.	.	22
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	428	2461	2244	1091	223	38	8	9	8	0	6510

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.00 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 41 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	736	333	.	.	.	.	.	.	.	.	1069
1.00 - 1.99	96	1758	255	1	7	.	.	.	.	.	2117
2.00 - 2.99	.	36	195	27	11	.	.	.	.	.	269
3.00 - 3.99	.	.	1	2	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	832	2127	451	30	18	0	0	0	0	0	3458

STATION: 41 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	513	10	.	.	.	.	.	.	.	.	523
1.00 - 1.99	107	982	5	.	24	.	.	.	.	.	1118
2.00 - 2.99	.	190	14	.	26	.	.	.	.	.	230
3.00 - 3.99	.	.	4	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	620	1182	23	0	50	0	0	0	0	0	1875

STATION: 41 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	302	1	.	.	.	.	.	.	.	.	303
1.00 - 1.99	524	401	.	.	10	.	.	.	.	.	935
2.00 - 2.99	.	44	5	.	23	.	.	.	.	.	72
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	826	446	5	0	33	0	0	0	0	0	1310

STATION: 41 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3218	3090	8503	5210	2411	1515	589	172	51	8	24767
1.00 - 1.99	1661	7813	4801	3988	1846	1386	669	179	85	10	22438
2.00 - 2.99	.	675	1575	1217	570	215	166	75	44	.	4537
3.00 - 3.99	.	.	26	314	221	54	49	13	6	.	683
4.00 - 4.99	.	.	.	13	49	34	6	8	10	.	120
5.00 - 5.99	.	.	.	.	4	19	3	15	14	.	55
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4879	11578	14905	10742	5101	3223	1482	462	210	18	52600

STATION: 41

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	219	181	229	282	435	506	578	889	696	325	227	243	4810
2.50 - 4.99	1272	1171	1362	1580	2201	2220	2441	2636	2082	1767	1580	1395	21707
5.00 - 7.49	881	929	974	947	1021	991	1041	631	727	1056	997	875	11070
7.50 - 9.99	1090	1012	1099	1048	636	510	379	237	552	902	982	1111	9558
10.00 - 12.49	509	404	427	319	130	81	19	46	150	276	334	470	3165
12.50 - 14.99	356	276	278	124	40	8	4	13	68	122	164	306	1759
15.00 - 17.49	80	70	63	18	1	2	2	7	13	13	25	34	328
17.50 - 19.99	46	29	25	2	.	1	.	5	16	3	11	28	166
20.00 - GREATER	11	.	7	.	.	1	.	.	16	.	.	2	37
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 33.75 N, LONG: 78.00 W, DEPTH: 9 M

STATION: 41

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	773	675	502	432	357	215	108	205	361	724	607	756	5715
22.50 - 67.49 (45.0)	618	616	556	381	453	510	280	675	1256	1247	864	744	8200
67.50 - 112.49 (90.0)	318	294	414	323	520	563	367	593	749	732	497	269	5639
112.50 - 157.49 (135.0)	298	287	461	410	461	391	336	529	428	324	420	261	4606
157.50 - 202.49 (180.0)	346	435	668	756	916	717	782	691	430	273	446	391	6851
202.50 - 247.49 (225.0)	442	613	765	826	1028	1290	1782	1173	582	385	428	639	9953
247.50 - 292.49 (270.0)	822	533	539	694	442	477	692	450	328	414	542	721	6654
292.50 - 337.49 (315.0)	847	619	559	498	287	157	117	148	186	365	516	683	4982
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 41

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.32	1.37	1.20	1.09	1.28	1.06	0.70	1.25	0.90	1.25	1.09	1.41	1.16
1977	1.22	1.16	1.27	1.31	0.83	0.73	0.67	0.72	0.65	1.27	1.49	1.35	1.05
1978	1.59	1.24	1.35	1.17	1.13	0.79	0.79	0.81	1.13	1.06	1.23	1.27	1.13
1979	1.60	1.52	1.37	1.29	1.24	1.08	0.90	0.81	1.68	0.96	1.47	1.19	1.26
1980	1.41	1.21	1.78	1.42	0.83	1.01	0.77	1.05	1.14	1.07	1.32	1.49	1.21
1981	0.97	1.86	1.52	1.18	1.07	0.84	0.81	0.89	1.14	1.16	1.15	1.15	1.14
1982	1.15	1.38	1.10	1.11	0.76	0.90	0.76	0.66	0.95	1.15	1.14	1.09	1.01
1983	1.40	1.59	1.50	1.22	1.10	0.89	0.74	0.72	0.95	1.40	1.25	1.63	1.20
1984	1.57	1.48	1.44	1.33	1.08	0.69	0.93	0.59	1.50	1.09	1.49	0.97	1.18
1985	1.28	1.30	1.26	1.12	0.93	0.75	0.83	0.70	1.28	1.37	1.49	1.14	1.12
1986	1.33	1.06	1.52	1.10	0.96	1.01	0.76	1.04	0.94	1.06	1.34	1.42	1.13
1987	1.58	1.32	1.44	1.17	0.98	0.91	0.73	0.85	0.92	0.96	1.14	1.13	1.09
1988	1.22	1.09	1.09	1.05	0.95	0.82	0.91	0.93	1.19	0.99	1.36	2.04	1.14
1989	1.22	1.27	1.39	1.22	0.97	1.01	0.97	1.03	2.04	1.22	1.18	1.14	1.22
1990	1.23	1.54	1.32	1.32	1.14	1.03	1.15	0.87	1.03	1.29	1.05	1.42	1.20
1991	1.25	1.11	1.55	1.17	1.09	1.05	0.90	0.89	1.38	1.19	1.12	1.21	1.16
1992	1.37	1.25	1.39	1.07	0.94	0.80	0.78	0.85	0.92	0.96	1.32	1.32	1.08
1993	1.70	1.27	1.60	1.35	0.99	0.82	0.64	0.94	0.86	1.20	1.45	1.16	1.17
MEAN	1.36	1.33	1.39	1.21	1.01	0.90	0.82	0.87	1.14	1.15	1.28	1.31	

STATION: 41

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	27 915	391016	28 918	3511 9	321014	20 6 5	19 819	571416	22 813	28 7 3	23 625	341112	571416
1977	37 911	331018	361017	451119	23 813	18 623	14 5 5	12 523	1410 9	291014	281112	321119	451119
1978	571319	31 913	28 918	291018	381018	14 5 4	14 6 8	151114	391313	281312	25 7 5	311019	571319
1979	471218	481310	451117	381019	27 918	23 7 8	17 610	261715	471217	24 910	391117	30 920	481310
1980	31 911	24 631	391019	451017	18 714	24 822	16 915	491916	321513	3512 9	3318 9	521310	521310
1981	25 821	4213 9	401118	271018	23 817	22 821	18 721	421018	451813	25 723	26 821	28 814	451813
1982	29 914	25 913	29 819	27 916	12 518	34 918	22 920	15 623	21 6 5	331210	23 7 9	22 716	34 918
1983	381112	381011	461214	34 918	24 918	20 6 4	15 6 5	17 722	23 7 5	28 7 6	28 818	361210	461214
1984	3312 9	371016	431119	351017	381019	16 914	25 920	13 813	571316	281214	3712 9	241113	571316
1985	26 727	411018	26 821	341119	24 7 4	24 921	391018	21 7 5	571614	381110	38 918	26 919	571614
1986	28 7 4	30 920	371117	27 819	21 6 5	321015	20 821	421017	21 6 5	27 7 7	28 8 8	421310	421310
1987	461310	361112	391216	22 820	16 913	18 620	15 6 6	18 6 8	231216	20 6 4	27 916	28 818	461310
1988	29 812	29 728	19 623	27 917	19 6 4	17 818	18 619	22 816	311614	20 711	361117	3016 9	361117
1989	351011	28 7 3	29 8 3	22 627	23 917	26 919	211013	241113	571317	26 910	29 919	26 812	571317
1990	32 918	341119	321017	24 7 5	28 918	20 820	231115	361615	201410	301115	381016	351017	381016
1991	321015	351019	431117	21 6 7	18 710	24 7 5	16 620	531316	551813	251012	27 7 3	34 918	551813
1992	381018	29 8 4	351014	25 7 4	19 6 5	13 717	16 623	171016	21 7 5	24 7 4	26 917	30 916	381018
1993	421310	26 920	571317	32 917	17 720	14 815	11 523	371413	2613 9	23 918	371213	351018	571317
MAX	571319	481310	571317	451017	381019	34 918	391018	571416	571317	381110	391117	521310	

MAX Hmo(m): 5.7 MAX Tp(sec): 13. MAX Dp(deg): 169. DATE(gmt): 93031400

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 75. DATE(gmt): 84091118

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.00 N, LONG: 77.75 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 42

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	267	180	198	226	150	288	354	271	206	188	197	309	2834
0.50 - 0.99	1304	1299	1203	1506	2252	2580	3033	3011	2038	1749	1197	1460	22632
1.00 - 1.49	1346	1222	1396	1459	1462	1144	876	850	1018	1360	1537	1120	14790
1.50 - 1.99	862	804	837	726	449	246	169	181	523	744	802	804	7147
2.00 - 2.49	392	291	481	258	106	46	22	56	237	252	329	531	3001
2.50 - 2.99	149	155	208	81	29	7	6	19	111	118	153	159	1195
3.00 - 3.49	81	73	93	45	14	8	4	13	67	35	80	36	549
3.50 - 3.99	38	24	31	10	2	1	.	23	36	14	21	12	212
4.00 - 4.49	16	16	9	9	.	.	.	15	21	4	4	13	107
4.50 - 4.99	4	4	4	.	.	.	.	7	11	.	.	8	38
5.00 - 5.49	4	4	1	.	.	.	.	9	12	.	.	4	34
5.50 - 5.99	1	.	3	.	.	.	.	9	40	.	.	8	61
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 42

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	128	138	77	61	106	59	169	45	50	74	81	115	1103
4.0 - 4.9	501	481	359	402	261	304	417	267	203	324	345	502	4366
5.0 - 5.9	436	396	374	330	348	565	636	435	413	392	303	514	5142
6.0 - 6.9	242	277	344	347	596	646	443	550	391	351	284	255	4726
7.0 - 7.9	227	303	388	453	697	861	781	1002	814	518	354	245	6643
8.0 - 8.9	333	426	499	605	914	1037	1175	1125	743	766	575	408	8606
9.0 - 9.9	573	517	665	593	712	506	550	458	519	771	771	565	7200
10.0 - 10.9	657	618	612	576	354	212	180	175	330	483	621	497	5315
11.0 - 11.9	483	376	410	346	189	89	64	109	159	274	395	608	3502
12.0 - 12.9	314	115	228	202	113	23	32	71	129	219	131	213	1790
13.0 - 13.9	234	117	177	165	79	9	11	67	153	144	96	178	1430
14.0 - 14.9	103	68	112	96	35	3	5	61	94	46	125	114	862
15.0 - 15.9	75	68	58	97	40	2	1	32	97	53	79	142	744
16.0 - 16.9	52	71	63	21	14	1	.	20	85	18	63	69	477
17.0 - 17.9	44	36	42	7	4	.	.	10	48	23	43	28	285
18.0 - 18.9	38	32	8	7	2	.	.	14	27	3	13	8	152
19.0 - 19.9	10	23	15	3	.	3	.	11	30	3	22	2	122
20.0 - LONGER	14	10	33	9	.	.	.	12	35	2	19	1	135
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 42

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	110	123	65	70	59	19	4	1	16	85	77	138	767
11.25 - 33.74 (22.5)	97	75	49	32	48	40	9	6	39	109	92	164	760
33.75 - 56.24 (45.0)	101	114	78	46	51	76	44	85	195	187	107	133	1217
56.25 - 78.74 (67.5)	71	105	63	49	63	124	57	83	166	167	85	96	1129
78.75 - 101.24 (90.0)	1065	809	935	1049	820	433	216	513	1155	1578	1123	1046	10742
101.25 - 123.74 (112.5)	1325	1131	1222	1093	1480	1451	1588	2109	1758	1518	1572	1081	17328
123.75 - 146.24 (135.0)	493	463	618	636	772	1005	1138	885	631	413	512	427	7993
146.25 - 168.74 (157.5)	252	284	435	383	355	175	72	180	108	101	224	193	2762
168.75 - 191.24 (180.0)	244	297	401	414	426	390	402	278	120	70	177	304	3523
191.25 - 213.74 (202.5)	81	117	150	160	139	272	378	145	62	46	53	166	1769
213.75 - 236.24 (225.0)	86	113	140	111	91	219	305	123	42	51	64	133	1478
236.25 - 258.74 (247.5)	45	79	39	63	28	66	140	42	10	31	29	89	661
258.75 - 281.24 (270.0)	108	60	32	58	25	23	86	8	5	15	49	86	555
281.25 - 303.74 (292.5)	107	68	48	50	36	16	15	4	6	19	51	102	522
303.75 - 326.24 (315.0)	152	90	99	70	33	6	8	2	5	19	62	163	709
326.25 - 348.74 (337.5)	127	144	90	36	38	5	2	.	2	55	43	143	685
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.00 N, LONG: 77.75 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 42 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	524										524
1.00 - 1.99	676	153			23						852
2.00 - 2.99		37			37						74
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1200	190	0	0	60	0	0	0	0	0	1450

STATION: 42 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	460	9									469
1.00 - 1.99	173	1356			10						1539
2.00 - 2.99		237	17	2	21						277
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	633	1602	17	2	31	0	0	0	0	0	2285

STATION: 42 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	373	621	2154	2420	1500	965	545	163	48	10	8799
1.00 - 1.99	53	980	1386	2152	1291	626	378	160	73	10	7109
2.00 - 2.99		42	319	371	328	162	52	18	22		1314
3.00 - 3.99			7	72	132	47	16	3	5		282
4.00 - 4.99				7	31	28	4	1			71
5.00 - 5.99					7	9	8	4			28
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	426	1643	3866	5022	3289	1837	1003	349	148	20	17603

STATION: 42 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	182	1076	6521	3540	638	85	25	6	11		12084
1.00 - 1.99	35	703	2283	2446	649	192	54	27	24	9	6422
2.00 - 2.99		11	371	499	273	116	72	28	11		1381
3.00 - 3.99			5	161	79	25	60	5	6	1	342
4.00 - 4.99				8	25	10	2	6	6		57
5.00 - 5.99					6	17	5	16	21		65
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	217	1790	9180	6654	1670	445	218	88	79	10	20351

STATION: 42 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	368	1052	362	47							1829
1.00 - 1.99	78	1367	1162	273	36	1					2917
2.00 - 2.99		33	370	415	51	5					874
3.00 - 3.99			2	88	46	1					137
4.00 - 4.99				3	13	1					17
5.00 - 5.99						2					2
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	446	2452	1896	826	146	10	0	0	0	0	5776

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.00 N, LONG: 77.75 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 42 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	683	178	.	.	4	.	.	.	.	.	861
1.00 - 1.99	143	1442	166	11	21	.	.	.	.	.	1755
2.00 - 2.99	.	19	116	.	.	.	.	.	.	.	167
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	826	1639	282	11	25	0	0	0	0	0	2783

STATION: 42 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	581	3	.	.	1	.	.	.	.	.	584
1.00 - 1.99	283	96	5	.	11	.	.	.	.	.	395
2.00 - 2.99	.	3	2	.	27	.	.	.	.	.	32
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	864	102	7	0	38	0	0	0	0	0	1011

STATION: 42 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	316	.	.	.	.	.	.	.	.	.	316
1.00 - 1.99	541	397	.	.	10	.	.	.	.	.	948
2.00 - 2.99	.	53	1	.	23	.	.	.	.	.	77
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	857	450	1	0	33	0	0	0	0	0	1341

STATION: 42 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3487	2939	9037	6007	2138	1050	570	169	59	10	25466
1.00 - 1.99	1982	6494	5002	4871	2034	819	432	187	97	19	21937
2.00 - 2.99	.	435	1196	1298	781	283	124	46	33	.	4196
3.00 - 3.99	.	.	14	321	257	73	76	8	11	1	761
4.00 - 4.99	.	.	.	18	69	39	6	7	6	.	145
5.00 - 5.99	.	.	.	.	13	28	13	20	21	.	95
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5469	9868	15249	12515	5292	2292	1221	437	227	30	52600

STATION: 42

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	209	176	211	274	441	510	590	897	683	345	225	231	4792
2.50 - 4.99	1280	1165	1359	1570	2150	2211	2454	2626	2091	1748	1577	1388	21619
5.00 - 7.49	864	930	997	946	1029	982	999	633	738	1044	992	874	11028
7.50 - 9.99	1105	1017	1085	1051	659	524	397	243	551	923	989	1137	9681
10.00 - 12.49	518	373	432	329	144	80	19	38	150	262	337	445	3127
12.50 - 14.99	352	314	280	131	40	9	5	19	64	126	164	324	1828
15.00 - 17.49	82	66	69	17	1	1	.	2	12	13	26	32	321
17.50 - 19.99	43	31	25	2	.	2	.	4	9	3	9	32	160
20.00 - GREATER	11	.	6	.	.	1	.	2	22	.	1	1	44
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.00 N, LONG: 77.75 W, DEPTH: 9 M

STATION: 42

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	814	693	520	460	374	212	112	218	376	707	630	779	5895
22.50 - 67.49 (45.0)	594	619	550	381	457	536	291	695	1270	1248	854	712	8207
67.50 - 112.49 (90.0)	306	279	417	316	512	537	374	572	720	703	473	261	5470
112.50 - 157.49 (135.0)	275	289	442	379	432	397	303	503	421	314	402	230	4387
157.50 - 202.49 (180.0)	354	421	649	772	908	681	750	663	417	284	456	409	6764
202.50 - 247.49 (225.0)	468	612	776	825	1055	1310	1803	1200	597	403	454	659	10162
247.50 - 292.49 (270.0)	811	539	536	696	429	474	700	461	328	416	542	718	6650
292.50 - 337.49 (315.0)	842	620	574	491	297	173	131	152	191	389	509	696	5065
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 42

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.25	1.33	1.20	1.11	1.25	1.06	0.63	1.37	0.95	1.29	1.03	1.31	1.15
1977	1.12	1.10	1.22	1.43	0.82	0.67	0.64	0.72	0.66	1.28	1.64	1.25	1.05
1978	1.59	1.12	1.34	1.13	1.12	0.79	0.77	0.81	1.29	1.06	1.31	1.20	1.13
1979	1.55	1.48	1.48	1.24	1.23	1.07	0.87	0.84	1.70	0.98	1.47	1.13	1.25
1980	1.28	1.07	1.66	1.31	0.79	1.02	0.78	1.06	1.23	1.12	1.22	1.61	1.18
1981	0.93	1.90	1.35	1.18	1.09	0.79	0.80	0.88	1.24	1.18	1.04	1.08	1.12
1982	1.03	1.35	1.08	1.10	0.76	0.89	0.75	0.65	0.97	1.12	1.23	1.05	1.00
1983	1.42	1.50	1.47	1.16	1.10	0.90	0.71	0.71	0.95	1.47	1.28	1.63	1.19
1984	1.53	1.44	1.41	1.22	1.06	0.70	0.92	0.58	1.60	1.11	1.50	1.04	1.17
1985	1.14	1.22	1.27	1.10	0.91	0.73	0.81	0.71	1.27	1.43	1.47	1.07	1.09
1986	1.25	1.02	1.52	1.03	0.88	1.01	0.73	1.01	1.03	1.01	1.38	1.44	1.11
1987	1.50	1.28	1.29	1.17	1.01	0.88	0.71	0.87	0.95	0.99	1.14	1.06	1.07
1988	1.22	1.06	1.09	1.00	0.93	0.81	0.90	0.92	1.21	0.98	1.33	2.06	1.13
1989	1.22	1.26	1.39	1.20	0.96	1.00	0.95	1.10	2.11	1.19	1.26	1.05	1.22
1990	1.22	1.51	1.32	1.33	1.12	1.02	1.15	0.90	1.14	1.34	1.05	1.47	1.21
1991	1.23	1.09	1.51	1.15	1.10	1.04	0.90	0.90	1.43	1.22	1.11	1.16	1.15
1992	1.36	1.24	1.39	1.05	0.95	0.77	0.73	0.83	0.92	1.00	1.30	1.30	1.07
1993	1.66	1.22	1.59	1.28	1.01	0.82	0.62	0.99	0.86	1.21	1.49	1.14	1.16
MEAN	1.31	1.29	1.37	1.18	1.00	0.89	0.80	0.88	1.20	1.17	1.29	1.28	

STATION: 42

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	27 914	361213	27 917	431110	331013	20 6 7	17 819	571710	261410	2710 9	23 724	361010	571710
1977	371013	311016	341015	431118	23 812	15 621	15 5 6	13 622	161010	311013	341210	291118	431118
1978	561318	30 910	27 916	271017	341017	14 5 4	12 718	161212	501311	361311	281010	28 921	561318
1979	431217	521310	411116	381113	26 918	24 8 9	18 812	271713	431215	26 910	381116	29 822	521310
1980	331110	261112	371018	411116	18 713	25 821	17 914	521915	351512	3812 9	34 911	571510	571510
1981	22 920	431310	381117	281016	26 8 9	20 919	17 721	37 916	511812	25 818	24 918	29 813	511812
1982	29 913	26 912	24 721	27 915	12 517	361015	22 820	15 624	21 7 9	401210	321410	21 816	401210
1983	371111	4010 9	461212	30 917	24 918	18 6 6	15 5 5	17 721	23 6 6	3110 9	281510	411110	461212
1984	361110	341015	391118	341016	351118	17 912	24 919	13 812	571110	331111	381110	251112	571110
1985	25 635	361117	26 912	331012	22 6 3	23 822	331017	20 6 5	571612	411110	34 916	24 918	571612
1986	26 7 5	27 919	361116	24 818	21 8 9	311014	20 722	431015	221010	28 910	29 8 9	491310	491310
1987	521210	401110	401215	20 714	17 912	17 619	15 5 6	16 623	251215	201110	28 915	281012	521210
1988	29 911	271015	20 719	26 917	18 7 8	17 519	18 618	21 815	331612	231510	341116	2811 3	341116
1989	401110	281110	29 9 9	21 814	23 916	25 919	211012	261111	571316	27 8 9	311410	30 810	571316
1990	281016	341015	311016	24 810	28 916	19 721	251012	391613	361510	301113	37 914	331016	391613
1991	331014	331018	411216	21 810	19 7 9	25 6 6	17 619	571314	571812	301210	28 8 7	33 917	571812
1992	421212	3210 9	361013	25 910	18 7 9	13 614	17 623	171015	20 6 4	23 6 4	27 916	32 914	421212
1993	451310	25 819	571316	311015	181310	14 814	11 523	541410	381410	23 7 9	421212	321016	571316
MAX	561318	521310	571316	431118	351118	361015	331017	571314	571812	411110	421212	571510	

MAX Hmo(m): 5.7 MAX Tp(sec): 13. MAX Dp(deg): 155. DATE(gmt): 93031403

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 90. DATE(gmt): 84091121

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N LONG: 77.50 W DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 43

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	362	252	277	312	211	358	508	372	269	290	269	458	3938
0.50 - 0.99	1435	1421	1355	1680	2435	2642	2947	3142	2265	1977	1493	1656	24448
1.00 - 1.49	1408	1223	1413	1337	1262	1009	784	698	1091	1401	1472	1160	14258
1.50 - 1.99	691	664	637	587	386	221	182	145	347	520	639	697	5716
2.00 - 2.49	310	289	419	220	99	60	32	38	188	190	286	322	2453
2.50 - 2.99	147	103	200	101	44	23	6	17	58	59	105	91	954
3.00 - 3.49	72	67	95	53	22	3	5	21	16	14	40	48	456
3.50 - 3.99	28	38	40	19	4	1	.	23	19	8	16	12	208
4.00 - 4.49	6	12	15	11	1	2	.	4	23	5	.	5	84
4.50 - 4.99	2	2	9	.	.	1	.	3	10	.	.	5	32
5.00 - 5.49	1	1	2	.	.	.	.	1	12	.	.	7	24
5.50 - 5.99	1	.	2	.	.	.	.	.	6	.	.	2	11
6.00 - 6.49	1	.	.	.	.	.	.	.	4	.	.	1	6
6.50 - 6.99	.	.	.	.	.	.	.	.	4	.	.	.	4
7.00 - 7.49	.	.	.	.	.	.	.	.	3	.	.	.	3
7.50 - 7.99	.	.	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	1	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 43

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	207	242	122	121	150	112	241	86	76	137	134	215	1843
4.0 - 4.9	769	697	562	534	423	487	514	377	411	616	556	828	6774
5.0 - 5.9	548	485	457	448	516	576	731	534	400	404	410	558	6067
6.0 - 6.9	253	356	478	503	790	950	685	933	613	494	382	333	6770
7.0 - 7.9	251	338	468	538	789	917	870	1007	810	641	461	331	7421
8.0 - 8.9	393	407	568	539	733	709	834	771	562	642	545	391	7094
9.0 - 9.9	471	438	505	499	469	295	382	248	372	496	592	479	5246
10.0 - 10.9	501	444	466	397	236	149	118	136	262	341	471	374	3895
11.0 - 11.9	348	255	264	263	121	94	48	93	154	219	296	346	2501
12.0 - 12.9	275	86	187	189	105	20	27	83	149	222	119	175	1637
13.0 - 13.9	183	73	120	110	56	5	9	55	119	122	59	153	1064
14.0 - 14.9	87	58	90	74	34	3	5	55	81	46	113	73	719
15.0 - 15.9	57	54	43	76	30	3	.	26	100	42	70	112	613
16.0 - 16.9	44	48	52	11	9	.	.	17	81	14	43	65	384
17.0 - 17.9	30	37	33	5	3	.	.	10	43	20	28	20	229
18.0 - 18.9	25	25	7	5	.	.	.	12	28	5	10	8	125
19.0 - 19.9	9	16	7	3	.	.	.	8	21	3	16	2	85
20.0 - LONGER	13	13	35	5	.	.	.	13	38	.	15	1	133
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 43

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	172	188	98	91	88	29	7	2	27	122	118	171	1113
11.25 - 33.74 (22.5)	178	142	99	57	74	52	13	11	73	204	136	231	1270
33.75 - 56.24 (45.0)	82	144	78	62	68	98	57	106	227	169	119	133	1343
56.25 - 78.74 (67.5)	75	83	56	59	46	96	61	72	119	137	69	58	931
78.75 - 101.24 (90.0)	504	414	500	731	536	379	204	351	847	1143	574	590	6773
101.25 - 123.74 (112.5)	1310	1023	1206	930	1234	1046	1182	1767	1809	1534	1679	1183	15903
123.75 - 146.24 (135.0)	584	538	641	691	897	1147	1248	1184	771	551	608	480	9340
146.25 - 168.74 (157.5)	323	311	461	458	366	272	129	226	118	126	273	216	3279
168.75 - 191.24 (180.0)	271	308	486	466	572	395	447	316	147	103	213	304	4028
191.25 - 213.74 (202.5)	105	152	201	233	212	318	420	190	75	70	82	183	2241
213.75 - 236.24 (225.0)	106	166	183	143	142	301	382	160	65	77	96	202	2023
236.25 - 258.74 (247.5)	82	115	89	96	56	106	172	53	19	37	42	107	974
258.75 - 281.24 (270.0)	158	88	49	89	46	40	109	19	7	37	82	114	838
281.25 - 303.74 (292.5)	158	96	64	73	44	28	19	4	5	35	69	131	726
303.75 - 326.24 (315.0)	182	122	134	83	32	6	9	3	8	36	90	179	884
326.25 - 348.74 (337.5)	174	182	119	58	51	7	5	.	3	83	70	182	934
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 43 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	883	1	.	.	.	.	.	.	.	.	884
1.00 - 1.99	926	257	.	.	.	.	.	.	.	.	1183
2.00 - 2.99	.	75	.	.	.	.	.	.	.	.	75
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1809	335	0	0	0	0	0	0	0	0	2144

STATION: 43 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	682	17	.	.	.	.	.	.	.	.	699
1.00 - 1.99	1057	503	.	.	.	.	.	.	.	.	1560
2.00 - 2.99	.	159	1	.	.	.	.	.	.	.	160
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1739	682	1	0	0	0	0	0	0	0	2422

STATION: 43 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	505	1143	1607	1539	1462	954	482	136	50	8	7886
1.00 - 1.99	107	1187	955	612	576	342	274	102	54	4	4213
2.00 - 2.99	.	81	237	88	105	19	5	.	12	.	547
3.00 - 3.99	.	1	44	49	21	7	1	.	.	.	123
4.00 - 4.99	.	.	1	12	6	6	2	.	.	.	27
5.00 - 5.99	.	.	.	2	7	3	3	.	.	.	15
6.00 - 6.99	.	.	.	.	.	2	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	612	2412	2844	2302	2177	1333	767	238	116	12	12813

STATION: 43 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	243	2245	6758	3721	800	87	33	19	12	5	13923
1.00 - 1.99	44	1008	2019	1926	739	243	103	51	37	5	6175
2.00 - 2.99	.	56	337	347	215	78	82	20	7	.	1142
3.00 - 3.99	.	.	38	97	45	18	8	9	10	.	225
4.00 - 4.99	.	.	.	12	15	6	1	9	7	.	50
5.00 - 5.99	.	.	.	2	3	1	1	4	3	.	14
6.00 - 6.99	.	.	.	.	.	2	.	1	4	.	7
7.00 - 7.99	.	.	.	.	.	3	.	2	.	.	5
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	1	.	.	.	1
TOTAL	287	3309	9152	6105	1817	438	230	116	80	10	21544

STATION: 43 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	493	1344	479	62	7	.	.	.	.	.	2385
1.00 - 1.99	95	1683	903	286	26	2	.	.	.	.	2995
2.00 - 2.99	.	111	580	180	40	1	.	.	.	.	912
3.00 - 3.99	.	.	70	156	34	2	.	.	.	.	262
4.00 - 4.99	.	.	.	17	18	3	.	.	.	.	38
5.00 - 5.99	.	.	.	.	3	3	.	.	.	.	6
6.00 - 6.99	.	.	.	.	.	1	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	588	3138	2032	701	128	12	0	0	0	0	6599

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 43 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	947	253	7	.	16	.	.	.	.	.	1223
1.00 - 1.99	182	1826	101	.	.	.	.	.	.	.	2109
2.00 - 2.99	.	79	333	8	.	.	.	.	.	.	420
3.00 - 3.99	.	.	24	23	.	.	.	.	.	.	47
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1129	2158	465	32	16	0	0	0	0	0	3800

STATION: 43 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	892	10	.	.	.	.	.	.	.	.	902
1.00 - 1.99	426	169	2	.	.	.	.	.	.	.	597
2.00 - 2.99	.	9	17	1	.	.	.	.	.	.	27
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1318	188	19	1	0	0	0	0	0	0	1526

STATION: 43 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	484	.	.	.	.	.	.	.	.	.	484
1.00 - 1.99	651	491	.	.	.	.	.	.	.	.	1142
2.00 - 2.99	.	122	2	.	.	.	.	.	.	.	124
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1135	615	2	0	0	0	0	0	0	0	1752

STATION: 43 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5129	5013	8851	5322	2285	1041	515	155	62	13	28386
1.00 - 1.99	3488	7124	3980	2824	1341	587	377	153	91	9	19974
2.00 - 2.99	.	692	1507	624	360	98	87	20	19	.	3407
3.00 - 3.99	.	8	176	325	100	27	9	9	10	.	664
4.00 - 4.99	.	.	1	42	39	15	3	9	7	.	116
5.00 - 5.99	.	.	.	4	13	7	4	4	3	.	35
6.00 - 6.99	.	.	.	.	.	5	.	1	4	.	10
7.00 - 7.99	.	.	.	.	.	3	.	2	.	.	5
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	1	.	.	.	1
TOTAL	8617	12837	14515	9141	4138	1783	997	354	196	22	52600

STATION: 43

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	219	199	204	287	462	514	609	917	669	364	250	245	4939
2.50 - 4.99	1257	1148	1378	1568	2101	2196	2431	2564	2086	1733	1534	1346	21342
5.00 - 7.49	849	901	975	936	1014	964	969	663	730	1032	988	890	10911
7.50 - 9.99	1127	1021	1080	1020	691	546	429	259	579	928	1005	1132	9817
10.00 - 12.49	520	376	430	350	152	83	21	38	152	260	326	451	3159
12.50 - 14.99	352	327	293	136	42	12	5	11	70	130	184	325	1887
15.00 - 17.49	88	69	67	20	2	1	.	7	10	15	25	36	340
17.50 - 19.99	39	30	26	3	.	2	.	4	6	2	7	37	156
20.00 - GREATER	13	1	11	.	.	2	.	1	18	.	1	2	49
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.50 W, DEPTH: 18 M

STATION: 43

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	832	712	543	486	377	230	118	234	382	723	665	805	6107
22.50 - 67.49 (45.0)	599	614	557	372	473	543	296	713	1262	1232	839	690	8190
67.50 - 112.49 (90.0)	286	276	407	307	497	517	374	563	710	675	452	249	5313
112.50 - 157.49 (135.0)	264	276	411	363	414	384	286	474	400	309	385	215	4181
157.50 - 202.49 (180.0)	347	413	642	775	886	645	719	637	408	300	468	403	6643
202.50 - 247.49 (225.0)	488	604	791	813	1080	1344	1800	1201	636	411	466	680	10314
247.50 - 292.49 (270.0)	803	552	526	718	434	468	731	482	323	425	545	718	6725
292.50 - 337.49 (315.0)	845	625	587	486	303	189	140	160	199	389	500	704	5127
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 43

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.21	1.35	1.16	1.01	1.25	1.04	0.62	1.16	0.85	1.12	0.99	1.27	1.08
1977	1.11	1.11	1.24	1.25	0.80	0.66	0.62	0.69	0.62	1.21	1.44	1.21	1.00
1978	1.46	1.03	1.29	1.14	1.11	0.75	0.74	0.76	1.06	0.93	1.10	1.16	1.04
1979	1.50	1.36	1.34	1.19	1.17	1.01	0.81	0.74	1.53	0.90	1.34	1.05	1.16
1980	1.21	1.00	1.63	1.27	0.79	1.05	0.76	0.91	1.03	0.98	1.16	1.39	1.10
1981	0.87	1.65	1.33	1.22	1.05	0.77	0.77	0.84	1.02	1.08	0.96	1.06	1.05
1982	1.03	1.24	1.02	1.07	0.70	0.89	0.74	0.62	0.87	0.98	1.08	1.00	0.93
1983	1.30	1.45	1.42	1.16	1.10	0.85	0.66	0.67	0.86	1.29	1.17	1.52	1.12
1984	1.31	1.36	1.33	1.21	1.07	0.68	0.93	0.54	1.53	0.98	1.32	0.90	1.09
1985	1.16	1.17	1.27	1.07	0.87	0.75	0.80	0.66	1.18	1.33	1.35	1.06	1.05
1986	1.14	0.95	1.41	0.96	0.84	0.98	0.72	0.97	0.85	0.95	1.23	1.32	1.03
1987	1.35	1.22	1.20	1.07	0.90	0.87	0.68	0.81	0.89	0.87	1.06	1.03	0.99
1988	1.08	1.03	1.05	1.02	0.90	0.78	0.91	0.93	1.06	0.88	1.34	0.91	0.99
1989	1.16	1.20	1.37	1.15	0.95	1.01	0.92	0.95	1.81	1.08	1.11	1.02	1.14
1990	1.15	1.46	1.25	1.21	1.12	0.98	1.09	0.81	0.95	1.19	0.95	1.32	1.12
1991	1.14	1.05	1.47	1.07	1.00	0.95	0.88	0.87	1.25	1.06	0.99	1.14	1.07
1992	1.25	1.17	1.27	0.98	0.89	0.76	0.73	0.80	0.86	0.86	1.20	1.20	1.00
1993	1.47	1.15	1.42	1.26	0.94	0.77	0.60	0.88	0.83	1.11	1.29	1.01	1.06
MEAN	1.22	1.22	1.30	1.13	0.97	0.86	0.78	0.81	1.06	1.04	1.17	1.14	

STATION: 43

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	30 915	401119	33 819	34 910	351013	19 618	18 721	511414	24 812	231312	30 822	33 822	511414
1977	36 8 9	39 917	39 917	441019	22 813	14 623	13 4 5	16 623	12 910	30 912	32 7 9	32 821	441019
1978	621319	25 914	33 818	32 921	33 917	16 619	14 5 8	14 614	331312	29 7 8	22 9 9	33 921	621319
1979	441218	501010	491116	431019	30 919	25 6 8	17 813	211613	421216	29 9 9	381116	36 920	501010
1980	351016	23 632	411019	441017	20 713	34 921	16 914	391915	26 8 9	4111 9	34 911	601411	601411
1981	23 723	441216	451117	371017	28 7 8	22 723	19 722	39 918	401812	30 821	29 822	29 720	451117
1982	27 913	23 912	27 719	28 916	13 518	461016	27 821	18 722	18 7 9	311112	28 817	23 716	461016
1983	40 9 9	381010	521111	30 815	30 919	16 5 4	14 4 4	20 722	19 5 4	27 7 8	29 817	33 7 8	521111
1984	291012	38 914	371218	371010	421019	16 913	31 920	12 713	771314	241212	28 6 4	25 721	771314
1985	29 635	37 916	32 821	401118	19 5 3	30 921	32 816	16 5 4	921613	40 9 9	38 816	28 723	921613
1986	25 631	28 820	39 918	28 819	19 622	281014	24 722	391113	161210	25 911	27 6 8	531310	531310
1987	38 911	441010	441216	23 722	15 912	19 619	17 618	19 721	24 717	161013	30 916	29 817	441216
1988	31 811	28 817	25 721	24 917	19 617	17 520	21 619	23 815	251612	20 610	381117	24 717	381117
1989	36 916	28 718	31 918	24 716	25 816	29 919	23 719	211112	661912	26 6 8	31 819	30 811	661912
1990	331017	37 916	341017	26 819	32 817	21 721	23 718	301613	191311	28 716	38 814	38 917	38 917
1991	36 914	40 921	401117	24 7 9	21 6 8	20 5 5	18 619	451213	501812	25 810	27 6 3	37 917	501812
1992	36 918	2611 9	32 913	23 816	18 612	14 513	20 623	17 619	18 5 3	20 5 3	32 818	34 814	36 918
1993	341211	30 820	581316	35 817	19 721	12 523	13 518	371412	241311	23 719	371212	36 919	581316
MAX	621319	501010	581316	441017	421019	461016	32 816	511414	921613	4111 9	38 814	601411	

MAX Hmo(m): 9.2 MAX Tp(sec): 16. MAX Dp(deg): 130. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 100. DATE(gmt): 84091200

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.6 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.25 W, DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 44

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	302	202	235	238	152	268	335	268	222	243	233	376	3074
0.50 - 0.99	1226	1290	1202	1517	2230	2517	2907	3086	2169	1812	1295	1502	22753
1.00 - 1.49	1432	1215	1435	1398	1403	1127	946	816	1057	1428	1511	1165	14933
1.50 - 1.99	760	736	714	683	475	300	218	172	476	607	738	752	6631
2.00 - 2.49	402	319	419	263	108	68	43	49	218	245	337	427	2898
2.50 - 2.99	187	158	246	120	59	26	11	18	71	88	114	128	1226
3.00 - 3.49	86	73	125	57	28	9	4	22	17	26	64	60	571
3.50 - 3.99	49	48	44	27	6	1	.	15	24	8	25	29	276
4.00 - 4.49	11	20	26	11	2	1	.	10	21	6	3	6	117
4.50 - 4.99	4	9	8	6	1	2	.	6	8	1	.	6	51
5.00 - 5.49	2	2	6	.	.	1	.	2	10	.	.	5	28
5.50 - 5.99	1	.	2	.	.	.	.	.	4	.	.	6	13
6.00 - 6.49	1	.	1	.	.	.	.	.	8	.	.	1	11
6.50 - 6.99	1	.	1	.	.	.	.	.	5	.	.	1	8
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	.	2
7.50 - 7.99	.	.	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	2	.	.	.	2
8.50 - 8.99	.	.	.	.	.	.	.	.	2	.	.	.	2
9.00 - 9.49	.	.	.	.	.	.	.	.	1	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	1	.	.	.	1
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 44

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	137	164	88	61	90	51	93	45	50	91	95	139	1104
4.0 - 4.9	700	652	521	509	395	450	595	373	303	532	484	779	6293
5.0 - 5.9	729	574	508	535	540	660	866	573	408	456	514	693	7056
6.0 - 6.9	336	431	506	587	853	1021	737	997	758	625	472	404	7727
7.0 - 7.9	287	362	522	537	869	933	890	1015	832	669	523	377	7816
8.0 - 8.9	391	412	588	550	703	681	754	730	574	653	519	412	6967
9.0 - 9.9	431	411	498	479	442	273	346	238	369	476	561	444	4968
10.0 - 10.9	453	441	441	373	227	152	110	123	248	314	435	348	3665
11.0 - 11.9	338	235	253	239	117	74	37	102	151	198	279	298	2321
12.0 - 12.9	251	79	164	165	95	15	24	70	122	206	101	150	1442
13.0 - 13.9	168	70	117	107	58	5	9	57	119	120	61	158	1049
14.0 - 14.9	79	50	84	82	35	3	3	56	83	45	108	72	700
15.0 - 15.9	51	54	39	64	29	2	.	28	93	38	65	102	565
16.0 - 16.9	41	46	53	12	8	.	.	16	81	12	38	63	370
17.0 - 17.9	28	36	31	8	3	.	.	9	45	22	20	15	217
18.0 - 18.9	23	24	9	5	.	.	.	12	27	4	10	7	121
19.0 - 19.9	9	19	8	2	.	.	.	7	25	3	17	2	92
20.0 - LONGER	12	12	34	5	.	.	.	13	32	.	18	1	127
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 44

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	139	162	80	84	75	26	7	2	29	109	109	172	994
11.25 - 33.74 (22.5)	148	121	86	55	55	46	10	16	36	148	107	177	1005
33.75 - 56.24 (45.0)	92	118	69	46	66	70	52	89	184	149	97	111	1143
56.25 - 78.74 (67.5)	125	165	98	96	81	140	79	94	246	321	177	163	1785
78.75 - 101.24 (90.0)	564	447	548	715	598	388	188	386	906	1090	610	631	7071
101.25 - 123.74 (112.5)	1010	837	966	817	1075	880	972	1568	1542	1346	1439	974	13426
123.75 - 146.24 (135.0)	590	539	673	637	882	1166	1264	1208	842	593	607	461	9462
146.25 - 168.74 (157.5)	339	299	457	477	337	277	142	259	154	139	277	219	3376
168.75 - 191.24 (180.0)	269	322	500	457	595	347	405	315	161	111	239	280	4001
191.25 - 213.74 (202.5)	122	163	231	275	274	392	522	228	87	61	94	191	2640
213.75 - 236.24 (225.0)	130	170	217	171	186	366	461	198	77	95	109	209	2389
236.25 - 258.74 (247.5)	128	155	115	145	61	135	221	72	28	58	80	169	1367
258.75 - 281.24 (270.0)	242	139	78	122	51	51	120	20	13	74	118	180	1208
281.25 - 303.74 (292.5)	204	117	102	94	47	20	9	5	5	33	99	163	898
303.75 - 326.24 (315.0)	193	142	131	77	32	10	7	3	5	44	92	205	941
326.25 - 348.74 (337.5)	169	176	113	52	49	6	5	1	5	93	66	159	894
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 44 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	789										789
1.00 - 1.99	907	244									1151
2.00 - 2.99		68									68
3.00 - 3.99		2	1								3
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1696	314	1	0	0	0	0	0	0	0	2011

STATION: 44 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	527	59	1								587
1.00 - 1.99	477	1115	72								1664
2.00 - 2.99		183	70	1							254
3.00 - 3.99			8								8
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1004	1357	151	1	0	0	0	0	0	0	2513

STATION: 44 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	415	1142	1672	1377	1233	866	422	118	49	8	7302
1.00 - 1.99	79	1262	975	625	563	385	264	98	55	4	4310
2.00 - 2.99		99	361	104	90	24	7	2	15		702
3.00 - 3.99			63	43	32	15	2				155
4.00 - 4.99			5	17	5	2	2				31
5.00 - 5.99				4	7	5	1				17
6.00 - 6.99					2	1	1				4
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	494	2503	3076	2170	1932	1298	699	218	119	12	12521

STATION: 44 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	230	2020	6173	3253	697	76	32	18	12	4	12515
1.00 - 1.99	41	983	2123	1923	681	238	105	51	34	6	6185
2.00 - 2.99		54	361	366	248	92	84	20	7	1	1233
3.00 - 3.99			40	106	49	18	11	12	10		246
4.00 - 4.99				16	14	6	2	10	6		54
5.00 - 5.99				3		2	1	3	4		13
6.00 - 6.99				1	3	1		1	4		10
7.00 - 7.99						1		2			3
8.00 - 8.99						1	1	1			3
9.00 - GREATER								2			2
TOTAL	271	3057	8697	5668	1692	435	236	120	77	11	20264

STATION: 44 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	438	1341	438	47							2264
1.00 - 1.99	91	1768	1015	255	12						3141
2.00 - 2.99		120	625	212	42	2					1001
3.00 - 3.99			109	189	37	4					339
4.00 - 4.99			1	40	36	1					78
5.00 - 5.99				3	5	3					11
6.00 - 6.99					1	4					5
7.00 - 7.99						1					1
8.00 - 8.99						1					1
9.00 - GREATER											0
TOTAL	529	3229	2188	746	133	16	0	0	0	0	6841

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 44 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	889	427	9	.	6	.	.	.	.	.	1331
1.00 - 1.99	156	2184	136	.	.	.	.	.	.	.	2476
2.00 - 2.99	.	106	445	3	.	.	.	.	.	.	554
3.00 - 3.99	.	.	47	39	.	.	.	.	.	.	86
4.00 - 4.99	.	.	.	5	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1045	2717	637	47	6	0	0	0	0	0	4452

STATION: 44 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	577	16	.	.	.	.	.	.	.	.	593
1.00 - 1.99	645	770	3	.	.	.	.	.	.	.	1418
2.00 - 2.99	.	149	29	.	.	.	.	.	.	.	178
3.00 - 3.99	.	6	.	1	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1222	941	32	1	0	0	0	0	0	0	2196

STATION: 44 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	444	2	.	.	.	.	.	.	.	.	446
1.00 - 1.99	692	526	1	.	.	.	.	.	.	.	1219
2.00 - 2.99	.	134	.	.	.	.	.	.	.	.	134
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1136	665	1	0	0	0	0	0	0	0	1802

STATION: 44 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4309	5007	8293	4677	1936	942	454	136	61	12	25827
1.00 - 1.99	3088	8852	4325	2803	1256	623	369	149	89	10	21564
2.00 - 2.99	.	913	1891	686	380	118	91	22	22	1	4124
3.00 - 3.99	.	11	268	378	118	37	13	12	10	.	847
4.00 - 4.99	.	.	6	78	55	9	4	10	6	.	168
5.00 - 5.99	.	.	.	10	12	10	2	3	4	.	41
6.00 - 6.99	.	.	.	1	6	6	1	1	4	.	19
7.00 - 7.99	.	.	.	.	.	2	.	2	.	.	4
8.00 - 8.99	.	.	.	.	.	2	1	1	.	.	4
9.00 - GREATER	.	.	.	.	.	.	.	2	.	.	2
TOTAL	7397	14783	14783	8633	3763	1749	935	338	196	23	52600

STATION: 44

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	210	199	196	280	442	511	587	886	640	349	244	232	4776
2.50 - 4.99	1215	1104	1371	1541	2072	2164	2388	2557	2093	1704	1506	1332	21047
5.00 - 7.49	843	893	942	925	1017	980	995	677	740	1039	981	868	10900
7.50 - 9.99	1147	1045	1099	1045	737	552	467	280	583	946	1030	1147	10078
10.00 - 12.49	532	383	454	360	151	96	23	39	161	272	321	473	3265
12.50 - 14.99	375	343	287	142	42	12	4	13	70	134	203	332	1957
15.00 - 17.49	89	71	72	24	3	1	.	9	11	18	26	37	361
17.50 - 19.99	40	33	32	3	.	2	.	2	6	2	9	41	170
20.00 - GREATER	13	1	11	.	.	2	.	1	16	.	.	2	46
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.25 W, DEPTH: 22 M

STATION: 44

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	837	717	548	484	392	245	111	237	385	730	678	821	6185
22.50 - 67.49 (45.0)	592	614	564	385	477	546	305	715	1261	1219	830	691	8199
67.50 - 112.49 (90.0)	278	271	397	289	485	503	358	550	700	674	449	240	5194
112.50 - 157.49 (135.0)	270	263	411	356	408	377	284	457	397	299	375	210	4107
157.50 - 202.49 (180.0)	345	421	628	778	881	652	712	643	410	305	474	406	6655
202.50 - 247.49 (225.0)	485	607	792	830	1094	1372	1831	1214	642	416	466	676	10425
247.50 - 292.49 (270.0)	790	541	527	702	430	452	726	494	321	424	536	709	6652
292.50 - 337.49 (315.0)	867	638	597	496	297	173	137	154	204	397	512	711	5183
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 44

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.30	1.45	1.21	1.09	1.33	1.08	0.70	1.21	0.88	1.19	1.08	1.38	1.16
1977	1.20	1.18	1.29	1.32	0.84	0.75	0.68	0.73	0.65	1.30	1.49	1.27	1.06
1978	1.56	1.12	1.36	1.22	1.17	0.78	0.78	0.78	1.13	0.99	1.19	1.26	1.11
1979	1.58	1.44	1.39	1.24	1.24	1.06	0.85	0.79	1.60	0.96	1.41	1.14	1.22
1980	1.30	1.07	1.73	1.37	0.85	1.12	0.83	0.95	1.06	1.05	1.23	1.50	1.17
1981	0.94	1.77	1.42	1.29	1.12	0.85	0.82	0.87	1.07	1.17	1.06	1.17	1.13
1982	1.15	1.31	1.08	1.14	0.73	0.94	0.78	0.66	0.92	1.05	1.15	1.06	1.00
1983	1.39	1.54	1.53	1.23	1.14	0.89	0.71	0.70	0.93	1.39	1.25	1.62	1.19
1984	1.42	1.47	1.41	1.31	1.15	0.71	0.98	0.57	1.62	1.03	1.41	0.96	1.17
1985	1.29	1.27	1.34	1.14	0.92	0.81	0.84	0.69	1.26	1.39	1.42	1.14	1.12
1986	1.25	1.02	1.51	1.05	0.89	1.03	0.78	1.03	0.91	1.03	1.29	1.41	1.10
1987	1.49	1.29	1.29	1.16	0.94	0.91	0.71	0.85	0.93	0.92	1.11	1.11	1.06
1988	1.16	1.11	1.12	1.09	0.96	0.84	0.96	0.98	1.11	0.95	1.42	0.99	1.06
1989	1.25	1.29	1.45	1.23	1.02	1.05	0.97	0.99	1.88	1.16	1.20	1.12	1.22
1990	1.24	1.56	1.33	1.28	1.19	1.03	1.13	0.84	1.00	1.23	1.01	1.41	1.19
1991	1.24	1.12	1.56	1.13	1.05	1.02	0.94	0.92	1.31	1.12	1.06	1.23	1.14
1992	1.36	1.26	1.35	1.04	0.95	0.81	0.80	0.84	0.91	0.91	1.28	1.31	1.07
1993	1.60	1.24	1.55	1.35	0.98	0.82	0.64	0.92	0.87	1.19	1.40	1.11	1.14
MEAN	1.32	1.31	1.38	1.20	1.03	0.92	0.83	0.85	1.11	1.11	1.25	1.23	

STATION: 44

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 915	431120	34 919	35 9 9	361014	19 718	20 722	531414	25 712	261312	34 824	39 921	531414
1977	38 912	40 917	41 917	481019	23 812	18 525	15 6 6	16 623	13 8 9	31 912	34 7 8	34 920	481019
1978	681319	28 912	34 818	34 921	35 816	16 619	14 5 8	141213	351313	31 8 8	26 7 7	36 921	681319
1979	491118	5310 9	521117	471019	32 919	27 7 8	19 611	211614	431116	31 9 9	4011 6	39 921	5310 9
1980	371016	24 632	441019	461017	21 723	37 921	20 723	381915	27 8 9	4511 8	36 810	651411	651411
1981	24 723	471216	491117	401018	29 8 9	25 724	21 722	44 918	411813	32 822	31 822	30 721	491117
1982	28 813	24 818	29 819	31 819	13 518	501016	29 920	20 723	20 7 8	341212	30 818	24 716	501016
1983	43 9 8	42 9 9	561111	31 816	32 919	17 6 6	15 5 6	21 722	22 6 5	29 8 8	30 818	36 8 8	561111
1984	341110	40 914	41 922	391010	461019	17 913	33 920	12 713	851416	251213	3211 8	26 722	851416
1985	30 635	39 917	34 821	421118	21 5 3	32 921	31 816	18 6 5	991714	40 9 8	39 918	29 922	991714
1986	26 7 7	31 821	42 918	30 819	20 6 5	301015	26 722	431114	181010	27 8 9	30 7 8	5812 9	5812 9
1987	411211	461010	481116	24 722	16 913	20 620	17 619	20 722	24 717	171012	31 916	31 817	481116
1988	32 810	30 629	26 722	25 917	18 719	18 617	22 619	24 815	251612	20 610	421117	25 717	421117
1989	39 918	30 718	33 919	27 821	28 817	30 919	24 719	211112	661913	27 7 8	34 819	32 810	661913
1990	351017	39 917	361017	27 819	33 917	21 721	23 718	321614	201311	29 716	39 814	41 917	41 917
1991	39 915	43 921	431117	25 7 9	22 6 8	23 6 6	18 620	491315	511812	25 7 8	29 6 3	39 918	511812
1992	39 922	3010 8	35 815	25 817	19 623	14 513	21 722	18 620	19 6 4	24 8 8	35 818	37 815	39 922
1993	381210	31 820	691317	37 916	20 721	13 523	14 618	411412	241311	25 719	401213	42 921	691317
MAX	681319	5310 9	691317	481019	461019	501016	33 920	531414	991714	4511 8	421117	651411	

MAX Hmo(m): 9.9 MAX Tp(sec): 17. MAX Dp(deg): 137. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 120. DATE(gmt): 84091203

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 2.9

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N LONG: 77.00 W DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 45

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	257	168	195	188	113	204	229	220	179	197	198	309	2457
0.50 - 0.99	1151	1198	1088	1387	2034	2384	2863	2959	1999	1669	1155	1437	21324
1.00 - 1.49	1278	1146	1401	1376	1495	1243	1027	940	1151	1401	1469	1097	15024
1.50 - 1.99	850	798	787	764	561	340	272	202	504	663	804	747	7292
2.00 - 2.49	472	351	435	333	154	95	56	68	254	328	408	521	3475
2.50 - 2.99	245	203	267	150	59	36	14	20	119	136	158	200	1607
3.00 - 3.49	102	95	165	61	34	11	3	21	25	46	77	82	722
3.50 - 3.99	64	61	68	34	10	3	.	14	24	14	38	34	364
4.00 - 4.49	29	32	31	16	2	1	.	6	23	6	13	13	172
4.50 - 4.99	8	16	13	9	2	.	.	8	7	4	.	7	74
5.00 - 5.49	4	2	8	2	.	3	.	6	8	.	.	5	38
5.50 - 5.99	1	2	3	.	.	.	.	.	5	.	.	4	15
6.00 - 6.49	1	.	1	.	.	.	.	.	9	.	.	5	16
6.50 - 6.99	1	.	1	.	.	.	.	.	2	.	.	2	6
7.00 - 7.49	1	.	1	.	.	.	.	.	2	.	.	1	5
7.50 - 7.99	.	.	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	4	.	.	.	4
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	1	.	.	.	1
10.00 - GREATER	.	.	.	.	.	.	.	.	1	.	.	.	1
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 45

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	104	109	63	37	62	33	54	32	26	64	71	93	748
4.0 - 4.9	532	553	437	397	324	338	545	334	248	402	400	613	5123
5.0 - 5.9	756	612	521	586	598	749	944	599	484	622	565	770	7806
6.0 - 6.9	522	522	558	645	851	1043	784	987	756	648	563	570	8449
7.0 - 7.9	326	389	586	561	899	978	921	1053	827	642	535	386	8103
8.0 - 8.9	407	432	573	548	687	668	727	733	597	636	517	415	6940
9.0 - 9.9	413	427	471	441	424	248	317	225	369	481	527	419	4762
10.0 - 10.9	417	411	424	360	227	144	107	125	242	286	427	319	3489
11.0 - 11.9	309	209	248	237	129	87	31	102	150	217	250	279	2248
12.0 - 12.9	245	79	179	198	110	21	24	84	132	226	109	155	1562
13.0 - 13.9	177	78	130	119	74	4	8	58	113	116	70	169	1116
14.0 - 14.9	95	58	93	101	44	6	2	51	91	49	119	80	789
15.0 - 15.9	54	60	48	61	26	1	.	28	96	40	69	111	594
16.0 - 16.9	42	49	50	9	7	.	.	15	68	8	34	61	343
17.0 - 17.9	25	34	33	8	2	.	.	6	41	22	21	16	208
18.0 - 18.9	22	24	9	5	.	.	.	13	28	4	10	6	121
19.0 - 19.9	6	17	10	2	.	.	.	7	21	1	16	1	81
20.0 - LONGER	12	9	31	5	.	.	.	12	31	.	17	1	118
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 45

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	134	143	73	73	74	26	7	3	23	104	104	164	928
11.25 - 33.74 (22.5)	149	125	81	53	58	39	11	16	57	175	105	156	1025
33.75 - 56.24 (45.0)	170	154	120	81	82	130	56	108	303	259	200	219	1922
56.25 - 78.74 (67.5)	108	139	84	98	71	103	88	95	166	297	143	125	1517
78.75 - 101.24 (90.0)	713	558	707	799	755	467	216	482	1067	1288	824	768	8644
101.25 - 123.74 (112.5)	898	755	882	784	995	863	957	1560	1477	1146	1230	859	12406
123.75 - 146.24 (135.0)	469	460	560	540	764	1030	1126	1059	682	476	523	375	8064
146.25 - 168.74 (157.5)	318	267	395	428	295	266	143	231	152	131	250	203	3079
168.75 - 191.24 (180.0)	260	324	491	440	606	299	367	297	145	112	258	245	3844
191.25 - 213.74 (202.5)	135	187	270	310	303	470	592	278	107	72	100	209	3033
213.75 - 236.24 (225.0)	139	172	232	210	202	405	536	232	87	87	114	227	2643
236.25 - 258.74 (247.5)	161	178	144	154	74	151	245	70	28	73	102	202	1582
258.75 - 281.24 (270.0)	289	148	89	146	62	38	105	24	10	85	128	198	1322
281.25 - 303.74 (292.5)	189	111	98	88	44	17	8	8	5	33	89	156	846
303.75 - 326.24 (315.0)	183	146	131	64	29	12	3	1	5	41	84	210	909
326.25 - 348.74 (337.5)	149	165	107	52	50	4	4	.	6	85	66	148	836
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.00 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 45 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	565	1	.	.	.	.	.	.	.	.	566
1.00 - 1.99	917	211	.	.	.	.	.	.	.	.	1128
2.00 - 2.99	.	65	1	.	.	.	.	.	.	.	66
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1482	280	1	0	0	0	0	0	0	0	1763

STATION: 45 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	450	94	3	.	.	.	.	.	.	.	547
1.00 - 1.99	183	1640	26	3	.	.	.	.	.	.	1852
2.00 - 2.99	.	675	110	1	.	.	.	.	.	.	786
3.00 - 3.99	.	19	79	1	1	.	.	.	.	.	100
4.00 - 4.99	.	.	13	.	.	.	.	.	.	.	13
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	633	2428	231	5	1	0	0	0	0	0	3298

STATION: 45 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	338	1060	1864	1558	1402	919	373	118	31	7	7670
1.00 - 1.99	47	1152	1257	928	784	522	326	114	56	5	5191
2.00 - 2.99	.	107	341	122	105	44	33	5	22	.	779
3.00 - 3.99	.	.	91	54	33	13	1	4	.	.	196
4.00 - 4.99	.	.	7	31	16	6	2	.	.	.	62
5.00 - 5.99	.	.	.	6	5	1	3	.	.	.	15
6.00 - 6.99	.	.	.	.	4	2	2	.	.	.	8
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	385	2319	3560	2699	2350	1507	740	241	109	12	13922

STATION: 45 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	178	1707	5476	2620	513	65	24	7	8	2	10600
1.00 - 1.99	49	928	2157	1623	531	206	79	43	28	9	5653
2.00 - 2.99	.	59	373	313	202	84	78	14	8	.	1131
3.00 - 3.99	.	.	49	112	52	19	11	10	9	.	262
4.00 - 4.99	.	.	2	18	11	4	2	9	7	.	53
5.00 - 5.99	.	.	.	3	3	2	1	3	3	.	15
6.00 - 6.99	.	.	.	1	3	.	.	1	4	.	9
7.00 - 7.99	.	.	.	.	2	1	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	1	1	.	.	2
TOTAL	227	2694	8057	4690	1317	382	197	88	67	11	17730

STATION: 45 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	400	1188	362	40	.	.	.	.	.	.	1990
1.00 - 1.99	83	1807	1124	226	11	.	.	.	.	.	3251
2.00 - 2.99	.	113	642	253	40	.	.	.	.	.	1048
3.00 - 3.99	.	.	123	195	35	2	.	.	.	.	355
4.00 - 4.99	.	.	3	56	35	3	.	.	.	.	97
5.00 - 5.99	.	.	.	8	11	4	.	.	.	.	23
6.00 - 6.99	.	.	.	.	4	1	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	3	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	3	.	.	.	.	3
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	483	3108	2254	778	136	16	0	0	0	0	6775

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.00 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 45 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	787	586	43	.	3	.	.	.	.	.	1419
1.00 - 1.99	141	2391	192	.	.	.	.	.	.	.	2724
2.00 - 2.99	.	160	554	1	.	.	.	.	.	.	715
3.00 - 3.99	.	.	75	60	.	.	.	.	.	.	135
4.00 - 4.99	.	.	1	17	3	.	.	.	.	.	21
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	928	3137	865	78	6	0	0	0	0	0	5014

STATION: 45 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	572	33	.	.	.	.	.	.	.	.	605
1.00 - 1.99	132	1214	6	.	.	.	.	.	.	.	1352
2.00 - 2.99	.	357	39	.	.	.	.	.	.	.	396
3.00 - 3.99	.	2	25	1	.	.	.	.	.	.	28
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	704	1606	70	1	0	0	0	0	0	0	2381

STATION: 45 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	383	1	.	.	.	.	.	.	.	.	384
1.00 - 1.99	646	518	1	.	.	.	.	.	.	.	1165
2.00 - 2.99	.	159	2	.	.	.	.	.	.	.	161
3.00 - 3.99	.	5	2	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1029	683	5	0	0	0	0	0	0	0	1717

STATION: 45 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3673	4670	7748	4218	1918	984	397	125	39	9	23781
1.00 - 1.99	2198	9861	4763	2780	1326	728	405	157	84	14	22316
2.00 - 2.99	.	1695	2062	690	347	128	111	19	30	.	5082
3.00 - 3.99	.	29	444	423	121	34	12	14	9	.	1086
4.00 - 4.99	.	.	26	122	65	13	4	9	7	.	246
5.00 - 5.99	.	.	.	17	19	7	4	3	3	.	53
6.00 - 6.99	.	.	.	1	11	3	2	1	4	.	22
7.00 - 7.99	.	.	.	.	3	4	.	.	.	.	7
8.00 - 8.99	.	.	.	.	.	4	1	.	.	.	5
9.00 - GREATER	.	.	.	.	.	.	1	1	.	.	2
TOTAL	5871	16255	15043	8251	3810	1905	937	329	176	23	52600

STATION: 45

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	202	197	195	267	428	505	568	869	624	340	246	231	4672
2.50 - 4.99	1178	1071	1329	1538	2040	2137	2344	2527	2092	1679	1463	1305	20703
5.00 - 7.49	856	885	948	911	1029	976	1031	708	754	1048	988	850	10984
7.50 - 9.99	1142	1060	1109	1056	764	587	490	296	575	952	1042	1140	10213
10.00 - 12.49	552	391	458	369	150	95	27	36	171	282	321	509	3361
12.50 - 14.99	391	359	299	149	50	14	4	17	73	144	221	346	2067
15.00 - 17.49	86	73	81	22	3	1	.	8	10	16	31	40	371
17.50 - 19.99	44	35	32	8	.	3	.	3	4	3	8	41	181
20.00 - GREATER	13	1	13	.	.	2	.	.	17	.	.	2	48
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.25 N, LONG: 77.00 W, DEPTH: 27 M

STATION: 45

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	857	741	567	491	393	250	115	243	392	745	685	820	6299
22.50 - 67.49 (45.0)	584	598	552	388	489	550	302	715	1265	1205	829	679	8156
67.50 - 112.49 (90.0)	269	266	393	286	475	498	349	534	674	681	439	249	5113
112.50 - 157.49 (135.0)	275	262	398	350	398	363	280	457	404	285	375	203	4050
157.50 - 202.49 (180.0)	343	413	629	778	882	656	719	637	409	313	474	404	6657
202.50 - 247.49 (225.0)	490	618	786	850	1098	1387	1849	1221	647	419	471	675	10511
247.50 - 292.49 (270.0)	778	534	541	695	438	451	715	498	327	417	531	705	6630
292.50 - 337.49 (315.0)	868	640	598	482	291	165	135	159	202	399	516	729	5184
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 45

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.37	1.52	1.26	1.17	1.40	1.13	0.75	1.25	0.92	1.30	1.14	1.48	1.23
1977	1.26	1.23	1.33	1.39	0.88	0.81	0.72	0.76	0.69	1.38	1.56	1.35	1.11
1978	1.64	1.23	1.42	1.29	1.23	0.81	0.82	0.81	1.23	1.08	1.30	1.35	1.18
1979	1.67	1.53	1.46	1.30	1.32	1.11	0.88	0.83	1.66	1.01	1.48	1.23	1.29
1980	1.40	1.13	1.84	1.46	0.90	1.19	0.89	0.98	1.09	1.14	1.32	1.64	1.25
1981	1.02	1.91	1.54	1.37	1.19	0.92	0.86	0.92	1.14	1.28	1.16	1.26	1.21
1982	1.24	1.38	1.12	1.20	0.77	1.00	0.81	0.70	0.98	1.16	1.24	1.13	1.06
1983	1.48	1.66	1.62	1.29	1.19	0.95	0.75	0.73	1.03	1.50	1.34	1.73	1.27
1984	1.58	1.54	1.49	1.41	1.22	0.73	1.02	0.60	1.71	1.09	1.52	1.02	1.24
1985	1.37	1.35	1.41	1.20	0.97	0.86	0.86	0.73	1.35	1.47	1.49	1.22	1.19
1986	1.36	1.09	1.60	1.12	0.96	1.07	0.83	1.11	0.98	1.13	1.37	1.55	1.18
1987	1.65	1.38	1.41	1.25	0.99	0.94	0.74	0.90	0.97	1.00	1.15	1.18	1.13
1988	1.26	1.17	1.20	1.16	1.02	0.88	1.00	1.02	1.16	1.03	1.50	1.07	1.12
1989	1.35	1.38	1.55	1.32	1.09	1.09	1.01	1.04	1.95	1.28	1.28	1.21	1.29
1990	1.31	1.66	1.43	1.37	1.25	1.08	1.18	0.86	1.07	1.27	1.08	1.51	1.25
1991	1.34	1.20	1.64	1.20	1.10	1.09	0.98	0.97	1.38	1.19	1.14	1.31	1.21
1992	1.46	1.38	1.42	1.11	1.04	0.86	0.86	0.89	0.99	0.99	1.37	1.43	1.15
1993	1.73	1.33	1.67	1.46	1.03	0.86	0.68	0.96	0.93	1.29	1.53	1.22	1.22
MEAN	1.42	1.39	1.47	1.28	1.09	0.97	0.87	0.89	1.18	1.20	1.33	1.33	

STATION: 45

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 915	461121	36 919	411110	381014	23 6 5	21 722	531314	25 812	30 6 3	39 825	42 922	531314
1977	42 911	40 917	44 917	511020	23 813	20 623	18 5 5	18 623	14 5 5	33 7 7	36 8 8	37 821	511020
1978	731319	32 911	35 824	36 923	36 817	17 619	14 718	141213	391312	33 8 8	30 7 6	39 922	731319
1979	531019	5710 9	571117	501020	34 919	28 7 8	20 611	201614	411016	32 9 9	421117	40 922	571117
1980	391017	27 8 8	471020	491018	22 723	39 922	21 724	371815	29 8 9	4911 8	38 810	7211 8	7211 8
1981	25 723	501216	531118	431018	32 8 9	26 724	22 722	44 918	411812	33 822	31 823	31 819	531118
1982	29 813	26 7 9	33 820	33 819	14 518	541017	31 920	22 723	22 7 7	3912 9	31 818	25 817	541017
1983	4410 9	47 9 8	591111	33 816	34 920	21 6 4	16 527	21 722	27 6 2	33 8 7	32 818	39 8 8	591111
1984	41 7 4	40 915	42 923	42 917	491019	18 913	34 921	12 5 3	871417	271213	39 7 4	27 722	871417
1985	32 727	41 917	35 821	451019	24 6 3	35 922	29 816	22 6 4	1031714	42 8 7	43 918	30 922	1031714
1986	31 7 5	32 821	45 919	32 820	24 6 4	321016	27 722	511117	21 6 5	30 7 8	33 7 8	6213 9	6213 9
1987	471210	491010	521117	25 723	16 912	20 620	17 619	20 723	25 717	20 5 3	33 916	32 817	521117
1988	33 810	35 726	28 820	26 821	20 6 5	18 618	23 719	24 815	251612	23 7 5	441118	28 8 6	441118
1989	421110	31 816	35 919	28 822	30 818	32 920	25 719	23 6 5	641912	27 7 8	35 922	33 810	641912
1990	381018	41 917	381017	29 819	35 817	22 722	231114	311614	211310	30 716	41 815	43 917	43 917
1991	41 915	46 922	471117	27 7 9	23 7 8	26 6 5	18 620	541113	511812	25 6 4	36 7 3	42 918	541113
1992	411118	3710 7	36 915	30 8 8	20 7 7	14 817	22 722	18 620	23 6 3	28 6 3	37 818	40 816	411118
1993	461210	33 821	741417	39 917	21 722	14 523	15 618	461411	251311	27 720	411213	45 922	741417
MAX	731319	5710 9	741417	511020	491019	541017	34 921	541113	1031714	4911 8	441118	7211 8	

MAX Hmo(m): 10.3 MAX Tp(sec): 17. MAX Dp(deg): 137. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 28. MAX WIND DIRECTION(deg): 340. DATE(gmt): 85092703

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 2.9

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N LONG: 76.75 W DEPTH: 20 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 46

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	248	184	192	199	128	260	412	336	217	219	166	301	2862
0.50 - 0.99	1233	1266	1062	1389	2070	2432	2837	2918	2022	1672	1186	1529	21616
1.00 - 1.49	1361	1130	1422	1459	1528	1203	889	886	1120	1424	1530	1145	15097
1.50 - 1.99	828	823	757	723	490	312	260	186	483	689	773	767	7091
2.00 - 2.49	411	343	507	290	149	66	53	59	243	290	347	426	3184
2.50 - 2.99	192	157	282	144	61	32	11	14	102	109	160	174	1438
3.00 - 3.49	103	75	141	59	33	9	2	19	39	34	92	58	664
3.50 - 3.99	56	46	52	35	2	3	.	16	27	13	51	26	327
4.00 - 4.49	19	24	29	17	2	.	.	6	17	6	14	8	142
4.50 - 4.99	10	15	9	5	1	1	.	10	13	6	1	6	77
5.00 - 5.49	.	5	7	.	.	2	.	9	12	2	.	4	41
5.50 - 5.99	1	2	2	.	.	.	.	5	10	.	.	7	27
6.00 - 6.49	2	2	1	.	.	.	.	.	6	.	.	6	17
6.50 - 6.99	.	.	1	.	.	.	.	.	1	.	.	5	7
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	2	4
7.50 - 7.99	.	.	.	.	.	.	.	.	4	.	.	.	4
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 46

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	125	139	69	57	82	86	195	95	59	94	81	132	1214
4.0 - 4.9	557	540	421	377	366	410	470	387	391	462	423	636	5440
5.0 - 5.9	458	449	337	366	431	579	822	516	325	312	311	491	5397
6.0 - 6.9	232	288	401	399	660	841	729	681	462	354	279	299	5625
7.0 - 7.9	221	265	427	427	705	808	704	859	657	413	340	297	6123
8.0 - 8.9	304	382	442	444	676	717	842	890	591	547	467	327	6629
9.0 - 9.9	457	396	471	443	510	322	422	396	394	709	592	423	5535
10.0 - 10.9	532	482	434	428	271	149	111	155	323	475	515	395	4270
11.0 - 11.9	398	367	484	441	333	266	113	137	284	307	522	404	4056
12.0 - 12.9	327	144	271	233	151	56	29	92	132	278	126	226	2065
13.0 - 13.9	291	113	228	274	112	53	18	93	212	221	138	223	1976
14.0 - 14.9	192	104	177	200	74	19	9	62	145	121	162	194	1459
15.0 - 15.9	128	120	78	133	61	9	.	33	123	87	126	186	1084
16.0 - 16.9	99	113	101	59	20	5	.	25	82	46	94	128	772
17.0 - 17.9	66	70	49	22	10	.	.	10	52	28	58	65	430
18.0 - 18.9	40	46	21	8	2	.	.	13	34	6	34	28	232
19.0 - 19.9	21	44	27	5	.	.	.	7	27	3	37	5	176
20.0 - LONGER	16	10	26	4	.	.	.	13	27	1	15	5	117
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 46

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	132	145	78	68	76	30	9	2	28	97	113	140	918
11.25 - 33.74 (22.5)	146	131	75	53	79	64	18	37	84	168	105	172	1132
33.75 - 56.24 (45.0)	56	107	61	44	49	94	64	88	198	103	77	65	1006
56.25 - 78.74 (67.5)	35	49	39	43	45	56	53	62	102	116	40	51	691
78.75 - 101.24 (90.0)	1354	1048	1323	1359	1036	648	279	671	1378	1951	1574	1422	14043
101.25 - 123.74 (112.5)	764	647	720	710	798	669	721	1199	1155	872	924	709	9888
123.75 - 146.24 (135.0)	532	459	463	415	790	1050	1258	1173	799	550	497	366	8352
146.25 - 168.74 (157.5)	298	281	405	444	337	299	206	274	203	135	254	200	3336
168.75 - 191.24 (180.0)	301	330	496	490	645	593	463	383	173	125	262	294	4355
191.25 - 213.74 (202.5)	141	204	258	270	268	518	641	299	91	92	113	239	3134
213.75 - 236.24 (225.0)	118	170	184	138	158	345	477	190	78	78	84	174	2194
236.25 - 258.74 (247.5)	61	92	57	72	46	90	153	53	12	25	34	101	796
258.75 - 281.24 (270.0)	99	53	24	52	31	33	97	27	6	39	44	89	594
281.25 - 303.74 (292.5)	142	75	60	53	33	13	14	5	5	16	60	121	597
303.75 - 326.24 (315.0)	135	113	119	59	28	10	8	.	5	28	80	172	757
326.25 - 348.74 (337.5)	150	168	102	50	45	8	3	1	3	69	59	149	807
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.75 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 46 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	576										576
1.00 - 1.99	869	293									1162
2.00 - 2.99		62									62
3.00 - 3.99		2	1								3
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1445	357	1	0	0	0	0	0	0	0	1803

STATION: 46 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	499	26			13						538
1.00 - 1.99	875	447	8								1330
2.00 - 2.99		109	1								110
3.00 - 3.99		1									1
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1374	583	9	0	13	0	0	0	0	0	1979

STATION: 46 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	277	621	1425	1866	2096	1496	726	230	54	6	8797
1.00 - 1.99	81	676	1088	1837	1814	1161	707	245	74	11	7694
2.00 - 2.99		84	194	359	302	268	192	78	43	1	1521
3.00 - 3.99			24	58	114	45	28	15	26	1	311
4.00 - 4.99			2	11	27	18	4	4	6		72
5.00 - 5.99				1	9	10	4	4			28
6.00 - 6.99						7	6				13
7.00 - 7.99							2				2
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	358	1381	2733	4132	4362	3005	1669	576	203	19	18438

STATION: 46 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	164	1332	4970	2707	628	80	18	8	7	2	9916
1.00 - 1.99	41	688	1496	1604	653	189	64	26	25	6	4792
2.00 - 2.99		55	275	294	225	102	86	22	4	2	1065
3.00 - 3.99			34	96	49	18	13	9	8		227
4.00 - 4.99				15	16	9	4	8	9		61
5.00 - 5.99				3	2	5	1	8	4		23
6.00 - 6.99					1			1	4		6
7.00 - 7.99						1		2			3
8.00 - 8.99								2			2
9.00 - GREATER											0
TOTAL	205	2075	6775	4719	1574	404	186	86	61	10	16095

STATION: 46 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	459	1440	536	50	1						2486
1.00 - 1.99	90	1784	1163	332	38	5	1				3413
2.00 - 2.99		121	674	253	48	5					1101
3.00 - 3.99			119	202	35	3					359
4.00 - 4.99				45	33	6					84
5.00 - 5.99				1	15	1					17
6.00 - 6.99					2	3					5
7.00 - 7.99						3					3
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	549	3345	2492	883	172	26	1	0	0	0	7468

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.75 W, DEPTH: 20 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 46 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	751	424	29	.	.	.	.	.	.	.	1204
1.00 - 1.99	174	1956	179	.	.	.	.	.	.	.	2309
2.00 - 2.99	.	116	465	18	.	.	.	.	.	.	599
3.00 - 3.99	.	.	39	49	.	.	.	.	.	.	88
4.00 - 4.99	.	.	.	2	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	925	2496	712	69	0	0	0	0	0	0	4202

STATION: 46 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	640	4	.	.	.	.	.	.	.	.	644
1.00 - 1.99	293	146	2	.	.	.	.	.	.	.	441
2.00 - 2.99	.	11	25	2	.	.	.	.	.	.	38
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	933	161	27	2	0	0	0	0	0	0	1123

STATION: 46 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	316	1	.	.	.	.	.	.	.	.	317
1.00 - 1.99	549	497	1	.	.	.	.	.	.	.	1047
2.00 - 2.99	.	124	2	.	.	.	.	.	.	.	126
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	865	624	3	0	0	0	0	0	0	0	1492

STATION: 46 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3682	3848	6960	4623	2738	1576	744	238	61	8	24478
1.00 - 1.99	2972	6487	3937	3773	2505	1355	772	271	99	17	22188
2.00 - 2.99	.	682	1636	926	575	375	278	100	47	3	4622
3.00 - 3.99	.	5	217	405	198	66	41	24	34	1	991
4.00 - 4.99	.	.	2	73	76	33	8	12	15	.	219
5.00 - 5.99	.	.	.	5	26	16	5	12	4	.	68
6.00 - 6.99	.	.	.	.	3	10	6	1	4	.	24
7.00 - 7.99	.	.	.	.	.	4	2	2	.	.	8
8.00 - 8.99	.	.	.	.	.	.	.	2	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6654	11022	12752	9805	6121	3435	1856	662	264	29	52600

STATION: 46

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	200	197	187	265	448	514	599	860	614	378	256	238	4756
2.50 - 4.99	1171	1044	1316	1528	1961	2102	2298	2491	2055	1652	1417	1284	20319
5.00 - 7.49	827	882	937	905	1043	948	1006	723	786	1010	991	832	10890
7.50 - 9.99	1155	1062	1099	1046	796	628	528	324	587	967	1041	1133	10366
10.00 - 12.49	577	406	480	381	157	111	29	43	180	289	340	527	3520
12.50 - 14.99	390	362	311	161	56	11	4	10	69	146	242	362	2124
15.00 - 17.49	87	78	87	26	3	.	.	6	12	19	25	42	385
17.50 - 19.99	44	40	34	8	.	3	.	6	9	3	8	38	193
20.00 - GREATER	13	1	13	.	.	3	.	1	8	.	.	8	47
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.75 W, DEPTH: 20 M

STATION: 46

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	896	764	589	495	426	257	123	266	418	751	729	840	6554
22.50 - 67.49 (45.0)	577	593	559	400	492	564	322	728	1275	1183	796	658	8147
67.50 - 112.49 (90.0)	253	258	385	287	463	489	336	513	635	645	415	250	4929
112.50 - 157.49 (135.0)	252	256	387	334	376	351	283	443	386	298	354	191	3911
157.50 - 202.49 (180.0)	351	387	606	752	865	621	676	618	422	319	491	397	6505
202.50 - 247.49 (225.0)	505	634	802	876	1107	1413	1852	1232	652	434	490	701	10698
247.50 - 292.49 (270.0)	759	541	522	683	441	440	723	516	340	422	537	710	6634
292.50 - 337.49 (315.0)	871	639	614	493	294	185	149	148	192	412	508	717	5222
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 46

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.30	1.43	1.25	1.20	1.32	1.06	0.66	1.30	0.96	1.28	1.06	1.32	1.18
1977	1.19	1.13	1.30	1.43	0.82	0.75	0.67	0.74	0.67	1.30	1.67	1.33	1.08
1978	1.59	1.21	1.41	1.26	1.18	0.77	0.77	0.76	1.23	1.09	1.29	1.33	1.15
1979	1.67	1.58	1.59	1.29	1.29	1.04	0.82	0.81	1.60	1.02	1.42	1.20	1.28
1980	1.46	1.16	1.85	1.40	0.89	1.16	0.88	0.97	1.15	1.16	1.42	1.74	1.27
1981	0.99	2.01	1.67	1.35	1.22	0.86	0.83	0.87	1.28	1.22	1.15	1.17	1.21
1982	1.17	1.32	1.05	1.15	0.74	0.94	0.78	0.66	0.95	1.24	1.34	1.09	1.03
1983	1.42	1.65	1.59	1.25	1.16	0.93	0.68	0.67	0.96	1.51	1.37	1.64	1.23
1984	1.47	1.45	1.52	1.29	1.19	0.72	1.00	0.55	1.55	1.09	1.42	1.08	1.19
1985	1.22	1.25	1.37	1.14	0.91	0.81	0.80	0.67	1.20	1.40	1.56	1.11	1.12
1986	1.25	1.09	1.57	1.10	1.00	1.03	0.78	1.09	1.03	1.06	1.32	1.50	1.15
1987	1.68	1.29	1.45	1.29	0.99	0.89	0.69	0.91	0.93	0.96	1.13	1.13	1.11
1988	1.26	1.13	1.19	1.12	0.97	0.83	0.97	0.99	1.10	0.98	1.43	1.01	1.08
1989	1.29	1.31	1.48	1.26	1.03	1.05	0.95	1.05	1.97	1.18	1.36	1.14	1.25
1990	1.24	1.55	1.37	1.41	1.29	1.11	1.15	0.86	1.20	1.30	1.09	1.54	1.26
1991	1.25	1.11	1.59	1.12	1.06	1.00	0.96	0.94	1.33	1.21	1.11	1.22	1.16
1992	1.47	1.29	1.40	1.12	1.10	0.93	0.82	0.86	0.86	0.97	1.34	1.40	1.13
1993	1.60	1.26	1.58	1.44	1.04	0.84	0.64	0.95	0.89	1.20	1.44	1.18	1.17
MEAN	1.36	1.35	1.46	1.26	1.07	0.93	0.82	0.87	1.16	1.18	1.33	1.28	

STATION: 46

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	29 816	441219	34 919	431110	341014	19 721	20 721	561710	301510	281512	36 921	39 921	561710
1977	35 918	37 917	40 917	461019	23 812	17 525	15 623	19 722	15 9 9	311014	401210	35 821	461019
1978	631318	26 910	32 918	36 922	33 818	18 618	14 621	141113	421312	341312	26 9 9	36 823	631318
1979	491019	611310	511217	471019	32 919	26 6 8	19 914	211614	381017	30 9 9	411116	38 922	611310
1980	411110	2718 9	431018	461017	23 722	38 921	21 723	391915	301512	5112 9	441810	731510	731510
1981	23 721	491215	501118	421018	31 910	26 723	21 721	39 817	461812	32 822	30 822	32 816	501118
1982	30 913	25 819	26 721	33 819	13 518	521118	30 920	22 722	17 9 9	471211	401610	25 817	521118
1983	41 9 9	521110	581211	32 816	32 819	19 719	13 525	21 722	2414 9	30 7 8	31 818	351010	581211
1984	381210	391018	381021	40 917	451019	18 913	33 921	11 4 3	781417	291213	3412 9	27 721	781417
1985	29 635	381018	341022	421119	18 5 3	34 921	26 816	16 5 3	861715	3911 9	38 917	28 921	861715
1986	2915 9	30 722	431018	32 819	2316 9	321016	27 721	541116	2013 9	27 910	30 7 9	661410	661410
1987	491210	531110	511216	26 721	15 9 9	19 620	18 619	20 722	24 717	2012 9	31 917	31 818	531110
1988	371510	30 818	28 819	27 710	19 719	18 618	24 818	23 816	261612	21 723	411118	25 819	411118
1989	39 919	31 816	33 919	27 716	30 818	30 919	25 719	241111	621913	25 7 9	34 917	33 810	621913
1990	381017	40 917	361018	28 819	33 917	21 721	241115	341614	341510	29 716	36 916	40 917	40 917
1991	41 915	42 921	441117	27 710	22 6 8	20 9 9	17 622	511214	561812	291210	29 6 3	39 918	561812
1992	391118	26 723	34 816	27 817	21 623	16 513	22 722	17 621	19 5 3	22 6 3	35 818	401014	401014
1993	4713 9	32 819	661220	381017	21 721	14 621	15 618	551411	401310	27 8 9	461213	42 921	661220
MAX	631318	611310	661220	471019	451019	521118	33 921	561710	861715	5112 9	461213	731510	

MAX Hmo(m): 8.6 MAX Tp(sec): 17. MAX Dp(deg): 148. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 355. DATE(gmt): 85092703

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.50 W, DEPTH: 9 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 47

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	184	119	120	111	82	169	257	250	138	159	109	210	1908
0.50 - 0.99	1034	1033	853	1137	1697	2103	2621	2745	1779	1442	898	1250	18592
1.00 - 1.49	1344	1141	1362	1306	1508	1179	989	1039	1034	1440	1394	1109	14845
1.50 - 1.99	926	910	907	941	731	589	377	264	687	823	902	869	8926
2.00 - 2.49	547	475	661	521	345	244	209	74	394	362	627	662	5121
2.50 - 2.99	218	210	350	208	89	26	11	20	143	141	226	212	1854
3.00 - 3.49	108	98	120	54	8	4	.	13	47	63	90	84	689
3.50 - 3.99	64	35	50	30	2	4	.	13	27	16	56	32	329
4.00 - 4.49	19	23	30	8	2	1	.	15	16	5	16	6	141
4.50 - 4.99	9	18	5	4	.	1	.	9	15	9	2	5	77
5.00 - 5.49	6	4	2	.	.	.	.	6	15	4	.	9	46
5.50 - 5.99	5	6	4	.	.	.	.	16	25	.	.	16	72
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 47

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	63	64	42	29	43	30	55	46	33	43	47	48	543
4.0 - 4.9	447	456	327	290	270	308	510	366	225	353	294	452	4298
5.0 - 5.9	491	408	326	336	411	551	747	533	331	354	310	552	5350
6.0 - 6.9	284	295	313	319	540	711	651	660	490	359	260	270	5152
7.0 - 7.9	218	272	380	426	683	759	687	811	670	407	333	296	5942
8.0 - 8.9	326	430	483	455	752	745	847	941	596	575	463	386	6999
9.0 - 9.9	512	437	498	471	534	350	418	403	451	745	614	458	5891
10.0 - 10.9	559	525	485	475	295	195	130	154	342	512	510	416	4598
11.0 - 11.9	430	460	628	613	507	533	370	201	375	356	702	550	5725
12.0 - 12.9	331	140	295	248	174	55	28	98	133	289	142	218	2151
13.0 - 13.9	284	116	225	293	99	56	16	84	211	214	138	249	1985
14.0 - 14.9	173	105	174	167	73	17	5	68	137	111	171	174	1375
15.0 - 15.9	122	111	81	115	57	8	.	35	124	72	110	173	1008
16.0 - 16.9	87	97	91	55	16	2	.	23	70	39	89	121	690
17.0 - 17.9	65	63	46	12	7	.	.	9	51	26	55	63	397
18.0 - 18.9	38	40	20	9	3	.	.	13	27	6	30	21	207
19.0 - 19.9	18	41	23	3	.	.	.	5	20	2	39	10	161
20.0 - LONGER	16	12	27	4	.	.	.	14	34	1	13	7	128
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 47

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	104	126	68	74	65	44	7	6	34	96	146	128	898
11.25 - 33.74 (22.5)	83	78	49	37	63	73	14	36	53	75	88	130	779
33.75 - 56.24 (45.0)	129	133	92	78	110	117	74	121	262	166	123	119	1524
56.25 - 78.74 (67.5)	160	161	116	156	129	132	89	123	282	342	150	190	2030
78.75 - 101.24 (90.0)	1296	1016	1344	1322	1072	704	290	737	1414	1912	1514	1332	13953
101.25 - 123.74 (112.5)	593	473	525	561	576	461	473	952	801	655	754	568	7392
123.75 - 146.24 (135.0)	536	485	473	383	778	939	1186	1095	771	567	462	365	8040
146.25 - 168.74 (157.5)	328	278	377	475	378	353	325	370	302	168	285	218	3857
168.75 - 191.24 (180.0)	337	403	618	507	658	417	489	374	179	123	297	327	4729
191.25 - 213.74 (202.5)	180	232	272	290	279	587	712	331	98	90	116	268	3455
213.75 - 236.24 (225.0)	103	169	171	142	149	330	490	217	72	65	76	162	2146
236.25 - 258.74 (247.5)	72	84	45	63	45	96	191	65	24	39	43	111	878
258.75 - 281.24 (270.0)	144	76	42	82	46	36	104	32	12	53	68	122	817
281.25 - 303.74 (292.5)	141	80	77	58	36	12	10	2	5	18	68	121	628
303.75 - 326.24 (315.0)	144	121	106	44	30	11	3	2	6	36	77	179	759
326.25 - 348.74 (337.5)	114	157	89	48	50	8	7	1	5	59	53	124	715
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.50 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 47 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	371										371
1.00 - 1.99	711	123			143						977
2.00 - 2.99		23	33	3	227						286
3.00 - 3.99				2	2						4
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1082	146	33	5	372	0	0	0	0	0	1638

STATION: 47 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	347	74	24	6							451
1.00 - 1.99	159	1359	30	3	162						1713
2.00 - 2.99		181	162	15	175						533
3.00 - 3.99			3	7	3						13
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	506	1614	219	31	340	0	0	0	0	0	2710

STATION: 47 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	215	615	1501	1730	1618	1192	538	189	43	4	7645
1.00 - 1.99	31	732	1296	1896	1795	1295	666	213	74	12	8010
2.00 - 2.99		42	322	505	553	325	246	90	48		2131
3.00 - 3.99			20	136	137	48	43	22	28	1	435
4.00 - 4.99				18	47	17	5	2	7		96
5.00 - 5.99					10	28	11	4			53
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	246	1389	3139	4285	4160	2905	1509	520	200	17	18370

STATION: 47 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	134	855	4261	2416	388	71	14	8	7	1	8155
1.00 - 1.99	33	523	1406	1694	775	160	56	23	18	9	4697
2.00 - 2.99		13	250	400	356	136	86	22	5		1268
3.00 - 3.99			3	75	57	21	21	6	3		186
4.00 - 4.99				3	17	10	5	10	4		49
5.00 - 5.99				2	1	7	1	12	16		39
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	167	1391	5920	4590	1594	405	183	81	53	10	14394

STATION: 47 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	396	1176	509	79	8	6	1				2175
1.00 - 1.99	67	1497	1693	405	325	6				3	3996
2.00 - 2.99		24	624	766	339	7				1	1761
3.00 - 3.99			14	217	125	9	3			1	369
4.00 - 4.99				13	43	8	2	3	4		73
5.00 - 5.99					12	14					26
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	463	2697	2840	1480	852	50	6	3	4	5	8400

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.50 W, DEPTH: 9 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 47 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	674	376	18	.	.	.	.	.	.	.	1068
1.00 - 1.99	132	1864	390	.	65	.	.	.	.	.	2451
2.00 - 2.99	.	30	354	87	240	.	.	.	.	.	711
3.00 - 3.99	.	.	1	10	.	.	.	.	.	.	11
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	806	2270	763	97	305	0	0	0	0	0	4241

STATION: 47 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	375	8	.	.	.	.	.	.	.	.	383
1.00 - 1.99	418	402	12	.	59	.	.	.	.	.	891
2.00 - 2.99	.	43	9	1	87	.	.	.	.	.	140
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	793	453	21	1	146	0	0	0	0	0	1414

STATION: 47 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	251	1	.	.	.	.	.	.	.	.	252
1.00 - 1.99	527	477	1	.	31	.	.	.	.	.	1036
2.00 - 2.99	.	64	5	.	76	.	.	.	.	.	145
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	778	542	6	0	107	0	0	0	0	0	1433

STATION: 47 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2763	3105	6313	4231	2014	1269	553	197	50	5	20500
1.00 - 1.99	2078	6977	4828	3998	3355	1461	722	236	92	24	23771
2.00 - 2.99	.	420	1759	1777	2053	468	332	112	53	1	6975
3.00 - 3.99	.	.	41	447	324	78	67	28	31	2	1018
4.00 - 4.99	.	.	.	34	107	35	12	15	15	.	218
5.00 - 5.99	.	.	.	2	23	49	12	16	16	.	118
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4841	10502	12941	10489	7876	3360	1698	604	257	32	52600

STATION: 47

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	178	183	174	247	426	491	587	824	584	359	236	222	4511
2.50 - 4.99	1143	1003	1274	1509	1938	2079	2228	2477	2049	1611	1374	1251	19936
5.00 - 7.49	829	871	954	912	1061	949	1047	751	808	1031	1004	829	11046
7.50 - 9.99	1151	1088	1096	1060	814	665	565	342	600	978	1066	1110	10535
10.00 - 12.49	617	424	501	374	161	114	33	42	182	315	351	584	3698
12.50 - 14.99	395	382	326	183	61	15	4	10	71	147	248	377	2219
15.00 - 17.49	92	80	90	26	2	2	.	9	8	19	32	43	403
17.50 - 19.99	48	40	34	9	1	2	.	7	12	4	9	39	205
20.00 - GREATER	11	1	15	.	.	3	.	2	6	.	.	9	47
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.50 N, LONG: 76.50 W, DEPTH: 9 M

STATION: 47

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	892	784	617	502	438	262	123	270	423	757	727	839	6634
22.50 - 67.49 (45.0)	580	587	552	422	497	561	324	734	1266	1181	791	656	8151
67.50 - 112.49 (90.0)	259	254	374	272	450	496	314	483	645	649	415	248	4859
112.50 - 157.49 (135.0)	247	240	378	334	365	331	293	447	372	291	358	197	3853
157.50 - 202.49 (180.0)	349	393	610	740	874	633	654	617	429	317	487	391	6494
202.50 - 247.49 (225.0)	505	642	795	900	1109	1429	1897	1246	659	446	497	712	10837
247.50 - 292.49 (270.0)	763	528	519	655	448	427	711	517	342	420	517	698	6545
292.50 - 337.49 (315.0)	869	644	619	495	283	181	148	150	184	403	528	723	5227
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 47

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.35	1.46	1.27	1.26	1.33	1.11	0.73	1.36	0.99	1.40	1.13	1.43	1.23
1977	1.26	1.16	1.28	1.49	0.85	0.83	0.73	0.76	0.73	1.37	1.70	1.38	1.13
1978	1.67	1.34	1.42	1.29	1.21	0.79	0.81	0.79	1.38	1.20	1.42	1.31	1.22
1979	1.70	1.68	1.60	1.32	1.33	1.09	0.85	0.86	1.69	1.05	1.49	1.30	1.33
1980	1.56	1.22	1.88	1.48	0.93	1.17	0.92	1.08	1.18	1.23	1.49	1.84	1.33
1981	1.09	2.14	1.74	1.35	1.27	0.92	0.85	0.91	1.39	1.35	1.28	1.26	1.29
1982	1.25	1.41	1.12	1.19	0.80	0.99	0.79	0.70	1.05	1.37	1.44	1.15	1.10
1983	1.49	1.70	1.60	1.29	1.14	0.97	0.74	0.70	1.09	1.63	1.41	1.73	1.29
1984	1.67	1.50	1.56	1.36	1.21	0.74	0.99	0.58	1.56	1.19	1.56	1.15	1.25
1985	1.29	1.32	1.37	1.16	0.95	0.84	0.82	0.73	1.29	1.46	1.62	1.16	1.17
1986	1.35	1.16	1.63	1.18	1.07	1.07	0.81	1.16	1.13	1.19	1.39	1.58	1.23
1987	1.81	1.38	1.57	1.39	1.05	0.91	0.72	0.94	0.97	1.05	1.16	1.17	1.18
1988	1.37	1.18	1.22	1.18	1.04	0.89	0.97	1.00	1.17	1.07	1.44	2.15	1.22
1989	1.34	1.37	1.55	1.34	1.10	1.06	0.97	1.10	2.11	1.27	1.40	1.25	1.32
1990	1.29	1.61	1.71	2.08	2.03	1.92	1.55	0.95	1.99	1.44	2.01	1.59	1.68
1991	1.35	1.16	1.61	1.18	1.10	1.07	0.97	0.98	1.41	1.29	1.19	1.27	1.22
1992	1.74	2.14	2.16	2.00	1.87	1.77	1.87	1.15	0.96	1.11	2.03	1.51	1.69
1993	1.76	1.36	1.69	1.51	1.07	0.87	0.68	1.01	0.92	1.29	1.58	1.28	1.25
MEAN	1.46	1.46	1.55	1.39	1.19	1.06	0.93	0.93	1.28	1.28	1.48	1.42	

STATION: 47

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	27 917	461018	29 919	4911 9	291015	22 7 6	19 819	571710	311510	3010 8	29 922	381021	571710
1977	39 911	30 917	341017	451019	22 813	19 721	17 6 5	17 722	16 9 9	3610 8	3912 9	32 919	451019
1978	571318	3311 8	28 822	311019	321018	17 718	14 621	151114	481313	361312	31 9 9	30 921	571318
1979	501118	571310	431117	421019	28 919	26 8 8	21 915	241615	351016	2610 9	401117	331021	571310
1980	3810 9	281910	4413 8	431217	19 814	311021	20 810	481916	311512	4911 9	421810	571510	571510
1981	21 821	5713 9	451118	361118	31 8 9	23 920	20 820	36 918	481813	3211 8	3812 8	29 817	5713 9
1982	29 813	27 8 8	27 819	311016	12 518	461118	26 920	19 722	23 9 7	5313 9	411610	25 7 9	5313 9
1983	38 9 9	491110	511210	31 917	27 919	19 6 5	15 622	19 722	2810 7	3511 8	301510	3810 9	511210
1984	4812 8	381019	381218	381017	431019	19 914	271020	12 5 3	571318	331214	4212 8	261113	571318
1985	27 821	37 917	31 919	351119	18 6 4	291021	231019	20 6 4	571514	4510 8	36 918	24 922	571514
1986	2914 9	29 820	421017	29 819	2516 9	371016	25 820	571117	2313 9	31 9 9	31 9 9	5714 9	5714 9
1987	5712 9	4910 9	471217	281116	16 913	17 622	16 619	17 723	231217	2211 9	271013	28 918	5712 9
1988	351610	311017	25 820	25 918	18 6 4	17 619	22 918	20 816	281613	23 8 7	391118	3117 9	391118
1989	4511 9	3512 9	3311 7	26 816	27 918	28 919	22 719	251112	571913	2615 9	31 918	32 810	571913
1990	351017	371017	321018	2710 7	281117	25 7 1	271116	421614	361410	301110	3111 0	37 917	421614
1991	341015	361020	441217	26 8 9	20 7 7	24 8 7	16 620	571213	571813	311211	3311 8	34 921	571813
1992	421212	3612 7	30 919	3511 1	25 7 5	231113	25 722	211120	22 6 3	27 8 6	291017	391014	421212
1993	5413 9	291110	571319	371117	201310	13 5 4	14 618	571410	391310	24 819	461214	391017	571410
MAX	5712 9	5713 9	571319	4911 9	431019	461118	271116	571410	571813	5313 9	461214	5714 9	

MAX Hmo(m): 5.7 MAX Tp(sec): 14. MAX Dp(deg): 104. DATE(gmt): 93083121

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 5. DATE(gmt): 85092703

MEAN Hmo(m): 1.3 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.25 W, DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 48

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	293	230	231	258	168	262	437	312	237	251	225	360	3264
0.50 - 0.99	1289	1290	1196	1534	2140	2453	2764	2920	2019	1682	1251	1554	22092
1.00 - 1.49	1373	1197	1433	1364	1427	1097	867	880	1087	1406	1477	1118	14726
1.50 - 1.99	804	729	700	632	453	355	296	221	541	697	727	735	6890
2.00 - 2.49	354	311	423	257	172	95	82	58	230	258	350	400	2990
2.50 - 2.99	169	139	225	139	66	32	14	16	98	118	157	169	1342
3.00 - 3.49	92	92	135	62	30	16	4	20	35	30	87	62	665
3.50 - 3.99	56	41	68	49	5	5	.	13	20	8	35	28	328
4.00 - 4.49	25	21	30	18	2	2	.	4	22	7	8	9	148
4.50 - 4.99	6	13	11	7	1	.	.	8	7	6	3	5	67
5.00 - 5.49	1	5	7	.	.	2	.	7	7	1	.	6	36
5.50 - 5.99	1	4	2	.	.	1	.	3	5	.	.	3	19
6.00 - 6.49	1	.	3	.	.	.	.	1	3	.	.	6	14
6.50 - 6.99	.	.	.	.	.	.	.	1	4	.	.	4	9
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	2	3
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	1	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	2	2
9.50 - 9.99	.	.	.	.	.	.	.	.	1	.	.	.	1
10.00 - GREATER	.	.	.	.	.	.	.	.	2	.	.	.	2
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 48

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	183	202	127	125	102	111	196	96	67	122	136	232	1699
4.0 - 4.9	709	666	544	518	421	403	477	411	341	545	523	771	6329
5.0 - 5.9	631	561	496	505	531	693	856	612	495	437	440	640	6897
6.0 - 6.9	294	355	444	516	676	964	809	837	629	444	390	366	6724
7.0 - 7.9	250	299	472	564	922	1000	837	974	792	597	444	326	7477
8.0 - 8.9	357	401	521	508	746	736	777	824	691	645	549	404	7159
9.0 - 9.9	435	436	460	488	474	255	353	270	350	618	605	426	5170
10.0 - 10.9	488	440	478	421	267	114	96	111	207	422	491	381	3916
11.0 - 11.9	348	271	325	265	128	28	21	75	118	202	310	276	2367
12.0 - 12.9	300	123	198	147	65	9	25	57	92	167	83	152	1418
13.0 - 13.9	201	82	139	86	44	2	9	45	140	119	79	165	1111
14.0 - 14.9	78	39	89	54	23	4	7	56	107	50	78	106	691
15.0 - 15.9	47	44	29	66	34	1	1	33	89	48	61	90	543
16.0 - 16.9	55	38	47	31	18	.	.	17	80	12	41	76	415
17.0 - 17.9	36	39	28	10	8	.	.	14	45	12	27	25	244
18.0 - 18.9	20	30	15	6	5	.	.	14	28	15	13	19	165
19.0 - 19.9	14	22	13	2	.	.	.	6	18	7	21	5	108
20.0 - LONGER	18	24	39	8	.	.	.	12	31	2	29	4	167
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 48

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	205	213	135	115	88	52	10	8	46	141	161	232	1406
11.25 - 33.74 (22.5)	161	167	119	48	75	55	25	41	80	160	118	205	1254
33.75 - 56.24 (45.0)	103	135	90	83	68	92	50	75	185	142	85	126	1234
56.25 - 78.74 (67.5)	143	142	145	164	103	113	94	135	239	257	125	146	1806
78.75 - 101.24 (90.0)	861	660	793	724	622	366	203	528	1147	1404	1060	884	9252
101.25 - 123.74 (112.5)	950	800	841	776	1088	964	1050	1534	1388	1183	1119	807	12500
123.75 - 146.24 (135.0)	506	426	602	624	790	986	1019	962	705	502	558	379	8059
146.25 - 168.74 (157.5)	234	244	374	417	391	280	168	218	140	131	244	219	3060
168.75 - 191.24 (180.0)	173	189	331	345	422	220	289	220	118	86	189	175	2757
191.25 - 213.74 (202.5)	173	228	283	353	335	577	688	378	111	100	111	245	3582
213.75 - 236.24 (225.0)	164	229	226	210	233	405	558	243	96	99	135	256	2854
236.25 - 258.74 (247.5)	79	114	97	113	75	131	179	85	35	45	51	113	1117
258.75 - 281.24 (270.0)	144	68	52	79	36	34	101	30	9	46	72	124	795
281.25 - 303.74 (292.5)	191	98	94	75	36	15	21	1	7	20	85	144	787
303.75 - 326.24 (315.0)	188	145	137	97	34	13	4	2	10	49	88	206	973
326.25 - 348.74 (337.5)	189	214	145	97	68	17	5	4	4	99	119	203	1164
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 48 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	952										952
1.00 - 1.99	1168	430	1								1599
2.00 - 2.99		95	2								97
3.00 - 3.99		2	1								3
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2120	527	4	0	0	0	0	0	0	0	2651

STATION: 48 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	614	102	12	7	9	1					745
1.00 - 1.99	509	1102	27	1							1639
2.00 - 2.99		174	2								176
3.00 - 3.99		6									6
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1123	1384	41	8	9	1	0	0	0	0	2566

STATION: 48 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	356	1011	2045	1862	1019	694	448	160	76	7	7678
1.00 - 1.99	79	1014	1402	1362	953	512	245	157	86	15	5825
2.00 - 2.99		106	370	291	175	116	55	11	23		1147
3.00 - 3.99			59	77	71	28	17		6		258
4.00 - 4.99			7	22	18	15	1	2			65
5.00 - 5.99				6	5	5	3	3			22
6.00 - 6.99					3	5	4				12
7.00 - 7.99						1		1			2
8.00 - 8.99							1				1
9.00 - GREATER							2				2
TOTAL	435	2131	3883	3620	2244	1376	776	334	191	22	15012

STATION: 48 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	203	1709	5629	2657	496	80	21	6	6	1	10808
1.00 - 1.99	40	829	1959	1744	608	205	71	31	19	8	5514
2.00 - 2.99		55	338	313	236	95	79	16	3	1	1136
3.00 - 3.99			57	107	60	17	8	9	8		266
4.00 - 4.99			1	19	16	9		7	9		61
5.00 - 5.99				3	7	5		5	2		22
6.00 - 6.99					1	1	1		5		8
7.00 - 7.99						1					1
8.00 - 8.99						1					1
9.00 - GREATER						1	1	1			3
TOTAL	243	2593	7984	4843	1424	415	181	75	52	10	17820

STATION: 48 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	516	1094	405	67	13						2095
1.00 - 1.99	110	1544	488	172	25	1					2340
2.00 - 2.99		124	593	56	14	2	1				790
3.00 - 3.99			125	149	10	2					286
4.00 - 4.99				49	21	2					72
5.00 - 5.99				2	7	1					10
6.00 - 6.99					1	2					3
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	626	2762	1611	495	91	10	1	0	0	0	5596

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 48 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	857	757	143	2	4	.	.	.	.	.	1763
1.00 - 1.99	210	2333	215	7	.	.	.	.	.	.	2765
2.00 - 2.99	.	142	616	26	.	.	.	.	.	.	784
3.00 - 3.99	.	.	91	70	7	.	.	.	.	.	168
4.00 - 4.99	.	.	.	11	6	.	.	.	.	.	17
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1067	3232	1065	117	17	0	0	0	0	0	5498

STATION: 48 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	775	9	.	.	.	.	.	.	.	.	784
1.00 - 1.99	474	189	4	.	.	.	.	.	.	.	667
2.00 - 2.99	.	19	37	1	.	.	.	.	.	.	57
3.00 - 3.99	.	.	1	2	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1249	217	42	3	0	0	0	0	0	0	1511

STATION: 48 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	531	.	.	.	.	.	.	.	.	.	531
1.00 - 1.99	634	632	1	.	.	.	.	.	.	.	1267
2.00 - 2.99	.	142	3	.	.	.	.	.	.	.	145
3.00 - 3.99	.	1	2	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1165	775	6	0	0	0	0	0	0	0	1946

STATION: 48 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4804	4682	8234	4595	1541	775	469	166	82	8	25356
1.00 - 1.99	3224	8073	4097	3286	1586	718	316	188	105	23	21616
2.00 - 2.99	.	857	1961	687	425	213	135	27	26	1	4332
3.00 - 3.99	.	9	336	405	148	47	25	9	14	.	993
4.00 - 4.99	.	.	8	101	61	26	1	9	9	.	215
5.00 - 5.99	.	.	.	12	19	11	3	8	2	.	55
6.00 - 6.99	.	.	.	.	5	8	5	.	5	.	23
7.00 - 7.99	.	.	.	.	.	2	.	1	.	.	3
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	1	3	1	.	.	5
TOTAL	8028	13621	14636	9086	3785	1802	958	409	243	32	52600

STATION: 48

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	186	196	197	261	473	529	633	828	587	394	270	232	4786
2.50 - 4.99	1115	996	1240	1456	1834	1992	2140	2397	1992	1557	1294	1208	19221
5.00 - 7.49	821	837	931	911	1055	923	1022	780	814	1007	1002	829	10932
7.50 - 9.99	1131	1074	1088	1046	841	711	619	390	634	987	1065	1075	10661
10.00 - 12.49	619	445	516	391	187	139	45	41	199	331	368	622	3903
12.50 - 14.99	435	389	334	207	71	18	5	8	70	158	277	390	2362
15.00 - 17.49	100	84	100	39	2	2	.	7	12	23	35	57	461
17.50 - 19.99	47	50	39	9	1	1	.	6	8	7	9	36	213
20.00 - GREATER	10	1	19	.	.	5	.	7	4	.	.	15	61
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.25 W, DEPTH: 22 M

STATION: 48

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	923	812	651	512	445	271	137	295	442	766	749	869	6872
22.50 - 67.49 (45.0)	579	572	552	444	540	578	352	738	1249	1182	772	646	8204
67.50 - 112.49 (90.0)	241	246	359	256	427	495	322	462	619	581	389	228	4625
112.50 - 157.49 (135.0)	239	225	367	317	338	292	286	451	372	296	338	188	3709
157.50 - 202.49 (180.0)	348	377	576	701	853	596	580	580	398	336	505	380	6230
202.50 - 247.49 (225.0)	515	643	818	928	1124	1460	1897	1263	697	458	512	736	11051
247.50 - 292.49 (270.0)	745	528	503	653	447	438	727	497	350	430	520	689	6527
292.50 - 337.49 (315.0)	874	669	638	509	290	190	163	178	193	415	535	728	5382
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 48

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.47	1.22	1.15	1.29	1.10	0.66	1.24	0.91	1.25	1.06	1.29	1.16
1977	1.15	1.12	1.24	1.34	0.85	0.77	0.70	0.76	0.68	1.32	1.63	1.21	1.06
1978	1.50	1.11	1.36	1.25	1.15	0.78	0.77	0.76	1.25	1.01	1.27	1.21	1.12
1979	1.58	1.44	1.50	1.20	1.27	1.05	0.82	0.81	1.55	1.04	1.39	1.15	1.23
1980	1.40	1.08	1.71	1.31	0.88	1.24	0.92	0.96	1.13	1.14	1.27	1.78	1.23
1981	1.02	1.88	1.51	1.43	1.24	0.88	0.84	0.91	1.19	1.25	1.17	1.22	1.21
1982	1.15	1.33	1.07	1.18	0.73	0.96	0.79	0.70	0.99	1.12	1.36	1.10	1.04
1983	1.44	1.50	1.60	1.19	1.17	0.96	0.71	0.68	0.96	1.48	1.30	1.60	1.21
1984	1.39	1.44	1.41	1.25	1.18	0.76	1.03	0.58	1.46	1.06	1.42	1.06	1.17
1985	1.18	1.24	1.43	1.17	0.91	0.84	0.82	0.72	1.26	1.42	1.43	1.10	1.12
1986	1.21	1.03	1.53	1.08	0.94	1.08	0.79	1.04	1.00	1.05	1.34	1.46	1.13
1987	1.49	1.30	1.31	1.24	0.99	0.90	0.72	0.93	0.95	0.97	1.12	1.10	1.08
1988	1.20	1.13	1.19	1.10	1.00	0.87	1.03	1.03	1.09	0.95	1.41	0.99	1.08
1989	1.31	1.30	1.50	1.25	1.04	1.06	0.95	1.03	1.84	1.16	1.33	1.11	1.24
1990	1.25	1.55	1.32	1.28	1.24	1.05	1.10	0.85	1.09	1.27	1.03	1.48	1.21
1991	1.23	1.14	1.55	1.10	1.04	1.01	0.98	0.94	1.32	1.16	1.10	1.22	1.15
1992	1.39	1.24	1.33	1.05	1.01	0.82	0.87	0.83	0.91	0.96	1.24	1.39	1.09
1993	1.53	1.26	1.50	1.40	1.03	0.85	0.66	0.98	0.91	1.20	1.46	1.16	1.16
MEAN	1.32	1.31	1.40	1.22	1.05	0.94	0.84	0.87	1.14	1.16	1.29	1.26	

STATION: 48

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	30 722	471221	35 920	381110	34 817	20 721	21 721	541810	281510	271013	36 922	39 922	541810
1977	37 810	35 917	40 916	461021	23 812	19 619	16 623	22 722	14 8 9	321013	40 9 9	37 821	461021
1978	631318	26 9 9	33 822	421020	33 817	19 721	16 621	131113	421312	33 8 9	27 910	36 823	631318
1979	491118	571110	511116	481020	33 919	26 6 8	21 914	191613	35 916	32 9 9	391015	40 922	571110
1980	44 9 9	27 632	451019	451017	25 723	411021	24 910	361814	29 8 9	501210	36 810	941610	941610
1981	23 720	511214	521117	471117	34 7 9	27 723	24 821	38 820	441812	32 824	30 922	36 819	521117
1982	33 913	26 8 9	24 723	35 917	14 618	561118	32 822	23 723	21 9 8	481310	381610	29 817	561118
1983	40 9 9	561010	621210	34 815	33 917	21 720	15 623	23 722	24 7 8	32 7 8	35 817	36 821	621210
1984	3612 9	43 923	421021	42 917	461019	19 913	341021	13 4 3	551214	291213	3011 8	26 722	551214
1985	29 633	431021	391123	451219	17 618	381021	24 715	17 5 4	1191613	361010	30 816	29 922	1191613
1986	25 631	29 820	461018	32 819	24 717	351014	31 821	591016	21 722	29 910	32 8 9	661410	661410
1987	45 911	511010	521116	28 814	15 810	20 622	20 718	20 722	25 810	1912 9	30 916	33 918	521116
1988	351510	32 817	31 917	30 921	21 719	19 620	27 819	23 721	28 721	24 723	441119	27 819	441119
1989	4210 9	32 816	34 919	29 716	33 817	32 920	25 817	241112	672012	25 912	36 917	34 810	672012
1990	401016	40 916	381018	30 818	35 917	22 722	241114	311613	301510	28 716	35 815	39 917	40 916
1991	39 914	42 922	451018	30 810	23 6 7	21 8 8	19 721	591213	561812	271211	30 6 3	40 918	591213
1992	411019	2810 8	35 821	29 816	23 623	14 523	25 723	19 720	19 5 3	23 5 3	37 818	421013	421013
1993	4013 9	34 819	641319	391016	23 723	16 622	17 618	671412	411411	30 8 9	471213	43 921	671412
MAX	631318	571110	641319	481020	461019	561118	341021	671412	1191613	501210	471213	941610	

MAX Hmo(m): 11.9 MAX Tp(sec): 16. MAX Dp(deg): 130. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 25. DATE(gmt): 85092703

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.00 W, DEPTH: 35 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 49

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	202	163	146	133	99	136	231	190	166	187	173	249	2075
0.50 - 0.99	1033	1047	960	1300	1720	2197	2622	2687	1803	1453	1046	1362	19230
1.00 - 1.49	1297	1187	1391	1409	1661	1328	1102	1155	1144	1418	1400	1097	15589
1.50 - 1.99	912	832	832	733	605	437	360	257	636	756	854	765	7979
2.00 - 2.49	491	394	471	378	228	135	115	89	299	349	439	521	3909
2.50 - 2.99	233	180	278	158	82	50	23	22	136	174	191	236	1763
3.00 - 3.49	139	109	180	105	45	15	8	18	45	83	126	115	988
3.50 - 3.99	73	73	99	36	18	11	3	15	26	24	49	58	485
4.00 - 4.49	45	40	49	41	3	5	.	8	19	7	34	26	277
4.50 - 4.99	23	22	30	14	1	3	.	5	18	6	5	7	134
5.00 - 5.49	9	13	11	12	2	1	.	9	4	6	3	6	76
5.50 - 5.99	4	8	8	1	.	.	.	1	8	1	.	4	35
6.00 - 6.49	1	4	5	.	.	2	.	3	5	.	.	2	22
6.50 - 6.99	1	.	2	.	.	.	.	3	4	.	.	4	14
7.00 - 7.49	1	.	.	.	.	.	.	.	2	.	.	6	9
7.50 - 7.99	.	.	2	.	.	.	.	2	.	.	.	1	5
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	2	3
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	1	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	3	3
10.00 - GREATER	.	.	.	.	.	.	.	.	3	.	.	.	3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 49

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	92	82	62	46	35	39	48	34	40	61	78	106	723
4.0 - 4.9	568	540	407	413	337	313	481	371	268	438	441	674	5251
5.0 - 5.9	716	608	494	531	564	710	877	640	553	484	536	771	7484
6.0 - 6.9	382	399	451	538	717	1005	963	835	603	509	426	366	7194
7.0 - 7.9	314	371	564	642	1022	1097	892	1049	824	630	471	379	8255
8.0 - 8.9	402	456	607	589	800	746	751	850	740	697	613	474	7725
9.0 - 9.9	488	521	512	513	438	269	333	252	368	622	621	457	5394
10.0 - 10.9	469	455	439	419	262	106	71	112	214	419	463	374	3803
11.0 - 11.9	330	253	320	241	111	23	18	73	105	212	269	274	2229
12.0 - 12.9	288	103	230	160	69	7	22	60	92	153	79	145	1408
13.0 - 13.9	185	80	151	76	45	4	6	48	131	114	74	162	1076
14.0 - 14.9	72	45	77	61	30	1	2	51	107	48	89	111	694
15.0 - 15.9	43	40	32	56	23	.	.	31	95	39	54	82	495
16.0 - 16.9	53	33	42	12	6	.	.	19	64	6	37	64	336
17.0 - 17.9	19	29	16	10	4	.	.	12	41	12	15	8	166
18.0 - 18.9	19	25	10	5	1	.	.	10	29	13	13	10	135
19.0 - 19.9	10	16	15	1	.	.	.	5	16	6	14	5	88
20.0 - LONGER	14	16	35	7	.	.	.	12	30	1	27	2	144
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 49

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	155	143	94	77	67	39	7	7	38	125	119	180	1051
11.25 - 33.74 (22.5)	142	130	87	50	65	60	28	48	79	127	107	164	1087
33.75 - 56.24 (45.0)	300	331	295	243	181	141	77	123	332	363	213	304	2903
56.25 - 78.74 (67.5)	280	270	213	283	177	136	77	165	305	449	256	345	2956
78.75 - 101.24 (90.0)	641	468	625	515	532	361	194	575	1100	1173	913	595	7692
101.25 - 123.74 (112.5)	694	590	686	638	922	809	808	1321	1148	955	922	686	10179
123.75 - 146.24 (135.0)	436	399	477	457	674	861	978	862	633	484	487	302	7050
146.25 - 168.74 (157.5)	324	259	380	447	342	291	221	261	217	165	295	225	3427
168.75 - 191.24 (180.0)	296	335	554	536	657	377	417	355	153	146	283	277	4386
191.25 - 213.74 (202.5)	171	244	300	371	345	582	722	337	142	96	125	257	3692
213.75 - 236.24 (225.0)	164	222	244	255	250	448	603	277	92	101	139	271	3066
236.25 - 258.74 (247.5)	117	125	104	104	82	137	235	98	44	59	72	153	1330
258.75 - 281.24 (270.0)	194	102	57	103	42	38	80	30	15	65	98	170	994
281.25 - 303.74 (292.5)	197	109	104	100	33	12	11	1	10	22	101	141	841
303.75 - 326.24 (315.0)	189	148	128	72	31	12	1	2	5	57	71	234	950
326.25 - 348.74 (337.5)	164	197	116	69	64	16	5	2	7	77	119	160	996
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.00 W, DEPTH: 35 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 49 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	546										546
1.00 - 1.99	1050	277	1								1328
2.00 - 2.99		92									92
3.00 - 3.99		4	1								5
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1596	373	2	0	0	0	0	0	0	0	1971

STATION: 49 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	391	176	191	325	343	264	74	11	3		1778
1.00 - 1.99	207	1558	99	105	80	114	62	12	2		2239
2.00 - 2.99		460	261	50	30	12	5	2			820
3.00 - 3.99		13	46	84	33	8					184
4.00 - 4.99			7	7	18	4					36
5.00 - 5.99					1						1
6.00 - 6.99					1						1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	598	2207	604	571	506	402	141	25	5	0	5059

STATION: 49 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	246	814	1987	1390	653	366	219	67	39	5	5786
1.00 - 1.99	40	943	1528	1533	821	439	206	119	81	13	5723
2.00 - 2.99		86	400	196	165	115	57	14	27		1060
3.00 - 3.99			90	103	52	26	17		3		291
4.00 - 4.99			11	38	25	9	2	1			86
5.00 - 5.99				10	10	9	2	3			34
6.00 - 6.99				2	5	5	1				13
7.00 - 7.99					1	4	2				7
8.00 - 8.99						1		1			2
9.00 - GREATER							3				3
TOTAL	286	1843	4016	3272	1732	974	509	205	150	18	13005

STATION: 49 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	148	1252	4626	2026	345	52	11	7	3	1	8471
1.00 - 1.99	41	750	2018	1559	501	175	72	27	21	7	5171
2.00 - 2.99		52	394	307	203	109	79	14	3	1	1162
3.00 - 3.99			65	113	43	17	12	5	4		259
4.00 - 4.99			4	22	26	6	1	8	8		75
5.00 - 5.99				6	6	5		4	3		24
6.00 - 6.99				1		3		1	5		10
7.00 - 7.99					1	1	1	1			4
8.00 - 8.99						1					1
9.00 - GREATER						2	1	1			4
TOTAL	189	2054	7107	4034	1125	371	177	68	47	9	15181

STATION: 49 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	386	1321	587	68	9	5	1				2377
1.00 - 1.99	92	1726	1445	404	52	3					3722
2.00 - 2.99		126	665	322	65	3					1181
3.00 - 3.99			167	240	49	3	3	3	3		468
4.00 - 4.99			10	86	47	5					145
5.00 - 5.99				21	21	5					47
6.00 - 6.99					11	1					12
7.00 - 7.99					1	1					2
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	478	3173	2874	1141	255	23	4	3	3	0	7954

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.00 W, DEPTH: 35 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 49 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	657	646	139	.	8	.	.	.	.	.	1450
1.00 - 1.99	190	2518	282	8	.	.	.	.	.	.	2998
2.00 - 2.99	.	192	759	4	.	.	.	.	.	.	955
3.00 - 3.99	.	.	143	109	.	.	.	.	.	.	252
4.00 - 4.99	.	.	8	54	6	.	.	.	.	.	68
5.00 - 5.99	.	.	.	1	4	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	847	3356	1331	176	19	0	0	0	0	0	5729

STATION: 49 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	462	16	.	.	.	.	.	.	.	.	478
1.00 - 1.99	516	672	5	.	.	.	.	.	.	.	1193
2.00 - 2.99	.	169	34	.	.	.	.	.	.	.	203
3.00 - 3.99	.	4	1	2	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	978	861	40	3	0	0	0	0	0	0	1882

STATION: 49 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	418	1	.	.	.	.	.	.	.	.	419
1.00 - 1.99	584	609	1	.	.	.	.	.	.	.	1194
2.00 - 2.99	.	196	3	.	.	.	.	.	.	.	199
3.00 - 3.99	.	5	2	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1002	811	6	0	0	0	0	0	0	0	1819

STATION: 49 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3254	4226	7530	3809	1358	687	305	85	45	6	21305
1.00 - 1.99	2720	9053	5379	3609	1454	731	340	158	104	20	23568
2.00 - 2.99	.	1373	2516	879	463	239	141	30	30	1	5672
3.00 - 3.99	.	26	515	651	177	54	32	8	10	.	1473
4.00 - 4.99	.	.	40	208	122	21	3	9	8	.	411
5.00 - 5.99	.	.	.	38	42	19	2	7	3	.	111
6.00 - 6.99	.	.	.	3	17	9	1	1	5	.	36
7.00 - 7.99	.	.	.	.	4	6	3	1	.	.	14
8.00 - 8.99	.	.	.	.	.	2	.	1	.	.	3
9.00 - GREATER	.	.	.	.	.	2	4	1	.	.	7
TOTAL	5974	14678	15980	9197	3637	1770	831	301	205	27	52600

STATION: 49

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	174	195	188	254	465	503	611	787	566	367	257	218	4585
2.50 - 4.99	1085	960	1199	1429	1780	1952	2094	2381	1979	1543	1258	1186	18846
5.00 - 7.49	815	813	933	898	1080	940	1040	802	831	1015	1004	828	10999
7.50 - 9.99	1138	1097	1102	1056	851	748	662	421	654	978	1078	1055	10840
10.00 - 12.49	630	450	514	404	207	144	50	44	191	357	377	645	4013
12.50 - 14.99	450	408	353	228	78	25	7	8	74	173	298	417	2519
15.00 - 17.49	112	92	108	41	2	2	.	4	9	22	33	63	488
17.50 - 19.99	49	54	49	10	1	2	.	7	11	9	14	38	244
20.00 - GREATER	11	3	18	.	.	4	.	10	5	.	1	14	66
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 34.75 N, LONG: 76.00 W, DEPTH: 35 M

STATION: 49

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	933	818	681	529	451	280	141	305	456	781	752	881	7008
22.50 - 67.49 (45.0)	569	577	541	457	557	579	353	724	1245	1164	776	644	8186
67.50 - 112.49 (90.0)	252	241	361	231	403	490	311	450	612	580	394	222	4547
112.50 - 157.49 (135.0)	229	223	343	310	339	278	278	463	366	294	325	187	3635
157.50 - 202.49 (180.0)	361	374	575	712	856	607	583	580	414	347	511	380	6300
202.50 - 247.49 (225.0)	517	650	824	936	1132	1479	1929	1273	679	463	517	743	11142
247.50 - 292.49 (270.0)	730	509	504	638	441	421	703	492	362	428	499	675	6402
292.50 - 337.49 (315.0)	873	680	635	507	285	186	166	177	186	407	546	732	5380
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 49

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.44	1.66	1.34	1.27	1.45	1.20	0.77	1.33	0.95	1.42	1.18	1.48	1.29
1977	1.30	1.25	1.36	1.49	0.91	0.88	0.79	0.84	0.74	1.48	1.72	1.38	1.18
1978	1.72	1.28	1.50	1.41	1.34	0.84	0.85	0.82	1.39	1.11	1.42	1.40	1.26
1979	1.79	1.63	1.62	1.33	1.40	1.14	0.89	0.88	1.69	1.13	1.55	1.32	1.36
1980	1.61	1.20	1.95	1.50	0.97	1.38	1.04	1.04	1.19	1.27	1.41	1.98	1.38
1981	1.16	2.12	1.75	1.57	1.38	1.01	0.93	0.98	1.30	1.43	1.36	1.39	1.36
1982	1.33	1.48	1.17	1.31	0.79	1.08	0.84	0.77	1.09	1.26	1.50	1.24	1.15
1983	1.58	1.64	1.78	1.31	1.26	1.04	0.79	0.75	1.11	1.64	1.41	1.82	1.34
1984	1.66	1.60	1.58	1.42	1.34	0.81	1.12	0.64	1.61	1.17	1.59	1.15	1.30
1985	1.33	1.41	1.57	1.31	1.00	0.95	0.87	0.78	1.41	1.53	1.55	1.22	1.24
1986	1.36	1.17	1.74	1.22	1.06	1.18	0.89	1.17	1.09	1.21	1.45	1.65	1.27
1987	1.72	1.46	1.55	1.39	1.07	0.97	0.78	0.99	1.02	1.07	1.20	1.20	1.20
1988	1.34	1.26	1.32	1.26	1.11	0.98	1.10	1.11	1.18	1.07	1.54	1.12	1.20
1989	1.46	1.47	1.69	1.44	1.17	1.15	1.04	1.10	1.99	1.30	1.45	1.28	1.38
1990	1.39	1.76	1.48	1.40	1.37	1.14	1.17	0.90	1.17	1.35	1.13	1.61	1.32
1991	1.40	1.26	1.75	1.23	1.12	1.12	1.07	1.05	1.42	1.28	1.23	1.36	1.27
1992	1.56	1.42	1.46	1.17	1.12	0.90	0.96	0.92	1.02	1.06	1.38	1.56	1.21
1993	1.80	1.44	1.72	1.58	1.13	0.92	0.74	1.07	1.00	1.34	1.64	1.32	1.31
MEAN	1.50	1.47	1.57	1.37	1.17	1.04	0.93	0.95	1.24	1.28	1.43	1.42	

STATION: 49

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 917	581020	421020	4711 9	36 918	25 6 5	23 721	561315	28 813	3210 5	40 923	46 923	581020
1977	43 8 7	37 918	42 917	541021	24 813	21 619	19 5 3	24 822	15 8 9	3510 7	42 9 9	41 920	541021
1978	731221	3411 5	37 823	47 922	381018	21 721	18 621	151213	471312	36 8 9	31 9 9	401021	731221
1979	581119	6210 9	571117	551119	36 920	29 7 8	25 915	20 721	37 917	34 9 8	451017	44 922	6210 9
1980	501017	29 632	511019	511117	27 822	461021	26 910	371816	31 8 9	5510 8	37 810	991610	991610
1981	24 721	591215	601118	541118	36 8 9	31 921	26 821	42 817	451812	37 825	4412 4	39 821	601118
1982	36 813	32 9 8	26 821	40 918	15 619	641119	35 822	24 723	28 6 4	501310	37 819	32 819	641119
1983	42 9 9	601010	691210	39 916	35 918	22 720	17 624	25 722	30 6 3	3510 7	39 918	42 922	691210
1984	4812 6	501020	491021	471017	521019	20 914	36 922	15 5 3	631216	341214	4111 6	27 723	631216
1985	30 633	46 923	451122	511219	17 618	441021	23 716	22 6 4	1361614	4210 8	39 817	30 923	1361614
1986	32 7 5	31 821	531018	35 820	27 6 3	441016	35 821	691117	22 722	32 9 9	36 7 7	7413 9	7413 9
1987	5211 9	5510 9	601216	32 821	16 912	20 622	21 719	20 622	27 810	241013	34 917	36 918	601216
1988	3616 9	35 821	35 919	34 921	23 720	21 625	30 918	24 820	30 819	26 822	501020	30 819	501020
1989	5010 8	3811 7	38 7 3	32 815	36 818	35 920	27 820	251112	692012	27 913	40 918	35 8 9	692012
1990	461017	451017	431018	33 918	40 918	24 821	261115	331614	3015 9	311011	39 815	43 918	461017
1991	42 914	45 922	521018	31 8 9	23 7 7	25 8 7	20 722	781213	581812	301312	4110 5	44 919	781213
1992	471020	3610 6	39 919	32 817	24 723	15 523	26 723	21 720	24 6 3	31 8 4	40 819	461014	471020
1993	5013 8	37 819	791319	451116	24 723	17 622	17 618	781412	421312	31 8 8	531214	47 921	791319
MAX	731221	6210 9	791319	551119	521019	641119	36 922	781412	1361614	5510 8	531214	991610	

MAX Hmo(m): 13.6 MAX Tp(sec): 16. MAX Dp(deg): 140. DATE(gmt): 85092703

MAX WIND SPEED(m/sec): 39. MAX WIND DIRECTION(deg): 40. DATE(gmt): 85092703

MEAN Hmo(m): 1.3 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 50

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	222	198	160	132	101	171	375	228	165	193	157	266	2368
0.50 - 0.99	1124	1097	983	1338	1747	2274	2614	2752	1787	1452	1118	1434	19720
1.00 - 1.49	1333	1166	1449	1413	1670	1256	973	1061	1256	1447	1433	1102	15559
1.50 - 1.99	861	828	782	750	582	398	359	260	591	793	819	783	7806
2.00 - 2.49	471	387	483	332	229	150	110	78	269	314	407	462	3692
2.50 - 2.99	211	170	293	180	93	41	24	18	129	152	197	226	1734
3.00 - 3.49	115	104	157	87	31	15	9	17	41	73	112	112	873
3.50 - 3.99	70	62	73	47	9	9	.	17	20	15	43	38	403
4.00 - 4.49	33	28	50	31	2	2	.	13	16	11	28	6	220
4.50 - 4.99	16	13	18	10	.	2	.	5	10	3	3	6	86
5.00 - 5.49	6	12	7	.	.	1	.	8	17	6	3	5	65
5.50 - 5.99	1	4	5	.	.	.	.	1	5	5	.	4	25
6.00 - 6.49	1	3	1	.	.	1	.	1	3	.	.	5	15
6.50 - 6.99	.	.	3	.	.	.	.	2	2	.	.	5	12
7.00 - 7.49	.	.	.	.	.	.	.	1	3	.	.	4	8
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	1	1
8.00 - 8.49	.	.	.	.	.	.	.	.	2	.	.	1	3
8.50 - 8.99	.	.	.	.	.	.	.	2	1	.	.	1	4
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	1	.	.	2	3
10.00 - GREATER	.	.	.	.	.	.	.	.	2	.	.	1	3
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 50

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	103	126	75	61	48	66	161	79	43	70	81	142	1055
4.0 - 4.9	566	549	439	344	370	346	411	388	314	445	444	659	5275
5.0 - 5.9	490	460	349	350	454	589	806	560	313	275	348	530	5524
6.0 - 6.9	278	322	370	399	622	913	888	799	530	362	332	287	6102
7.0 - 7.9	243	276	431	503	847	922	818	886	732	506	368	336	6868
8.0 - 8.9	352	413	501	515	753	738	761	849	689	653	537	420	7181
9.0 - 9.9	478	441	515	498	515	338	404	327	439	654	637	420	5666
10.0 - 10.9	530	478	476	460	301	173	133	134	289	485	512	431	4402
11.0 - 11.9	328	310	398	343	177	127	34	118	200	307	367	297	3006
12.0 - 12.9	355	152	296	248	152	51	28	101	172	276	124	208	2163
13.0 - 13.9	280	102	210	278	91	40	13	72	177	206	138	255	1862
14.0 - 14.9	176	126	169	183	81	11	5	60	134	119	164	178	1406
15.0 - 15.9	106	121	80	80	39	6	2	37	102	55	96	149	873
16.0 - 16.9	86	72	68	42	10	.	.	15	72	29	66	99	559
17.0 - 17.9	44	56	36	8	4	.	.	11	39	18	42	31	289
18.0 - 18.9	27	36	7	3	.	.	.	11	27	1	27	16	155
19.0 - 19.9	9	25	19	2	.	.	.	4	13	2	24	5	103
20.0 - LONGER	13	7	25	3	.	.	.	13	35	1	13	1	111
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 50

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	177	202	101	78	81	49	9	8	34	119	145	168	1171
11.25 - 33.74 (22.5)	113	138	81	47	62	62	32	48	66	98	104	150	1001
33.75 - 56.24 (45.0)	51	75	41	40	37	55	52	69	111	73	50	63	717
56.25 - 78.74 (67.5)	94	58	48	64	51	66	57	103	140	145	72	87	985
78.75 - 101.24 (90.0)	1015	839	1000	1185	895	688	271	640	1391	1775	1145	1047	11891
101.25 - 123.74 (112.5)	1020	845	941	824	959	768	814	1341	1326	1081	1233	992	12144
123.75 - 146.24 (135.0)	467	403	493	449	627	797	982	874	613	493	484	301	6983
146.25 - 168.74 (157.5)	344	299	417	401	416	296	227	273	222	159	294	213	3561
168.75 - 191.24 (180.0)	291	308	474	501	647	447	494	424	174	127	260	305	4452
191.25 - 213.74 (202.5)	120	157	235	247	262	516	683	322	98	110	97	193	3040
213.75 - 236.24 (225.0)	152	218	208	182	211	418	558	245	96	94	108	247	2737
236.25 - 258.74 (247.5)	70	91	70	79	67	93	186	86	27	33	47	106	955
258.75 - 281.24 (270.0)	95	37	38	50	32	28	83	27	4	28	44	95	561
281.25 - 303.74 (292.5)	146	82	73	55	23	8	14	2	7	15	65	112	602
303.75 - 326.24 (315.0)	152	127	118	60	33	9	1	1	8	43	63	202	817
326.25 - 348.74 (337.5)	157	193	126	58	61	20	1	1	3	71	109	183	983
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 50 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	592	1	.	.	.	.	.	.	.	.	593
1.00 - 1.99	1089	397	1	.	.	.	.	.	.	.	1487
2.00 - 2.99	.	88	1	.	.	.	.	.	.	.	89
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1681	486	3	0	0	0	0	0	0	0	2170

STATION: 50 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	399	87	3	2	.	.	.	.	.	.	491
1.00 - 1.99	652	342	51	.	.	.	.	.	.	.	1045
2.00 - 2.99	.	43	4	.	.	.	.	.	.	.	47
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1051	475	58	2	0	0	0	0	0	0	1586

STATION: 50 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	253	675	1649	1839	1655	1243	480	119	30	1	7944
1.00 - 1.99	71	965	1702	1677	1374	1213	546	169	60	8	7785
2.00 - 2.99	.	74	493	430	274	233	167	61	44	.	1776
3.00 - 3.99	.	.	51	146	117	47	30	11	5	.	407
4.00 - 4.99	.	.	1	22	40	31	4	2	3	.	103
5.00 - 5.99	.	.	.	3	17	16	3	2	.	.	41
6.00 - 6.99	.	.	.	.	4	6	4	.	.	.	14
7.00 - 7.99	.	.	.	.	.	3	1	1	.	.	5
8.00 - 8.99	.	.	.	.	.	1	.	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	2	1	.	.	3
TOTAL	324	1714	3896	4117	3481	2793	1237	367	142	9	18080

STATION: 50 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	139	1123	4245	2338	438	79	11	7	5	2	8387
1.00 - 1.99	39	730	1757	1846	643	196	76	30	18	8	5343
2.00 - 2.99	.	58	362	362	256	119	85	14	2	1	1259
3.00 - 3.99	.	.	51	130	56	21	17	7	6	1	289
4.00 - 4.99	.	.	.	23	39	12	1	9	7	.	91
5.00 - 5.99	.	.	.	3	6	11	.	6	8	.	34
6.00 - 6.99	.	.	.	.	.	3	.	2	3	.	8
7.00 - 7.99	.	.	.	.	1	.	.	1	2	.	4
8.00 - 8.99	.	.	.	.	.	3	1	1	.	.	5
9.00 - GREATER	.	.	.	.	.	1	2	.	.	.	3
TOTAL	178	1911	6415	4702	1439	445	193	77	51	12	15423

STATION: 50 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	357	1414	713	112	4	.	.	.	.	.	2600
1.00 - 1.99	127	1678	1107	463	58	2	.	.	.	.	3435
2.00 - 2.99	.	138	690	266	65	8	1	.	.	.	1168
3.00 - 3.99	.	.	122	232	59	4	1	.	.	.	418
4.00 - 4.99	.	.	1	42	50	8	.	.	.	.	101
5.00 - 5.99	.	.	.	1	9	5	.	.	.	.	15
6.00 - 6.99	.	.	.	.	2	3	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	484	3230	2633	1116	247	30	2	0	0	0	7742

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 50 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	657	466	57	.	.	.	.	.	.	.	1180
1.00 - 1.99	223	2255	214	2	.	.	.	.	.	.	2694
2.00 - 2.99	.	170	666	32	.	.	.	.	.	.	868
3.00 - 3.99	.	.	65	85	1	.	.	.	.	.	151
4.00 - 4.99	.	.	2	8	1	.	.	.	.	.	11
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	880	2891	1004	127	2	0	0	0	0	0	4904

STATION: 50 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	537	2	.	.	.	.	.	.	.	.	539
1.00 - 1.99	354	152	6	.	.	.	.	.	.	.	512
2.00 - 2.99	.	16	33	1	.	.	.	.	.	.	50
3.00 - 3.99	.	.	.	3	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	891	170	39	4	0	0	0	0	0	0	1104

STATION: 50 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	353	1	.	.	.	.	.	.	.	.	354
1.00 - 1.99	488	576	.	.	.	.	.	.	.	.	1064
2.00 - 2.99	.	169	.	.	.	.	.	.	.	.	169
3.00 - 3.99	.	3	1	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	841	749	1	0	0	0	0	0	0	0	1591

STATION: 50 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3287	3769	6667	4291	2097	1322	491	126	35	3	22088
1.00 - 1.99	3043	7095	4838	3988	2075	1411	622	199	78	16	23365
2.00 - 2.99	.	756	2249	1091	595	360	253	75	46	1	5426
3.00 - 3.99	.	6	291	596	233	72	48	18	11	1	1276
4.00 - 4.99	.	.	4	95	130	51	5	11	10	.	306
5.00 - 5.99	.	.	.	7	32	32	3	8	8	.	90
6.00 - 6.99	.	.	.	.	6	12	4	2	3	.	27
7.00 - 7.99	.	.	.	.	1	3	1	2	2	.	9
8.00 - 8.99	.	.	.	.	.	4	1	2	.	.	7
9.00 - GREATER	.	.	.	.	.	1	4	1	.	.	6
TOTAL	6330	11626	14049	10068	5169	3268	1432	444	193	21	52600

STATION: 50

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	202	232	230	281	516	550	678	817	600	426	297	229	5058
2.50 - 4.99	1035	922	1133	1361	1667	1845	1983	2284	1864	1467	1199	1137	17897
5.00 - 7.49	817	771	906	890	1031	924	1017	799	868	966	918	805	10712
7.50 - 9.99	1121	1061	1094	1036	901	779	707	472	670	983	1117	1047	10988
10.00 - 12.49	604	485	520	418	241	175	65	63	215	380	397	651	4214
12.50 - 14.99	497	425	386	267	103	38	14	7	81	201	330	447	2796
15.00 - 17.49	117	104	111	51	4	3	.	4	6	28	43	85	556
17.50 - 19.99	56	65	63	16	1	1	.	10	10	13	16	39	290
20.00 - GREATER	15	7	21	.	.	5	.	8	6	.	3	24	89
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.75 W, DEPTH: 18 M

STATION: 50

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	956	832	735	525	454	305	158	313	467	786	767	894	7192
22.50 - 67.49 (45.0)	568	572	548	479	592	601	405	743	1256	1151	755	649	8319
67.50 - 112.49 (90.0)	246	243	344	225	369	461	293	443	577	547	388	208	4344
112.50 - 157.49 (135.0)	210	209	347	295	325	255	269	433	352	285	296	176	3452
157.50 - 202.49 (180.0)	355	368	539	669	833	585	539	569	405	353	515	345	6075
202.50 - 247.49 (225.0)	531	652	842	969	1158	1506	1941	1290	692	505	528	777	11391
247.50 - 292.49 (270.0)	721	518	487	637	441	423	701	482	383	419	519	672	6403
292.50 - 337.49 (315.0)	877	678	622	521	292	184	158	191	188	418	552	743	5424
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 50

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.36	1.54	1.29	1.27	1.37	1.17	0.70	1.30	0.97	1.38	1.11	1.35	1.23
1977	1.24	1.16	1.31	1.40	0.86	0.86	0.74	0.82	0.75	1.41	1.74	1.37	1.14
1978	1.60	1.27	1.42	1.36	1.26	0.82	0.84	0.80	1.34	1.15	1.38	1.29	1.21
1979	1.74	1.65	1.61	1.33	1.37	1.09	0.85	0.85	1.62	1.10	1.49	1.31	1.33
1980	1.62	1.19	1.91	1.48	0.98	1.34	1.03	1.06	1.18	1.27	1.46	2.00	1.38
1981	1.11	2.13	1.77	1.55	1.37	0.97	0.91	0.96	1.37	1.40	1.32	1.32	1.34
1982	1.27	1.42	1.15	1.26	0.81	1.06	0.83	0.74	1.08	1.36	1.51	1.19	1.14
1983	1.52	1.65	1.73	1.32	1.22	1.03	0.75	0.71	1.08	1.63	1.40	1.71	1.31
1984	1.56	1.32	1.55	1.34	1.28	0.80	1.10	0.60	1.48	1.19	1.52	1.16	1.26
1985	1.22	1.32	1.50	1.23	0.98	0.92	0.86	0.76	1.36	1.47	1.62	1.14	1.20
1986	1.30	1.15	1.66	1.21	1.14	1.17	0.85	1.19	1.13	1.22	1.40	1.62	1.25
1987	1.69	1.39	1.57	1.43	1.09	0.96	0.76	0.98	1.00	1.04	1.17	1.17	1.19
1988	1.32	1.23	1.28	1.22	1.08	0.94	1.10	1.09	1.12	1.04	1.46	1.05	1.16
1989	1.40	1.39	1.64	1.38	1.14	1.13	0.99	1.07	2.04	1.24	1.41	1.24	1.34
1990	1.32	1.63	1.39	1.38	1.32	1.09	1.11	0.91	1.15	1.33	1.08	1.58	1.27
1991	1.31	1.19	1.66	1.18	1.08	1.05	1.05	1.00	1.37	1.26	1.20	1.30	1.22
1992	1.48	1.31	1.37	1.13	1.10	0.87	0.88	0.87	0.96	1.02	1.30	1.54	1.15
1993	1.68	1.36	1.61	1.56	1.14	0.91	0.72	1.07	0.98	1.29	1.57	1.26	1.26
MEAN	1.43	1.42	1.52	1.33	1.14	1.01	0.89	0.93	1.22	1.27	1.40	1.37	

STATION: 50

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 821	541117	411020	421110	33 917	23 9 9	23 820	551315	301511	30 818	35 922	38 824	551315
1977	38 912	331017	36 817	461019	23 813	22 619	16 622	24 821	14 8 9	371110	431210	36 919	461019
1978	601318	3110 9	32 823	421021	371117	21 721	20 623	151213	471312	34 8 9	29 910	35 920	601318
1979	491218	621310	481016	471119	32 919	27 9 9	25 915	201514	33 916	32 9 9	411116	39 921	621310
1980	501010	29 822	441310	471216	27 822	411021	31 811	431915	30 910	561210	391810	1021611	1021611
1981	23 634	591410	5412 9	471118	36 911	29 723	25 821	38 819	461812	3710 9	4212 9	35 917	591410
1982	38 912	321010	26 710	36 919	17 619	601119	32 822	23 723	28 9 9	581310	411611	32 819	601119
1983	39 910	591111	651211	38 916	33 918	23 721	17 625	24 722	301310	351110	36 817	39 922	651211
1984	461210	441021	431118	441016	441019	21 914	321020	14 4 3	561216	351213	3711 9	27 722	561216
1985	30 633	401022	411122	451218	17 618	391021	21 614	18 8 8	1131614	401010	36 912	29 821	1131614
1986	271310	30 821	471117	33 819	28 814	431016	33 821	541117	22 722	32 910	34 8 9	721410	721410
1987	511111	541110	561215	30 722	1710 9	20 622	21 720	23 710	28 810	241012	331016	34 918	561215
1988	371611	32 820	33 917	32 921	25 815	21 625	30 918	23 820	30 818	25 822	441019	29 819	441019
1989	451010	351110	32 919	30 814	32 817	31 919	27 819	251112	712012	28 913	36 918	351410	712012
1990	411016	421116	371117	30 918	37 917	23 821	261115	361614	301511	311011	37 915	38 917	421116
1991	40 914	37 922	461117	34 810	21 7 9	21 8 9	20 722	711213	591812	301312	3410 9	38 918	711213
1992	421212	3510 9	37 920	29 816	25 722	14 523	26 725	22 719	20 9 9	26 9 9	36 818	471013	471013
1993	501210	34 819	691318	421116	24 723	19 721	17 618	871412	521412	33 8 9	521313	41 919	871412
MAX	601318	621310	691318	471118	441019	601119	33 821	871412	1131614	581310	521313	1021611	

MAX Hmo(m): 11.3 MAX Tp(sec): 16. MAX Dp(deg): 140. DATE(gmt): 85092706

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 55. DATE(gmt): 85092703

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.50 W, DEPTH: 35 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 51

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	150	135	99	71	54	92	204	152	98	144	106	185	1490
0.50 - 0.99	929	892	812	1068	1339	1992	2480	2448	1525	1098	907	1190	16680
1.00 - 1.49	1235	1137	1331	1377	1838	1428	1154	1297	1293	1526	1344	1089	16049
1.50 - 1.99	923	876	888	867	722	483	400	345	696	829	900	798	8727
2.00 - 2.49	536	470	512	451	292	189	166	106	358	408	507	564	4559
2.50 - 2.99	312	225	337	209	111	76	42	52	163	214	228	302	2271
3.00 - 3.49	148	112	211	120	72	33	13	17	85	114	166	136	1227
3.50 - 3.99	100	81	98	68	26	11	5	15	29	58	68	89	648
4.00 - 4.49	62	52	65	40	7	7	.	7	29	31	47	38	385
4.50 - 4.99	23	42	38	24	1	5	.	6	16	22	29	28	234
5.00 - 5.49	18	17	28	17	2	1	.	4	11	7	10	14	129
5.50 - 5.99	16	17	17	7	.	1	.	9	4	6	5	7	89
6.00 - 6.49	5	10	13	1	.	1	.	.	5	4	.	3	42
6.50 - 6.99	4	4	10	.	.	.	.	1	1	2	2	4	28
7.00 - 7.49	3	1	2	.	.	.	.	.	1	1	1	5	14
7.50 - 7.99	.	1	2	.	.	1	.	2	1	.	.	5	12
8.00 - 8.49	.	.	1	.	.	.	.	1	1	.	.	1	4
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	1	2
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	1	1
9.50 - 9.99	.	.	.	.	.	.	.	2	1	.	.	1	4
10.00 - GREATER	.	.	.	.	.	.	.	.	2	.	.	3	5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 51

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	57	47	33	32	21	22	41	23	29	27	42	60	434
4.0 - 4.9	413	457	313	259	253	244	413	350	184	316	326	504	4032
5.0 - 5.9	563	465	379	385	459	580	825	567	358	302	379	634	5896
6.0 - 6.9	377	393	414	434	654	991	1018	832	625	426	407	342	6913
7.0 - 7.9	368	415	539	640	991	1063	923	1013	858	615	508	459	8392
8.0 - 8.9	443	533	615	541	816	761	743	875	724	770	596	527	7944
9.0 - 9.9	509	496	535	539	479	296	336	288	423	651	633	441	5626
10.0 - 10.9	474	427	465	425	290	160	112	113	245	449	493	404	4057
11.0 - 11.9	302	241	346	320	154	111	24	103	165	279	296	252	2593
12.0 - 12.9	314	124	267	253	151	47	20	97	159	259	127	173	1991
13.0 - 13.9	238	84	191	227	75	30	6	67	157	187	118	235	1615
14.0 - 14.9	153	116	138	146	74	10	2	50	123	97	146	164	1219
15.0 - 15.9	98	92	71	72	34	5	1	37	96	43	90	133	772
16.0 - 16.9	70	65	73	31	10	.	.	14	67	19	58	88	495
17.0 - 17.9	38	50	32	9	3	.	.	10	40	20	38	33	273
18.0 - 18.9	23	37	9	3	.	.	.	9	22	2	29	8	142
19.0 - 19.9	10	24	18	1	.	.	.	6	17	2	22	5	105
20.0 - LONGER	14	6	26	3	.	.	.	10	28	.	12	2	101
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 51

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	104	130	59	28	36	22	7	8	22	77	86	110	689
11.25 - 33.74 (22.5)	137	135	73	62	49	53	31	37	67	96	81	151	972
33.75 - 56.24 (45.0)	228	231	169	154	148	136	87	156	295	273	221	238	2336
56.25 - 78.74 (67.5)	179	187	137	159	91	180	52	138	355	347	204	217	2246
78.75 - 101.24 (90.0)	1111	859	1146	1184	1032	679	333	825	1353	1702	1341	1118	12683
101.25 - 123.74 (112.5)	678	562	627	628	778	667	751	1177	1034	847	816	612	9177
123.75 - 146.24 (135.0)	354	338	391	346	526	651	801	700	481	387	387	240	5602
146.25 - 168.74 (157.5)	280	223	299	329	317	256	211	239	241	149	250	177	2971
168.75 - 191.24 (180.0)	325	315	546	517	685	416	433	364	146	144	284	290	4465
191.25 - 213.74 (202.5)	192	238	322	343	331	590	807	400	147	116	143	277	3906
213.75 - 236.24 (225.0)	150	226	232	204	234	467	589	280	106	92	111	246	2937
236.25 - 258.74 (247.5)	106	136	100	113	88	134	278	111	39	66	78	147	1396
258.75 - 281.24 (270.0)	161	77	54	82	42	38	70	23	14	44	59	138	802
281.25 - 303.74 (292.5)	183	108	92	70	24	9	10	1	10	20	80	133	740
303.75 - 326.24 (315.0)	157	129	121	50	35	9	.	4	4	43	72	208	832
326.25 - 348.74 (337.5)	119	178	96	51	48	13	4	1	6	61	107	162	846
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.50 W, DEPTH: 35 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 51 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	286	6	2	.	.	.	.	.	.	.	294
1.00 - 1.99	750	178	4	.	.	.	.	.	.	.	932
2.00 - 2.99	.	63	14	1	.	.	.	.	.	.	78
3.00 - 3.99	.	1	3	6	.	.	.	.	.	.	10
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1036	248	24	7	0	0	0	0	0	0	1315

STATION: 51 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	213	323	202	37	13	.	.	.	.	.	788
1.00 - 1.99	162	1203	434	148	2	1	.	.	.	.	1950
2.00 - 2.99	.	216	581	77	9	.	1	2	.	.	886
3.00 - 3.99	.	2	159	108	1	.	1	1	.	.	272
4.00 - 4.99	.	.	14	54	25	.	3	1	.	.	97
5.00 - 5.99	.	.	.	15	14	5	.	1	.	.	35
6.00 - 6.99	.	.	.	1	4	6	.	.	.	.	11
7.00 - 7.99	.	.	.	.	1	2	1	.	.	.	4
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	375	1744	1390	440	69	14	6	5	0	0	4043

STATION: 51 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	178	546	1763	1738	1342	889	366	96	18	2	6938
1.00 - 1.99	35	881	2047	2230	1507	1203	494	150	59	9	8615
2.00 - 2.99	.	52	514	347	393	292	180	75	43	.	1896
3.00 - 3.99	.	.	96	191	61	56	40	12	14	.	470
4.00 - 4.99	.	.	8	57	66	20	9	3	4	.	167
5.00 - 5.99	.	.	.	21	35	17	3	4	.	.	80
6.00 - 6.99	.	.	.	.	17	17	1	.	.	.	35
7.00 - 7.99	.	.	.	.	5	9	3	.	.	.	17
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	3	2	.	.	5
TOTAL	213	1479	4428	4584	3426	2503	1100	343	138	11	18225

STATION: 51 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	101	864	3520	1418	214	38	5	5	4	2	6171
1.00 - 1.99	39	680	1852	1288	333	117	63	29	16	6	4423
2.00 - 2.99	.	63	380	273	186	108	73	12	3	1	1099
3.00 - 3.99	.	.	67	119	33	15	15	7	8	.	264
4.00 - 4.99	.	.	7	35	35	6	.	7	11	.	101
5.00 - 5.99	.	.	.	5	10	6	.	5	2	.	28
6.00 - 6.99	.	.	.	.	2	2	.	1	4	.	9
7.00 - 7.99	.	.	.	.	2	.	.	1	.	.	3
8.00 - 8.99	.	.	.	.	.	2	1	.	.	.	3
9.00 - GREATER	.	.	.	.	.	3	2	.	.	.	5
TOTAL	140	1607	5826	3138	815	297	159	67	48	9	12106

STATION: 51 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	265	1177	550	58	3	.	.	.	.	.	2053
1.00 - 1.99	122	1693	1554	423	42	2	.	.	.	.	3836
2.00 - 2.99	.	152	758	371	68	2	.	.	.	.	1351
3.00 - 3.99	.	.	198	251	59	3	1	.	.	.	512
4.00 - 4.99	.	.	13	105	42	4	1	.	.	.	165
5.00 - 5.99	.	.	.	25	27	4	.	.	.	.	56
6.00 - 6.99	.	.	.	1	9	4	.	.	.	.	14
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	387	3022	3073	1234	251	19	2	0	0	0	7988

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.50 W, DEPTH: 35 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 51 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	534	558	144	9	.	.	.	.	.	.	1245
1.00 - 1.99	181	2325	357	25	2	.	.	.	.	.	2890
2.00 - 2.99	.	221	831	18	3	.	.	.	.	.	1073
3.00 - 3.99	.	1	187	139	1	.	.	.	.	.	328
4.00 - 4.99	.	.	7	69	8	.	.	.	.	.	84
5.00 - 5.99	.	.	.	12	7	.	.	.	.	.	19
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	715	3105	1526	272	23	1	0	0	0	0	5642

STATION: 51 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	377	13	.	.	.	.	.	.	.	.	390
1.00 - 1.99	422	617	5	.	.	.	.	.	.	.	1044
2.00 - 2.99	.	164	51	.	.	.	.	.	.	.	215
3.00 - 3.99	.	6	2	4	.	.	.	.	.	.	12
4.00 - 4.99	.	.	.	3	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	799	800	58	7	0	0	0	0	0	0	1664

STATION: 51 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	290	.	.	1	.	.	.	.	.	.	291
1.00 - 1.99	511	574	1	.	.	.	.	.	.	.	1086
2.00 - 2.99	.	225	7	.	.	.	.	.	.	.	232
3.00 - 3.99	.	5	2	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	801	804	11	1	0	0	0	0	0	0	1617

STATION: 51 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2244	3487	6181	3261	1572	927	371	101	22	4	18170
1.00 - 1.99	2222	8151	6254	4114	1886	1323	557	179	75	15	24776
2.00 - 2.99	.	1156	3136	1087	659	402	254	89	46	1	6830
3.00 - 3.99	.	15	714	818	155	74	57	20	22	.	1875
4.00 - 4.99	.	.	51	323	176	30	13	11	15	.	619
5.00 - 5.99	.	.	.	78	93	32	3	10	2	.	218
6.00 - 6.99	.	.	.	2	33	29	1	1	4	.	70
7.00 - 7.99	.	.	.	.	10	11	4	1	.	.	26
8.00 - 8.99	.	.	.	.	.	3	2	1	.	.	6
9.00 - GREATER	.	.	.	.	.	3	5	2	.	.	10
TOTAL	4466	12809	16336	9683	4584	2834	1267	415	186	20	52600

STATION: 51

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	207	233	242	287	525	536	664	793	595	431	300	240	5053
2.50 - 4.99	996	903	1083	1326	1610	1796	1931	2240	1843	1438	1152	1093	17411
5.00 - 7.49	796	733	892	878	1055	928	1031	823	870	941	894	792	10633
7.50 - 9.99	1130	1079	1091	1031	873	810	734	504	687	995	1134	1045	11113
10.00 - 12.49	616	486	535	436	278	194	90	73	211	396	414	634	4363
12.50 - 14.99	515	440	407	281	116	46	13	10	90	211	343	497	2969
15.00 - 17.49	127	113	113	60	6	5	1	4	7	39	61	91	627
17.50 - 19.99	65	77	77	20	1	1	.	6	11	12	18	41	329
20.00 - GREATER	12	8	24	1	.	4	.	11	6	1	4	31	102
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.00 N, LONG: 75.50 W, DEPTH: 35 M

STATION: 51

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	948	869	754	543	469	311	161	310	485	794	770	910	7324
22.50 - 67.49 (45.0)	572	551	540	471	595	609	415	736	1234	1139	764	640	8266
67.50 - 112.49 (90.0)	247	236	338	218	358	447	279	428	573	550	374	203	4251
112.50 - 157.49 (135.0)	208	211	337	289	325	246	267	443	357	282	301	179	3445
157.50 - 202.49 (180.0)	361	362	540	665	845	599	531	566	415	360	528	352	6124
202.50 - 247.49 (225.0)	537	664	843	976	1150	1512	1966	1311	690	500	527	772	11448
247.50 - 292.49 (270.0)	692	498	491	635	430	408	697	470	374	419	503	664	6281
292.50 - 337.49 (315.0)	899	681	621	523	292	188	148	200	192	420	553	744	5461
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 51

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.52	1.73	1.43	1.48	1.52	1.29	0.81	1.38	1.05	1.63	1.24	1.55	1.39
1977	1.39	1.28	1.43	1.57	0.93	0.97	0.85	0.91	0.84	1.61	1.87	1.51	1.26
1978	1.76	1.50	1.56	1.52	1.40	0.89	0.93	0.84	1.55	1.30	1.60	1.51	1.36
1979	1.92	1.85	1.75	1.45	1.52	1.21	0.92	0.93	1.77	1.23	1.66	1.51	1.47
1980	1.83	1.35	2.19	1.66	1.09	1.51	1.14	1.13	1.24	1.45	1.63	2.29	1.54
1981	1.29	2.41	2.07	1.75	1.53	1.12	1.00	1.05	1.47	1.65	1.59	1.51	1.53
1982	1.44	1.60	1.26	1.40	0.90	1.18	0.89	0.83	1.21	1.55	1.74	1.37	1.28
1983	1.67	1.81	1.92	1.46	1.32	1.13	0.84	0.79	1.30	1.85	1.55	1.96	1.46
1984	1.93	1.68	1.72	1.50	1.41	0.87	1.20	0.68	1.66	1.32	1.79	1.30	1.42
1985	1.38	1.49	1.68	1.40	1.07	1.05	0.91	0.85	1.56	1.63	1.75	1.28	1.34
1986	1.47	1.29	1.88	1.35	1.30	1.28	0.96	1.32	1.26	1.43	1.56	1.85	1.41
1987	1.96	1.62	1.85	1.61	1.19	1.03	0.84	1.07	1.08	1.18	1.25	1.27	1.33
1988	1.49	1.37	1.42	1.40	1.21	1.05	1.19	1.18	1.21	1.19	1.61	1.20	1.29
1989	1.58	1.63	1.91	1.57	1.29	1.23	1.08	1.15	2.12	1.41	1.56	1.49	1.50
1990	1.45	1.84	1.55	1.52	1.48	1.19	1.18	0.96	1.26	1.41	1.18	1.75	1.40
1991	1.49	1.33	1.83	1.31	1.17	1.17	1.13	1.11	1.46	1.41	1.35	1.47	1.35
1992	1.64	1.54	1.49	1.26	1.24	0.94	0.99	0.95	1.10	1.17	1.44	1.74	1.29
1993	1.97	1.56	1.84	1.78	1.24	0.99	0.79	1.16	1.07	1.46	1.79	1.45	1.42
MEAN	1.62	1.60	1.71	1.50	1.27	1.12	0.98	1.02	1.35	1.44	1.56	1.56	

STATION: 51

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	36 822	631118	521023	6012 9	38 918	32 9 6	25 820	581315	321510	4710 4	40 923	45 923	631118
1977	46 910	38 917	40 823	541120	25 813	24 619	23 6 3	27 822	16 8 9	4710 7	4811 9	42 920	541120
1978	681221	4911 6	38 822	501022	431019	24 820	23 716	151213	521212	36 910	36 9 9	411020	681221
1979	581121	6813 9	561017	591120	37 919	32 9 8	27 916	21 719	35 8 5	36 9 8	481016	47 9 5	6813 9
1980	551115	34 921	7615 4	561117	31 822	481022	36 910	391815	34 9 9	6012 9	4610 4	1111610	1111610
1981	2811 6	7912 7	6713 8	581119	39 910	33 723	28 821	37 817	431812	5110 7	7113 5	38 8 5	7912 7
1982	41 912	4610 8	28 7 9	43 920	19 718	771220	37 822	25 724	41 9 6	7313 9	441610	39 918	771220
1983	431010	651110	731210	45 917	37 919	26 722	19 724	28 821	4311 5	4510 8	41 918	5611 6	731210
1984	7113 7	541022	56 924	511017	521020	21 914	371021	17 6 4	661116	471212	5611 7	31 724	7113 7
1985	32 633	461020	511123	551219	19 8 4	481022	20 716	28 8 4	1471615	5310 8	42 912	35 918	1471615
1986	38 8 4	34 822	561019	37 820	3810 4	48 914	38 921	59 921	27 7 5	4211 8	40 8 8	7914 9	7914 9
1987	6411 9	5911 9	6912 6	34 817	2010 8	21 622	23 721	25 810	32 8 9	3210 9	401017	40 918	6912 6
1988	401610	37 821	39 918	38 922	30 815	26 723	34 919	26 821	34 820	31 9 4	541021	33 819	541021
1989	5410 9	5311 8	5511 3	34 814	37 917	36 920	32 821	26 7 6	641912	32 9 5	44 918	5010 4	641912
1990	491017	481018	441019	35 919	43 918	26 821	271014	321613	321510	371010	43 915	441018	491017
1991	42 914	43 922	541019	36 8 9	28 7 4	28 7 5	22 722	801315	541812	35 8 3	5310 4	44 919	801315
1992	481021	5312 6	42 918	38 8 4	28 723	15 817	29 823	25 720	31 9 4	39 8 3	41 819	491013	5312 6
1993	7213 9	39 917	801321	5010 8	27 822	21 722	19 718	991412	551313	35 9 9	591313	511020	991412
MAX	7213 9	7912 7	801321	6012 9	521020	771220	38 921	991412	1471615	7313 9	7113 5	1111610	

MAX Hmo(m): 14.7 MAX Tp(sec): 16. MAX Dp(deg): 148. DATE(gmt): 85092706

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 65. DATE(gmt): 85092703

MEAN Hmo(m): 1.4 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.25 N, LONG: 75.25 W, DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 52

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	71	62	46	32	29	88	208	112	85	102	55	106	996
0.50 - 0.99	730	690	645	948	1236	1876	2542	2416	1304	928	743	985	15043
1.00 - 1.49	1150	987	1177	1262	1763	1501	1135	1338	1366	1426	1279	1062	15446
1.50 - 1.99	974	959	956	956	781	520	374	367	738	910	944	791	9270
2.00 - 2.49	627	515	656	499	374	212	154	117	463	493	565	647	5322
2.50 - 2.99	347	359	417	279	166	85	39	51	184	275	337	403	2942
3.00 - 3.49	256	207	234	147	79	19	9	16	69	173	179	222	1610
3.50 - 3.99	145	138	118	94	26	9	3	13	37	78	88	113	862
4.00 - 4.49	88	67	78	55	7	5	.	12	25	49	86	58	530
4.50 - 4.99	44	41	64	33	3	2	.	7	16	16	23	23	272
5.00 - 5.49	20	29	33	13	.	1	.	4	15	5	6	15	141
5.50 - 5.99	6	13	16	1	.	1	.	3	4	6	5	9	64
6.00 - 6.49	5	3	14	1	.	.	.	3	3	3	5	10	47
6.50 - 6.99	1	1	3	.	.	1	.	1	4	.	5	8	24
7.00 - 7.49	.	.	2	.	.	.	.	1	3	.	.	5	11
7.50 - 7.99	.	1	1	.	.	.	.	.	.	.	.	1	3
8.00 - 8.49	.	.	2	.	.	.	.	1	1	.	.	2	5
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	2	.	.	.	.	1	.	.	.	1	4
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	1	1
10.00 - GREATER	.	.	.	.	.	.	.	1	3	.	.	2	6
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 52

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	28	13	16	22	16	30	98	55	29	20	19	55	401
4.0 - 4.9	227	151	126	128	159	177	338	304	146	156	160	243	2315
5.0 - 5.9	387	370	310	308	459	631	885	680	389	310	342	465	5536
6.0 - 6.9	492	587	593	549	718	1057	1054	911	679	554	541	543	8278
7.0 - 7.9	565	567	607	580	946	957	795	871	722	634	548	637	8429
8.0 - 8.9	427	481	542	480	766	669	676	789	615	658	528	528	7159
9.0 - 9.9	496	455	483	509	499	300	343	275	378	609	583	417	5347
10.0 - 10.9	440	445	433	415	290	184	146	137	328	490	479	378	4165
11.0 - 11.9	271	271	400	388	218	156	60	125	233	297	325	252	2996
12.0 - 12.9	316	153	277	342	169	85	43	110	211	296	185	204	2391
13.0 - 13.9	293	128	244	285	83	55	23	65	172	215	139	266	1968
14.0 - 14.9	183	119	169	158	79	13	3	51	138	123	164	161	1361
15.0 - 15.9	138	114	93	84	44	4	.	39	107	41	104	133	901
16.0 - 16.9	78	83	76	49	14	2	.	15	64	29	76	110	596
17.0 - 17.9	52	59	27	8	4	.	.	11	40	25	49	37	312
18.0 - 18.9	33	41	15	6	.	.	.	11	22	4	33	20	185
19.0 - 19.9	19	21	22	5	.	.	.	4	18	3	30	9	131
20.0 - LONGER	19	14	31	4	.	.	.	11	29	.	15	6	129
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 52

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	569	620	463	281	171	108	36	40	102	296	378	564	3628
11.25 - 33.74 (22.5)	272	277	214	205	150	145	109	192	211	262	237	305	2579
33.75 - 56.24 (45.0)	151	184	132	99	112	147	91	173	308	230	172	209	2008
56.25 - 78.74 (67.5)	183	190	137	161	137	122	50	203	335	303	195	182	2198
78.75 - 101.24 (90.0)	1156	818	1233	1327	1074	790	404	747	1330	1686	1303	1064	12932
101.25 - 123.74 (112.5)	565	516	544	588	707	611	697	1033	973	719	762	558	8273
123.75 - 146.24 (135.0)	322	316	310	311	465	573	734	674	448	355	338	225	5071
146.25 - 168.74 (157.5)	281	188	310	307	358	265	225	271	219	149	238	163	2974
168.75 - 191.24 (180.0)	302	301	466	444	654	425	522	385	154	126	264	287	4330
191.25 - 213.74 (202.5)	150	188	231	228	276	579	750	383	111	114	101	245	3356
213.75 - 236.24 (225.0)	123	205	213	179	214	429	598	252	87	86	95	241	2722
236.25 - 258.74 (247.5)	74	76	60	71	56	82	151	68	18	39	54	96	845
258.75 - 281.24 (270.0)	62	19	18	37	25	26	61	28	8	22	24	53	383
281.25 - 303.74 (292.5)	82	31	33	15	15	2	19	3	3	8	38	56	305
303.75 - 326.24 (315.0)	79	61	46	33	12	5	7	4	5	23	60	113	448
326.25 - 348.74 (337.5)	93	82	54	34	38	11	10	8	8	46	61	103	548
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.25 N, LONG: 75.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 52 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	93	507	11	.	.	.	.	.	.	.	611
1.00 - 1.99	140	1665	658	2	.	.	.	.	.	.	2465
2.00 - 2.99	.	331	1088	29	1	.	.	.	.	.	1449
3.00 - 3.99	.	4	249	250	.	1	.	.	.	.	504
4.00 - 4.99	.	.	7	141	8	.	.	.	.	.	156
5.00 - 5.99	.	.	.	13	9	.	.	.	.	.	22
6.00 - 6.99	.	.	.	.	3	1	.	.	.	.	4
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	233	2507	2013	435	22	2	0	0	0	0	5212

STATION: 52 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	211	430	85	35	2	.	.	.	.	.	763
1.00 - 1.99	84	1363	491	56	39	5	.	.	.	.	2038
2.00 - 2.99	.	117	671	52	12	4	.	.	.	.	856
3.00 - 3.99	.	.	116	205	10	4	1	.	.	.	336
4.00 - 4.99	.	.	1	85	66	.	1	.	.	.	153
5.00 - 5.99	.	.	.	9	26	15	.	.	.	.	50
6.00 - 6.99	.	.	.	.	6	13	.	.	.	.	19
7.00 - 7.99	.	.	.	.	.	1	1	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	2	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	2	.	.	2
TOTAL	295	1910	1364	442	161	42	5	2	0	0	4221

STATION: 52 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	125	530	1248	1419	1316	798	305	109	28	4	5882
1.00 - 1.99	29	867	1666	2160	1953	1427	562	140	68	12	8884
2.00 - 2.99	.	43	453	325	536	499	305	96	30	.	2287
3.00 - 3.99	.	.	55	165	104	100	100	44	23	1	592
4.00 - 4.99	.	.	2	37	53	35	25	26	28	1	207
5.00 - 5.99	.	.	.	4	23	19	3	3	5	.	57
6.00 - 6.99	.	.	.	.	5	16	9	1	.	.	31
7.00 - 7.99	.	.	.	.	.	4	2	.	.	.	6
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	1	2	.	.	4
TOTAL	154	1440	3424	4110	3990	2898	1314	422	182	18	17952

STATION: 52 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	84	851	2782	1297	191	42	6	7	4	2	5266
1.00 - 1.99	33	702	1572	1344	398	114	53	26	16	5	4263
2.00 - 2.99	.	66	351	284	217	129	95	18	4	2	1166
3.00 - 3.99	.	.	61	121	50	30	17	6	6	1	292
4.00 - 4.99	.	.	2	36	40	16	1	9	8	.	112
5.00 - 5.99	.	.	.	2	11	8	.	6	8	.	35
6.00 - 6.99	.	.	.	.	2	4	.	1	4	.	11
7.00 - 7.99	.	.	.	.	1	3	.	.	.	.	4
8.00 - 8.99	.	.	.	.	.	2	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	2	3	.	.	.	5
TOTAL	117	1619	4768	3084	910	350	175	73	50	10	11156

STATION: 52 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	248	1222	516	57	1	.	.	.	.	.	2044
1.00 - 1.99	117	1681	1285	494	56	4	.	.	.	.	3637
2.00 - 2.99	.	138	726	326	88	9	1	.	.	.	1288
3.00 - 3.99	.	1	173	249	63	4	2	.	.	.	492
4.00 - 4.99	.	.	.	74	53	8	.	.	.	.	135
5.00 - 5.99	.	.	.	7	25	7	.	.	.	.	39
6.00 - 6.99	.	.	.	.	3	3	.	.	.	.	6
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	365	3042	2700	1207	289	36	3	0	0	0	7642

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.25 N, LONG: 75.25 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 52 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	467	439	101	8	.	.	.	.	.	.	1015
1.00 - 1.99	212	2051	280	35	3	1	.	.	.	.	2582
2.00 - 2.99	.	199	759	25	2	.	.	.	.	.	985
3.00 - 3.99	.	.	112	134	1	.	.	.	.	.	247
4.00 - 4.99	.	.	2	29	8	.	.	.	.	.	39
5.00 - 5.99	.	.	.	1	1	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	679	2689	1254	232	15	1	0	0	0	0	4870

STATION: 52 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	315	16	.	.	.	.	.	.	.	.	331
1.00 - 1.99	222	146	6	.	.	.	.	.	.	.	374
2.00 - 2.99	.	13	42	.	.	.	.	.	.	.	55
3.00 - 3.99	.	.	.	2	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	537	175	48	2	0	0	0	0	0	0	762

STATION: 52 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	113	14	.	.	.	.	.	.	.	.	127
1.00 - 1.99	223	241	9	.	.	.	.	.	.	.	473
2.00 - 2.99	.	170	8	.	.	.	.	.	.	.	178
3.00 - 3.99	.	7	.	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	336	432	17	0	0	0	0	0	0	0	785

STATION: 52 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1656	4009	4743	2816	1510	840	311	116	32	6	16039
1.00 - 1.99	1060	8716	5967	4091	2449	1551	615	166	84	17	24716
2.00 - 2.99	.	1077	4098	1041	856	641	401	114	34	2	8264
3.00 - 3.99	.	12	766	1126	228	139	120	50	29	2	2472
4.00 - 4.99	.	.	14	402	228	59	27	35	36	1	802
5.00 - 5.99	.	.	.	36	95	49	3	9	13	.	205
6.00 - 6.99	.	.	.	.	19	37	9	2	4	.	71
7.00 - 7.99	.	.	.	.	2	9	3	.	.	.	14
8.00 - 8.99	.	.	.	.	.	2	3	1	.	.	6
9.00 - GREATER	.	.	.	.	.	2	5	4	.	.	11
TOTAL	2716	13814	15588	9512	5387	3329	1497	497	232	28	52600

STATION: 52

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	168	214	230	255	491	497	623	729	528	388	255	205	4583
2.50 - 4.99	1008	883	1071	1342	1610	1803	1958	2242	1897	1436	1161	1082	17493
5.00 - 7.49	777	739	878	871	1084	960	1068	892	868	961	892	808	10798
7.50 - 9.99	1143	1066	1088	1047	879	816	716	502	722	991	1149	1056	11175
10.00 - 12.49	615	506	545	416	268	194	86	65	197	410	432	605	4339
12.50 - 14.99	528	450	425	305	123	41	12	14	77	225	328	526	3054
15.00 - 17.49	144	123	122	59	7	3	1	3	17	39	72	102	692
17.50 - 19.99	74	78	79	24	2	2	.	7	7	13	23	52	361
20.00 - GREATER	7	13	26	1	.	4	.	10	7	1	8	28	105
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.25 N, LONG: 75.25 W, DEPTH: 22 M

STATION: 52

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	947	866	807	566	505	364	185	360	509	836	788	927	7660
22.50 - 67.49 (45.0)	548	519	499	458	564	558	399	690	1202	1089	722	596	7844
67.50 - 112.49 (90.0)	247	244	318	214	354	418	263	415	547	523	375	202	4120
112.50 - 157.49 (135.0)	212	205	347	305	326	254	267	437	385	284	286	179	3487
157.50 - 202.49 (180.0)	370	378	552	683	866	621	561	610	431	372	552	349	6345
202.50 - 247.49 (225.0)	535	657	791	934	1099	1485	1900	1253	674	508	514	773	11123
247.50 - 292.49 (270.0)	667	485	490	613	430	415	705	486	364	421	489	656	6221
292.50 - 337.49 (315.0)	938	718	660	547	320	205	184	213	208	431	594	782	5800
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 52

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.76	1.76	1.46	1.56	1.51	1.29	0.78	1.41	1.09	1.79	1.39	1.64	1.45
1977	1.64	1.37	1.56	1.56	0.95	0.98	0.84	0.90	0.91	1.69	1.91	1.69	1.33
1978	1.79	1.91	1.71	1.65	1.41	0.91	0.94	0.85	1.63	1.46	1.72	1.58	1.46
1979	2.03	2.13	1.86	1.56	1.52	1.22	0.89	0.95	1.78	1.29	1.80	1.78	1.56
1980	2.32	1.92	2.50	1.78	1.18	1.48	1.11	1.26	1.26	1.53	2.02	2.48	1.74
1981	1.71	2.64	2.37	1.81	1.78	1.12	1.01	1.07	1.60	1.77	1.93	1.64	1.70
1982	1.56	1.75	1.33	1.49	1.03	1.24	0.88	0.82	1.27	1.77	1.82	1.56	1.37
1983	1.79	2.13	2.00	1.53	1.33	1.13	0.81	0.80	1.38	1.93	1.57	2.01	1.53
1984	2.02	1.69	1.91	1.51	1.45	0.89	1.18	0.71	1.65	1.49	1.98	1.36	1.49
1985	1.63	1.57	1.79	1.40	1.13	1.06	0.89	0.88	1.64	1.58	1.86	1.46	1.41
1986	1.66	1.55	2.06	1.61	1.53	1.28	0.91	1.36	1.35	1.61	1.63	2.01	1.55
1987	2.09	1.82	2.28	1.93	1.27	1.03	0.83	1.05	1.09	1.35	1.33	1.36	1.45
1988	1.68	1.55	1.50	1.58	1.34	1.10	1.17	1.14	1.23	1.38	1.61	1.39	1.39
1989	1.67	1.75	2.16	1.61	1.35	1.21	1.03	1.14	2.22	1.45	1.65	1.86	1.59
1990	1.43	1.90	1.60	1.57	1.49	1.25	1.14	1.02	1.54	1.54	1.38	1.87	1.46
1991	1.58	1.42	1.96	1.36	1.14	1.17	1.09	1.10	1.50	1.57	1.56	1.60	1.42
1992	1.74	1.60	1.58	1.38	1.36	0.93	0.95	0.93	1.20	1.31	1.51	1.98	1.37
1993	2.11	1.91	1.90	2.06	1.28	1.00	0.79	1.19	1.15	1.52	1.85	1.66	1.53
MEAN	1.79	1.80	1.86	1.61	1.34	1.13	0.96	1.03	1.41	1.56	1.70	1.72	

STATION: 52

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	44 936	581118	491119	5311 7	37 823	31 9 5	25 820	641112	311510	41 9 1	36 923	39 824	641112
1977	39 9 7	36 917	37 823	491119	23 813	24 618	23 7 2	26 821	17 8 9	4311 8	451210	4110 1	491119
1978	601318	43 935	341012	471036	421117	23 820	23 623	151213	501212	42 9 3	32 836	37 920	601318
1979	521120	591310	501116	521021	351018	29 8 7	26 916	21 622	34 8 4	33 9 0	451016	45 9 0	591310
1980	531216	541136	9417 4	551217	30 922	421022	35 911	421815	32 9 9	5512 9	5119 9	1011611	1011611
1981	5210 0	7614 9	6313 8	521119	4810 1	31 723	26 822	39 819	431712	4710 7	6916 7	36 9 3	7614 9
1982	41 912	4410 8	30 736	40 921	25 836	661120	32 821	28 8 3	36 9 6	6313 9	441611	4710 1	661120
1983	38 910	551211	671310	44 917	36 918	25 7 8	18 723	27 821	451310	4011 8	38 818	5912 5	671310
1984	6212 5	491120	521120	471017	461019	29 835	32 922	19 6 3	611217	471212	4810 5	30 722	6212 5
1985	481036	441021	451122	501219	32 8 1	431022	19 615	25 8 3	1391615	4710 5	45 913	4410 0	1391615
1986	4610 3	43 9 0	5212 8	41 9 0	4110 2	451017	36 822	571019	27 7 3	4311 3	4310 2	7114 9	7114 9
1987	541110	4910 8	6212 5	5312 1	26 7 2	21 621	22 721	25 710	30 910	42 9 3	38 917	37 918	6212 5
1988	391510	35 8 1	36 918	43 9 3	33 8 0	29 9 2	32 919	25 818	33 820	40 9 1	481021	3417 9	481021
1989	4510 9	531136	6114 4	35 8 2	36 917	32 821	29 821	261112	681912	30 914	41 918	7014 4	7014 4
1990	451017	461018	411118	33 918	40 918	29 8 1	271014	341613	301510	481036	4210 1	41 9 1	481036
1991	391013	38 922	491118	33 8 8	28 7 4	25 7 5	21 722	801315	561812	36 9 0	5012 5	39 919	801315
1992	451212	4511 5	40 918	4410 3	28 8 1	14 817	28 825	25 719	36 8 2	4610 4	38 818	491013	491013
1993	6613 8	5711 1	731320	6012 4	25 724	21 722	19 718	1041413	741413	34 8 2	591313	441020	1041413
MAX	6613 8	7614 9	9417 4	6012 4	4810 1	661120	36 822	1041413	1391615	6313 9	6916 7	1011611	

MAX Hmo(m): 13.9 MAX Tp(sec): 16. MAX Dp(deg): 151. DATE(gmt): 85092706

MAX WIND SPEED(m/sec): 39. MAX WIND DIRECTION(deg): 180. DATE(gmt): 85092706

MEAN Hmo(m): 1.5 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.50 N, LONG: 75.25 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 53

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	67	64	33	34	24	117	286	118	82	88	48	93	1054
0.50 - 0.99	680	669	640	869	1241	1973	2717	2516	1232	905	694	969	15105
1.00 - 1.49	1148	980	1150	1230	1737	1484	1064	1243	1348	1331	1257	1040	15012
1.50 - 1.99	927	911	935	1030	821	517	315	363	725	952	909	860	9265
2.00 - 2.49	655	551	685	518	373	165	60	105	485	513	593	611	5314
2.50 - 2.99	369	309	456	294	157	42	17	49	231	268	356	392	2940
3.00 - 3.49	223	247	232	157	68	15	5	24	91	167	199	207	1635
3.50 - 3.99	161	134	93	82	24	1	.	10	47	113	104	111	880
4.00 - 4.49	108	89	67	47	13	3	.	11	26	69	57	54	544
4.50 - 4.99	62	54	50	32	5	.	.	7	10	30	43	54	347
5.00 - 5.49	32	24	54	19	1	1	.	2	16	11	24	24	208
5.50 - 5.99	20	21	29	7	.	1	.	5	10	8	10	11	122
6.00 - 6.49	8	11	14	1	.	1	.	6	4	3	15	7	70
6.50 - 6.99	4	4	13	.	.	.	.	.	3	6	1	6	37
7.00 - 7.49	.	3	5	.	.	.	.	2	4	.	7	13	34
7.50 - 7.99	.	.	2	.	.	.	.	.	1	.	3	4	10
8.00 - 8.49	.	1	1	.	.	.	.	2	1	.	.	1	6
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	1	2
9.00 - 9.49	.	.	2	.	.	.	.	.	1	.	.	2	5
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	2	.	.	.	.	1	3	.	.	4	10
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 53

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	18	17	14	26	14	38	169	78	25	26	20	61	506
4.0 - 4.9	198	171	134	140	191	288	508	345	149	131	161	248	2664
5.0 - 5.9	287	272	229	207	318	372	526	480	244	231	266	314	3746
6.0 - 6.9	412	455	463	434	555	840	913	806	558	453	432	468	6789
7.0 - 7.9	473	526	541	480	863	935	797	905	712	565	502	537	7836
8.0 - 8.9	392	419	472	428	779	743	746	857	689	603	510	488	7126
9.0 - 9.9	471	467	487	486	612	426	400	338	421	657	613	402	5780
10.0 - 10.9	457	500	476	470	345	243	205	162	368	554	492	406	4678
11.0 - 11.9	327	325	424	447	277	196	89	127	273	365	356	302	3508
12.0 - 12.9	359	197	366	388	211	115	63	111	202	335	193	269	2809
13.0 - 13.9	335	180	306	417	115	80	43	73	210	248	190	299	2496
14.0 - 14.9	241	135	225	189	93	33	4	64	151	148	194	240	1717
15.0 - 15.9	196	134	124	107	67	7	1	58	130	69	139	174	1206
16.0 - 16.9	124	100	94	65	14	4	.	20	72	30	95	138	756
17.0 - 17.9	69	70	29	16	8	.	.	12	40	33	71	62	410
18.0 - 18.9	47	49	20	9	2	.	.	13	26	9	35	31	241
19.0 - 19.9	28	30	30	7	.	.	.	4	20	5	32	13	169
20.0 - LONGER	30	25	30	4	.	.	.	11	30	2	19	12	163
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 53

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	390	457	343	182	140	93	31	42	81	212	304	409	2684
11.25 - 33.74 (22.5)	257	258	181	178	135	129	112	148	166	219	222	271	2276
33.75 - 56.24 (45.0)	300	362	244	157	158	199	97	225	411	319	239	313	3024
56.25 - 78.74 (67.5)	936	767	1013	1361	959	765	351	571	1066	1226	952	1017	10984
78.75 - 101.24 (90.0)	855	544	795	623	657	420	287	676	916	1105	984	669	8531
101.25 - 123.74 (112.5)	544	503	521	493	670	703	877	1046	859	648	584	458	7906
123.75 - 146.24 (135.0)	262	244	294	294	396	528	643	571	421	277	268	197	4395
146.25 - 168.74 (157.5)	246	193	301	286	381	266	249	240	126	121	229	192	2830
168.75 - 191.24 (180.0)	186	256	347	355	557	424	559	411	136	112	202	254	3799
191.25 - 213.74 (202.5)	116	162	170	183	239	516	726	321	79	75	87	190	2864
213.75 - 236.24 (225.0)	44	94	74	62	73	182	288	119	29	28	40	107	1140
236.25 - 258.74 (247.5)	24	38	26	23	28	54	120	53	11	23	24	65	489
258.75 - 281.24 (270.0)	49	22	8	27	18	24	75	28	6	19	19	41	336
281.25 - 303.74 (292.5)	75	31	27	19	7	2	29	4	3	6	30	51	284
303.75 - 326.24 (315.0)	51	32	29	21	13	7	5	3	4	16	43	84	308
326.25 - 348.74 (337.5)	129	109	91	56	33	8	15	6	6	58	93	146	750
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.50 N, LONG: 75.25 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 53 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	90	355	2	.	.	.	.	.	.	.	447
1.00 - 1.99	137	1489	363	.	.	.	.	.	.	.	1989
2.00 - 2.99	.	284	998	6	.	.	.	.	.	.	1288
3.00 - 3.99	.	3	286	122	.	.	.	.	.	.	411
4.00 - 4.99	.	.	18	114	.	.	.	.	.	.	132
5.00 - 5.99	.	.	.	27	4	.	.	.	.	.	31
6.00 - 6.99	.	.	.	1	1	.	.	.	.	.	2
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	227	2131	1667	270	6	0	0	0	0	0	4301

STATION: 53 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	187	360	153	261	136	75	26	.	.	.	1198
1.00 - 1.99	75	1231	868	578	353	159	19	.	.	.	3283
2.00 - 2.99	.	139	824	273	147	87	6	.	.	.	1476
3.00 - 3.99	.	.	174	291	73	39	14	.	.	.	591
4.00 - 4.99	.	.	11	139	94	25	8	1	.	.	278
5.00 - 5.99	.	.	.	28	55	20	6	1	.	.	110
6.00 - 6.99	.	.	.	.	14	20	1	1	.	.	36
7.00 - 7.99	.	.	.	.	1	11	5	1	.	.	18
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	2	2	.	.	4
TOTAL	262	1730	2030	1570	873	436	88	7	0	0	6996

STATION: 53 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	97	443	1481	1873	1423	872	347	133	40	3	6712
1.00 - 1.99	27	631	1777	2639	2170	1595	681	202	89	22	9833
2.00 - 2.99	.	39	429	400	774	763	467	136	43	2	3053
3.00 - 3.99	.	.	55	190	134	201	188	55	18	.	841
4.00 - 4.99	.	.	5	46	71	55	59	38	24	.	298
5.00 - 5.99	.	.	.	5	23	24	24	36	16	2	130
6.00 - 6.99	.	.	.	2	8	20	3	4	22	.	59
7.00 - 7.99	.	.	.	.	.	8	6	.	7	.	21
8.00 - 8.99	.	.	.	.	1	1	2	.	.	.	4
9.00 - GREATER	.	.	.	.	.	1	2	3	.	.	6
TOTAL	124	1113	3747	5155	4604	3540	1779	607	259	29	20957

STATION: 53 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	76	739	2649	934	94	24	6	5	4	2	4533
1.00 - 1.99	34	649	1365	1105	274	64	22	17	8	4	3542
2.00 - 2.99	.	77	320	305	196	73	50	5	3	2	1031
3.00 - 3.99	.	.	71	114	53	23	11	4	5	1	282
4.00 - 4.99	.	.	7	43	31	14	.	2	6	.	103
5.00 - 5.99	.	.	.	4	14	9	.	2	9	.	38
6.00 - 6.99	.	.	.	.	1	4	.	1	.	.	6
7.00 - 7.99	.	.	.	.	.	3	.	1	.	.	4
8.00 - 8.99	.	.	.	.	.	2	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	2	3	.	.	.	5
TOTAL	110	1465	4412	2505	663	218	92	37	35	9	9546

STATION: 53 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	228	1211	550	61	2	.	.	.	.	.	2052
1.00 - 1.99	137	1695	1091	349	43	7	.	.	.	.	3322
2.00 - 2.99	.	141	626	206	53	4	2	.	.	.	1032
3.00 - 3.99	.	.	158	166	37	4	1	.	.	.	366
4.00 - 4.99	.	.	8	51	19	2	.	.	.	.	80
5.00 - 5.99	.	.	.	11	8	2	.	.	.	.	21
6.00 - 6.99	.	.	.	1	3	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	365	3047	2433	845	165	19	3	0	0	0	6877

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.50 N, LONG: 75.25 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 53 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	475	181	61	4	.	.	.	.	.	.	721
1.00 - 1.99	693	500	446	23	.	.	.	.	.	.	1662
2.00 - 2.99	.	23	131	72	3	.	.	.	.	.	229
3.00 - 3.99	.	.	.	14	3	.	.	.	.	.	17
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1168	704	638	113	6	0	0	0	0	0	2629

STATION: 53 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	371	5	.	.	.	.	.	.	.	.	376
1.00 - 1.99	235	22	1	.	.	.	.	.	.	.	258
2.00 - 2.99	.	9	2	.	.	.	.	.	.	.	11
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	606	36	3	0	0	0	0	0	0	0	645

STATION: 53 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	115	5	.	.	.	.	.	.	.	.	120
1.00 - 1.99	193	184	11	.	.	.	.	.	.	.	388
2.00 - 2.99	.	114	20	.	.	.	.	.	.	.	134
3.00 - 3.99	.	6	1	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	308	309	32	0	0	0	0	0	0	0	649

STATION: 53 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1639	3299	4896	3133	1655	971	379	138	44	5	16159
1.00 - 1.99	1531	6401	5922	4694	2840	1825	722	219	97	26	24277
2.00 - 2.99	.	826	3350	1262	1173	927	525	141	46	4	8254
3.00 - 3.99	.	9	745	897	300	267	214	59	23	1	2515
4.00 - 4.99	.	.	49	393	215	96	67	41	30	.	891
5.00 - 5.99	.	.	.	75	104	55	30	39	25	2	330
6.00 - 6.99	.	.	.	4	27	44	4	6	22	.	107
7.00 - 7.99	.	.	.	.	2	22	11	2	7	.	44
8.00 - 8.99	.	.	.	.	1	3	3	1	.	.	8
9.00 - GREATER	.	.	.	.	.	3	7	5	.	.	15
TOTAL	3170	10535	14962	10458	6317	4213	1962	651	294	38	52600

STATION: 53

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	136	180	196	230	440	451	580	711	494	360	219	176	4173
2.50 - 4.99	1037	921	1113	1350	1694	1869	2071	2311	1944	1482	1185	1090	18076
5.00 - 7.49	794	751	863	905	1081	1016	1070	906	880	973	900	822	10961
7.50 - 9.99	1146	1067	1108	1045	875	781	661	453	711	973	1149	1082	11051
10.00 - 12.49	610	500	543	417	253	159	70	53	194	410	448	603	4260
12.50 - 14.99	527	448	418	296	113	37	12	11	68	225	323	498	2976
15.00 - 17.49	139	118	125	55	6	3	.	5	16	29	69	105	670
17.50 - 19.99	69	74	73	22	2	.	.	6	7	11	19	55	338
20.00 - GREATER	6	13	25	.	.	4	.	8	6	1	8	24	95
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.50 N, LONG: 75.25 W, DEPTH: 27 M

STATION: 53

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	938	871	807	570	534	388	217	381	515	820	788	920	7749
22.50 - 67.49 (45.0)	527	505	481	439	543	535	376	677	1194	1057	692	574	7600
67.50 - 112.49 (90.0)	251	244	323	214	348	415	265	388	532	514	372	210	4076
112.50 - 157.49 (135.0)	202	206	355	311	334	256	283	467	383	287	290	178	3552
157.50 - 202.49 (180.0)	385	386	572	717	887	638	573	621	451	397	554	348	6529
202.50 - 247.49 (225.0)	530	639	763	891	1059	1439	1829	1205	659	513	514	772	10813
247.50 - 292.49 (270.0)	671	476	484	616	440	435	716	489	355	415	501	647	6245
292.50 - 337.49 (315.0)	960	745	679	562	319	214	205	236	231	461	609	815	6036
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 53

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.77	1.59	1.44	1.61	1.45	1.30	0.72	1.48	1.14	1.86	1.38	1.61	1.45
1977	1.71	1.32	1.57	1.53	0.93	0.93	0.80	0.83	0.94	1.70	2.01	1.74	1.33
1978	1.82	2.11	1.75	1.63	1.38	0.90	0.89	0.85	1.74	1.60	1.84	1.51	1.50
1979	2.13	2.35	1.97	1.60	1.51	1.20	0.83	0.93	1.83	1.26	1.84	1.89	1.61
1980	2.58	2.11	2.69	1.84	1.21	1.28	1.01	1.27	1.31	1.61	2.25	2.62	1.81
1981	1.79	2.84	2.55	1.69	1.86	0.99	0.95	1.04	1.72	1.81	2.09	1.68	1.74
1982	1.66	1.85	1.36	1.46	1.10	1.24	0.82	0.78	1.31	2.02	1.90	1.61	1.42
1983	1.88	2.36	2.05	1.62	1.28	1.10	0.77	0.76	1.46	2.08	1.63	2.03	1.58
1984	2.20	1.69	2.03	1.55	1.37	0.90	1.06	0.71	1.63	1.62	2.05	1.41	1.52
1985	1.71	1.56	1.70	1.33	1.13	0.96	0.84	0.89	1.68	1.58	2.06	1.44	1.40
1986	1.75	1.65	2.04	1.75	1.66	1.19	0.78	1.37	1.41	1.67	1.68	2.10	1.59
1987	2.28	1.88	2.52	2.06	1.31	0.97	0.78	1.02	1.12	1.40	1.38	1.37	1.51
1988	1.75	1.57	1.51	1.62	1.37	1.07	1.07	1.07	1.21	1.41	1.54	1.40	1.38
1989	1.61	1.73	2.21	1.58	1.35	1.10	0.95	1.17	2.33	1.48	1.68	1.97	1.59
1990	1.34	1.80	1.61	1.63	1.42	1.20	1.09	1.09	1.43	1.59	1.39	1.89	1.46
1991	1.59	1.37	1.83	1.36	1.13	1.14	0.98	1.07	1.51	1.66	1.64	1.56	1.40
1992	1.74	1.60	1.55	1.41	1.44	0.90	0.83	0.87	1.24	1.37	1.49	2.06	1.37
1993	2.15	2.02	1.95	2.16	1.28	0.96	0.75	1.16	1.14	1.55	1.87	1.78	1.56
MEAN	1.86	1.85	1.91	1.63	1.34	1.07	0.88	1.02	1.45	1.63	1.76	1.76	

STATION: 53

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	47 9 0	48 919	331116	5611 7	36 917	34 9 5	20 819	6410 9	3715 9	43 9 2	36 8 1	34 8 7	6410 9
1977	39 9 0	37 817	39 916	371117	23 735	24 618	23 7 3	20 819	17 8 9	4611 6	5013 9	5116 8	5116 8
1978	541018	4820 8	361011	5813 7	411116	23 718	17 715	141112	501211	46 9 4	35 836	37 9 3	5813 7
1979	521019	6213 8	531114	461312	34 719	27 8 7	24 915	181513	37 9 5	33 9 7	461014	5012 6	6213 8
1980	5918 7	591035	10717 5	551017	29 7 0	281021	34 911	421914	33 9 9	5612 8	6319 8	1101610	1101610
1981	5710 1	8114 8	7020 8	541218	5310 3	22 821	26 7 3	31 816	441811	4810 7	7613 4	36 8 2	8114 8
1982	41 912	4810 5	32 736	36 9 5	27 836	641119	23 821	31 8 3	34 8 4	6713 7	5516 9	5110 3	6713 7
1983	39 9 9	581210	711310	45 916	33 720	25 7 8	15 6 5	20 721	5211 4	4512 7	37 817	6111 4	711310
1984	6813 5	421013	40 918	491016	351018	31 835	25 719	19 6 3	591115	4910 7	4910 5	28 7 4	6813 5
1985	5310 0	39 815	44 9 1	391218	32 8 2	301021	19 615	24 8 4	1301513	4810 5	511010	4610 1	1301513
1986	4710 4	48 9 0	531019	4814 6	4717 8	40 913	27 821	621019	2913 8	4411 4	45 9 2	7614 8	7614 8
1987	5611 8	4910 8	7113 5	5512 3	27 7 2	16 619	19 719	2615 8	31 9 9	43 9 4	39 917	39 918	7113 5
1988	4415 9	36 8 1	36 917	48 9 4	35 9 2	30 9 3	31 918	24 817	27 818	41 9 1	451118	3917 8	48 9 4
1989	4410 9	6011 0	6414 5	35 8 3	38 916	25 820	27 817	281111	751911	3215 8	43 918	7514 5	7514 5
1990	451016	451017	411118	34 918	41 917	29 8 1	271013	341613	3515 9	521036	43 9 0	42 9 1	521036
1991	401012	33 8 4	47 918	32 8 9	29 8 5	23 7 3	17 816	801211	601811	4415 7	5412 5	38 9 1	801211
1992	501211	4611 5	37 912	44 9 2	28 8 2	15 536	19 822	21 718	38 8 3	4710 4	39 818	491012	501211
1993	6713 7	6211 3	671219	6412 4	23 719	16 721	19 718	1051412	941412	39 8 1	621312	46 9 2	1051412
MAX	6813 5	8114 8	10717 5	6412 4	5310 3	641119	34 911	1051412	1301513	6713 7	7613 4	1101610	

MAX Hmo(m): 13.0 MAX Tp(sec): 15. MAX Dp(deg): 130. DATE(gmt): 85092706

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 55. DATE(gmt): 93083121

MEAN Hmo(m): 1.5 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.75 N, LONG: 75.25 W, DEPTH: 29 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 54

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	70	74	37	42	26	133	378	161	94	110	56	105	1286
0.50 - 0.99	719	725	693	967	1358	2106	2794	2618	1314	950	765	1019	16028
1.00 - 1.49	1193	993	1199	1250	1733	1450	1015	1188	1361	1375	1309	1065	15131
1.50 - 1.99	895	891	900	994	785	450	212	291	701	925	837	831	8712
2.00 - 2.49	630	539	699	471	306	133	47	96	473	476	578	583	5031
2.50 - 2.99	359	282	395	286	156	28	14	46	180	241	343	392	2722
3.00 - 3.49	223	222	217	146	64	12	4	22	80	166	179	186	1521
3.50 - 3.99	162	140	98	60	21	4	.	14	48	96	97	95	835
4.00 - 4.49	97	94	57	48	11	1	.	6	20	76	56	62	528
4.50 - 4.99	56	50	60	31	3	.	.	7	16	26	53	53	355
5.00 - 5.49	30	26	44	15	1	1	.	4	14	14	14	24	187
5.50 - 5.99	16	16	28	9	.	.	.	5	4	1	16	10	105
6.00 - 6.49	9	14	15	.	.	2	.	2	5	2	4	9	62
6.50 - 6.99	4	4	8	1	.	.	.	.	5	6	3	8	39
7.00 - 7.49	1	1	5	.	.	.	.	2	.	.	5	10	24
7.50 - 7.99	.	.	2	.	.	.	.	.	1	.	4	1	8
8.00 - 8.49	.	1	2	.	.	.	.	1	.	.	1	4	9
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	2	2
9.00 - 9.49	.	.	2	.	.	.	.	1	1	.	.	1	5
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	2	2
10.00 - GREATER	.	.	3	.	.	.	.	.	3	.	.	2	8
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 54

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	27	27	22	35	28	54	230	101	24	28	22	71	669
4.0 - 4.9	219	211	162	189	254	422	676	427	180	160	190	310	3400
5.0 - 5.9	310	289	258	229	307	338	478	453	258	259	298	325	3802
6.0 - 6.9	446	452	502	437	537	777	760	782	566	500	464	499	6722
7.0 - 7.9	517	539	549	471	870	891	764	893	740	577	526	544	7881
8.0 - 8.9	397	428	448	437	767	729	748	859	656	609	509	465	7052
9.0 - 9.9	442	448	459	438	588	423	398	326	416	609	597	382	5526
10.0 - 10.9	450	471	468	470	338	251	215	156	362	546	473	396	4596
11.0 - 11.9	317	327	425	452	276	203	90	123	262	366	338	266	3445
12.0 - 12.9	355	188	359	384	210	111	63	105	216	324	173	276	2764
13.0 - 13.9	324	184	305	400	107	84	38	70	188	236	184	296	2416
14.0 - 14.9	221	138	215	181	101	24	2	65	149	130	186	245	1657
15.0 - 15.9	182	126	112	105	59	11	2	53	124	52	129	158	1113
16.0 - 16.9	107	93	85	60	14	2	.	15	67	30	88	132	693
17.0 - 17.9	60	64	22	17	8	.	.	10	43	28	65	53	370
18.0 - 18.9	43	43	19	6	.	.	.	11	25	5	30	28	210
19.0 - 19.9	22	29	21	8	.	.	.	4	13	3	31	9	140
20.0 - LONGER	25	15	33	1	.	.	.	11	31	2	17	9	144
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 54

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	382	439	324	164	152	90	40	52	86	215	287	362	2593
11.25 - 33.74 (22.5)	247	250	178	171	129	128	112	150	170	232	222	276	2265
33.75 - 56.24 (45.0)	294	348	241	167	164	193	106	225	397	317	247	273	2972
56.25 - 78.74 (67.5)	1115	952	1139	1385	1002	800	374	559	1095	1255	1082	1128	11886
78.75 - 101.24 (90.0)	634	349	665	596	654	413	273	708	907	996	813	557	7565
101.25 - 123.74 (112.5)	556	520	502	474	657	738	956	1090	881	680	577	463	8094
123.75 - 146.24 (135.0)	248	249	308	319	407	525	607	527	403	274	262	208	4337
146.25 - 168.74 (157.5)	226	192	313	285	415	279	261	250	113	111	223	182	2850
168.75 - 191.24 (180.0)	189	259	327	363	527	523	684	435	128	122	199	259	4015
191.25 - 213.74 (202.5)	79	106	119	117	169	300	458	218	56	62	63	111	1858
213.75 - 236.24 (225.0)	31	75	67	61	53	187	305	135	41	22	31	98	1106
236.25 - 258.74 (247.5)	41	50	39	27	41	66	127	61	13	27	32	82	606
258.75 - 281.24 (270.0)	52	29	11	36	22	30	98	31	8	19	27	45	408
281.25 - 303.74 (292.5)	70	26	30	21	10	12	29	8	2	10	38	62	318
303.75 - 326.24 (315.0)	78	39	33	19	17	10	16	5	7	18	48	63	353
326.25 - 348.74 (337.5)	222	189	168	115	45	26	18	10	13	104	169	295	1374
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.75 N, LONG: 75.25 W, DEPTH: 29 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 54 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	135	363	1								499
1.00 - 1.99	123	1659	198	1							1981
2.00 - 2.99	.	348	1111								1459
3.00 - 3.99	.	.	396	79							475
4.00 - 4.99	.	.	28	131	1						160
5.00 - 5.99	.	.	1	29							30
6.00 - 6.99	.	.	.	4	2						6
7.00 - 7.99	.	.	.	.	.						0
8.00 - 8.99	.	.	.	.	.						0
9.00 - GREATER	.	.	.	.	.						0
TOTAL	258	2370	1735	244	3	0	0	0	0	0	4610

STATION: 54 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	219	363	173	311	192	109	38	.	.	.	1405
1.00 - 1.99	72	1255	878	584	388	164	27	.	.	.	3368
2.00 - 2.99	.	134	768	256	143	82	8	.	.	.	1391
3.00 - 3.99	.	.	172	260	67	46	17	.	.	.	562
4.00 - 4.99	.	.	6	149	85	25	8	1	.	.	274
5.00 - 5.99	.	.	.	37	54	25	5	1	.	.	122
6.00 - 6.99	.	.	.	.	14	18	2	1	.	.	35
7.00 - 7.99	.	.	.	.	4	11	3	1	.	.	19
8.00 - 8.99	.	.	.	.	.	3	1	1	.	.	5
9.00 - GREATER	.	.	.	.	.	.	3	2	.	.	5
TOTAL	291	1752	1997	1597	947	483	112	7	0	0	7186

STATION: 54 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	105	472	1592	2035	1504	890	338	124	36	4	7100
1.00 - 1.99	24	626	1772	2520	2129	1547	633	182	73	18	9524
2.00 - 2.99	.	36	427	380	658	662	408	120	41	2	2734
3.00 - 3.99	.	.	55	158	128	180	163	46	10	.	740
4.00 - 4.99	.	.	3	43	76	50	46	42	23	1	284
5.00 - 5.99	.	.	.	5	18	15	10	20	25	1	94
6.00 - 6.99	.	.	.	1	8	20	3	1	13	.	46
7.00 - 7.99	.	.	.	.	2	6	4	.	.	.	12
8.00 - 8.99	.	.	.	.	1	3	2	.	.	.	6
9.00 - GREATER	.	.	.	.	.	1	3	2	.	.	6
TOTAL	129	1134	3849	5142	4524	3374	1610	537	221	26	20546

STATION: 54 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	91	811	2818	922	85	25	6	6	3	2	4769
1.00 - 1.99	35	693	1385	1067	273	65	15	17	7	5	3562
2.00 - 2.99	.	74	302	292	190	65	49	5	1	2	980
3.00 - 3.99	.	.	81	98	44	30	8	3	6	.	270
4.00 - 4.99	.	.	8	47	26	9	.	2	5	.	97
5.00 - 5.99	.	.	.	3	13	6	1	1	6	.	29
6.00 - 6.99	.	.	.	.	3	4	1	2	.	.	10
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	1	3	.	.	.	4
TOTAL	126	1578	4594	2429	634	206	82	36	28	9	9722

STATION: 54 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	273	1245	575	74	2	.	.	.	.	.	2169
1.00 - 1.99	188	1541	1102	288	35	4	.	.	.	.	3158
2.00 - 2.99	.	150	556	141	33	3	2	.	.	.	885
3.00 - 3.99	.	1	158	107	12	2	.	.	.	.	280
4.00 - 4.99	.	.	8	49	9	1	.	.	.	.	67
5.00 - 5.99	.	.	.	10	7	.	.	.	.	.	17
6.00 - 6.99	.	.	.	1	3	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	461	2937	2399	670	101	10	2	0	0	0	6580

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.75 N, LONG: 75.25 W, DEPTH: 29 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 54 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	669	23	27	1	.	.	.	.	.	.	720
1.00 - 1.99	1065	189	117	24	.	.	.	.	.	.	1395
2.00 - 2.99	.	46	19	12	.	.	.	.	.	.	77
3.00 - 3.99	.	.	.	1	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1734	258	163	38	0	0	0	0	0	0	2193

STATION: 54 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	476	.	.	.	.	.	.	.	.	.	476
1.00 - 1.99	280	29	.	.	.	.	.	.	.	.	309
2.00 - 2.99	.	7	1	.	.	.	.	.	.	.	8
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	756	36	1	0	0	0	0	0	0	0	793

STATION: 54 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	142	34	.	.	.	.	.	.	.	.	176
1.00 - 1.99	172	355	19	.	.	.	.	.	.	.	546
2.00 - 2.99	.	65	154	.	.	.	.	.	.	.	219
3.00 - 3.99	.	5	22	1	.	.	.	.	.	.	28
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	314	459	195	2	0	0	0	0	0	0	970

STATION: 54 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2110	3311	5186	3343	1783	1024	382	130	39	6	17314
1.00 - 1.99	1959	6347	5471	4484	2825	1780	675	199	80	23	23843
2.00 - 2.99	.	860	3338	1081	1024	812	467	125	42	4	7753
3.00 - 3.99	.	6	884	704	251	258	188	49	16	.	2356
4.00 - 4.99	.	.	53	420	197	85	54	45	28	1	883
5.00 - 5.99	.	.	1	84	92	46	15	22	31	1	292
6.00 - 6.99	.	.	.	6	30	42	6	4	13	.	101
7.00 - 7.99	.	.	.	.	6	18	7	1	.	.	32
8.00 - 8.99	.	.	.	.	1	6	3	1	.	.	11
9.00 - GREATER	.	.	.	.	.	2	9	4	.	.	15
TOTAL	4069	10524	14933	10122	6209	4073	1806	580	249	35	52600

STATION: 54

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	111	157	171	217	401	439	548	704	477	339	189	160	3913
2.50 - 4.99	1049	941	1121	1378	1787	1919	2137	2355	1977	1514	1231	1097	18506
5.00 - 7.49	799	775	894	909	1070	1025	1090	909	910	975	899	835	11090
7.50 - 9.99	1160	1071	1106	1036	856	764	620	423	688	991	1145	1120	10980
10.00 - 12.49	624	487	536	425	240	138	62	43	177	397	448	606	4183
12.50 - 14.99	522	430	430	282	103	29	6	12	67	212	313	471	2877
15.00 - 17.49	126	122	113	58	5	2	1	5	10	24	68	92	626
17.50 - 19.99	67	78	64	15	2	1	.	4	7	12	19	60	329
20.00 - GREATER	6	11	29	.	.	3	.	9	7	.	8	23	96
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 35.75 N, LONG: 75.25 W, DEPTH: 29 M

STATION: 54

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	923	855	809	579	555	410	237	406	538	819	783	905	7819
22.50 - 67.49 (45.0)	517	495	464	415	540	515	374	671	1180	1041	671	558	7441
67.50 - 112.49 (90.0)	252	253	321	226	337	394	258	384	514	497	373	218	4027
112.50 - 157.49 (135.0)	199	199	370	318	330	269	295	449	400	287	280	170	3566
157.50 - 202.49 (180.0)	392	400	581	719	910	645	556	648	450	407	560	355	6623
202.50 - 247.49 (225.0)	526	616	732	858	1021	1402	1787	1170	642	514	506	766	10540
247.50 - 292.49 (270.0)	658	487	483	631	444	446	735	492	369	417	510	653	6325
292.50 - 337.49 (315.0)	997	767	704	574	327	239	222	244	227	482	637	839	6259
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 54

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.74	1.51	1.39	1.54	1.40	1.29	0.69	1.42	1.09	1.82	1.37	1.58	1.40
1977	1.73	1.30	1.54	1.45	0.92	0.90	0.77	0.79	0.92	1.68	1.97	1.68	1.31
1978	1.81	2.06	1.73	1.58	1.34	0.88	0.84	0.82	1.68	1.54	1.79	1.45	1.46
1979	2.09	2.31	1.93	1.56	1.46	1.15	0.79	0.90	1.78	1.21	1.79	1.87	1.56
1980	2.54	2.08	2.65	1.79	1.16	1.18	0.95	1.22	1.25	1.58	2.16	2.55	1.76
1981	1.78	2.78	2.44	1.64	1.84	0.92	0.93	1.00	1.65	1.78	2.10	1.69	1.70
1982	1.62	1.82	1.33	1.43	1.07	1.20	0.78	0.74	1.27	1.96	1.81	1.58	1.38
1983	1.87	2.33	2.05	1.61	1.24	1.06	0.73	0.74	1.42	2.03	1.58	2.01	1.55
1984	2.15	1.68	2.00	1.48	1.31	0.90	1.00	0.69	1.58	1.57	2.02	1.36	1.48
1985	1.75	1.51	1.63	1.28	1.11	0.90	0.81	0.88	1.62	1.53	1.99	1.41	1.37
1986	1.73	1.61	1.97	1.72	1.60	1.13	0.71	1.29	1.36	1.63	1.64	2.05	1.54
1987	2.19	1.86	2.46	2.02	1.28	0.92	0.74	0.97	1.09	1.37	1.38	1.35	1.47
1988	1.68	1.55	1.48	1.58	1.34	1.05	1.01	1.02	1.15	1.38	1.50	1.38	1.34
1989	1.55	1.70	2.18	1.53	1.31	1.04	0.90	1.13	2.25	1.43	1.65	1.96	1.55
1990	1.28	1.72	1.58	1.57	1.36	1.16	1.05	1.07	1.39	1.57	1.37	1.84	1.41
1991	1.56	1.34	1.74	1.32	1.08	1.10	0.91	1.05	1.46	1.63	1.62	1.53	1.36
1992	1.71	1.58	1.50	1.36	1.41	0.86	0.77	0.82	1.23	1.32	1.43	2.01	1.33
1993	2.09	1.99	1.89	2.11	1.22	0.92	0.72	1.11	1.12	1.50	1.80	1.77	1.51
MEAN	1.83	1.82	1.86	1.59	1.30	1.03	0.84	0.98	1.41	1.58	1.72	1.73	

STATION: 54

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	4910 3	46 919	31 7 1	5411 7	35 917	3610 5	18 819	59 9 6	3315 9	43 9 1	37 8 0	32 834	59 9 6
1977	39 834	37 817	40 916	34 819	24 735	27 734	23 7 3	17 819	17 635	4611 6	4812 9	5011 4	5011 4
1978	5511116	46 935	371011	5914 7	4110 18	23 719	17 6 2	141212	471211	45 9 4	36 835	36 8 1	5914 7
1979	5110 18	6113 8	541113	4413 12	33 818	25 8 7	22 915	171512	38 9 5	32 9 7	4610 14	5210 0	6113 8
1980	6110 35	6010 35	11017 5	5510 17	28 7 0	25 7 5	32 911	391914	33 9 9	5412 8	6019 8	11116 9	11116 9
1981	5511 5	8213 7	7113 7	5512 18	5211 4	21 6 1	29 7 7	31 712	4017 10	46 9 5	8013 4	3813 6	8213 7
1982	40 912	5110 6	33 736	36 9 5	28 836	6311 19	19 720	32 8 3	32 8 4	6813 7	4816 9	50 9 1	6813 7
1983	38 9 3	5911 10	7012 9	45 916	33 819	25 7 8	15 634	18 6 3	5611 5	4511 6	36 817	6011 5	7012 9
1984	7013 5	4310 13	40 911	4910 16	31 8 0	30 734	25 719	18 6 3	5611 14	4611 9	4810 5	28 810	7013 5
1985	50 935	40 815	4510 3	38 912	33 8 2	2411 19	18 615	22 7 3	12315 13	4910 5	5310 10	4710 2	12315 13
1986	4710 4	48 9 0	5511 17	4814 6	46 9 2	38 913	23 819	6411 17	2813 8	4311 4	46 9 2	7414 7	7414 7
1987	5510 3	5110 8	7413 5	5412 4	28 7 5	16 519	18 619	2515 7	30 9 9	42 9 4	39 917	38 918	7413 5
1988	4215 9	36 8 2	35 918	5110 4	34 9 2	30 7 3	30 918	23 718	2415 10	42 9 2	4511 18	3717 7	5110 4
1989	42 9 6	6313 3	6414 5	34 8 3	39 916	21 918	27 718	2811 10	6919 10	29 913	42 918	8014 6	8014 6
1990	4410 16	4510 16	4110 18	34 919	41 917	28 8 1	25 10 13	3116 12	3114 9	5310 0	42 9 1	42 916	5310 0
1991	41 913	32 8 4	43 817	31 8 8	29 7 4	24 8 3	16 816	8212 10	5518 10	4315 7	5612 5	38 9 1	8212 10
1992	4812 11	4611 5	35 912	42 9 5	28 8 2	15 535	16 821	21 619	38 8 3	4610 4	39 818	4810 12	4810 12
1993	6513 7	6210 1	6612 17	6512 4	2111 7	16 535	19 718	9314 13	10013 10	41 836	6213 12	46 9 2	10013 10
MAX	7013 5	8213 7	11017 5	6512 4	5211 4	6311 19	32 911	9314 13	12315 13	6813 7	8013 4	11116 9	

MAX Hmo(m): 12.3 MAX Tp(sec): 15. MAX Dp(deg): 130. DATE(gmt): 85092706

MAX WIND SPEED(m/sec): 44. MAX WIND DIRECTION(deg): 95. DATE(gmt): 85092706

MEAN Hmo(m): 1.5 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.00 N, LONG: 75.25 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 55

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	71	79	41	46	31	152	476	213	105	123	61	133	1531
0.50 - 0.99	750	792	746	1005	1473	2229	2841	2664	1381	991	802	1023	16697
1.00 - 1.49	1208	996	1218	1303	1714	1422	939	1123	1359	1402	1321	1083	15088
1.50 - 1.99	832	817	861	939	712	359	149	282	683	875	800	773	8082
2.00 - 2.49	584	504	681	469	286	103	45	81	454	451	557	563	4778
2.50 - 2.99	359	303	352	249	146	36	10	48	161	244	306	353	2567
3.00 - 3.49	249	185	216	120	60	11	4	18	68	164	206	215	1516
3.50 - 3.99	168	158	117	84	26	5	.	10	48	92	107	113	928
4.00 - 4.49	128	111	62	46	13	1	.	9	20	70	58	79	596
4.50 - 4.99	53	46	55	27	1	1	.	4	15	30	49	45	326
5.00 - 5.49	29	39	39	20	2	.	.	5	7	12	21	34	208
5.50 - 5.99	16	19	32	9	.	.	.	3	8	2	14	12	115
6.00 - 6.49	12	17	20	2	.	2	.	1	5	3	5	7	74
6.50 - 6.99	3	5	8	1	.	.	.	.	.	3	3	9	32
7.00 - 7.49	2	.	5	.	.	.	.	1	1	2	4	11	26
7.50 - 7.99	.	1	3	.	.	.	.	.	1	.	3	3	11
8.00 - 8.49	.	.	2	.	.	.	.	2	.	.	3	1	8
8.50 - 8.99	.	.	1	.	.	.	.	.	1	.	.	2	4
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	1	1
9.50 - 9.99	.	.	2	.	.	.	.	.	1	.	.	2	5
10.00 - GREATER	.	.	3	.	.	.	.	.	2	.	.	2	7
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 55

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	35	36	25	38	27	87	274	117	29	35	30	76	809
4.0 - 4.9	246	264	211	236	327	547	877	466	207	176	200	381	4138
5.0 - 5.9	391	359	334	329	344	428	508	498	300	302	377	412	4582
6.0 - 6.9	483	490	505	438	491	634	567	722	495	498	480	522	6325
7.0 - 7.9	489	499	513	447	763	770	639	852	786	562	519	519	7358
8.0 - 8.9	411	435	415	406	803	723	767	856	661	642	523	407	7049
9.0 - 9.9	419	450	436	411	601	433	413	353	394	610	583	397	5500
10.0 - 10.9	435	452	467	436	352	256	229	152	360	525	477	365	4506
11.0 - 11.9	302	263	441	447	272	195	85	118	268	369	292	252	3304
12.0 - 12.9	338	190	346	394	195	125	63	102	209	295	168	263	2688
13.0 - 13.9	307	168	297	383	109	89	38	63	190	218	173	274	2309
14.0 - 14.9	218	122	199	163	104	21	3	62	138	125	168	236	1559
15.0 - 15.9	152	117	105	111	55	10	1	55	117	42	115	158	1038
16.0 - 16.9	98	87	78	53	15	2	.	17	61	29	79	115	634
17.0 - 17.9	54	55	17	17	6	.	.	11	41	27	58	51	337
18.0 - 18.9	41	41	18	6	.	.	.	7	21	5	31	22	192
19.0 - 19.9	19	24	27	2	.	.	.	3	17	3	30	8	133
20.0 - LONGER	26	20	30	3	.	.	.	10	26	1	17	6	139
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 55

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	355	414	293	154	159	109	44	64	101	215	284	336	2528
11.25 - 33.74 (22.5)	248	249	166	172	138	116	116	158	174	226	194	269	2226
33.75 - 56.24 (45.0)	289	315	234	152	159	197	118	209	365	289	235	233	2795
56.25 - 78.74 (67.5)	957	876	1038	1325	996	839	372	565	1058	1151	948	1030	11155
78.75 - 101.24 (90.0)	681	355	714	586	617	392	259	695	862	989	821	559	7530
101.25 - 123.74 (112.5)	535	503	550	530	735	700	945	1068	922	687	633	492	8300
123.75 - 146.24 (135.0)	348	339	397	402	486	642	733	617	468	352	300	252	5336
146.25 - 168.74 (157.5)	153	147	248	232	400	298	294	252	101	110	192	150	2577
168.75 - 191.24 (180.0)	130	163	210	206	345	306	451	354	99	101	153	159	2677
191.25 - 213.74 (202.5)	69	92	110	138	146	221	397	188	56	56	67	103	1643
213.75 - 236.24 (225.0)	40	121	90	89	100	267	387	161	50	28	41	150	1524
236.25 - 258.74 (247.5)	53	66	47	36	47	106	144	63	18	33	38	95	746
258.75 - 281.24 (270.0)	59	40	16	47	28	45	102	38	7	20	36	58	496
281.25 - 303.74 (292.5)	83	43	43	31	13	23	50	8	4	15	49	77	439
303.75 - 326.24 (315.0)	218	126	111	76	39	18	28	9	11	62	132	178	1008
326.25 - 348.74 (337.5)	246	223	197	144	56	41	24	15	24	130	197	323	1620
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.00 N, LONG: 75.25 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 55 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	195	315									510
1.00 - 1.99	99	1608	163	1							1871
2.00 - 2.99	.	320	946	2							1268
3.00 - 3.99	.	1	520	35							556
4.00 - 4.99	.	.	81	111							192
5.00 - 5.99	.	.	.	67	4						71
6.00 - 6.99	.	.	.	8	1						9
7.00 - 7.99	.	.	.	.	.						0
8.00 - 8.99	.	.	.	.	.						0
9.00 - GREATER	.	.	.	.	1						1
TOTAL	294	2244	1710	224	6	0	0	0	0	0	4478

STATION: 55 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	242	375	189	334	176	74	18	.	.	.	1408
1.00 - 1.99	69	1196	830	559	334	127	11	.	.	.	3126
2.00 - 2.99	.	114	688	213	118	58	7	.	.	.	1198
3.00 - 3.99	.	.	166	239	44	32	15	.	.	.	496
4.00 - 4.99	.	.	9	153	52	21	7	1	.	.	243
5.00 - 5.99	.	.	.	45	48	11	5	.	.	.	109
6.00 - 6.99	.	.	.	1	21	20	3	.	.	.	45
7.00 - 7.99	.	.	.	.	7	12	2	1	.	.	22
8.00 - 8.99	.	.	.	.	1	3	1	1	.	.	6
9.00 - GREATER	.	.	.	.	.	.	2	2	.	.	4
TOTAL	311	1685	1882	1544	801	358	71	5	0	0	6657

STATION: 55 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	123	493	1577	2085	1568	962	341	115	27	4	7295
1.00 - 1.99	25	597	1812	2385	2059	1533	623	164	72	19	9289
2.00 - 2.99	.	42	405	372	587	560	369	107	37	1	2480
3.00 - 3.99	.	.	53	148	113	139	133	47	10	.	643
4.00 - 4.99	.	.	4	41	69	54	35	47	27	1	278
5.00 - 5.99	.	.	1	14	16	18	7	7	23	2	88
6.00 - 6.99	.	.	.	1	10	19	.	.	9	.	39
7.00 - 7.99	.	.	.	.	3	10	1	.	.	.	14
8.00 - 8.99	.	.	.	.	1	2	2	.	.	.	5
9.00 - GREATER	.	.	.	.	.	1	2	2	.	.	5
TOTAL	148	1132	3852	5046	4426	3298	1513	489	205	27	20136

STATION: 55 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	107	772	3278	1218	113	25	8	5	4	2	5532
1.00 - 1.99	30	682	1546	1273	347	73	22	20	6	5	4004
2.00 - 2.99	.	82	298	262	193	77	53	2	5	1	973
3.00 - 3.99	.	.	103	96	41	21	1	3	7	.	272
4.00 - 4.99	.	.	11	57	19	9	.	2	10	.	108
5.00 - 5.99	.	.	.	9	15	1	1	2	.	.	28
6.00 - 6.99	.	.	.	.	4	4	.	1	.	.	9
7.00 - 7.99	.	.	.	.	.	1	1	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	1	2	.	.	.	3
TOTAL	137	1536	5236	2915	732	212	88	35	32	8	10931

STATION: 55 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	331	1079	296	36							1742
1.00 - 1.99	226	1325	320	72	3						1946
2.00 - 2.99	.	160	446	26	6						638
3.00 - 3.99	.	2	139	80							221
4.00 - 4.99	.	.	10	39	5						54
5.00 - 5.99	.	.	.	14	10						24
6.00 - 6.99	.	.	.	1	3						4
7.00 - 7.99	.	.	.	.	.						0
8.00 - 8.99	.	.	.	.	.						0
9.00 - GREATER	.	.	.	.	.						0
TOTAL	557	2566	1211	268	27	0	0	0	0	0	4629

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.00 N, LONG: 75.25 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 55 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	862	5	22	1	.	.	.	.	.	.	890
1.00 - 1.99	1374	360	6	2	.	.	.	.	.	.	1742
2.00 - 2.99	.	91	17	.	.	.	.	.	.	.	108
3.00 - 3.99	.	.	2	1	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2236	456	47	5	0	0	0	0	0	0	2744

STATION: 55 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	585	1	.	.	.	.	.	.	.	.	586
1.00 - 1.99	370	34	.	.	.	.	.	.	.	.	404
2.00 - 2.99	.	12	3	.	.	.	.	.	.	.	15
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	955	47	3	0	0	0	0	0	0	0	1005

STATION: 55 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	189	76	.	.	.	.	.	.	.	.	265
1.00 - 1.99	120	666	2	.	.	.	.	.	.	.	788
2.00 - 2.99	.	498	167	.	.	.	.	.	.	.	665
3.00 - 3.99	.	1	252	.	.	.	.	.	.	.	253
4.00 - 4.99	.	.	44	2	.	.	.	.	.	.	46
5.00 - 5.99	.	.	1	2	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	309	1241	466	4	0	0	0	0	0	0	2020

STATION: 55 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2634	3116	5362	3674	1857	1061	367	120	31	6	18228
1.00 - 1.99	2313	6468	4679	4292	2743	1733	656	184	78	24	23170
2.00 - 2.99	.	1319	2970	875	904	695	429	109	42	2	7345
3.00 - 3.99	.	4	1235	599	198	192	149	50	17	.	2444
4.00 - 4.99	.	.	159	404	145	84	42	50	37	1	922
5.00 - 5.99	.	.	2	151	93	30	15	9	23	2	323
6.00 - 6.99	.	.	.	11	39	43	3	1	9	.	106
7.00 - 7.99	.	.	.	.	10	22	4	1	.	.	37
8.00 - 8.99	.	.	.	.	2	6	3	1	.	.	12
9.00 - GREATER	.	.	.	.	1	2	6	4	.	.	13
TOTAL	4947	10907	14407	10006	5992	3868	1672	529	237	35	52600

STATION: 55

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	100	144	145	205	375	428	533	707	464	295	171	151	3718
2.50 - 4.99	1053	949	1151	1392	1844	1957	2206	2371	2017	1587	1241	1112	18880
5.00 - 7.49	812	798	892	928	1040	1030	1091	918	905	962	923	819	11118
7.50 - 9.99	1188	1066	1115	1026	863	746	580	405	683	1009	1137	1160	10978
10.00 - 12.49	591	481	539	420	240	131	48	35	166	372	442	577	4042
12.50 - 14.99	519	430	420	277	95	23	5	11	62	205	311	452	2810
15.00 - 17.49	122	117	102	58	6	1	1	7	11	23	63	104	615
17.50 - 19.99	74	75	69	14	1	2	.	5	5	11	24	68	348
20.00 - GREATER	5	12	31	.	.	2	.	5	7	.	8	21	91
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.00 N, LONG: 75.25 W, DEPTH: 37 M

STATION: 55

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	915	851	823	584	558	419	263	431	563	811	774	894	7886
22.50 - 67.49 (45.0)	502	483	459	404	529	496	364	652	1142	1020	650	527	7228
67.50 - 112.49 (90.0)	254	264	318	238	341	385	257	399	518	474	372	227	4047
112.50 - 157.49 (135.0)	194	189	372	315	329	276	293	429	385	313	280	170	3545
157.50 - 202.49 (180.0)	398	411	580	730	915	648	563	673	463	403	559	359	6702
202.50 - 247.49 (225.0)	527	596	728	832	994	1380	1732	1128	633	523	507	773	10353
247.50 - 292.49 (270.0)	658	498	474	632	449	455	748	500	380	411	512	644	6361
292.50 - 337.49 (315.0)	1016	780	710	585	349	261	244	252	236	509	666	870	6478
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 55

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.74	1.46	1.35	1.52	1.36	1.27	0.67	1.36	1.05	1.80	1.41	1.62	1.38
1977	1.83	1.35	1.57	1.36	0.93	0.88	0.75	0.76	0.89	1.70	1.98	1.67	1.31
1978	1.84	2.07	1.74	1.56	1.30	0.87	0.79	0.81	1.64	1.51	1.77	1.44	1.44
1979	2.15	2.33	1.90	1.53	1.41	1.11	0.76	0.86	1.74	1.18	1.76	1.88	1.55
1980	2.52	2.09	2.67	1.75	1.13	1.10	0.88	1.18	1.20	1.56	2.16	2.52	1.73
1981	1.79	2.79	2.42	1.62	1.83	0.87	0.91	0.97	1.60	1.78	2.15	1.75	1.70
1982	1.64	1.80	1.32	1.44	1.05	1.16	0.75	0.71	1.24	1.94	1.74	1.55	1.36
1983	1.90	2.35	2.11	1.66	1.19	1.02	0.72	0.71	1.39	2.02	1.58	2.03	1.55
1984	2.14	1.70	2.02	1.45	1.25	0.92	0.95	0.69	1.53	1.54	2.02	1.35	1.46
1985	1.87	1.51	1.60	1.25	1.10	0.85	0.79	0.88	1.57	1.49	1.99	1.43	1.36
1986	1.76	1.61	1.92	1.74	1.55	1.07	0.66	1.23	1.32	1.59	1.62	2.03	1.51
1987	2.19	1.88	2.41	2.01	1.27	0.89	0.71	0.93	1.07	1.37	1.42	1.39	1.46
1988	1.63	1.55	1.49	1.56	1.31	1.04	0.95	0.98	1.11	1.36	1.47	1.40	1.32
1989	1.51	1.69	2.17	1.49	1.28	0.98	0.86	1.12	2.15	1.39	1.66	1.97	1.52
1990	1.25	1.68	1.56	1.55	1.34	1.14	1.02	1.06	1.36	1.56	1.37	1.82	1.39
1991	1.55	1.35	1.68	1.29	1.05	1.06	0.85	1.03	1.40	1.60	1.62	1.54	1.33
1992	1.71	1.57	1.49	1.34	1.40	0.82	0.72	0.78	1.23	1.30	1.38	2.02	1.31
1993	2.04	1.99	1.85	2.07	1.18	0.88	0.70	1.05	1.11	1.46	1.76	1.79	1.49
MEAN	1.84	1.82	1.85	1.57	1.27	1.00	0.80	0.95	1.37	1.56	1.71	1.73	

STATION: 55

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	5210 2	46 918	36 731	5411 7	35 916	3910 5	18 530	561111	2914 9	44 9 2	38 8 0	39 834	561111
1977	39 835	39 915	42 916	34 819	29 735	31 734	23 7 3	15 817	17 635	4610 5	4712 9	5311 4	5311 4
1978	601116	48 935	391010	6114 7	421018	24 818	17 6 2	14 6 1	441212	45 9 3	36 836	42 832	6114 7
1979	5310 18	6211 6	581113	421213	32 818	23 7 7	20 814	17 6 1	39 9 5	31 9 7	471014	5310 5	6211 6
1980	6310 0	601036	11717 5	571017	28 8 1	25 7 5	30 911	351814	31 9 9	5311 8	5919 8	11016 9	11717 5
1981	53 9 0	7912 5	7212 5	571218	52 9 1	22 6 2	32 713	27 814	361711	43 9 6	8413 4	4213 6	8413 4
1982	40 912	5510 6	32 8 0	37 9 4	28 8 0	631119	16 522	33 8 3	29 8 5	7314 8	4315 9	51 9 1	7314 8
1983	40 9 4	5910 9	711210	47 915	27 719	24 7 8	18 531	18 6 2	6011 5	4611 6	37 817	5710 4	711210
1984	7213 5	441013	45 832	511015	32 8 0	31 734	26 720	18 6 3	561114	4711 9	4810 4	33 732	7213 5
1985	54 935	41 815	47 9 0	38 912	35 8 2	21 523	18 615	21 7 3	1081513	4910 5	561010	47 9 0	1081513
1986	48 9 3	50 9 0	591117	4714 6	46 9 2	34 813	19 523	511118	2713 8	4310 3	47 9 1	7413 7	7413 7
1987	5710 2	5410 8	7513 5	5311 2	29 8 3	16 620	17 619	2415 7	29 9 9	42 9 4	41 9 1	43 834	7513 5
1988	4014 9	40 731	35 917	5610 4	35 8 1	30 8 4	29 819	23 718	25 717	42 9 2	471117	3717 8	5610 4
1989	40 9 8	6812 3	6413 4	34 8 3	41 915	18 619	27 718	291111	611911	28 913	43 918	7913 6	7913 6
1990	441016	461016	421117	36 918	42 917	29 8 2	241013	281612	2913 9	5410 1	43 9 1	43 916	5410 1
1991	42 913	31 8 4	39 919	30 8 8	29 7 4	23 7 2	14 519	8112 8	491811	4315 7	6012 5	39 9 1	8112 8
1992	481211	4611 5	35 912	40 9 5	28 9 6	15 535	14 523	20 619	40 8 3	4610 4	41 818	50 913	50 913
1993	6412 7	6110 1	681216	6512 4	1911 7	16 534	19 718	801413	981412	42 835	631312	47 9 0	981412
MAX	7213 5	7912 5	11717 5	6512 4	52 9 1	631119	32 713	8112 8	1081513	7314 8	8413 4	11016 9	

MAX Hmo(m): 11.7 MAX Tp(sec): 17. MAX Dp(deg): 50. DATE(gmt): 80030309

MAX WIND SPEED(m/sec): 40. MAX WIND DIRECTION(deg): 70. DATE(gmt): 85092706

MEAN Hmo(m): 1.5 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.25 N, LONG: 75.50 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 56

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	119	141	99	156	235	555	1169	784	277	247	136	239	4157
0.50 - 0.99	1108	1096	1169	1451	2189	2559	2684	2719	1786	1324	1293	1258	20636
1.00 - 1.49	1221	1084	1251	1423	1335	937	527	654	1125	1392	1224	1156	13329
1.50 - 1.99	817	765	858	662	421	185	71	197	597	675	777	762	6787
2.00 - 2.49	470	359	513	322	163	58	8	47	312	347	383	457	3439
2.50 - 2.99	311	212	240	144	83	19	3	27	106	220	223	264	1852
3.00 - 3.49	184	170	119	75	26	5	2	10	49	122	122	123	1007
3.50 - 3.99	137	113	75	39	10	2	.	10	34	76	60	84	640
4.00 - 4.49	51	64	47	23	2	.	.	9	13	42	53	47	351
4.50 - 4.99	21	35	26	12	.	.	.	3	7	9	18	25	156
5.00 - 5.49	16	16	29	9	.	.	.	.	7	3	15	15	110
5.50 - 5.99	4	12	19	4	.	.	.	3	2	3	4	7	58
6.00 - 6.49	5	3	8	.	.	.	.	.	.	3	5	14	38
6.50 - 6.99	.	2	3	.	.	.	.	1	.	1	3	5	15
7.00 - 7.49	.	.	2	.	.	.	.	.	3	.	3	1	9
7.50 - 7.99	.	.	1	.	.	.	.	.	.	.	1	2	4
8.00 - 8.49	.	.	1	.	.	.	.	.	2	.	.	2	5
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	2	2
9.50 - 9.99	.	.	2	.	.	.	.	.	.	.	.	1	3
10.00 - GREATER	.	.	1	.	.	.	.	.	.	.	.	.	1
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 56

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	78	117	89	110	145	344	716	471	131	104	76	176	2557
4.0 - 4.9	448	476	452	472	679	800	1036	579	327	345	400	606	6620
5.0 - 5.9	509	511	528	427	295	340	340	343	329	355	471	557	5005
6.0 - 6.9	519	430	454	351	297	444	281	506	471	434	408	482	5077
7.0 - 7.9	346	360	351	305	580	569	459	781	722	476	376	360	5685
8.0 - 8.9	303	271	260	237	673	608	717	777	559	557	398	234	5594
9.0 - 9.9	281	359	322	345	577	438	418	386	354	536	494	301	4811
10.0 - 10.9	387	369	398	407	351	272	260	165	322	522	439	300	4192
11.0 - 11.9	310	308	434	463	292	222	113	121	265	371	336	264	3499
12.0 - 12.9	333	196	351	421	233	159	66	94	189	277	190	263	2772
13.0 - 13.9	300	176	303	387	144	88	46	74	214	238	197	311	2478
14.0 - 14.9	240	128	227	188	100	24	12	62	151	126	185	231	1674
15.0 - 15.9	152	125	121	112	67	10	.	54	113	54	122	183	1113
16.0 - 16.9	100	97	79	63	21	2	.	20	73	32	78	102	667
17.0 - 17.9	76	54	19	22	9	.	.	11	36	27	65	56	375
18.0 - 18.9	35	46	21	4	1	.	.	9	24	4	33	23	200
19.0 - 19.9	21	24	25	4	.	.	.	2	12	4	35	9	136
20.0 - LONGER	26	25	30	2	.	.	.	9	28	2	17	6	145
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 56

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	364	382	317	145	165	128	75	82	110	238	282	327	2615
11.25 - 33.74 (22.5)	259	261	215	196	159	166	159	172	208	223	217	278	2513
33.75 - 56.24 (45.0)	302	347	269	162	202	220	169	284	395	297	255	272	3174
56.25 - 78.74 (67.5)	1038	951	1115	1428	1136	968	478	677	1104	1165	1048	1057	12165
78.75 - 101.24 (90.0)	756	491	815	739	883	544	427	892	1116	1188	980	677	9508
101.25 - 123.74 (112.5)	563	512	544	513	677	851	1257	1106	918	681	607	434	8663
123.75 - 146.24 (135.0)	156	134	243	235	368	326	260	357	142	120	182	111	2634
146.25 - 168.74 (157.5)	34	29	62	47	79	57	136	83	17	32	32	21	629
168.75 - 191.24 (180.0)	39	47	111	66	148	88	86	94	36	37	44	69	865
191.25 - 213.74 (202.5)	89	125	140	208	198	244	327	182	66	72	71	131	1853
213.75 - 236.24 (225.0)	77	151	129	124	149	308	463	254	78	62	68	194	2057
236.25 - 258.74 (247.5)	72	125	84	80	89	217	287	139	37	63	61	143	1397
258.75 - 281.24 (270.0)	97	67	40	71	59	78	178	73	22	36	54	111	886
281.25 - 303.74 (292.5)	116	67	57	49	32	38	70	26	6	31	66	98	656
303.75 - 326.24 (315.0)	262	146	166	100	50	34	54	18	22	81	152	242	1327
326.25 - 348.74 (337.5)	240	237	157	157	70	53	38	25	43	138	201	299	1658
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.25 N, LONG: 75.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 56 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	535	315			3						853
1.00 - 1.99	139	1897	62								2098
2.00 - 2.99		448	745								1193
3.00 - 3.99		1	418	5							424
4.00 - 4.99			72	47							119
5.00 - 5.99				18							18
6.00 - 6.99					2						2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	674	2661	1297	70	5	0	0	0	0	0	4707

STATION: 56 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	498	713	345	848	764	185	41	4			3398
1.00 - 1.99	72	1388	743	638	535	185	29				3590
2.00 - 2.99		114	616	149	85	72	30				1066
3.00 - 3.99			189	214	52	31	19	4	3		512
4.00 - 4.99			9	102	50	21	5	3			190
5.00 - 5.99				18	34	23	3				78
6.00 - 6.99				2	11	12	2	1			28
7.00 - 7.99						5	2	1			8
8.00 - 8.99					1		2				3
9.00 - GREATER							1	2			3
TOTAL	570	2215	1902	1971	1532	534	134	15	3	0	8876

STATION: 56 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	309	830	2740	3330	1976	1339	506	166	58	10	11264
1.00 - 1.99	36	719	1406	1723	1796	1614	728	220	71	15	8328
2.00 - 2.99		42	326	283	428	419	290	90	37	1	1916
3.00 - 3.99			60	97	94	91	83	52	33		510
4.00 - 4.99			4	31	43	24	14	25	23	3	167
5.00 - 5.99				10	11	23	2	1	18		65
6.00 - 6.99					6	15	2				23
7.00 - 7.99				1	1	1	2				5
8.00 - 8.99						2		1			3
9.00 - GREATER							3				3
TOTAL	345	1591	4536	5475	4355	3528	1630	555	240	29	22284

STATION: 56 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	178	689	2687	1002	138	16				3	4713
1.00 - 1.99	53	405	461	349	186	46	15	3	2	3	1523
2.00 - 2.99		67	183	79	38	25	1	1	1		395
3.00 - 3.99			60	33	8	3		1			105
4.00 - 4.99			5	20	2						27
5.00 - 5.99				3	4						7
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	231	1161	3396	1486	376	90	16	5	3	6	6770

STATION: 56 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	979										979
1.00 - 1.99	703	138	1								842
2.00 - 2.99		22	16								38
3.00 - 3.99				1							1
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1682	160	17	1	0	0	0	0	0	0	1860

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.25 N, LONG: 75.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 56 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1805	.	.	.	.	.	.	.	.	.	1805
1.00 - 1.99	1462	501	.	.	.	.	.	.	.	.	1963
2.00 - 2.99	.	82	1	.	.	.	.	.	.	.	83
3.00 - 3.99	.	3	.	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3267	586	1	0	0	0	0	0	0	0	3854

STATION: 56 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1209	.	.	.	.	.	.	.	.	.	1209
1.00 - 1.99	483	57	.	.	.	.	.	.	.	.	540
2.00 - 2.99	.	16	.	.	.	.	.	.	.	.	16
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1692	73	0	0	0	0	0	0	0	0	1765

STATION: 56 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	525	44	.	.	3	.	.	.	.	.	572
1.00 - 1.99	191	1041	.	.	.	.	.	.	.	.	1232
2.00 - 2.99	.	546	38	.	.	.	.	.	.	.	584
3.00 - 3.99	.	4	88	.	.	.	.	.	.	.	92
4.00 - 4.99	.	.	4	.	.	.	.	.	.	.	4
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	716	1635	130	0	3	0	0	0	0	0	2484

STATION: 56 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6038	2591	5772	5180	2884	1540	547	170	58	13	24793
1.00 - 1.99	3139	6146	2673	2710	2517	1845	772	223	73	18	20116
2.00 - 2.99	.	1337	1925	511	551	516	321	91	38	1	5291
3.00 - 3.99	.	8	815	350	154	125	102	57	36	.	1647
4.00 - 4.99	.	.	94	200	95	45	19	28	23	3	507
5.00 - 5.99	.	.	.	49	49	46	5	1	18	.	168
6.00 - 6.99	.	.	.	2	19	27	4	1	.	.	53
7.00 - 7.99	.	.	.	1	1	6	4	1	.	.	13
8.00 - 8.99	.	.	.	.	1	2	2	1	.	.	6
9.00 - GREATER	.	.	.	.	.	.	4	2	.	.	6
TOTAL	9177	10082	11279	9003	6271	4152	1780	575	246	35	52600

STATION: 56

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	85	119	125	192	358	425	517	720	458	279	172	139	3589
2.50 - 4.99	1092	1004	1202	1424	1944	2064	2371	2473	2080	1654	1292	1143	19743
5.00 - 7.49	838	841	915	976	1029	1016	1036	851	925	970	951	853	11201
7.50 - 9.99	1207	1047	1122	1003	832	689	503	365	641	1019	1114	1192	10734
10.00 - 12.49	558	471	529	408	222	100	33	27	132	324	408	555	3767
12.50 - 14.99	498	413	396	261	74	22	3	16	65	190	301	403	2642
15.00 - 17.49	118	88	89	46	4	2	1	3	8	17	58	106	540
17.50 - 19.99	62	78	58	10	1	1	.	5	4	10	18	56	303
20.00 - GREATER	6	11	28	.	.	1	.	4	7	1	6	17	81
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.25 N, LONG: 75.50 W, DEPTH: 27 M

STATION: 56

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	903	834	805	578	562	420	266	454	566	806	768	890	7852
22.50 - 67.49 (45.0)	511	476	452	389	517	470	362	644	1119	965	630	496	7031
67.50 - 112.49 (90.0)	248	267	326	265	342	387	256	416	525	470	373	227	4102
112.50 - 157.49 (135.0)	196	209	389	317	337	297	325	406	389	339	267	184	3655
157.50 - 202.49 (180.0)	405	419	600	744	932	649	561	673	452	398	556	358	6747
202.50 - 247.49 (225.0)	515	584	695	813	963	1347	1618	1089	622	518	531	767	10062
247.50 - 292.49 (270.0)	669	497	463	625	448	461	790	525	391	443	530	678	6520
292.50 - 337.49 (315.0)	1017	786	734	589	363	289	286	257	256	525	665	864	6631
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 56

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.47	1.22	1.17	1.35	1.06	1.00	0.53	1.12	0.92	1.58	1.22	1.39	1.17
1977	1.58	1.14	1.31	1.10	0.80	0.71	0.66	0.59	0.79	1.53	1.72	1.41	1.11
1978	1.55	1.83	1.56	1.40	0.98	0.68	0.63	0.62	1.43	1.33	1.57	1.24	1.23
1979	1.76	2.01	1.60	1.30	1.08	0.92	0.59	0.69	1.46	1.02	1.41	1.62	1.28
1980	2.13	1.82	2.20	1.34	0.95	0.90	0.67	0.93	1.04	1.38	1.89	2.22	1.46
1981	1.56	2.29	2.08	1.27	1.53	0.72	0.77	0.84	1.39	1.57	1.88	1.43	1.44
1982	1.42	1.50	1.15	1.19	0.87	0.88	0.61	0.57	1.05	1.67	1.45	1.30	1.14
1983	1.68	2.12	1.78	1.35	0.91	0.83	0.62	0.61	1.21	1.80	1.33	1.75	1.33
1984	1.86	1.41	1.73	1.18	0.95	0.77	0.72	0.60	1.35	1.32	1.74	1.19	1.23
1985	1.66	1.30	1.41	1.06	0.90	0.70	0.65	0.75	1.33	1.29	1.74	1.28	1.17
1986	1.56	1.40	1.51	1.48	1.28	0.87	0.52	1.00	1.15	1.38	1.37	1.74	1.27
1987	1.97	1.66	1.98	1.74	1.08	0.72	0.57	0.80	0.89	1.20	1.21	1.15	1.24
1988	1.47	1.30	1.15	1.35	1.06	0.89	0.72	0.74	0.96	1.22	1.15	1.24	1.10
1989	1.29	1.47	1.87	1.17	0.98	0.78	0.67	0.96	1.83	1.17	1.35	1.75	1.27
1990	0.97	1.28	1.26	1.25	1.07	0.90	0.84	0.87	1.23	1.32	1.18	1.56	1.14
1991	1.35	1.16	1.31	1.10	0.85	0.89	0.63	0.83	1.18	1.39	1.34	1.32	1.11
1992	1.46	1.36	1.29	1.08	1.19	0.64	0.58	0.58	1.06	1.11	1.08	1.72	1.10
1993	1.67	1.73	1.55	1.64	0.98	0.71	0.55	0.85	0.92	1.25	1.51	1.56	1.24
MEAN	1.58	1.55	1.55	1.30	1.03	0.81	0.64	0.77	1.18	1.36	1.45	1.49	

STATION: 56

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	47 9 1	35 8 1	33 731	4810 4	29 732	3810 5	17 531	44 9 7	2614 9	40 8 1	34 8 1	33 733	4810 4
1977	37 8 0	30 8 3	35 730	2216 9	27 735	25 633	21 7 3	13 523	16 6 1	4310 5	4312 9	4811 5	4811 5
1978	43 911	43 9 1	371010	5814 7	32 814	19 6 1	16 6 2	16 5 1	351211	41 9 5	34 8 0	35 731	5814 7
1979	45 914	5911 4	511014	38 913	25 7 3	22 6 2	14 713	17 6 1	39 912	28 8 7	40 835	49 936	5911 4
1980	53 9 0	52 935	10417 4	30 815	24 7 1	22 7 5	25 810	27 9 4	29 8 7	4612 9	5119 8	9616 9	10417 4
1981	44 9 3	6511 5	6213 6	28 7 2	43 8 1	21 6 3	32 716	27 713	291810	3710 5	7714 5	3512 5	7714 5
1982	35 813	5110 6	30 736	35 8 3	25 736	26 618	13 522	30 7 3	27 8 5	6713 7	3815 9	46 9 2	6713 7
1983	3811 4	5310 9	6111 9	38 814	22 7 1	22 7 3	16 531	17 6 3	5511 6	4212 6	33 732	5410 4	6111 9
1984	6313 5	391012	39 911	33 8 7	30 8 2	27 735	15 521	15 6 4	471113	4114 8	4310 5	28 733	6313 5
1985	46 935	40 814	40 8 0	34 811	32 8 3	18 523	18 714	19 7 4	821310	4410 5	521010	43 9 1	821310
1986	43 9 4	46 9 2	42 8 0	4014 6	39 8 2	24 711	16 523	491014	2513 8	4010 6	41 9 3	6513 7	6513 7
1987	5510 2	5110 7	6612 5	4411 3	27 7 5	13 7 9	12 421	2015 7	26 8 8	36 8 4	40 835	34 734	6612 5
1988	4016 9	3311 9	30 7 1	5411 5	31 8 2	29 8 4	14 420	16 6 3	201510	38 8 1	23 630	3517 7	5411 5
1989	36 8 7	6612 2	5613 4	31 8 4	23 7 1	15 6 4	16 812	261110	541910	25 8 4	32 8 1	6513 6	6612 2
1990	23 632	31 8 2	35 8 3	29 7 1	30 9 4	27 7 2	18 912	201611	2714 9	49 9 1	37 8 0	36 8 3	49 9 1
1991	40 912	28 8 4	30 735	27 8 3	26 7 5	23 7 2	11 423	6912 7	411810	3715 7	5712 5	36 8 0	6912 7
1992	401110	4211 5	31 811	35 8 4	28 8 7	15 536	13 524	13 421	38 8 3	40 9 4	31 813	45 912	45 912
1993	5610 3	5010 3	501013	5412 5	1613 9	16 534	11 424	5710 9	8112 6	41 8 0	531311	40 836	8112 6
MAX	6313 5	6612 2	10417 4	5814 7	43 8 1	3810 5	32 716	6912 7	821310	6713 7	7714 5	9616 9	

MAX Hmo(m): 10.4 MAX Tp(sec): 17. MAX Dp(deg): 40. DATE(gmt): 80030309

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 50. DATE(gmt): 85092706

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.50 N, LONG: 75.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 57

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	201	204	165	223	370	791	1490	1070	416	314	195	298	5737
0.50 - 0.99	1323	1275	1334	1607	2318	2544	2495	2657	1954	1648	1556	1456	22167
1.00 - 1.49	1259	1175	1349	1432	1215	783	432	491	987	1277	1203	1257	12860
1.50 - 1.99	793	661	807	577	357	152	40	155	555	609	689	720	6115
2.00 - 2.49	420	329	405	292	137	33	4	46	234	270	353	405	2928
2.50 - 2.99	226	198	181	94	54	13	1	14	86	189	150	140	1346
3.00 - 3.49	119	112	90	47	13	3	2	14	34	89	71	77	671
3.50 - 3.99	86	64	43	22	.	1	.	11	24	50	55	51	407
4.00 - 4.49	24	24	27	13	.	.	.	2	14	10	19	15	148
4.50 - 4.99	8	17	32	8	.	.	.	2	6	2	17	12	104
5.00 - 5.49	5	9	19	3	.	.	.	1	4	3	3	14	61
5.50 - 5.99	.	4	5	2	.	.	.	1	2	2	5	9	30
6.00 - 6.49	.	.	2	.	.	.	.	.	1	1	4	3	11
6.50 - 6.99	.	.	1	.	.	.	.	.	2	.	.	2	5
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	2	3
7.50 - 7.99	.	.	2	.	.	.	.	.	.	.	.	1	3
8.00 - 8.49	.	.	1	.	.	.	.	.	.	.	.	1	2
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	1	2
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 57

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	122	144	128	128	215	437	910	584	186	136	121	231	3342
4.0 - 4.9	632	641	596	566	727	799	979	593	398	469	583	844	7827
5.0 - 5.9	586	565	562	382	295	303	263	326	354	383	460	611	5090
6.0 - 6.9	298	354	335	272	230	306	198	367	377	344	302	293	3676
7.0 - 7.9	181	176	185	173	377	426	378	698	564	338	241	161	3898
8.0 - 8.9	204	160	189	204	590	554	690	771	563	461	283	141	4810
9.0 - 9.9	255	336	338	326	599	529	472	426	351	529	466	265	4892
10.0 - 10.9	409	355	399	432	374	305	297	197	346	543	444	324	4425
11.0 - 11.9	354	368	477	504	317	246	145	144	297	424	381	283	3940
12.0 - 12.9	359	222	363	505	379	283	66	98	181	302	223	285	3266
13.0 - 13.9	334	210	338	413	154	92	51	81	239	257	216	332	2717
14.0 - 14.9	268	155	235	214	106	26	15	65	154	138	217	277	1870
15.0 - 15.9	174	133	136	101	65	10	.	58	126	66	129	204	1202
16.0 - 16.9	107	106	84	66	25	3	.	21	73	36	95	109	725
17.0 - 17.9	85	47	18	24	11	1	.	14	41	27	68	62	398
18.0 - 18.9	46	45	23	4	.	.	.	9	23	5	37	23	215
19.0 - 19.9	25	31	27	2	.	.	.	3	18	4	35	11	156
20.0 - LONGER	25	24	31	4	.	.	.	9	29	2	19	8	151
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 57

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	293	332	243	165	233	202	69	74	105	195	263	270	2444
11.25 - 33.74 (22.5)	191	178	162	147	140	127	125	123	166	190	166	201	1916
33.75 - 56.24 (45.0)	211	253	201	148	165	185	149	275	327	253	193	206	2566
56.25 - 78.74 (67.5)	1006	982	1017	1311	1089	944	434	668	994	1055	1018	1016	11534
78.75 - 101.24 (90.0)	928	585	941	826	803	506	422	861	1117	1281	1024	798	10092
101.25 - 123.74 (112.5)	656	571	642	604	759	871	1231	1153	1023	764	704	525	9503
123.75 - 146.24 (135.0)	177	187	286	257	371	382	410	411	213	151	200	127	3172
146.25 - 168.74 (157.5)	35	28	79	57	68	37	87	58	21	40	46	23	579
168.75 - 191.24 (180.0)	58	71	127	89	175	88	90	108	51	44	64	85	1050
191.25 - 213.74 (202.5)	89	132	150	212	206	248	336	177	71	79	83	146	1929
213.75 - 236.24 (225.0)	85	155	144	119	149	297	458	260	78	78	76	203	2102
236.25 - 258.74 (247.5)	77	126	76	72	80	209	278	131	46	53	58	150	1356
258.75 - 281.24 (270.0)	107	71	41	68	64	92	176	80	20	43	63	113	938
281.25 - 303.74 (292.5)	151	71	76	46	44	37	94	31	12	44	90	126	822
303.75 - 326.24 (315.0)	209	128	143	94	56	43	65	23	27	70	120	239	1217
326.25 - 348.74 (337.5)	191	202	136	105	62	52	40	31	49	124	152	236	1380
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.50 N, LONG: 75.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 57 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	748	72	.	.	131	.	.	.	.	.	951
1.00 - 1.99	233	1774	2	.	121	.	.	.	.	.	2130
2.00 - 2.99	.	766	110	.	13	.	.	.	.	.	889
3.00 - 3.99	.	2	85	6	.	.	.	.	.	.	93
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	981	2614	197	7	265	0	0	0	0	0	4064

STATION: 57 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	684	617	279	280	114	26	.	.	.	.	2000
1.00 - 1.99	68	1197	414	277	158	59	1	.	.	.	2174
2.00 - 2.99	.	166	475	116	57	30	6	.	.	.	850
3.00 - 3.99	.	.	87	169	54	14	4	.	.	.	328
4.00 - 4.99	.	.	2	38	36	33	2	.	.	.	111
5.00 - 5.99	.	.	.	2	19	13	2	.	.	.	36
6.00 - 6.99	.	.	.	.	.	4	1	.	.	.	5
7.00 - 7.99	.	.	.	.	.	.	1	1	.	.	2
8.00 - 8.99	.	.	.	.	.	.	1	1	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	752	1980	1257	882	438	179	18	2	0	0	5508

STATION: 57 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	372	884	2522	4113	3238	1801	630	184	63	11	13818
1.00 - 1.99	36	626	1000	1658	2048	1855	795	235	73	12	8338
2.00 - 2.99	.	45	270	266	390	412	298	81	32	1	1795
3.00 - 3.99	.	.	39	98	114	97	87	59	37	.	531
4.00 - 4.99	.	.	.	18	19	26	10	17	24	3	117
5.00 - 5.99	.	.	.	3	10	26	3	1	11	.	54
6.00 - 6.99	.	.	.	.	.	6	4	.	.	.	10
7.00 - 7.99	.	.	.	.	.	1	2	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	2	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	408	1555	3831	6156	5819	4224	1831	577	240	27	24668

STATION: 57 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	299	517	2877	1727	288	43	16	12	11	4	5794
1.00 - 1.99	48	426	318	417	309	95	46	18	5	3	1685
2.00 - 2.99	.	57	166	74	51	39	16	2	5	1	411
3.00 - 3.99	.	.	49	40	10	2	.	2	8	.	111
4.00 - 4.99	.	.	.	14	3	3	.	.	3	.	23
5.00 - 5.99	.	.	.	.	1	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	1	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	347	1000	3410	2272	662	184	78	34	32	8	8027

STATION: 57 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1217	1	.	.	.	.	.	.	.	.	1218
1.00 - 1.99	764	174	1	.	.	.	.	.	.	.	939
2.00 - 2.99	.	23	7	.	.	.	.	.	.	.	30
3.00 - 3.99	.	.	3	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1981	198	11	0	0	0	0	0	0	0	2190

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.50 N, LONG: 75.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 57 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1964	.	.	.	.	.	.	.	.	.	1964
1.00 - 1.99	1404	460	.	.	.	.	.	.	.	.	1864
2.00 - 2.99	.	54	.	.	.	.	.	.	.	.	54
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3368	515	0	0	0	0	0	0	0	0	3883

STATION: 57 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1349	.	.	.	.	.	.	.	.	.	1349
1.00 - 1.99	479	49	.	.	.	.	.	.	.	.	528
2.00 - 2.99	.	13	.	.	.	.	.	.	.	.	13
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1828	63	0	0	0	0	0	0	0	0	1891

STATION: 57 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	792	1	.	.	17	.	.	.	.	.	810
1.00 - 1.99	712	600	.	.	5	.	.	.	.	.	1317
2.00 - 2.99	.	232	.	.	.	.	.	.	.	.	232
3.00 - 3.99	.	8	2	.	.	.	.	.	.	.	10
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1504	841	2	0	22	0	0	0	0	0	2369

STATION: 57 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	7425	2092	5678	6120	3788	1870	646	196	74	15	27904
1.00 - 1.99	3744	5306	1735	2352	2641	2009	842	253	78	15	18975
2.00 - 2.99	.	1356	1028	456	511	481	320	83	37	2	4274
3.00 - 3.99	.	12	265	313	178	113	91	61	45	.	1078
4.00 - 4.99	.	.	2	71	58	62	12	17	27	3	252
5.00 - 5.99	.	.	.	5	30	39	5	1	11	.	91
6.00 - 6.99	.	.	.	.	.	11	5	.	.	.	16
7.00 - 7.99	.	.	.	.	.	2	3	1	.	.	6
8.00 - 8.99	.	.	.	.	.	.	3	1	.	.	4
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11169	8766	8708	9317	7206	4587	1927	613	272	35	52600

STATION: 57

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	79	119	125	193	372	430	529	774	487	290	174	138	3710
2.50 - 4.99	1136	1049	1254	1455	2005	2154	2463	2528	2130	1746	1360	1167	20447
5.00 - 7.49	851	870	923	1012	1005	987	1014	798	903	955	925	892	11135
7.50 - 9.99	1212	1017	1101	972	819	646	433	314	601	970	1110	1218	10413
10.00 - 12.49	545	477	533	403	193	84	22	25	124	313	393	519	3631
12.50 - 14.99	465	371	370	230	66	15	2	13	55	168	291	363	2409
15.00 - 17.49	116	87	82	45	4	3	1	6	10	11	48	96	509
17.50 - 19.99	51	71	50	10	.	1	.	2	3	9	18	54	269
20.00 - GREATER	9	11	26	.	.	.	.	4	7	2	1	17	77
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.50 N, LONG: 75.75 W, DEPTH: 18 M

STATION: 57

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION	WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	864	819	783	560	568	427	289	469	568	769	760	867	7743
22.50 - 67.49	(45.0)	508	477	463	377	494	464	381	640	1112	912	605	478	6911
67.50 - 112.49	(90.0)	253	273	321	279	339	361	265	428	529	484	383	228	4143
112.50 - 157.49	(135.0)	194	222	400	339	364	333	323	401	363	358	260	197	3754
157.50 - 202.49	(180.0)	408	427	629	735	939	651	578	673	468	397	544	359	6808
202.50 - 247.49	(225.0)	509	572	664	785	928	1288	1505	1026	605	514	555	765	9716
247.50 - 292.49	(270.0)	694	486	458	615	442	471	805	550	394	451	550	685	6601
292.50 - 337.49	(315.0)	1034	796	746	630	390	325	318	277	281	579	663	885	6924
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 57

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.13	1.09	1.24	1.00	0.92	0.48	1.03	0.86	1.42	1.06	1.20	1.06
1977	1.32	1.00	1.20	1.03	0.73	0.64	0.61	0.56	0.74	1.39	1.59	1.29	1.01
1978	1.40	1.59	1.44	1.29	0.92	0.64	0.57	0.57	1.28	1.19	1.42	1.08	1.11
1979	1.59	1.78	1.48	1.21	1.01	0.83	0.54	0.62	1.36	0.91	1.23	1.41	1.16
1980	1.86	1.53	1.96	1.23	0.89	0.82	0.61	0.84	0.96	1.25	1.68	1.95	1.30
1981	1.29	2.01	1.84	1.16	1.37	0.65	0.72	0.77	1.29	1.37	1.60	1.21	1.27
1982	1.29	1.34	1.02	1.06	0.78	0.80	0.56	0.49	0.93	1.48	1.29	1.15	1.01
1983	1.50	1.89	1.58	1.22	0.86	0.75	0.56	0.55	1.09	1.64	1.21	1.56	1.20
1984	1.65	1.26	1.56	1.10	0.88	0.69	0.66	0.54	1.24	1.20	1.47	1.09	1.11
1985	1.39	1.17	1.26	0.97	0.82	0.64	0.60	0.66	1.18	1.16	1.64	1.12	1.05
1986	1.39	1.27	1.35	1.29	1.16	0.80	0.47	0.91	1.05	1.22	1.22	1.53	1.14
1987	1.79	1.41	1.75	1.59	0.98	0.66	0.53	0.72	0.79	1.04	1.07	0.99	1.11
1988	1.33	1.15	1.02	1.31	1.09	0.96	0.68	0.67	0.89	1.10	1.06	1.09	1.03
1989	1.12	1.31	1.68	1.06	0.89	0.73	0.63	0.91	1.74	1.07	1.23	1.51	1.15
1990	0.89	1.13	1.15	1.15	0.98	0.83	0.79	0.81	1.14	1.19	1.03	1.42	1.04
1991	1.22	1.02	1.16	1.02	0.78	0.81	0.59	0.75	1.07	1.25	1.18	1.16	1.00
1992	1.31	1.19	1.17	0.94	1.06	0.58	0.53	0.52	0.95	0.98	0.95	1.49	0.97
1993	1.46	1.48	1.39	1.46	0.90	0.63	0.50	0.76	0.83	1.11	1.34	1.33	1.10
MEAN	1.39	1.37	1.39	1.19	0.95	0.74	0.59	0.70	1.08	1.22	1.29	1.31	

STATION: 57

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	41 9 3	25 635	25 631	4110 5	26 813	3510 5	12 432	3915 9	2414 9	35 9 3	28 735	24 632	4110 5
1977	31 814	23 635	32 815	2015 9	25 736	19 534	19 7 3	13 523	15 5 0	3810 5	3912 9	3913 6	3913 6
1978	39 911	3820 8	351011	5614 8	30 813	18 6 1	14 6 3	16 5 1	301212	36 9 5	26 7 0	27 712	5614 8
1979	40 914	5211 4	461014	35 913	23 7 3	18 7 6	13 713	15 5 1	37 912	25 8 7	30 736	3810 6	5211 4
1980	4114 7	4418 8	8717 5	28 815	22 7 4	19 6 5	22 810	25 7 4	27 8 7	411210	4719 8	8615 9	8717 5
1981	33 735	5515 8	5420 8	27 7 7	3210 5	19 6 4	33 812	23 612	281711	30 9 5	6413 5	2713 7	6413 5
1982	32 813	4611 7	24 7 8	28 9 5	21 6 0	28 715	12 423	25 6 2	24 8 5	6013 7	3415 9	41 9 3	6013 7
1983	36 9 5	4610 9	531210	34 813	20 6 1	20 7 3	14 5 3	16 6 3	5111 7	3811 7	2815 9	4710 4	531210
1984	5313 5	36 912	35 912	31 8 7	24 636	22 635	14 521	15 5 2	411013	3713 9	36 9 4	24 711	5313 5
1985	39 834	37 814	33 910	30 812	24 6 1	16 523	18 614	19 6 4	711412	3710 8	461012	32 736	711412
1986	36 8 4	36 736	35 8 4	3314 7	3316 8	21 7 5	14 523	43 913	2313 8	3611 7	31 8 6	5614 9	5614 9
1987	4418 8	4610 8	5613 5	3610 4	24 6 3	12 422	12 421	1815 8	23 8 8	30 8 4	31 736	25 634	5613 5
1988	4417 9	26 6 0	23 6 1	4812 5	30 8 1	28 8 5	13 421	15 6 3	191510	27 635	23 716	3317 8	4812 5
1989	31 8 6	5813 3	4813 5	24 6 2	20 913	15 6 4	17 615	261110	541910	22 7 3	25 635	5313 7	5813 3
1990	17 522	26 7 4	31 810	24 6 1	28 9 4	23 6 2	1711 9	211612	2414 9	39 8 1	31 813	26 6 0	39 8 1
1991	36 913	24 8 5	24 635	24 7 3	23 7 6	22 7 3	11 423	5511 7	411811	3315 7	5011 5	26 635	5511 7
1992	3814 9	3710 4	27 811	28 8 5	27 9 7	15 536	12 423	12 422	34 9 5	31 7 3	28 814	40 912	40 912
1993	4510 4	3810 5	43 914	4411 4	14 8 9	14 535	11 421	47 9 9	6613 9	3510 8	451312	3110 6	6613 9
MAX	5313 5	5813 3	8717 5	5614 8	3316 8	3510 5	33 812	5511 7	711412	6013 7	6413 5	8615 9	

MAX Hmo(m): 8.7 MAX Tp(sec): 17. MAX Dp(deg): 47. DATE(gmt): 80030309

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 40. DATE(gmt): 85092706

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.75 N, LONG: 75.75 W, DEPTH: 11 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 58

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	149	170	101	144	226	538	1253	828	277	241	144	232	4303
0.50 - 0.99	1094	1089	1147	1281	1898	2417	2636	2653	1793	1361	1297	1319	19985
1.00 - 1.49	1377	1247	1299	1395	1398	942	485	667	1116	1460	1330	1272	13988
1.50 - 1.99	829	771	935	788	528	194	81	187	541	723	781	840	7198
2.00 - 2.49	539	337	483	400	285	141	6	55	340	324	388	423	3721
2.50 - 2.99	209	239	255	193	109	77	.	22	132	184	177	197	1794
3.00 - 3.49	135	112	106	72	15	11	3	25	49	94	76	72	770
3.50 - 3.99	55	44	47	27	4	.	.	12	20	41	53	41	344
4.00 - 4.49	47	29	45	10	1	.	.	10	11	17	31	26	227
4.50 - 4.99	24	22	16	5	.	.	.	3	7	9	20	9	115
5.00 - 5.49	4	3	12	1	.	.	.	1	6	5	10	10	52
5.50 - 5.99	2	2	6	2	.	.	.	.	11	3	7	7	40
6.00 - 6.49	.	3	5	2	.	.	.	1	8	2	2	9	32
6.50 - 6.99	.	4	7	.	.	.	.	.	9	.	4	7	31
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 58

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	71	86	57	59	90	211	567	346	93	64	89	146	1879
4.0 - 4.9	483	488	403	397	532	727	901	540	325	426	466	716	6404
5.0 - 5.9	505	554	561	393	393	241	223	253	244	321	472	557	4717
6.0 - 6.9	180	200	176	161	108	211	195	312	240	188	160	164	2295
7.0 - 7.9	106	134	146	124	341	392	338	654	592	261	182	97	3367
8.0 - 8.9	202	167	219	250	645	627	891	962	630	510	288	161	5552
9.0 - 9.9	333	398	389	385	720	658	651	595	481	639	560	344	6153
10.0 - 10.9	530	475	516	518	389	407	370	247	434	638	533	435	5492
11.0 - 11.9	428	417	576	598	371	291	180	170	334	488	432	354	4639
12.0 - 12.9	425	310	439	574	513	406	75	115	200	344	274	347	4022
13.0 - 13.9	375	256	381	436	160	102	55	84	240	280	217	386	2972
14.0 - 14.9	315	180	274	213	107	29	14	70	176	145	240	299	2062
15.0 - 15.9	188	139	144	106	59	13	4	57	140	74	141	215	1280
16.0 - 16.9	124	118	85	70	26	3	.	21	71	45	102	140	805
17.0 - 17.9	96	46	22	20	7	2	.	14	47	32	78	58	422
18.0 - 18.9	49	44	19	7	3	.	.	11	24	5	36	22	220
19.0 - 19.9	24	30	25	4	.	.	.	3	17	2	33	12	150
20.0 - LONGER	30	30	32	5	.	.	.	10	32	2	17	11	169
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 58

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	176	186	164	78	109	100	49	67	60	116	189	188	1482
11.25 - 33.74 (22.5)	75	104	69	57	95	96	90	69	93	109	91	83	1031
33.75 - 56.24 (45.0)	86	110	72	73	96	90	69	122	165	121	93	90	1187
56.25 - 78.74 (67.5)	444	511	388	332	432	515	205	393	512	419	320	379	4850
78.75 - 101.24 (90.0)	1937	1523	2001	2090	1712	1140	800	1329	1927	2231	2040	1881	20611
101.25 - 123.74 (112.5)	814	701	809	760	889	1141	1681	1502	1150	867	778	629	11721
123.75 - 146.24 (135.0)	125	117	199	168	322	229	278	288	116	123	146	90	2201
146.25 - 168.74 (157.5)	45	30	69	67	110	32	54	51	24	28	51	30	591
168.75 - 191.24 (180.0)	82	103	158	125	210	193	100	98	53	48	107	100	1377
191.25 - 213.74 (202.5)	80	86	110	184	161	223	322	164	57	73	70	135	1665
213.75 - 236.24 (225.0)	46	121	100	76	107	231	382	186	57	61	61	174	1602
236.25 - 258.74 (247.5)	68	79	45	44	54	131	166	95	23	38	34	105	882
258.75 - 281.24 (270.0)	63	43	19	48	42	93	110	48	10	23	50	92	641
281.25 - 303.74 (292.5)	99	57	58	45	30	40	71	16	13	33	71	91	624
303.75 - 326.24 (315.0)	175	104	104	90	43	26	55	14	19	63	97	195	985
326.25 - 348.74 (337.5)	149	197	99	83	52	40	32	22	41	111	122	202	1150
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.75 N, LONG: 75.75 W, DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 58 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	575										575
1.00 - 1.99	509	1197	2		9						1717
2.00 - 2.99	.	220	2		76						298
3.00 - 3.99	.	.	9		8						17
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1084	1417	13	0	93	0	0	0	0	0	2607

STATION: 58 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	443	236	66	3							748
1.00 - 1.99	67	918	197	9	11	.	.	.	.	.	1202
2.00 - 2.99	.	87	276	150	69	.	.	.	.	.	582
3.00 - 3.99	.	.	15	51	27	2	.	.	.	.	95
4.00 - 4.99	.	.	.	4	8	8	.	.	.	.	20
5.00 - 5.99	.	.	.	.	1	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	1	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	510	1241	554	217	116	10	1	0	0	0	2649

STATION: 58 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	253	617	3454	5167	3171	1681	562	172	75	11	15163
1.00 - 1.99	35	523	1718	3237	3095	2092	831	234	72	16	11853
2.00 - 2.99	.	32	343	797	927	836	457	128	43	2	3565
3.00 - 3.99	.	.	18	200	261	174	142	48	16	.	859
4.00 - 4.99	.	.	.	13	77	101	46	41	30	.	308
5.00 - 5.99	.	.	.	.	11	38	4	10	24	2	89
6.00 - 6.99	.	.	.	.	.	23	17	2	17	.	59
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	288	1172	5533	9414	7542	4945	2059	635	277	31	31896

STATION: 58 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	206	480	2165	1254	167	11		.	.	4	4283
1.00 - 1.99	37	463	431	525	309	28	11	.	.	4	1808
2.00 - 2.99	.	45	197	167	125	23	12	1	4	.	574
3.00 - 3.99	.	.	21	66	29	9	1	4	3	.	133
4.00 - 4.99	.	.	.	2	6	3	1	2	.	.	14
5.00 - 5.99	.	.	.	.	.	2	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	3	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	243	988	2814	2014	636	79	25	7	7	4	6817

STATION: 58 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	700	2	.	.		.	.	.	.	.	702
1.00 - 1.99	522	1007	.	.	51	.	.	.	.	.	1580
2.00 - 2.99	.	78	3	.	100	.	.	.	.	.	181
3.00 - 3.99	.	.	.	.	1	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1222	1087	3	0	152	0	0	0	0	0	2464

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.75 N, LONG: 75.75 W DEPTH: 11 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 58 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1426										1426
1.00 - 1.99	1184	326			2						1512
2.00 - 2.99	.	37			20						57
3.00 - 3.99	.	.			5						5
4.00 - 4.99	.	.			.						0
5.00 - 5.99	.	.			.						0
6.00 - 6.99	.	.			.						0
7.00 - 7.99	.	.			.						0
8.00 - 8.99	.	.			.						0
9.00 - GREATER	.	.			.						0
TOTAL	2610	363	0	0	27	0	0	0	0	0	3000

STATION: 58 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	853										853
1.00 - 1.99	337	29			3						369
2.00 - 2.99	.	7			69						76
3.00 - 3.99	.	.			2						2
4.00 - 4.99	.	.			.						0
5.00 - 5.99	.	.			.						0
6.00 - 6.99	.	.			.						0
7.00 - 7.99	.	.			.						0
8.00 - 8.99	.	.			.						0
9.00 - GREATER	.	.			.						0
TOTAL	1190	36	0	0	74	0	0	0	0	0	1300

STATION: 58 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	538										538
1.00 - 1.99	598	546			1						1145
2.00 - 2.99	.	161	1		20						182
3.00 - 3.99	.	1	1		.						2
4.00 - 4.99	.	.			.						0
5.00 - 5.99	.	.			.						0
6.00 - 6.99	.	.			.						0
7.00 - 7.99	.	.			.						0
8.00 - 8.99	.	.			.						0
9.00 - GREATER	.	.			.						0
TOTAL	1136	708	2	0	21	0	0	0	0	0	1867

STATION: 58 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4994	1335	5685	6424	3338	1692	562	172	75	11	24288
1.00 - 1.99	3289	5009	2348	3771	3481	2120	842	234	72	20	21186
2.00 - 2.99	.	667	822	1114	1406	859	469	129	47	2	5515
3.00 - 3.99	.	1	64	317	333	185	143	52	19	.	1114
4.00 - 4.99	.	.	.	19	91	112	47	43	30	.	342
5.00 - 5.99	.	.	.	.	12	40	4	10	24	2	92
6.00 - 6.99	.	.	.	.	.	26	18	2	17	.	63
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8283	7012	8919	11645	8661	5034	2085	642	284	35	52600

STATION: 58

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	89	127	134	214	393	473	562	811	530	317	179	149	3978
2.50 - 4.99	1124	1062	1260	1449	1995	2149	2493	2527	2115	1737	1348	1162	20421
5.00 - 7.49	870	851	929	1024	1000	980	976	777	889	965	933	903	11097
7.50 - 9.99	1191	1018	1075	947	812	623	413	303	587	931	1092	1216	10208
10.00 - 12.49	542	472	541	394	199	76	17	25	125	333	404	499	3627
12.50 - 14.99	457	363	362	234	61	17	.	8	54	157	290	361	2364
15.00 - 17.49	119	92	88	48	3	2	3	8	6	11	49	93	522
17.50 - 19.99	63	75	46	9	1	.	.	2	8	11	23	63	301
20.00 - GREATER	9	12	29	1	.	.	.	3	6	2	2	18	82
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 36.75 N, LONG: 75.75 W, DEPTH: 11 M

STATION: 58

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	828	793	789	574	580	436	322	501	579	738	761	859	7760
22.50 - 67.49 (45.0)	503	480	459	365	496	464	373	620	1091	895	582	455	6783
67.50 - 112.49 (90.0)	254	278	310	284	335	346	287	443	540	468	377	223	4145
112.50 - 157.49 (135.0)	192	216	392	363	384	346	316	388	346	347	259	202	3751
157.50 - 202.49 (180.0)	416	434	641	717	911	662	581	647	471	421	544	370	6815
202.50 - 247.49 (225.0)	509	561	658	765	922	1222	1440	1021	604	531	565	770	9568
247.50 - 292.49 (270.0)	681	468	460	610	430	489	781	550	395	457	550	680	6551
292.50 - 337.49 (315.0)	1081	842	755	642	406	355	364	294	294	607	682	905	7227
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 58

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.35	1.19	1.20	1.32	1.10	1.00	0.51	1.18	0.97	1.52	1.08	1.24	1.14
1977	1.35	1.03	1.30	1.14	0.77	0.70	0.62	0.58	0.80	1.42	1.76	1.41	1.07
1978	1.57	1.62	1.49	1.32	1.06	0.71	0.61	0.65	1.38	1.28	1.51	1.11	1.19
1979	1.76	1.87	1.66	1.35	1.13	0.88	0.61	0.69	1.51	0.94	1.33	1.46	1.26
1980	1.99	1.58	2.11	1.44	0.95	0.84	0.64	0.96	1.10	1.36	1.82	2.00	1.40
1981	1.29	2.24	1.98	1.22	1.47	0.67	0.78	0.80	1.58	1.40	1.70	1.28	1.36
1982	1.36	1.42	1.09	1.14	0.88	0.89	0.60	0.51	1.02	1.63	1.38	1.21	1.09
1983	1.57	1.95	1.66	1.39	0.98	0.80	0.59	0.57	1.14	1.72	1.34	1.61	1.27
1984	1.73	1.42	1.71	1.23	0.95	0.75	0.69	0.58	1.25	1.34	1.49	1.23	1.20
1985	1.37	1.21	1.26	1.05	0.88	0.68	0.65	0.69	1.27	1.18	1.88	1.11	1.10
1986	1.47	1.37	1.44	1.44	1.30	0.84	0.49	0.97	1.20	1.27	1.29	1.60	1.22
1987	1.89	1.35	1.89	1.74	1.11	0.71	0.57	0.77	0.88	1.10	1.15	1.06	1.18
1988	1.43	1.21	1.11	2.03	2.19	2.28	0.72	0.73	0.96	1.13	1.13	1.10	1.33
1989	1.16	1.29	1.70	1.17	0.99	0.81	0.69	1.04	2.07	1.15	1.37	1.50	1.24
1990	1.01	1.19	1.25	1.31	1.09	0.92	0.87	0.97	1.30	1.35	1.06	1.53	1.15
1991	1.26	1.04	1.26	1.09	0.86	0.85	0.65	0.83	1.20	1.36	1.27	1.19	1.07
1992	1.41	1.20	1.27	1.01	1.15	0.63	0.55	0.57	1.01	1.02	1.03	1.57	1.03
1993	1.55	1.52	1.50	1.60	1.04	0.69	0.55	0.85	0.90	1.18	1.42	1.42	1.18
MEAN	1.47	1.43	1.49	1.33	1.10	0.87	0.63	0.77	1.20	1.30	1.39	1.37	

STATION: 58

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	33 9 5	241212	271010	3616 9	24 813	3211 7	12 432	471110	2713 9	341610	2511 9	241310	471110
1977	27 813	27 912	34 913	2215 9	21 635	201010	17 6 3	13 423	151010	3311 8	4312 9	4415 8	4415 8
1978	351113	4620 8	351110	6313 9	28 813	17 520	15 6 4	14 5 2	371211	34 9 6	251211	28 812	6313 9
1979	361013	5012 9	431112	401311	21 7 5	16 810	14 813	151511	331012	22 8 8	301012	3813 8	5012 9
1980	4618 8	4819 8	6916 8	311013	19 7 4	15 813	22 810	321812	291510	5113 9	5619 8	6916 9	6916 9
1981	3210 8	6615 9	6520 8	2710 9	3113 8	18 6 5	34 910	21 812	401710	2910 7	6814 8	3013 8	6814 8
1982	30 812	4711 8	22 7 9	27 9 7	2112 8	33 913	11 423	22 8 7	2313 9	6313 8	3915 9	3710 7	6313 8
1983	3511 7	4316 8	521210	36 913	20 521	19 7 7	14 5 4	15 5 3	5311 8	3712 8	3315 9	3910 5	5311 8
1984	5114 7	33 912	3312 9	321012	21 912	21 912	16 520	14 5 3	391012	4413 9	29 9 5	24 711	5114 7
1985	31 734	32 814	321010	311011	20 9 7	15 523	1910 9	17 7 5	691411	3511 8	4912 9	26 635	691411
1986	3414 8	3419 8	29 8 5	4016 8	4016 8	20 912	14 523	39 913	281610	3610 8	27 8 7	6014 9	6014 9
1987	4418 8	3812 7	5513 7	3310 6	2510 9	13 519	13 519	1915 8	23 8 9	27 8 6	27 9 7	281111	5513 7
1988	5717 9	2911 9	201013	4412 7	3112 3	3012 1	16 520	17 517	251510	24 9 8	2417 8	3817 8	5717 9
1989	281211	4913 5	4413 7	23 713	25 912	14 5 4	20 517	321110	691910	22 912	2814 9	5413 8	691910
1990	221013	271511	28 910	2214 8	25 9 6	21 6 3	1911 9	321611	2613 9	341010	28 813	2811 9	341010
1991	34 912	21 810	221013	24 8 7	21 8 8	19 7 5	11 423	601310	581810	3715 8	4611 7	23 7 4	601310
1992	4614 9	3110 6	261110	24 8 7	27 9 8	1311 8	12 423	14 519	3211 7	2710 7	25 813	391011	4614 9
1993	4111 8	3612 8	451013	4012 7	17 9 9	14 535	13 518	481312	691410	3510 8	491311	2913 9	691410
MAX	5717 9	6615 9	6916 8	6313 9	4016 8	33 913	34 910	601310	691410	6313 8	6814 8	6916 9	

MAX Hmo(m): 6.9 MAX Tp(sec): 14. MAX Dp(deg): 104. DATE(gmt): 93090106

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 355. DATE(gmt): 85092709

MEAN Hmo(m): 1.2 MEAN Tp(sec): 9.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.00 N, LONG: 75.75 W, DEPTH: 14 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 59

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	207	250	185	236	298	654	1355	936	367	288	201	324	5301
0.50 - 0.99	1338	1219	1272	1447	2145	2567	2577	2664	2001	1613	1483	1473	21799
1.00 - 1.49	1283	1281	1296	1441	1340	899	431	614	953	1391	1238	1262	13429
1.50 - 1.99	796	642	851	716	471	165	88	154	541	614	742	771	6551
2.00 - 2.49	427	339	434	270	158	24	9	29	273	268	363	364	2958
2.50 - 2.99	203	190	201	114	46	6	1	34	79	157	126	135	1292
3.00 - 3.49	126	66	102	53	6	4	2	11	34	87	74	54	619
3.50 - 3.99	46	43	49	23	.	1	1	15	23	26	50	30	307
4.00 - 4.49	28	20	36	7	.	.	.	5	12	5	24	13	150
4.50 - 4.99	6	14	22	8	.	.	.	.	10	5	10	11	86
5.00 - 5.49	4	5	9	2	.	.	.	2	14	6	4	10	56
5.50 - 5.99	.	3	2	3	.	.	.	.	5	4	2	8	27
6.00 - 6.49	.	.	1	.	.	.	.	.	5	.	3	3	12
6.50 - 6.99	.	.	2	.	.	.	.	.	1	.	.	2	5
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	2	3
7.50 - 7.99	.	.	2	.	.	.	.	.	1	.	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	2	2
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 59

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	131	155	99	96	134	315	671	416	152	113	170	227	2679
4.0 - 4.9	624	631	522	445	566	726	803	485	352	475	537	810	6976
5.0 - 5.9	472	448	460	384	360	292	284	302	259	290	424	534	4509
6.0 - 6.9	178	250	277	238	223	257	236	369	300	240	217	194	2979
7.0 - 7.9	132	133	168	165	406	444	425	735	597	298	213	84	3800
8.0 - 8.9	212	189	245	268	693	667	870	909	650	545	336	176	5760
9.0 - 9.9	326	406	385	401	692	626	617	523	453	626	567	360	5982
10.0 - 10.9	532	425	507	503	365	359	313	216	401	608	521	406	5156
11.0 - 11.9	414	393	520	545	326	226	139	146	290	425	405	308	4137
12.0 - 12.9	408	281	405	494	378	285	55	108	182	330	224	330	3480
13.0 - 13.9	338	222	357	384	139	78	43	79	218	255	172	334	2619
14.0 - 14.9	284	172	223	207	105	28	6	62	148	120	194	281	1830
15.0 - 15.9	157	130	124	97	51	13	2	57	132	63	115	195	1136
16.0 - 16.9	96	99	82	68	18	2	.	20	71	43	88	126	713
17.0 - 17.9	78	40	21	16	7	2	.	16	46	26	60	61	373
18.0 - 18.9	40	41	16	4	1	.	.	8	20	2	31	18	181
19.0 - 19.9	21	33	23	2	.	.	.	3	16	3	31	10	142
20.0 - LONGER	21	24	30	3	.	.	.	10	33	2	15	10	148
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 59

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	120	123	104	44	76	74	47	67	55	63	127	156	1056
11.25 - 33.74 (22.5)	58	73	54	41	51	70	87	62	77	77	79	66	795
33.75 - 56.24 (45.0)	93	113	71	69	81	87	65	110	154	138	95	94	1170
56.25 - 78.74 (67.5)	226	269	217	136	169	238	113	212	282	259	205	187	2513
78.75 - 101.24 (90.0)	1900	1508	1881	2080	1725	1213	671	1246	1964	2215	1861	1848	20112
101.25 - 123.74 (112.5)	898	842	919	849	1014	1172	1749	1637	1260	950	914	690	12894
123.75 - 146.24 (135.0)	123	130	251	226	358	339	360	391	155	172	186	118	2809
146.25 - 168.74 (157.5)	71	42	104	98	129	39	84	63	30	48	71	38	817
168.75 - 191.24 (180.0)	122	145	211	192	310	277	140	127	71	73	170	131	1969
191.25 - 213.74 (202.5)	89	109	127	180	177	240	324	164	68	74	78	166	1796
213.75 - 236.24 (225.0)	61	143	116	84	122	245	353	189	72	70	79	169	1703
236.25 - 258.74 (247.5)	87	88	51	45	56	136	177	90	31	52	47	125	985
258.75 - 281.24 (270.0)	88	54	32	41	55	75	110	53	11	32	59	107	717
281.25 - 303.74 (292.5)	157	81	85	57	31	38	95	18	22	48	103	136	871
303.75 - 326.24 (315.0)	219	139	124	86	46	27	65	9	19	86	123	249	1192
326.25 - 348.74 (337.5)	152	213	117	92	64	50	24	26	49	107	123	184	1201
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.00 N, LONG: 75.75 W, DEPTH: 14 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 59 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	825	.	.	.	.	.	.	.	.	.	825
1.00 - 1.99	790	253	2	.	.	.	.	.	.	.	1045
2.00 - 2.99	.	44	4	.	.	.	.	.	.	.	48
3.00 - 3.99	.	2	2	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1615	299	8	0	0	0	0	0	0	0	1922

STATION: 59 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	508	230	28	.	.	.	.	.	.	.	766
1.00 - 1.99	138	824	109	3	.	.	.	.	.	.	1074
2.00 - 2.99	.	110	239	31	.	.	.	.	.	.	380
3.00 - 3.99	.	.	37	42	8	.	.	.	.	.	87
4.00 - 4.99	.	.	.	14	4	2	.	.	.	.	20
5.00 - 5.99	.	.	.	.	2	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	646	1164	413	90	14	2	0	0	0	0	2329

STATION: 59 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	340	742	3407	5114	3281	1740	622	181	71	11	15509
1.00 - 1.99	49	658	1620	2761	2414	1821	793	223	79	12	10430
2.00 - 2.99	.	52	349	576	664	580	303	81	33	.	2638
3.00 - 3.99	.	.	38	162	188	107	80	46	35	1	657
4.00 - 4.99	.	.	.	25	67	60	7	9	20	1	189
5.00 - 5.99	.	.	.	.	12	40	9	5	13	.	79
6.00 - 6.99	.	.	.	.	1	7	5	.	3	.	16
7.00 - 7.99	.	.	.	.	.	2	2	1	.	.	5
8.00 - 8.99	.	.	.	.	.	.	2	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	389	1452	5414	8638	6627	4357	1823	546	254	25	29525

STATION: 59 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	233	756	2915	1578	189	11	.	.	.	1	5683
1.00 - 1.99	43	538	515	611	372	36	13	.	1	3	2132
2.00 - 2.99	.	70	207	140	68	28	10	2	4	.	529
3.00 - 3.99	.	.	42	73	28	8	1	3	2	.	157
4.00 - 4.99	.	.	.	8	11	3	2	3	.	.	27
5.00 - 5.99	.	.	.	.	.	2	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	1	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	276	1364	3679	2410	668	90	26	8	7	4	8532

STATION: 59 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	825	59	.	.	84	.	.	.	.	.	968
1.00 - 1.99	244	1441	.	.	200	.	.	.	.	.	1885
2.00 - 2.99	.	324	27	.	4	.	.	.	.	.	355
3.00 - 3.99	.	.	16	.	.	.	.	.	.	.	16
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1069	1824	43	0	288	0	0	0	0	0	3224

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.00 N LONG: 75.75 W DEPTH: 14 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 59 (202.50 - 247.49) 225.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1602		.	.	20	.	.	.	.	.	1622
1.00 - 1.99	1196	341	.	.	.	.	.	.	.	.	1537
2.00 - 2.99	.	41	.	.	.	.	.	.	.	.	41
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2798	382	0	0	20	0	0	0	0	0	3200

STATION: 59 (247.50 - 292.49) 270.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1051		.	.	.	.	.	.	.	.	1051
1.00 - 1.99	423	61	.	.	.	.	.	.	.	.	484
2.00 - 2.99	.	11	.	.	.	.	.	.	.	.	11
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1474	72	0	0	0	0	0	0	0	0	1546

STATION: 59 (292.50 - 337.49) 315.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	676		.	.	.	.	.	.	.	.	676
1.00 - 1.99	712	681	.	.	.	.	.	.	.	.	1393
2.00 - 2.99	.	248	.	.	.	.	.	.	.	.	248
3.00 - 3.99	.	2	3	.	.	.	.	.	.	.	5
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1388	931	3	0	0	0	0	0	0	0	2322

STATION: 59 ALL DIRECTIONS

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6060	1787	6350	6692	3574	1751	622	181	71	12	27100
1.00 - 1.99	3595	4797	2246	3375	2986	1857	806	223	80	15	19980
2.00 - 2.99	.	900	826	747	736	608	313	83	37	.	4250
3.00 - 3.99	.	4	138	277	224	115	81	49	37	1	926
4.00 - 4.99	.	.	.	47	82	65	9	12	20	1	236
5.00 - 5.99	.	.	.	.	14	42	9	5	13	.	83
6.00 - 6.99	.	.	.	.	1	8	5	.	3	.	17
7.00 - 7.99	.	.	.	.	.	3	2	1	.	.	6
8.00 - 8.99	.	.	.	.	.	.	2	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	9655	7488	9560	11138	7617	4449	1849	554	261	29	52600

STATION: 59

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	100	134	146	238	431	511	644	884	583	348	199	177	4395
2.50 - 4.99	1137	1074	1263	1442	1948	2140	2453	2475	2059	1724	1345	1127	20187
5.00 - 7.49	875	856	919	1002	1014	974	939	757	914	956	908	919	11033
7.50 - 9.99	1169	1002	1083	941	799	595	405	305	556	915	1088	1183	10041
10.00 - 12.49	530	458	520	389	204	82	18	23	131	340	394	515	3604
12.50 - 14.99	443	356	366	249	64	17	2	9	53	155	305	363	2382
15.00 - 17.49	130	99	90	45	3	1	2	5	8	13	57	86	539
17.50 - 19.99	69	77	46	11	1	.	1	4	9	9	22	77	326
20.00 - GREATER	11	16	31	3	.	.	.	2	7	4	2	17	93
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.00 N, LONG: 75.75 W, DEPTH: 14 M

STATION: 59

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	808	763	793	583	574	447	336	532	587	741	743	859	7766
22.50 - 67.49 (45.0)	502	479	460	357	508	470	384	609	1071	858	572	435	6705
67.50 - 112.49 (90.0)	257	276	321	285	328	336	277	466	543	465	371	208	4133
112.50 - 157.49 (135.0)	192	218	384	380	419	330	315	352	329	334	260	210	3723
157.50 - 202.49 (180.0)	423	429	651	707	865	680	605	649	479	437	531	378	6834
202.50 - 247.49 (225.0)	511	568	647	750	929	1193	1361	1005	608	538	577	768	9455
247.50 - 292.49 (270.0)	674	476	453	594	437	515	789	560	399	471	551	684	6603
292.50 - 337.49 (315.0)	1097	863	755	664	404	349	397	291	304	620	715	922	7381
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 59

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.26	1.17	1.16	1.20	1.08	1.01	0.50	1.10	0.89	1.42	1.01	1.16	1.08
1977	1.27	1.02	1.26	1.09	0.75	0.66	0.60	0.58	0.74	1.40	1.68	1.32	1.03
1978	1.54	1.39	1.46	1.29	1.06	0.69	0.58	0.62	1.28	1.15	1.41	1.06	1.13
1979	1.67	1.70	1.57	1.26	1.09	0.81	0.59	0.66	1.47	0.90	1.27	1.33	1.19
1980	1.74	1.34	1.95	1.33	0.85	0.81	0.63	0.88	1.02	1.28	1.56	1.81	1.27
1981	1.16	2.04	1.75	1.19	1.38	0.63	0.78	0.75	1.43	1.34	1.55	1.22	1.26
1982	1.27	1.34	1.04	1.09	0.80	0.83	0.57	0.48	0.95	1.42	1.28	1.12	1.01
1983	1.48	1.72	1.62	1.33	0.98	0.78	0.57	0.55	1.07	1.62	1.27	1.56	1.21
1984	1.55	1.41	1.58	1.16	0.92	0.74	0.68	0.55	1.21	1.23	1.36	1.14	1.13
1985	1.30	1.15	1.18	1.02	0.85	0.63	0.65	0.66	1.16	1.14	1.72	1.04	1.04
1986	1.35	1.22	1.35	1.28	1.16	0.81	0.47	0.87	1.08	1.14	1.19	1.47	1.12
1987	1.72	1.23	1.64	1.59	1.03	0.69	0.55	0.72	0.83	1.02	1.11	1.00	1.09
1988	1.31	1.16	1.07	1.28	1.15	1.05	0.71	0.74	0.90	1.01	1.10	1.00	1.04
1989	1.07	1.23	1.64	1.12	0.95	0.78	0.67	1.00	1.90	1.07	1.32	1.35	1.17
1990	0.99	1.17	1.22	1.20	1.08	0.88	0.86	0.90	1.19	1.27	0.97	1.41	1.10
1991	1.19	0.98	1.20	1.03	0.83	0.80	0.64	0.82	1.10	1.21	1.18	1.12	1.01
1992	1.33	1.11	1.19	0.94	1.05	0.60	0.53	0.56	0.95	0.92	0.96	1.40	0.96
1993	1.42	1.36	1.39	1.51	0.94	0.66	0.53	0.78	0.85	1.07	1.33	1.29	1.09
MEAN	1.37	1.32	1.40	1.22	1.00	0.77	0.62	0.73	1.11	1.20	1.29	1.27	

STATION: 59

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	34 8 4	27 718	29 8 9	3510 7	25 617	3510 7	14 519	431211	2414 9	34 9 5	2411 9	25 632	431211
1977	30 813	30 912	39 914	24 619	18 533	19 534	17 6 3	13 423	1510 9	3510 7	411110	3913 8	411110
1978	411112	3420 9	381110	5914 9	31 715	19 619	16 6 4	12 4 1	331211	34 8 5	25 8 4	32 814	5914 9
1979	401013	4912 8	461113	381311	23 619	15 710	14 813	141511	371012	23 8 8	331012	3610 8	4912 8
1980	401110	3719 9	7917 7	361012	20 7 4	15 813	21 811	301812	26 8 8	511310	4219 9	811610	811610
1981	2910 9	5715 9	4913 8	29 719	29 9 8	19 6 6	37 911	22 712	361810	28 8 6	6213 7	2713 8	6213 7
1982	30 812	4611 8	23 7 8	28 810	1712 8	33 813	12 519	18 8 8	23 8 6	5913 9	3314 9	36 9 5	5913 9
1983	3611 8	4310 9	521410	36 912	23 619	19 7 5	15 5 4	17 6 4	5312 9	3611 8	2915 9	4210 5	5312 9
1984	4913 8	35 912	35 814	361012	21 618	181012	17 618	14 5 3	471111	5016 9	30 8 4	25 710	5016 9
1985	29 633	35 814	301010	301011	17 532	14 522	2010 9	18 6 4	771411	3711 9	491110	25 631	771411
1986	3313 9	27 710	34 818	3016 8	3016 8	20 6 5	13 523	39 912	241610	3511 8	27 7 6	581410	581410
1987	4310 6	4110 8	5113 8	3311 7	2410 9	16 519	15 520	1615 8	21 8 9	27 7 4	541011	261111	5113 8
1988	5417 9	2712 9	24 618	4512 7	24 814	25 8 5	18 618	18 616	221510	22 7 4	27 718	2917 8	5417 9
1989	25 7 5	5112 5	4413 8	24 714	29 912	15 519	21 616	291110	631910	21 912	261110	4612 8	631910
1990	25 619	28 913	30 910	25 619	27 8 6	19 618	18 912	281511	2514 9	34 8 3	28 813	29 912	34 8 3
1991	36 912	22 619	25 616	23 8 7	22 7 7	20 7 5	12 519	531310	491710	2815 8	4611 7	23 619	531310
1992	421410	3210 7	261110	23 7 4	28 8 7	1110 9	12 423	16 520	34 9 7	28 8 7	27 913	411011	421410
1993	3810 7	3211 8	461013	4011 8	17 8 9	15 518	15 519	421312	671411	3310 9	491311	27 619	671411
MAX	5417 9	5715 9	7917 7	5914 9	31 715	3510 7	37 911	531310	771411	5913 9	6213 7	811610	

MAX Hmo(m): 8.1 MAX Tp(sec): 16. MAX Dp(deg): 97. DATE(gmt): 80122815

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 5. DATE(gmt): 85092709

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.25 N, LONG: 75.50 W, DEPTH: 24 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 60

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	182	205	140	193	238	551	1187	741	303	262	168	287	4457
0.50 - 0.99	1118	1045	1132	1299	1900	2395	2481	2661	1801	1386	1279	1232	19729
1.00 - 1.49	1235	1162	1146	1328	1369	990	570	721	1125	1375	1174	1145	13340
1.50 - 1.99	874	737	933	797	593	310	198	234	588	755	816	917	7752
2.00 - 2.49	500	438	502	346	237	54	24	57	296	323	468	470	3715
2.50 - 2.99	253	230	288	182	97	11	.	19	88	173	191	199	1731
3.00 - 3.49	131	113	134	83	26	4	1	9	48	93	104	83	829
3.50 - 3.99	97	59	67	52	4	4	2	12	28	60	51	58	494
4.00 - 4.49	43	34	49	17	.	1	1	6	19	16	36	20	242
4.50 - 4.99	19	21	28	7	.	.	.	2	8	10	12	17	124
5.00 - 5.49	6	15	23	9	.	.	.	.	7	5	7	9	81
5.50 - 5.99	6	10	11	4	.	.	.	1	4	2	7	12	57
6.00 - 6.49	.	2	4	3	.	.	.	.	2	2	1	7	21
6.50 - 6.99	.	1	1	.	.	.	.	1	1	2	2	2	10
7.00 - 7.49	.	.	1	.	.	.	.	.	1	.	2	3	7
7.50 - 7.99	.	.	2	.	.	.	.	.	1	.	2	1	6
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	2	2
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	1	.	.	.	.	.	.	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	1	.	.	.	.	.	.	.	.	.	1
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 60

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	96	116	68	84	84	218	519	270	102	80	114	152	1903
4.0 - 4.9	526	470	384	316	394	558	696	532	331	383	488	583	5661
5.0 - 5.9	739	714	627	534	639	724	645	505	409	533	592	874	7535
6.0 - 6.9	312	401	463	407	426	412	361	530	392	336	362	398	4800
7.0 - 7.9	206	213	294	281	568	546	517	815	688	339	303	145	4915
8.0 - 8.9	238	221	256	274	672	601	790	760	589	508	366	159	5434
9.0 - 9.9	285	319	325	357	560	503	476	422	393	569	485	299	4993
10.0 - 10.9	404	341	416	421	339	307	244	169	354	532	406	347	4280
11.0 - 11.9	330	323	461	494	294	205	115	126	256	399	349	262	3614
12.0 - 12.9	354	245	369	425	192	145	57	100	179	319	200	295	2880
13.0 - 13.9	336	201	324	368	128	70	38	67	211	232	173	323	2471
14.0 - 14.9	266	170	203	181	95	21	4	59	127	107	177	245	1655
15.0 - 15.9	145	115	122	98	49	7	2	53	118	59	98	185	1051
16.0 - 16.9	85	90	78	60	16	3	.	23	67	45	92	107	666
17.0 - 17.9	64	42	16	11	7	.	.	14	42	16	42	54	308
18.0 - 18.9	38	36	17	4	1	.	.	7	19	4	31	18	175
19.0 - 19.9	21	31	15	2	.	.	.	2	18	2	26	12	129
20.0 - LONGER	19	24	26	3	.	.	.	10	25	1	16	6	130
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 60

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	216	250	207	97	134	105	67	83	86	144	209	239	1837
11.25 - 33.74 (22.5)	114	132	91	79	74	105	112	102	124	110	121	115	1279
33.75 - 56.24 (45.0)	121	124	98	94	97	104	78	155	198	192	127	124	1512
56.25 - 78.74 (67.5)	281	323	301	179	337	480	185	351	444	352	236	238	3707
78.75 - 101.24 (90.0)	1548	1204	1623	1837	1406	853	545	1041	1484	1868	1561	1489	16459
101.25 - 123.74 (112.5)	742	635	644	641	808	819	1281	1265	1169	795	755	596	10150
123.75 - 146.24 (135.0)	199	259	324	359	519	574	587	569	347	292	250	190	4469
146.25 - 168.74 (157.5)	78	43	152	141	153	140	208	152	41	78	112	51	1349
168.75 - 191.24 (180.0)	170	180	272	220	303	204	168	154	89	86	185	151	2182
191.25 - 213.74 (202.5)	146	163	191	223	220	317	410	222	115	112	140	248	2507
213.75 - 236.24 (225.0)	99	174	127	93	173	277	345	177	80	78	98	200	1921
236.25 - 258.74 (247.5)	76	70	55	54	39	123	156	86	26	46	52	112	895
258.75 - 281.24 (270.0)	78	50	32	42	50	73	112	49	13	30	54	87	670
281.25 - 303.74 (292.5)	157	74	79	54	35	52	94	20	20	38	109	124	856
303.75 - 326.24 (315.0)	231	160	136	101	44	29	75	13	19	96	151	271	1326
326.25 - 348.74 (337.5)	208	231	132	106	72	65	41	25	65	147	160	229	1481
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.25 N, LONG: 75.50 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 60 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	692	1									693
1.00 - 1.99	585	1436	2								2023
2.00 - 2.99		422	9								431
3.00 - 3.99		12	23	4							39
4.00 - 4.99			5								5
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1277	1871	39	4	0	0	0	0	0	0	3191

STATION: 60 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	475	362	102	27							966
1.00 - 1.99	68	974	167	9							1218
2.00 - 2.99		177	419	59							655
3.00 - 3.99			103	110	3						216
4.00 - 4.99			5	36	17	1					59
5.00 - 5.99				10	15	4					29
6.00 - 6.99					5	1					6
7.00 - 7.99				1							1
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	543	1513	796	252	40	6	0	0	0	0	3150

STATION: 60 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	319	707	2325	3514	2700	1477	522	144	61	8	11777
1.00 - 1.99	45	681	1651	2169	2093	1680	694	184	61	10	9268
2.00 - 2.99		53	348	449	624	545	299	76	32		2426
3.00 - 3.99			67	190	140	114	101	45	36	1	694
4.00 - 4.99			8	46	74	46	12	10	30	1	227
5.00 - 5.99				10	30	36	9	2	7		94
6.00 - 6.99				1	8	13	3				25
7.00 - 7.99						8	4				12
8.00 - 8.99							3				3
9.00 - GREATER							2				2
TOTAL	364	1441	4399	6379	5669	3919	1649	461	227	20	24528

STATION: 60 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	222	1036	3484	1722	251	40	9	4		3	6771
1.00 - 1.99	53	584	714	690	396	93	36	9	2	3	2580
2.00 - 2.99		66	195	130	90	54	20	5	4		564
3.00 - 3.99			90	53	19	8	2	3			175
4.00 - 4.99			4	33	11	2	1	1			52
5.00 - 5.99				4	7	4					15
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	275	1686	4487	2632	774	201	68	22	6	6	10157

STATION: 60 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	737	184	1	1	5						928
1.00 - 1.99	136	1882	16								2034
2.00 - 2.99		345	401								746
3.00 - 3.99			175								175
4.00 - 4.99			17	5							22
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	873	2411	610	6	5	0	0	0	0	0	3905

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.25 N, LONG: 75.50 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 60 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1308	117	.	.	6	.	.	.	.	.	1431
1.00 - 1.99	177	1911	1	.	.	.	.	.	.	.	2089
2.00 - 2.99	.	263	8	.	.	.	.	.	.	.	271
3.00 - 3.99	.	.	3	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1485	2291	12	0	6	0	0	0	0	0	3794

STATION: 60 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	928	.	.	.	.	.	.	.	.	.	928
1.00 - 1.99	342	67	.	.	.	.	.	.	.	.	409
2.00 - 2.99	.	27	.	.	.	.	.	.	.	.	27
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1270	94	0	0	0	0	0	0	0	0	1364

STATION: 60 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	692	.	.	.	.	.	.	.	.	.	692
1.00 - 1.99	785	686	.	.	.	.	.	.	.	.	1471
2.00 - 2.99	.	326	.	.	.	.	.	.	.	.	326
3.00 - 3.99	.	16	5	.	.	.	.	.	.	.	21
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1477	1028	6	0	0	0	0	0	0	0	2511

STATION: 60 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5373	2407	5912	5264	2962	1517	531	148	61	11	24186
1.00 - 1.99	2191	8221	2551	2868	2489	1773	730	193	63	13	21092
2.00 - 2.99	.	1679	1380	638	714	599	319	81	36	.	5446
3.00 - 3.99	.	28	466	357	162	122	103	48	36	1	1323
4.00 - 4.99	.	.	40	120	102	49	13	11	30	1	366
5.00 - 5.99	.	.	.	24	52	44	9	2	7	.	138
6.00 - 6.99	.	.	.	1	13	14	3	.	.	.	31
7.00 - 7.99	.	.	.	1	.	8	4	.	.	.	13
8.00 - 8.99	.	.	.	.	.	.	3	.	.	.	3
9.00 - GREATER	.	.	.	.	.	.	2	.	.	.	2
TOTAL	7564	12335	10349	9273	6494	4126	1717	483	233	26	52600

STATION: 60

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	100	141	156	238	418	520	630	878	550	349	198	169	4347
2.50 - 4.99	1092	1027	1218	1395	1901	2080	2430	2427	2061	1665	1297	1090	19683
5.00 - 7.49	882	835	906	1003	1053	1000	951	784	919	961	891	906	11091
7.50 - 9.99	1162	1015	1097	955	802	605	426	331	570	918	1090	1211	10182
10.00 - 12.49	544	493	516	394	218	95	22	22	139	368	427	502	3740
12.50 - 14.99	447	352	388	270	68	19	2	10	61	175	324	389	2505
15.00 - 17.49	137	104	97	48	3	1	1	5	6	14	62	86	564
17.50 - 19.99	90	83	50	15	1	.	2	5	8	10	28	92	384
20.00 - GREATER	10	22	36	2	.	.	.	2	6	4	3	19	104
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.25 N, LONG: 75.50 W, DEPTH: 24 M

STATION: 60

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	794	752	788	581	593	461	364	559	618	712	732	843	7797
22.50 - 67.49	(45.0)	488	445	457	362	489	447	352	583	1014	838	552	408	6435
67.50 - 112.49	(90.0)	247	281	315	274	317	312	274	444	524	451	366	206	4011
112.50 - 157.49	(135.0)	193	222	371	398	422	343	311	355	350	342	276	212	3795
157.50 - 202.49	(180.0)	427	456	657	699	868	691	625	666	483	443	523	373	6884
202.50 - 247.49	(225.0)	521	557	633	737	911	1166	1335	981	612	552	564	773	9342
247.50 - 292.49	(270.0)	652	470	445	578	438	524	779	573	400	465	556	667	6547
292.50 - 337.49	(315.0)	1142	916	798	691	426	376	424	303	319	661	751	982	7789
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 60

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.40	1.35	1.30	1.30	1.19	1.12	0.56	1.13	0.93	1.54	1.13	1.29	1.19
1977	1.39	1.15	1.40	1.20	0.81	0.73	0.65	0.65	0.82	1.50	1.78	1.47	1.13
1978	1.61	1.52	1.62	1.42	1.18	0.78	0.64	0.66	1.32	1.24	1.51	1.20	1.22
1979	1.80	1.84	1.68	1.35	1.21	0.86	0.64	0.72	1.53	1.01	1.39	1.52	1.29
1980	1.94	1.52	2.19	1.47	0.97	0.92	0.70	0.95	1.04	1.37	1.71	2.00	1.40
1981	1.32	2.19	1.95	1.43	1.54	0.73	0.87	0.81	1.44	1.46	1.76	1.34	1.40
1982	1.42	1.47	1.11	1.20	0.90	0.94	0.61	0.53	1.03	1.51	1.39	1.29	1.11
1983	1.58	1.88	1.78	1.45	1.11	0.85	0.60	0.62	1.16	1.76	1.36	1.72	1.32
1984	1.70	1.50	1.74	1.25	1.07	0.81	0.81	0.61	1.25	1.30	1.52	1.22	1.23
1985	1.44	1.30	1.36	1.12	0.96	0.73	0.71	0.72	1.22	1.19	1.82	1.20	1.15
1986	1.50	1.38	1.51	1.41	1.31	0.91	0.52	0.96	1.14	1.27	1.29	1.59	1.23
1987	1.84	1.39	1.84	1.77	1.12	0.75	0.61	0.77	0.89	1.11	1.22	1.07	1.20
1988	1.40	1.32	1.21	1.38	1.07	0.95	0.82	0.80	0.93	1.13	1.25	1.15	1.12
1989	1.19	1.40	1.88	1.22	1.06	0.87	0.71	1.05	1.87	1.16	1.43	1.52	1.28
1990	1.08	1.34	1.32	1.29	1.20	0.99	0.91	0.95	1.26	1.33	1.08	1.54	1.19
1991	1.28	1.11	1.36	1.15	0.87	0.87	0.69	0.88	1.13	1.30	1.32	1.26	1.10
1992	1.43	1.23	1.27	1.01	1.16	0.64	0.59	0.59	1.07	1.01	1.07	1.53	1.05
1993	1.56	1.55	1.48	1.68	1.01	0.73	0.57	0.81	0.95	1.16	1.43	1.41	1.19
MEAN	1.49	1.47	1.56	1.34	1.10	0.84	0.68	0.79	1.17	1.30	1.41	1.41	

STATION: 60

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	3710 7	33 817	35 8 9	4110 7	30 717	4010 7	18 619	461111	2413 9	40 9 4	25 634	25 632	461111
1977	35 816	37 816	44 915	32 719	23 635	25 634	18 621	18 621	17 522	4110 6	45 910	4513 8	4513 8
1978	48 918	3520 9	431110	6214 9	36 816	24 718	18 6 3	16 5 1	30 8 5	39 8 4	28 8 3	37 816	6214 9
1979	491013	6012 8	561114	381013	28 718	16 5 2	15 520	15 5 0	42 914	33 8 7	38 816	41 9 6	6012 8
1980	4412 8	4018 9	10216 7	42 817	22 715	21 622	21 710	27 7 4	27 8 7	321310	4319 9	841510	10216 7
1981	3410 9	591213	5712 8	37 819	31 814	21 6 6	44 912	22 612	301611	31 8 5	7814 8	3117 9	7814 8
1982	32 813	5611 7	26 7 8	32 818	22 8 7	36 814	15 522	24 6 2	25 8 5	6612 8	33 9 7	43 9 4	6612 8
1983	4411 7	5010 9	571411	39 913	28 719	20 7 6	15 6 3	18 6 4	601211	4111 8	36 817	4810 6	601211
1984	5713 8	40 912	40 912	421013	25 622	22 635	24 718	16 6 3	531112	5316 9	34 8 5	26 623	5713 8
1985	32 734	42 913	32 810	32 812	22 8 6	20 621	2110 9	20 7 5	761311	4211 9	571110	30 735	761311
1986	3513 9	3319 9	46 918	3316 8	3216 9	21 6 4	19 621	44 913	2413 9	4011 8	32 817	601410	601410
1987	5510 3	4811 7	6212 6	3910 5	2610 9	18 619	17 619	19 618	22 8 9	29 8 6	30 718	30 719	6212 6
1988	5217 9	31 817	30 718	5412 8	24 6 3	27 8 4	22 718	21 716	24 717	25 9 9	34 818	3217 9	5412 8
1989	25 635	6813 5	5112 7	29 719	35 816	19 619	23 715	301111	531911	22 912	32 817	5211 7	6813 5
1990	31 719	34 817	34 811	31 719	32 717	23 718	19 619	231512	2713 9	41 7 1	31 713	36 816	41 7 1
1991	40 911	27 719	29 719	26 8 3	24 7 7	23 6 4	14 521	6612 8	411811	3215 8	5310 5	28 718	6612 8
1992	421410	35 9 5	28 811	26 717	31 9 7	14 536	16 523	20 619	3910 7	33 8 6	34 817	461012	461012
1993	4611 7	4310 7	511013	4610 7	18 8 9	16 618	17 618	371313	6610 7	40 9 5	541212	3210 7	6610 7
MAX	5713 8	6813 5	10216 7	6214 9	36 816	4010 7	44 912	6612 8	761311	6612 8	7814 8	841510	

MAX Hmo(m): 10.2 MAX Tp(sec): 16. MAX Dp(deg): 72. DATE(gmt): 80030309

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 30. DATE(gmt): 85092709

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.4

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.50 N LONG: 75.50 W DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 61

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	218	256	204	258	303	668	1294	876	364	308	208	339	5296
0.50 - 0.99	1324	1199	1243	1435	2139	2522	2521	2707	2023	1616	1477	1415	21621
1.00 - 1.49	1268	1257	1252	1359	1276	875	498	636	1012	1361	1190	1237	13221
1.50 - 1.99	787	657	860	707	475	207	136	155	529	647	758	821	6739
2.00 - 2.49	437	347	408	299	198	36	10	44	216	260	364	375	2994
2.50 - 2.99	217	179	240	127	53	7	2	18	72	144	161	122	1342
3.00 - 3.49	111	82	105	69	16	4	.	14	45	72	75	69	662
3.50 - 3.99	61	37	65	41	4	1	2	7	17	34	51	32	352
4.00 - 4.49	27	30	44	9	.	.	1	3	16	8	13	16	167
4.50 - 4.99	12	12	22	7	.	.	.	2	10	5	11	11	92
5.00 - 5.49	2	12	12	6	.	.	.	1	8	6	6	10	63
5.50 - 5.99	.	3	3	3	.	.	.	1	4	3	2	10	29
6.00 - 6.49	.	1	2	.	.	.	.	.	3	.	2	2	10
6.50 - 6.99	.	.	1	.	.	.	.	.	.	.	1	2	4
7.00 - 7.49	.	.	1	.	.	.	.	.	1	.	1	2	5
7.50 - 7.99	.	.	1	.	.	.	.	.	.	.	.	1	2
8.00 - 8.49	.	.	1	.	.	.	.	.	.	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 61

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	172	173	109	98	152	369	672	416	180	144	193	248	2926
4.0 - 4.9	629	625	490	416	452	601	587	459	360	460	554	716	6349
5.0 - 5.9	576	516	454	403	444	497	510	404	325	401	407	633	5570
6.0 - 6.9	233	310	364	346	416	416	338	481	334	301	305	306	4150
7.0 - 7.9	187	192	290	270	571	542	525	776	640	324	303	129	4749
8.0 - 8.9	255	246	276	326	737	676	843	828	634	550	417	182	5970
9.0 - 9.9	315	368	360	391	614	543	542	457	421	568	509	329	5417
10.0 - 10.9	466	389	463	458	314	286	248	187	354	563	464	385	4577
11.0 - 11.9	391	346	485	503	289	200	114	122	266	402	375	290	3783
12.0 - 12.9	335	249	398	442	202	110	49	106	177	304	185	301	2858
13.0 - 13.9	328	186	326	343	125	49	30	75	197	230	160	323	2372
14.0 - 14.9	249	164	190	169	90	22	4	51	133	108	170	243	1593
15.0 - 15.9	130	111	112	87	40	8	2	45	123	54	85	181	978
16.0 - 16.9	79	69	71	49	13	1	.	21	66	34	84	110	597
17.0 - 17.9	60	39	16	12	5	.	.	16	41	14	41	55	299
18.0 - 18.9	24	35	14	4	.	.	.	8	23	3	25	16	152
19.0 - 19.9	18	33	18	3	.	.	.	2	17	2	28	11	132
20.0 - LONGER	17	21	28	.	.	.	.	10	29	2	15	6	128
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 61

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	133	146	123	54	95	88	64	89	71	79	139	164	1245
11.25 - 33.74 (22.5)	66	84	61	47	52	83	94	87	89	69	61	75	868
33.75 - 56.24 (45.0)	62	87	62	52	69	66	39	79	127	126	73	67	909
56.25 - 78.74 (67.5)	89	106	79	58	66	75	56	109	150	157	125	88	1158
78.75 - 101.24 (90.0)	1425	1202	1525	1703	1295	960	503	966	1434	1766	1359	1419	15557
101.25 - 123.74 (112.5)	949	735	887	799	1029	897	1146	1361	1356	1012	1024	821	12016
123.75 - 146.24 (135.0)	419	513	546	557	765	824	970	844	602	481	447	330	7298
146.25 - 168.74 (157.5)	103	51	160	165	188	177	249	203	49	94	115	47	1601
168.75 - 191.24 (180.0)	202	235	337	277	338	261	247	188	108	117	232	219	2761
191.25 - 213.74 (202.5)	138	178	175	174	231	355	378	204	115	119	127	258	2452
213.75 - 236.24 (225.0)	56	90	59	62	89	154	248	136	58	44	51	113	1160
236.25 - 258.74 (247.5)	74	69	40	39	30	123	139	80	24	56	41	103	818
258.75 - 281.24 (270.0)	97	60	38	44	54	83	115	51	16	39	76	113	786
281.25 - 303.74 (292.5)	201	91	101	68	43	61	99	23	27	60	127	177	1078
303.75 - 326.24 (315.0)	249	175	136	104	45	46	84	13	37	116	162	271	1438
326.25 - 348.74 (337.5)	201	250	135	117	75	67	33	31	57	129	161	199	1455
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.50 N, LONG: 75.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 61 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1037										1037
1.00 - 1.99	902	291									1193
2.00 - 2.99		65	4								69
3.00 - 3.99		7	2	1							10
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1939	363	6	1	0	0	0	0	0	0	2309

STATION: 61 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	544	92	1								637
1.00 - 1.99	142	693	39								874
2.00 - 2.99		98	202	12							312
3.00 - 3.99			49	28	2						79
4.00 - 4.99			1	17							18
5.00 - 5.99				1							1
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	686	883	292	58	2	0	0	0	0	0	1921

STATION: 61 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	390	693	1884	3020	2610	1554	506	152	55	9	10873
1.00 - 1.99	47	714	1389	1674	1745	1466	659	156	68	9	7927
2.00 - 2.99		59	348	326	465	411	203	62	31		1905
3.00 - 3.99			70	178	117	69	43	19	27	2	525
4.00 - 4.99				45	69	38	4	3	5		164
5.00 - 5.99				3	24	32	9				68
6.00 - 6.99						6	5				11
7.00 - 7.99						4	2				6
8.00 - 8.99							1				1
9.00 - GREATER											0
TOTAL	437	1466	3691	5246	5030	3580	1432	392	186	20	21480

STATION: 61 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	239	1163	4686	3043	637	70	20	13	11	5	9887
1.00 - 1.99	56	636	1025	1265	716	180	55	21	10	3	3967
2.00 - 2.99		69	217	251	191	101	63	8	7		907
3.00 - 3.99			79	91	42	13	4	10	4		243
4.00 - 4.99				26	14	9	1	5	10		65
5.00 - 5.99					9	8		2	4		23
6.00 - 6.99						3					3
7.00 - 7.99						1					1
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	295	1868	6007	4676	1609	385	143	59	46	8	15096

STATION: 61 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	833	416		1							1250
1.00 - 1.99	208	2415	94								2717
2.00 - 2.99		243	483								726
3.00 - 3.99			138	2							140
4.00 - 4.99			2	10							12
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1041	3074	717	13	0	0	0	0	0	0	4845

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.50 N, LONG: 75.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 61 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1207	81	.	.	.	.	.	.	.	.	1288
1.00 - 1.99	478	642	.	.	.	.	.	.	.	.	1120
2.00 - 2.99	.	67	.	.	.	.	.	.	.	.	67
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1685	790	0	0	0	0	0	0	0	0	2475

STATION: 61 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1150	.	.	.	.	.	.	.	.	.	1150
1.00 - 1.99	398	99	.	.	.	.	.	.	.	.	497
2.00 - 2.99	.	27	.	.	.	.	.	.	.	.	27
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1548	126	0	0	0	0	0	0	0	0	1674

STATION: 61 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	795	.	.	.	.	.	.	.	.	.	795
1.00 - 1.99	849	816	.	.	.	.	.	.	.	.	1665
2.00 - 2.99	.	323	.	.	.	.	.	.	.	.	323
3.00 - 3.99	.	11	6	.	.	.	.	.	.	.	17
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1644	1150	6	0	0	0	0	0	0	0	2800

STATION: 61 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6195	2445	6571	6064	3247	1624	526	165	66	14	26917
1.00 - 1.99	3080	6306	2547	2939	2461	1646	714	177	78	12	19960
2.00 - 2.99	.	951	1254	589	656	512	266	70	38	.	4336
3.00 - 3.99	.	18	344	300	161	82	47	29	31	2	1014
4.00 - 4.99	.	.	3	98	83	47	5	8	15	.	259
5.00 - 5.99	.	.	.	4	33	40	9	2	4	.	92
6.00 - 6.99	.	.	.	.	.	9	5	.	.	.	14
7.00 - 7.99	.	.	.	.	.	5	2	.	.	.	7
8.00 - 8.99	.	.	.	.	.	.	1	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	9275	9720	10719	9994	6641	3965	1575	451	232	28	52600

STATION: 61

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	106	135	164	248	421	512	652	891	557	352	203	169	4410
2.50 - 4.99	1088	1032	1200	1395	1917	2091	2437	2426	2061	1674	1281	1091	19693
5.00 - 7.49	902	849	919	994	1059	1014	938	783	929	957	908	917	11169
7.50 - 9.99	1145	1016	1102	967	782	597	410	323	557	927	1067	1198	10091
10.00 - 12.49	548	487	512	389	218	88	22	24	139	360	456	510	3753
12.50 - 14.99	429	348	380	259	62	17	2	8	59	165	314	384	2427
15.00 - 17.49	144	97	99	52	4	1	1	4	5	15	61	83	566
17.50 - 19.99	92	85	52	14	1	.	2	3	8	10	26	93	386
20.00 - GREATER	10	23	36	2	.	.	.	2	5	4	4	19	105
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.50 N, LONG: 75.50 W, DEPTH: 18 M

STATION: 61

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	787	740	785	575	589	473	386	569	627	695	723	817	7766
22.50 - 67.49 (45.0)	472	440	444	350	480	431	327	567	963	795	507	378	6154
67.50 - 112.49 (90.0)	244	274	312	273	314	300	271	437	506	445	376	210	3962
112.50 - 157.49 (135.0)	202	243	377	418	438	334	300	347	360	356	279	222	3876
157.50 - 202.49 (180.0)	425	420	669	707	863	719	638	684	493	455	525	380	6978
202.50 - 247.49 (225.0)	528	562	611	698	890	1130	1294	958	617	557	575	769	9189
247.50 - 292.49 (270.0)	642	463	450	585	445	536	781	569	403	468	571	660	6573
292.50 - 337.49 (315.0)	1164	930	816	714	445	397	467	333	351	693	764	1028	8102
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 61

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.30	1.26	1.23	1.20	1.12	1.06	0.53	1.06	0.87	1.41	1.04	1.20	1.11
1977	1.30	1.09	1.32	1.13	0.76	0.69	0.60	0.61	0.75	1.43	1.71	1.37	1.06
1978	1.60	1.31	1.53	1.33	1.15	0.76	0.59	0.64	1.22	1.12	1.39	1.11	1.14
1979	1.72	1.70	1.60	1.29	1.13	0.79	0.62	0.69	1.45	0.95	1.30	1.38	1.21
1980	1.69	1.31	1.98	1.38	0.88	0.84	0.66	0.86	0.99	1.28	1.50	1.78	1.26
1981	1.17	2.04	1.73	1.30	1.39	0.65	0.83	0.74	1.36	1.34	1.56	1.25	1.27
1982	1.30	1.34	1.03	1.13	0.82	0.85	0.57	0.48	0.95	1.33	1.27	1.15	1.02
1983	1.48	1.65	1.67	1.37	1.07	0.81	0.57	0.57	1.07	1.62	1.28	1.61	1.23
1984	1.50	1.47	1.62	1.19	0.99	0.77	0.75	0.56	1.13	1.19	1.34	1.15	1.14
1985	1.32	1.21	1.21	1.07	0.90	0.65	0.68	0.68	1.11	1.11	1.71	1.07	1.06
1986	1.37	1.25	1.38	1.27	1.16	0.84	0.48	0.86	1.06	1.12	1.18	1.46	1.12
1987	1.67	1.22	1.61	1.62	1.04	0.71	0.58	0.72	0.83	1.03	1.16	1.01	1.10
1988	1.26	1.22	1.13	1.25	0.98	0.87	0.77	0.76	0.87	1.01	1.17	1.02	1.02
1989	1.08	1.25	1.71	1.13	1.00	0.82	0.69	1.00	1.79	1.07	1.35	1.33	1.18
1990	1.04	1.23	1.24	1.22	1.13	0.94	0.88	0.91	1.17	1.29	0.98	1.43	1.12
1991	1.19	1.02	1.26	1.08	0.83	0.79	0.67	0.85	1.07	1.19	1.20	1.14	1.02
1992	1.35	1.11	1.21	0.93	1.05	0.60	0.55	0.57	0.97	0.91	0.99	1.38	0.97
1993	1.41	1.37	1.38	1.55	0.95	0.69	0.55	0.75	0.87	1.06	1.33	1.28	1.10
MEAN	1.37	1.33	1.43	1.25	1.02	0.79	0.64	0.74	1.09	1.19	1.30	1.28	

STATION: 61

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	31 7 5	34 819	34 9 9	3710 8	29 717	3610 8	18 618	451212	221310	37 9 7	241110	25 631	451212
1977	35 816	38 915	41 916	32 818	19 533	19 534	15 620	16 519	15 521	3710 8	42 911	3913 9	42 911
1978	46 918	29 632	411111	571410	36 816	24 719	16 613	12 520	28 8 7	36 8 5	27 7 9	35 816	571410
1979	461013	5512 9	521114	371313	26 718	14 616	14 814	13 434	40 914	21 7 8	37 817	36 9 8	5512 9
1980	43 917	321810	8015 8	41 916	22 716	17 620	20 711	261713	25 8 8	521311	351910	761410	8015 8
1981	271010	551214	5012 9	34 818	31 814	20 6 7	42 912	23 612	321812	27 8 6	7014 9	301710	7014 9
1982	29 717	5112 9	25 7 8	33 818	17 619	32 914	14 520	19 812	22 7 5	5912 9	30 8 8	40 9 5	5912 9
1983	4111 9	4410 9	551312	38 816	28 719	21 620	15 5 3	18 6 4	561212	3711 9	34 817	43 9 5	561212
1984	5012 9	37 913	39 913	411014	24 719	19 531	21 718	15 5 3	451013	431310	30 719	24 619	5012 9
1985	30 633	40 913	291012	31 812	17 618	16 620	191010	19 7 6	741312	391110	541112	26 631	741312
1986	341310	32 810	45 918	30 818	281510	20 6 5	15 619	43 818	241611	3611 9	33 818	591411	591411
1987	5010 5	4411 9	5612 8	3610 8	231010	18 619	16 620	18 618	19 810	26 7 5	29 817	29 817	5612 8
1988	471610	30 817	29 817	4712 9	22 814	26 8 6	21 619	20 717	23 717	24 7 5	34 818	29 818	4712 9
1989	231212	6013 7	4512 8	29 818	35 817	18 619	23 716	291112	551912	22 913	31 817	4611 9	6013 7
1990	29 818	33 818	32 811	32 818	30 817	24 718	18 618	241512	231310	37 8 3	28 714	36 816	37 8 3
1991	38 912	26 719	28 719	25 8 7	23 7 8	22 6 4	13 520	581210	441812	261212	4710 7	26 718	581210
1992	421411	30 9 8	27 716	24 717	30 8 8	12 434	13 520	19 619	3610 8	31 8 8	34 818	441012	441012
1993	4210 7	3810 8	491113	4210 8	17 617	16 618	16 618	331313	601412	36 9 7	521213	30 719	601412
MAX	5010 5	6013 7	8015 8	571410	36 816	3610 8	42 912	581210	741312	5912 9	7014 9	761410	

MAX Hmo(m): 8.0 MAX Tp(sec): 15. MAX Dp(deg): 83. DATE(gmt): 80030306

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 30. DATE(gmt): 85092709

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.75 N, LONG: 75.25 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 62

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	196	216	156	188	181	412	981	599	303	262	178	278	3950
0.50 - 0.99	1182	1071	1129	1351	1959	2557	2640	2797	1904	1535	1291	1317	20733
1.00 - 1.49	1236	1226	1171	1270	1367	991	605	737	1094	1323	1206	1119	13345
1.50 - 1.99	842	715	905	800	604	270	200	221	523	721	827	918	7546
2.00 - 2.49	490	398	475	357	240	74	31	42	279	320	424	458	3588
2.50 - 2.99	249	231	313	173	84	10	3	36	96	155	194	183	1727
3.00 - 3.49	136	105	143	94	24	5	1	16	50	79	93	82	828
3.50 - 3.99	71	40	64	49	5	1	1	6	22	41	56	42	398
4.00 - 4.49	37	31	52	20	.	.	2	3	13	9	23	22	212
4.50 - 4.99	21	17	31	6	.	.	.	3	10	8	13	15	124
5.00 - 5.49	4	10	10	7	.	.	.	2	11	5	5	11	65
5.50 - 5.99	.	11	9	5	.	.	.	1	7	5	4	8	50
6.00 - 6.49	.	1	1	.	.	.	.	1	5	1	3	7	19
6.50 - 6.99	.	.	1	.	.	.	.	.	2	.	1	1	5
7.00 - 7.49	.	.	1	.	.	.	.	.	.	.	2	2	5
7.50 - 7.99	.	.	1	.	.	.	.	.	.	.	.	1	2
8.00 - 8.49	.	.	1	.	.	.	.	.	1	.	.	.	2
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 62

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	149	135	76	74	115	250	463	245	143	108	160	199	2117
4.0 - 4.9	511	496	377	338	365	538	606	452	318	402	475	578	5456
5.0 - 5.9	589	544	432	411	471	628	675	604	363	441	429	716	6303
6.0 - 6.9	278	338	399	379	465	602	504	630	362	300	332	337	4926
7.0 - 7.9	218	256	335	329	665	564	518	673	695	376	365	201	5195
8.0 - 8.9	262	299	322	359	774	647	784	818	602	551	449	207	6074
9.0 - 9.9	359	364	395	423	600	486	510	434	423	585	491	319	5389
10.0 - 10.9	464	392	499	469	288	245	221	181	342	562	464	394	4521
11.0 - 11.9	417	350	474	490	276	187	105	103	260	406	384	311	3763
12.0 - 12.9	345	252	418	416	180	92	45	95	198	286	181	271	2779
13.0 - 13.9	330	175	325	334	123	47	28	77	191	240	161	331	2362
14.0 - 14.9	240	169	168	161	89	23	3	58	130	96	155	238	1530
15.0 - 15.9	118	107	108	84	36	10	2	37	115	61	94	179	951
16.0 - 16.9	71	72	66	42	12	1	.	20	69	34	77	110	574
17.0 - 17.9	52	38	17	8	5	.	.	17	41	9	34	43	264
18.0 - 18.9	27	36	13	2	.	.	.	8	21	3	31	14	155
19.0 - 19.9	19	30	14	.	.	.	.	2	18	2	23	11	119
20.0 - LONGER	15	19	26	1	.	.	.	10	29	2	15	5	122
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 62

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	86	95	70	30	77	79	63	79	59	59	97	121	915
11.25 - 33.74 (22.5)	48	62	42	36	40	51	68	61	67	50	44	50	619
33.75 - 56.24 (45.0)	124	175	99	106	108	94	55	118	180	201	142	128	1530
56.25 - 78.74 (67.5)	145	160	149	109	115	152	62	148	197	185	154	100	1676
78.75 - 101.24 (90.0)	1294	1104	1432	1537	1179	729	436	791	1282	1676	1272	1353	14085
101.25 - 123.74 (112.5)	838	649	819	659	900	719	911	1078	1196	888	917	735	10309
123.75 - 146.24 (135.0)	568	574	577	686	712	820	957	945	745	537	477	394	7992
146.25 - 168.74 (157.5)	151	107	276	255	385	373	360	343	107	149	199	105	2810
168.75 - 191.24 (180.0)	195	249	319	312	391	420	523	389	140	148	266	231	3583
191.25 - 213.74 (202.5)	134	122	131	159	168	273	320	174	121	83	108	209	2002
213.75 - 236.24 (225.0)	87	146	113	87	151	236	285	147	82	90	88	194	1706
236.25 - 258.74 (247.5)	75	61	57	34	47	120	123	74	14	57	45	104	811
258.75 - 281.24 (270.0)	93	53	38	38	49	73	102	46	14	40	72	95	713
281.25 - 303.74 (292.5)	182	87	91	62	42	63	91	24	28	60	130	175	1035
303.75 - 326.24 (315.0)	237	192	133	104	40	46	77	16	40	119	160	267	1431
326.25 - 348.74 (337.5)	207	236	118	106	60	72	31	31	48	122	149	203	1383
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.75 N, LONG: 75.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 62 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	826	.	.	.	.	.	.	.	.	.	826
1.00 - 1.99	682	186	.	.	.	.	.	.	.	.	868
2.00 - 2.99	.	68	3	.	.	.	.	.	.	.	71
3.00 - 3.99	.	8	3	1	.	.	.	.	.	.	12
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1508	262	6	1	0	0	0	0	0	0	1777

STATION: 62 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	355	330	67	3	.	.	.	.	.	.	755
1.00 - 1.99	118	770	376	12	.	.	.	.	.	.	1276
2.00 - 2.99	.	101	369	26	1	.	.	.	.	.	497
3.00 - 3.99	.	.	71	55	2	.	.	.	.	.	128
4.00 - 4.99	.	.	3	21	2	.	.	.	.	.	26
5.00 - 5.99	.	.	.	2	3	1	.	.	.	.	6
6.00 - 6.99	.	.	.	.	.	1	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	473	1201	886	119	8	2	0	0	0	0	2689

STATION: 62 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	325	516	1504	2460	2285	1367	451	133	49	7	9097
1.00 - 1.99	53	668	1327	1610	1674	1408	599	125	56	8	7528
2.00 - 2.99	.	54	298	311	512	469	224	59	27	.	1954
3.00 - 3.99	.	.	59	168	143	71	48	22	31	.	542
4.00 - 4.99	.	.	1	46	82	41	10	2	4	.	186
5.00 - 5.99	.	.	.	3	24	39	7	.	.	.	73
6.00 - 6.99	.	.	.	.	3	9	4	.	.	.	16
7.00 - 7.99	.	.	.	.	.	6	1	.	.	.	7
8.00 - 8.99	.	.	.	.	1	.	2	.	.	.	3
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	378	1238	3189	4598	4724	3410	1346	341	167	15	19406

STATION: 62 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	199	932	4226	2891	596	86	24	16	8	5	8983
1.00 - 1.99	65	691	1366	1630	809	186	64	33	15	4	4863
2.00 - 2.99	.	71	288	322	275	147	78	10	8	.	1199
3.00 - 3.99	.	.	76	139	75	27	10	12	2	.	341
4.00 - 4.99	.	.	1	34	32	18	3	4	4	.	96
5.00 - 5.99	.	.	.	1	9	12	.	3	10	.	35
6.00 - 6.99	.	.	.	.	.	4	.	.	3	.	7
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	264	1694	5957	5017	1796	480	179	78	50	9	15524

STATION: 62 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	698	1357	154	4	.	.	.	.	.	.	2213
1.00 - 1.99	161	1929	364	10	.	.	.	.	.	.	2464
2.00 - 2.99	.	289	592	63	4	.	.	.	.	.	948
3.00 - 3.99	.	.	94	78	3	.	.	.	.	.	175
4.00 - 4.99	.	.	1	19	7	.	.	.	.	.	27
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	859	3575	1205	175	14	0	0	0	0	0	5828

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.75 N, LONG: 75.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 62 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1052	71	.	.	.	.	.	.	.	.	1123
1.00 - 1.99	194	1578	.	.	.	.	.	.	.	.	1772
2.00 - 2.99	.	219	13	.	.	.	.	.	.	.	232
3.00 - 3.99	.	.	3	.	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1246	1868	16	0	0	0	0	0	0	0	3130

STATION: 62 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	972	.	.	.	.	.	.	.	.	.	972
1.00 - 1.99	341	107	1	.	.	.	.	.	.	.	449
2.00 - 2.99	.	30	2	.	.	.	.	.	.	.	32
3.00 - 3.99	.	1	1	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1313	138	4	0	0	0	0	0	0	0	1455

STATION: 62 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	714	.	.	.	.	.	.	.	.	.	714
1.00 - 1.99	818	853	.	.	.	.	.	.	.	.	1671
2.00 - 2.99	.	381	1	.	.	.	.	.	.	.	382
3.00 - 3.99	.	19	4	.	.	.	.	.	.	.	23
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1532	1253	6	0	0	0	0	0	0	0	2791

STATION: 62 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5141	3206	5951	5358	2881	1453	475	149	57	12	24683
1.00 - 1.99	2432	6782	3434	3262	2483	1594	663	158	71	12	20891
2.00 - 2.99	.	1213	1566	722	792	616	302	69	35	.	5315
3.00 - 3.99	.	28	311	441	223	98	58	34	33	.	1226
4.00 - 4.99	.	.	7	120	123	59	13	6	8	.	336
5.00 - 5.99	.	.	.	7	36	52	7	3	10	.	115
6.00 - 6.99	.	.	.	.	3	14	4	.	3	.	24
7.00 - 7.99	.	.	.	.	.	6	1	.	.	.	7
8.00 - 8.99	.	.	.	.	1	.	2	.	.	.	3
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7573	11229	11269	9910	6542	3892	1525	419	217	24	52600

STATION: 62

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	126	152	198	286	443	534	662	884	568	374	215	172	4614
2.50 - 4.99	1036	1000	1144	1317	1858	2036	2384	2365	2012	1617	1225	1042	19036
5.00 - 7.49	896	819	904	984	1068	1017	947	810	912	941	923	915	11136
7.50 - 9.99	1135	1018	1095	972	784	616	434	353	603	924	1040	1187	10161
10.00 - 12.49	541	496	528	402	230	95	31	33	144	380	472	524	3876
12.50 - 14.99	456	369	374	286	74	21	3	9	64	196	334	407	2593
15.00 - 17.49	157	96	126	56	6	1	1	4	3	17	67	99	633
17.50 - 19.99	106	90	56	15	1	.	2	3	9	11	39	95	427
20.00 - GREATER	11	32	39	2	.	.	.	3	5	4	5	23	124
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 37.75 N, LONG: 75.25 W, DEPTH: 18 M

STATION: 62

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	773	754	799	565	590	472	403	582	637	682	689	784	7730
22.50 - 67.49 (45.0)	459	423	432	344	471	427	287	553	908	800	508	369	5981
67.50 - 112.49 (90.0)	244	285	310	268	310	280	285	425	502	410	356	209	3884
112.50 - 157.49 (135.0)	197	226	372	414	446	322	292	330	345	341	278	215	3778
157.50 - 202.49 (180.0)	426	424	672	725	851	740	649	709	512	479	535	388	7110
202.50 - 247.49 (225.0)	532	565	592	666	897	1117	1297	952	628	577	563	773	9159
247.50 - 292.49 (270.0)	628	450	444	585	435	530	762	554	406	468	580	653	6495
292.50 - 337.49 (315.0)	1205	945	843	753	464	432	489	359	382	707	811	1073	8463
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 62

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.41	1.39	1.34	1.25	1.23	1.14	0.60	1.15	0.92	1.51	1.13	1.27	1.19
1977	1.35	1.18	1.41	1.22	0.80	0.75	0.64	0.70	0.78	1.48	1.81	1.49	1.13
1978	1.69	1.36	1.61	1.40	1.26	0.83	0.65	0.71	1.26	1.16	1.44	1.21	1.21
1979	1.82	1.76	1.71	1.36	1.25	0.82	0.68	0.75	1.52	1.02	1.39	1.48	1.29
1980	1.81	1.40	2.11	1.50	0.95	0.92	0.76	0.96	1.05	1.35	1.60	1.92	1.36
1981	1.25	2.16	1.85	1.48	1.51	0.72	0.90	0.79	1.46	1.39	1.69	1.34	1.37
1982	1.39	1.44	1.08	1.22	0.88	0.95	0.61	0.53	1.02	1.40	1.35	1.25	1.09
1983	1.54	1.71	1.76	1.45	1.17	0.88	0.61	0.63	1.11	1.69	1.34	1.71	1.30
1984	1.56	1.59	1.73	1.27	1.11	0.85	0.86	0.60	1.13	1.25	1.42	1.23	1.22
1985	1.37	1.32	1.32	1.17	0.99	0.71	0.74	0.72	1.17	1.12	1.79	1.16	1.13
1986	1.48	1.31	1.52	1.37	1.26	0.93	0.54	0.94	1.13	1.18	1.24	1.54	1.20
1987	1.72	1.26	1.72	1.73	1.12	0.78	0.62	0.76	0.88	1.07	1.25	1.08	1.16
1988	1.30	1.31	1.20	1.31	1.05	0.93	0.86	0.82	0.93	1.07	1.24	1.10	1.09
1989	1.16	1.32	1.80	1.20	1.08	0.88	0.74	1.06	1.90	1.13	1.46	1.38	1.26
1990	1.15	1.35	1.32	1.32	1.21	1.03	0.95	0.99	1.23	1.39	1.05	1.52	1.21
1991	1.27	1.09	1.36	1.16	0.87	0.85	0.75	0.92	1.16	1.26	1.27	1.23	1.10
1992	1.44	1.17	1.32	1.00	1.11	0.66	0.60	0.65	1.03	0.96	1.06	1.47	1.04
1993	1.52	1.48	1.47	1.67	1.02	0.77	0.60	0.81	0.96	1.11	1.43	1.36	1.18
MEAN	1.46	1.42	1.54	1.34	1.10	0.85	0.71	0.80	1.15	1.25	1.39	1.37	

STATION: 62

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	37 8 4	37 917	36 9 9	36 9 6	29 817	3710 7	20 620	501213	231210	38 9 6	25 622	27 631	501213
1977	36 914	401015	411015	35 818	20 532	221012	19 621	19 621	19 620	37 9 5	45 911	4812 8	4812 8
1978	501017	31 632	431211	591410	381015	25 818	19 712	13 520	301213	37 8 5	28 7 9	35 816	591410
1979	481014	5812 9	541214	421313	27 917	15 616	15 814	15 434	41 915	25 622	401015	3710 8	5812 9
1980	461017	331810	8515 8	43 917	24 816	21 622	19 711	301813	25 8 8	581311	361910	771411	8515 8
1981	301010	271510	5211 9	40 820	33 815	22 6 7	44 913	24 712	361712	27 8 5	7214 9	331610	7214 9
1982	31 917	5612 9	26 7 8	34 818	21 621	331016	15 521	22 811	23 7 4	601210	311310	41 9 4	601210
1983	4411 8	461110	581312	40 916	31 719	22 620	15 532	18 6 3	561213	3911 8	35 817	471111	581312
1984	5112 8	401013	401012	431015	29 719	21 531	25 718	16 5 3	421014	481311	31 818	28 623	5112 8
1985	31 9 8	41 914	31 720	38 819	18 619	19 621	201010	21 7 6	841211	401110	571211	28 631	841211
1986	351410	34 8 9	491017	31 818	291510	21 619	18 621	48 916	261611	3811 9	33 818	631411	631411
1987	5110 5	4611 8	5913 8	3710 7	28 7 3	19 619	16 620	19 618	18 7 9	26 7 4	29 817	30 818	5913 8
1988	461610	32 817	31 917	4911 8	23 814	26 8 5	23 718	22 717	27 719	25 713	35 918	31 818	4911 8
1989	261213	6013 7	4712 8	30 918	38 916	18 619	24 716	311112	611912	25 913	34 917	4811 9	611912
1990	30 917	35 917	331017	34 917	321016	24 818	21 619	271513	241310	43 9 3	28 714	37 915	43 9 3
1991	38 912	27 818	29 719	25 8 6	23 7 7	24 7 5	15 616	611210	501812	29 910	4712 8	25 621	611210
1992	471411	29 8 5	291112	25 718	31 8 7	14 811	16 522	19 619	3810 8	32 8 7	34 818	461012	471411
1993	4511 7	4711 8	551215	4310 8	18 618	17 618	17 618	321314	671313	3811 9	571213	31 819	671313
MAX	5110 5	6013 7	8515 8	591410	38 916	3710 7	44 913	611210	841211	601210	7214 9	771411	

MAX Hmo(m): 8.5 MAX Tp(sec): 15. MAX Dp(deg): 83. DATE(gmt): 80030306

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 335. DATE(gmt): 80030312

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.00 N, LONG: 75.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 63

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	148	167	123	154	144	351	877	543	269	240	178	247	3441
0.50 - 0.99	1102	975	990	1244	1825	2446	2624	2703	1745	1421	1147	1201	19423
1.00 - 1.49	1197	1137	1166	1250	1420	1074	685	814	1183	1354	1183	1082	13545
1.50 - 1.99	826	743	876	803	588	309	210	252	534	656	838	881	7516
2.00 - 2.49	536	478	564	422	323	105	57	74	342	412	479	535	4327
2.50 - 2.99	314	274	344	214	112	28	7	44	124	190	251	259	2161
3.00 - 3.49	174	135	188	133	47	6	1	15	50	108	141	117	1115
3.50 - 3.99	78	71	99	56	5	1	1	8	27	44	46	54	490
4.00 - 4.49	47	41	52	25	.	.	1	5	7	13	27	40	258
4.50 - 4.99	26	22	33	7	.	.	1	3	11	8	12	18	141
5.00 - 5.49	15	15	14	5	.	.	.	1	15	13	5	10	93
5.50 - 5.99	1	10	7	5	.	.	.	.	4	4	7	7	45
6.00 - 6.49	.	4	2	2	.	.	.	1	6	1	2	7	25
6.50 - 6.99	.	.	2	.	.	.	.	1	1	.	1	4	9
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	3	2	5
7.50 - 7.99	.	.	2	.	.	.	.	.	1	.	.	.	3
8.00 - 8.49	.	.	1	.	.	.	.	.	.	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	.	1
9.00 - 9.49	.	.	1	.	.	.	.	.	.	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 63

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	108	95	58	65	67	180	370	195	117	84	100	130	1569
4.0 - 4.9	507	402	312	317	332	507	676	493	302	353	436	543	5180
5.0 - 5.9	650	614	463	458	527	734	758	720	465	544	533	718	7184
6.0 - 6.9	441	520	585	469	634	687	552	680	465	444	482	570	6529
7.0 - 7.9	287	338	384	421	676	574	514	698	666	361	411	292	5622
8.0 - 8.9	255	278	349	333	771	681	766	741	593	560	431	185	5943
9.0 - 9.9	320	358	358	416	562	469	475	394	392	558	431	273	5006
10.0 - 10.9	415	375	453	449	286	224	202	157	325	523	439	384	4229
11.0 - 11.9	393	326	438	449	230	135	85	88	227	366	369	270	3376
12.0 - 12.9	339	227	377	397	144	76	38	83	186	280	174	273	2594
13.0 - 13.9	290	171	308	304	118	31	23	65	178	210	147	304	2149
14.0 - 14.9	226	139	155	138	72	19	3	57	120	87	143	206	1365
15.0 - 15.9	103	79	99	62	32	3	2	34	110	55	77	166	822
16.0 - 16.9	54	58	63	32	10	.	.	20	72	27	65	87	488
17.0 - 17.9	29	31	13	10	3	.	.	19	39	5	21	35	205
18.0 - 18.9	18	27	13	.	.	.	.	8	19	3	26	17	131
19.0 - 19.9	17	17	9	.	.	.	.	3	20	1	21	8	96
20.0 - LONGER	12	17	27	.	.	.	.	9	27	3	14	3	112
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 63

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	260	313	260	138	171	134	113	123	110	170	231	283	2306
11.25 - 33.74 (22.5)	106	163	113	128	109	83	101	123	140	130	103	150	1449
33.75 - 56.24 (45.0)	95	118	108	83	104	94	65	122	200	180	114	74	1357
56.25 - 78.74 (67.5)	246	248	247	138	254	338	107	233	305	309	212	178	2815
78.75 - 101.24 (90.0)	1075	894	1215	1377	969	525	390	747	1103	1445	1130	1162	12032
101.25 - 123.74 (112.5)	675	551	673	589	785	626	809	914	1039	789	773	597	8820
123.75 - 146.24 (135.0)	595	552	574	694	719	775	907	909	747	530	478	416	7896
146.25 - 168.74 (157.5)	135	121	252	242	392	421	434	384	133	163	199	96	2972
168.75 - 191.24 (180.0)	159	200	282	257	326	349	424	334	156	135	202	162	2986
191.25 - 213.74 (202.5)	167	155	171	195	240	315	366	213	146	116	173	289	2546
213.75 - 236.24 (225.0)	104	140	140	119	153	253	302	156	83	78	108	191	1827
236.25 - 258.74 (247.5)	72	73	51	33	46	139	125	82	15	63	47	106	852
258.75 - 281.24 (270.0)	84	43	27	38	50	67	93	39	16	42	61	89	649
281.25 - 303.74 (292.5)	168	71	67	49	33	50	74	25	26	43	114	129	849
303.75 - 326.24 (315.0)	274	195	143	123	48	61	96	21	40	125	175	296	1597
326.25 - 348.74 (337.5)	249	235	141	117	65	90	58	39	61	146	200	246	1647
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.00 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 63 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	674	170									844
1.00 - 1.99	204	1610	1								1815
2.00 - 2.99		655	288								943
3.00 - 3.99		1	168	1							170
4.00 - 4.99			21	4							25
5.00 - 5.99				4							4
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	878	2436	478	9	0	0	0	0	0	0	3801

STATION: 63 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	355	380	95	23							853
1.00 - 1.99	74	887	187	34							1182
2.00 - 2.99		149	458	27	2						636
3.00 - 3.99			116	92	2						210
4.00 - 4.99			8	37	28	2					75
5.00 - 5.99				2	10	2					14
6.00 - 6.99						3					3
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	429	1416	864	215	42	7	0	0	0	0	2973

STATION: 63 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	309	557	1451	2189	1912	1169	348	99	40	6	8080
1.00 - 1.99	53	705	1366	1538	1545	1236	510	101	51	5	7110
2.00 - 2.99		58	306	258	499	440	203	59	23		1846
3.00 - 3.99			61	178	166	115	64	15	25		624
4.00 - 4.99				50	78	29	16	1			174
5.00 - 5.99				1	25	46	8				80
6.00 - 6.99					4	13	7				24
7.00 - 7.99						6	1				7
8.00 - 8.99					1		1				2
9.00 - GREATER							1				1
TOTAL	362	1320	3184	4214	4230	3054	1159	275	139	11	17948

STATION: 63 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	198	889	4061	2497	501	70	15	13	8	4	8256
1.00 - 1.99	64	684	1340	1672	783	169	43	19	14	4	4792
2.00 - 2.99		76	290	318	293	146	81	9	8		1221
3.00 - 3.99			73	142	76	31	11	12	3		348
4.00 - 4.99				36	30	19	1	3	4		93
5.00 - 5.99				2	9	14		5	9		39
6.00 - 6.99						3			4		7
7.00 - 7.99						1					1
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	262	1649	5764	4667	1692	453	151	61	50	8	14757

STATION: 63 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	720	1237	52								2009
1.00 - 1.99	170	1757	277								2204
2.00 - 2.99		187	630	31							848
3.00 - 3.99			85	74	1						160
4.00 - 4.99			1	24	4						29
5.00 - 5.99					1						1
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	890	3181	1045	129	6	0	0	0	0	0	5251

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.00 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 63 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	914	215	.	.	.	.	.	.	.	.	1129
1.00 - 1.99	172	1626	22	.	.	.	.	.	.	.	1820
2.00 - 2.99	.	440	139	.	.	.	.	.	.	.	579
3.00 - 3.99	.	.	58	1	.	.	.	.	.	.	59
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1086	2281	221	1	0	0	0	0	0	0	3589

STATION: 63 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	896	6	.	.	.	.	.	.	.	.	902
1.00 - 1.99	320	92	.	.	.	.	.	.	.	.	412
2.00 - 2.99	.	20	3	.	.	.	.	.	.	.	23
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1216	118	3	0	0	0	0	0	0	0	1337

STATION: 63 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	790	1	.	.	.	.	.	.	.	.	791
1.00 - 1.99	836	890	.	.	.	.	.	.	.	.	1726
2.00 - 2.99	.	392	.	.	.	.	.	.	.	.	392
3.00 - 3.99	.	29	5	.	.	.	.	.	.	.	34
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1626	1312	6	0	0	0	0	0	0	0	2944

STATION: 63 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4856	3455	5659	4709	2413	1239	363	112	48	10	22864
1.00 - 1.99	1893	8251	3193	3244	2328	1405	553	120	65	9	21061
2.00 - 2.99	.	1977	2114	634	794	586	284	68	31	.	6488
3.00 - 3.99	.	30	566	488	245	146	75	27	28	.	1605
4.00 - 4.99	.	.	33	151	140	50	17	4	4	.	399
5.00 - 5.99	.	.	.	9	45	62	8	5	9	.	138
6.00 - 6.99	.	.	.	.	4	19	7	.	4	.	34
7.00 - 7.99	.	.	.	.	.	7	1	.	.	.	8
8.00 - 8.99	.	.	.	.	1	.	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	1	.	.	.	1
TOTAL	6749	13713	11565	9235	5970	3514	1310	336	189	19	52600

STATION: 63

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	150	178	217	321	472	575	694	888	586	398	232	183	4894
2.50 - 4.99	1006	955	1112	1274	1796	1972	2326	2307	1984	1572	1173	1016	18493
5.00 - 7.49	865	798	875	943	1035	995	941	835	879	926	913	906	10911
7.50 - 9.99	1106	1013	1099	976	824	640	449	363	628	909	1046	1165	10218
10.00 - 12.49	553	501	527	422	233	113	47	50	156	401	477	522	4002
12.50 - 14.99	493	382	383	291	94	22	3	12	68	219	350	427	2744
15.00 - 17.49	166	103	142	70	9	3	1	4	6	22	77	124	727
17.50 - 19.99	104	105	65	21	1	.	2	2	5	12	41	88	446
20.00 - GREATER	21	37	44	2	.	.	1	3	8	5	11	33	165
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.00 N, LONG: 75.00 W, DEPTH: 18 M

STATION: 63

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	749	785	789	561	584	477	433	595	661	679	684	793	7790
22.50 - 67.49	(45.0)	454	397	422	354	469	387	262	535	856	790	499	355	5780
67.50 - 112.49	(90.0)	247	287	309	260	311	279	283	414	501	400	342	201	3834
112.50 - 157.49	(135.0)	186	222	376	432	444	310	291	325	342	321	275	216	3740
157.50 - 202.49	(180.0)	429	427	662	724	853	773	666	707	514	498	535	392	7180
202.50 - 247.49	(225.0)	534	552	589	646	874	1093	1284	958	633	583	565	755	9066
247.50 - 292.49	(270.0)	618	454	440	552	449	536	741	541	407	473	574	659	6444
292.50 - 337.49	(315.0)	1247	948	877	791	480	465	504	389	406	720	846	1093	8766
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 63

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.51	1.47	1.39	1.32	1.26	1.16	0.64	1.19	0.94	1.64	1.26	1.31	1.26
1977	1.42	1.25	1.47	1.28	0.84	0.80	0.69	0.72	0.82	1.51	1.85	1.55	1.18
1978	1.74	1.49	1.71	1.45	1.32	0.90	0.71	0.74	1.31	1.24	1.49	1.28	1.28
1979	1.85	1.83	1.78	1.41	1.28	0.86	0.72	0.81	1.56	1.08	1.47	1.61	1.35
1980	1.98	1.61	2.22	1.55	1.02	0.96	0.79	1.06	1.09	1.41	1.65	2.06	1.45
1981	1.43	2.26	1.92	1.60	1.66	0.77	0.96	0.85	1.52	1.45	1.80	1.44	1.47
1982	1.49	1.54	1.13	1.30	0.98	1.02	0.63	0.57	1.07	1.46	1.40	1.37	1.16
1983	1.62	1.83	1.87	1.49	1.22	0.90	0.64	0.66	1.15	1.75	1.38	1.80	1.36
1984	1.65	1.64	1.89	1.32	1.20	0.90	0.91	0.65	1.15	1.32	1.58	1.28	1.29
1985	1.47	1.45	1.47	1.24	1.06	0.76	0.77	0.76	1.23	1.14	1.80	1.28	1.20
1986	1.64	1.44	1.64	1.52	1.33	0.99	0.55	0.96	1.18	1.26	1.33	1.64	1.29
1987	1.79	1.45	1.86	1.82	1.16	0.81	0.63	0.80	0.92	1.14	1.31	1.11	1.23
1988	1.37	1.42	1.27	1.40	1.11	0.99	0.87	0.83	0.98	1.18	1.27	1.22	1.16
1989	1.24	1.43	1.91	1.27	1.16	0.89	0.76	1.09	1.96	1.19	1.55	1.52	1.33
1990	1.17	1.44	1.37	1.37	1.25	1.10	0.98	1.03	1.30	1.46	1.17	1.62	1.27
1991	1.35	1.17	1.51	1.26	0.89	0.88	0.77	0.96	1.23	1.36	1.39	1.34	1.18
1992	1.51	1.27	1.43	1.05	1.18	0.69	0.63	0.66	1.11	1.02	1.10	1.59	1.10
1993	1.63	1.65	1.53	1.78	1.05	0.80	0.63	0.84	1.03	1.19	1.50	1.51	1.26
MEAN	1.55	1.54	1.63	1.41	1.16	0.90	0.74	0.84	1.20	1.32	1.46	1.47	

STATION: 63

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	40 8 1	38 918	39 9 9	371510	30 817	3710 7	22 623	531112	2312 9	37 9 6	29 735	27 632	531112
1977	37 914	401014	401015	35 918	24 735	32 8 1	22 622	22 623	22 622	36 9 6	45 910	5012 6	5012 6
1978	491115	38 8 0	441211	611410	381015	26 819	22 6 2	51 6 1	29 8 5	37 8 5	29 7 8	36 815	611410
1979	501013	6113 8	541214	431313	28 818	19 6 2	17 635	23 635	40 914	27 720	401115	44 9 3	6113 8
1980	5512 9	47 936	9015 8	43 917	26 815	25 719	22 621	311814	24 8 8	611311	36 723	731410	9015 8
1981	39 835	591510	5111 8	411018	33 815	24 721	45 913	26 712	371713	27 8 5	7314 9	401610	7314 9
1982	33 8 4	5812 8	28 736	35 918	25 720	29 813	16 621	29 7 5	251210	591210	321410	4210 7	591210
1983	4511 7	471110	571312	41 916	34 820	23 621	17 533	19 7 4	551213	411111	35 818	481210	571312
1984	5012 7	401013	411012	451015	30 818	27 7 0	27 721	19 6 2	361014	531411	32 818	29 721	531411
1985	33 9 7	421013	33 723	42 919	26 7 2	21 623	21 622	22 7 6	881211	4010 9	571311	36 8 1	881211
1986	3514 9	37 8 1	481019	3614 8	3113 8	25 622	20 623	401014	271611	3811 8	33 818	651411	651411
1987	5411 4	511036	6013 7	3910 6	30 8 5	20 619	15 621	20 625	17 8 7	26 7 5	36 9 4	36 8 1	6013 7
1988	491610	3212 9	31 917	4811 8	26 7 3	26 8 5	23 719	23 718	28 720	33 8 3	35 919	32 819	491610
1989	31 735	6213 5	4711 6	31 918	39 916	18 618	25 715	341112	631912	2614 9	35 917	4611 7	631912
1990	30 918	33 917	33 810	34 918	32 917	26 818	22 619	271513	2913 9	5111 3	29 7 0	37 915	5111 3
1991	38 911	27 819	31 7 1	31 736	24 7 7	25 7 5	16 617	651311	531813	3515 9	4511 7	28 736	651311
1992	511411	28 8 5	501112	26 718	31 9 7	16 534	16 521	20 619	3910 7	33 8 6	33 818	461012	511411
1993	4611 6	4710 5	531215	4310 9	20 621	17 618	18 619	291314	641414	4011 8	581213	4210 5	641414
MAX	5512 9	6213 5	9015 8	611410	39 916	3710 7	45 913	651311	881211	611311	7314 9	731410	

MAX Hmo(m): 9.0 MAX Tp(sec): 15. MAX Dp(deg): 79. DATE(gmt): 80030309

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 335. DATE(gmt): 80030312

MEAN Hmo(m): 1.3 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.25 N, LONG: 75.00 W, DEPTH: 16 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 64

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	168	189	146	205	192	417	1007	634	301	255	205	298	4017
0.50 - 0.99	1183	1058	1053	1285	1929	2571	2637	2743	1789	1493	1215	1261	20217
1.00 - 1.49	1192	1171	1165	1239	1359	959	600	725	1141	1336	1198	1090	13175
1.50 - 1.99	832	772	949	790	579	280	187	231	525	685	837	900	7567
2.00 - 2.49	521	434	524	421	287	69	27	61	310	369	458	478	3959
2.50 - 2.99	288	205	289	194	91	20	3	37	135	158	198	222	1840
3.00 - 3.49	135	106	154	115	22	4	1	12	50	98	119	92	908
3.50 - 3.99	69	60	87	42	5	.	.	8	22	32	43	50	418
4.00 - 4.49	40	34	58	15	.	.	2	6	7	12	23	32	229
4.50 - 4.99	24	19	20	5	.	.	.	3	9	7	5	13	105
5.00 - 5.49	11	10	9	6	.	.	.	3	9	12	10	11	81
5.50 - 5.99	1	9	5	1	.	.	.	.	11	5	5	5	42
6.00 - 6.49	.	5	.	2	.	.	.	.	5	2	2	5	21
6.50 - 6.99	.	.	2	.	.	.	.	1	4	.	1	6	14
7.00 - 7.49	.	.	1	.	.	.	.	.	.	.	1	1	3
7.50 - 7.99	.	.	2	.	.	.	.	.	.	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	2	.	.	.	2
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 64

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	139	123	81	87	96	302	475	265	162	104	136	163	2133
4.0 - 4.9	586	495	359	375	380	572	670	450	318	413	492	665	5775
5.0 - 5.9	638	618	516	468	467	582	624	633	450	480	521	672	6669
6.0 - 6.9	429	473	507	404	559	607	521	599	418	391	443	515	5866
7.0 - 7.9	239	285	348	377	643	544	463	686	586	359	338	229	5097
8.0 - 8.9	249	262	333	340	791	726	806	796	625	576	424	189	6117
9.0 - 9.9	301	371	366	438	639	538	558	472	452	587	455	284	5461
10.0 - 10.9	455	391	472	546	333	262	217	188	350	595	504	389	4702
11.0 - 11.9	440	359	459	469	227	101	88	77	227	373	387	325	3532
12.0 - 12.9	349	269	414	414	136	47	27	93	176	262	198	295	2680
13.0 - 13.9	277	149	280	241	103	17	9	63	160	184	128	299	1910
14.0 - 14.9	188	120	151	83	54	16	4	57	107	65	115	191	1151
15.0 - 15.9	82	55	76	47	30	6	2	24	109	41	62	123	657
16.0 - 16.9	36	28	49	20	4	.	.	20	67	17	51	86	378
17.0 - 17.9	21	32	8	10	2	.	.	18	42	10	10	24	177
18.0 - 18.9	14	16	11	1	.	.	.	11	22	2	21	9	107
19.0 - 19.9	9	12	7	.	.	.	.	2	18	3	22	5	78
20.0 - LONGER	12	14	27	.	.	.	.	10	31	2	13	1	110
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 64

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	226	277	230	130	168	130	124	110	114	157	224	259	2149
11.25 - 33.74 (22.5)	81	158	111	102	78	72	74	110	125	104	92	125	1232
33.75 - 56.24 (45.0)	92	98	91	77	98	93	58	104	191	183	107	71	1263
56.25 - 78.74 (67.5)	343	344	390	364	412	410	130	290	362	413	263	258	3979
78.75 - 101.24 (90.0)	1032	845	1212	1229	968	528	389	833	1230	1462	1177	1171	12076
101.25 - 123.74 (112.5)	899	716	740	739	918	823	1200	1198	1158	906	822	626	10745
123.75 - 146.24 (135.0)	355	396	482	551	599	634	671	641	493	350	418	333	5923
146.25 - 168.74 (157.5)	87	92	175	178	298	305	290	297	100	136	116	78	2152
168.75 - 191.24 (180.0)	207	225	322	322	380	440	534	388	180	154	263	246	3661
191.25 - 213.74 (202.5)	162	173	186	181	221	307	352	199	137	114	159	293	2484
213.75 - 236.24 (225.0)	58	80	53	46	71	150	188	84	50	43	50	100	973
236.25 - 258.74 (247.5)	63	46	38	22	23	103	106	75	17	55	38	73	659
258.75 - 281.24 (270.0)	97	48	34	44	55	87	89	48	18	47	75	100	742
281.25 - 303.74 (292.5)	189	80	67	58	42	70	84	22	30	62	120	145	969
303.75 - 326.24 (315.0)	296	219	158	140	51	68	107	21	47	132	193	301	1733
326.25 - 348.74 (337.5)	277	275	175	137	82	100	68	44	68	146	203	285	1860
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.25 N, LONG: 75.00 W, DEPTH: 16 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 64 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	797	97									894
1.00 - 1.99	230	1725	1								1956
2.00 - 2.99	.	680	103								783
3.00 - 3.99	.	.	74								74
4.00 - 4.99	.	.	6	4							10
5.00 - 5.99	.	.	.								0
6.00 - 6.99	.	.	.								0
7.00 - 7.99	.	.	.								0
8.00 - 8.99	.	.	.								0
9.00 - GREATER	.	.	.								0
TOTAL	1027	2502	184	4	0	0	0	0	0	0	3717

STATION: 64 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	377	340	103	19	.	.	.	.	.	.	839
1.00 - 1.99	72	856	162	25	.	.	.	.	.	.	1115
2.00 - 2.99	.	159	333	51	3	.	.	.	.	.	546
3.00 - 3.99	.	.	85	70	12	.	.	.	.	.	167
4.00 - 4.99	.	.	1	24	20	3	.	.	.	.	48
5.00 - 5.99	.	.	.	.	6	3	.	.	.	.	9
6.00 - 6.99	.	.	.	.	.	2	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	2	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	449	1355	684	189	41	10	0	0	0	0	2728

STATION: 64 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	315	539	2277	3432	2127	1024	275	83	44	7	10123
1.00 - 1.99	44	689	1610	2152	1805	1034	365	93	52	4	7848
2.00 - 2.99	.	58	310	357	657	449	187	49	25	.	2092
3.00 - 3.99	.	.	53	225	219	96	65	6	.	.	664
4.00 - 4.99	.	.	.	38	106	32	16	3	.	.	195
5.00 - 5.99	.	.	.	.	29	43	11	1	.	.	84
6.00 - 6.99	.	.	.	1	.	16	8	1	2	.	28
7.00 - 7.99	.	.	.	.	.	2	1	.	.	.	3
8.00 - 8.99	.	.	.	.	1	1	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	359	1286	4250	6205	4944	2697	928	236	123	11	21039

STATION: 64 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	246	788	3455	2052	378	59	12	11	8	6	7015
1.00 - 1.99	68	669	997	1194	545	139	36	14	9	3	3674
2.00 - 2.99	.	65	276	249	214	117	49	5	10	.	985
3.00 - 3.99	.	.	61	117	58	18	10	10	2	.	276
4.00 - 4.99	.	.	.	24	20	10	.	4	3	.	61
5.00 - 5.99	.	.	.	1	6	10	.	4	9	.	30
6.00 - 6.99	.	.	.	.	.	1	.	.	4	.	5
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	314	1522	4789	3637	1221	354	107	48	45	9	12046

STATION: 64 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	835	1417	59		.	.	.	.	.	.	2311
1.00 - 1.99	251	2135	404	2	1	.	.	.	.	.	2792
2.00 - 2.99	.	184	703	40	1	.	.	.	.	.	928
3.00 - 3.99	.	.	55	71	1	.	.	.	.	.	127
4.00 - 4.99	.	.	.	15	4	.	.	.	.	.	19
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1086	3736	1221	128	6	0	0	0	0	0	6177

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.25 N, LONG: 75.00 W, DEPTH: 16 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 64 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	894	163	.	.	.	.	.	.	.	.	1057
1.00 - 1.99	523	494	36	.	.	.	.	.	.	.	1053
2.00 - 2.99	.	13	43	.	.	.	.	.	.	.	56
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1417	670	79	0	0	0	0	0	0	0	2166

STATION: 64 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1081	1	.	.	.	.	.	.	.	.	1082
1.00 - 1.99	334	88	.	.	.	.	.	.	.	.	422
2.00 - 2.99	.	14	1	.	.	.	.	.	.	.	15
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1415	103	1	0	0	0	0	0	0	0	1519

STATION: 64 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	912	1	.	.	.	.	.	.	.	.	913
1.00 - 1.99	929	953	.	.	.	.	.	.	.	.	1882
2.00 - 2.99	.	394	.	.	.	.	.	.	.	.	394
3.00 - 3.99	.	13	5	.	.	.	.	.	.	.	18
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1841	1361	6	0	0	0	0	0	0	0	3208

STATION: 64 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5457	3346	5894	5503	2505	1083	287	94	52	13	24234
1.00 - 1.99	2451	7609	3210	3373	2350	1173	401	107	61	7	20742
2.00 - 2.99	.	1567	1769	697	875	566	236	54	35	.	5799
3.00 - 3.99	.	13	333	483	290	114	75	16	2	.	1326
4.00 - 4.99	.	.	8	105	150	45	16	7	3	.	334
5.00 - 5.99	.	.	.	1	41	56	11	5	9	.	123
6.00 - 6.99	.	.	.	1	.	19	8	1	6	.	35
7.00 - 7.99	.	.	.	.	.	4	1	.	.	.	5
8.00 - 8.99	.	.	.	.	1	1	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7908	12535	11214	10163	6212	3061	1035	284	168	20	52600

STATION: 64

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	126	154	186	306	451	546	679	872	538	376	209	161	4604
2.50 - 4.99	1033	965	1109	1276	1828	2030	2383	2359	2050	1571	1186	1035	18825
5.00 - 7.49	877	807	902	958	1040	1007	926	815	912	992	928	918	11082
7.50 - 9.99	1111	1054	1127	997	832	613	433	359	604	916	1046	1180	10272
10.00 - 12.49	557	472	523	413	218	101	37	39	140	382	491	522	3895
12.50 - 14.99	464	381	374	296	87	20	3	13	61	192	343	412	2646
15.00 - 17.49	172	103	140	56	8	3	1	2	5	21	70	124	705
17.50 - 19.99	103	101	64	16	.	.	2	4	6	11	41	85	433
20.00 - GREATER	21	35	39	2	.	.	.	1	4	3	6	27	138
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.25 N, LONG: 75.00 W, DEPTH: 16 M

STATION: 64

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	706	766	784	565	593	473	433	592	680	668	651	762	7673
22.50 - 67.49 (45.0)	424	381	414	341	452	370	247	508	785	739	451	318	5430
67.50 - 112.49 (90.0)	245	284	309	254	303	265	261	427	501	399	350	209	3807
112.50 - 157.49 (135.0)	193	235	377	448	438	287	310	324	349	322	281	221	3785
157.50 - 202.49 (180.0)	449	428	658	738	867	816	672	702	516	521	544	408	7319
202.50 - 247.49 (225.0)	537	548	581	618	850	1039	1244	942	639	579	565	754	8896
247.50 - 292.49 (270.0)	619	460	436	552	459	569	749	553	425	507	597	666	6592
292.50 - 337.49 (315.0)	1291	970	905	804	502	501	548	416	425	729	881	1126	9098
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 64

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.47	1.38	1.35	1.29	1.20	1.09	0.61	1.18	0.93	1.60	1.19	1.22	1.21
1977	1.36	1.20	1.40	1.23	0.81	0.79	0.65	0.67	0.81	1.47	1.84	1.49	1.14
1978	1.74	1.35	1.64	1.40	1.30	0.88	0.69	0.72	1.29	1.20	1.46	1.21	1.24
1979	1.80	1.75	1.76	1.38	1.22	0.83	0.69	0.79	1.53	1.02	1.41	1.55	1.31
1980	1.82	1.43	2.01	1.49	0.95	0.87	0.73	1.00	1.09	1.38	1.44	1.95	1.35
1981	1.36	2.21	1.70	1.47	1.59	0.72	0.94	0.81	1.53	1.38	1.67	1.36	1.39
1982	1.39	1.46	1.09	1.23	0.95	0.97	0.59	0.53	1.02	1.37	1.36	1.27	1.10
1983	1.58	1.71	1.82	1.43	1.18	0.85	0.62	0.63	1.10	1.69	1.34	1.75	1.31
1984	1.59	1.61	1.87	1.26	1.14	0.87	0.82	0.63	1.09	1.31	1.51	1.28	1.25
1985	1.39	1.39	1.38	1.18	1.00	0.70	0.72	0.73	1.18	1.08	1.72	1.19	1.14
1986	1.60	1.36	1.55	1.46	1.21	0.91	0.52	0.86	1.18	1.20	1.30	1.59	1.23
1987	1.69	1.37	1.73	1.77	1.12	0.77	0.60	0.78	0.89	1.14	1.28	1.06	1.18
1988	1.33	1.39	1.22	1.33	1.07	0.94	0.81	0.79	0.97	1.15	1.21	1.12	1.11
1989	1.19	1.35	1.83	1.21	1.15	0.85	0.73	1.08	2.00	1.16	1.50	1.40	1.29
1990	1.13	1.36	1.33	1.35	1.20	1.06	0.94	1.04	1.32	1.46	1.13	1.59	1.24
1991	1.31	1.13	1.45	1.23	0.86	0.84	0.74	0.93	1.23	1.31	1.33	1.28	1.14
1992	1.49	1.24	1.42	1.01	1.14	0.66	0.58	0.63	1.08	0.97	1.06	1.51	1.07
1993	1.54	1.57	1.49	1.71	1.00	0.75	0.61	0.81	0.99	1.14	1.46	1.49	1.21
MEAN	1.49	1.46	1.56	1.36	1.11	0.85	0.70	0.81	1.18	1.28	1.40	1.41	

STATION: 64

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	36 7 1	37 919	3810 9	3715 9	29 816	34 9 5	19 718	521112	2412 9	331411	2711 9	27 632	521112
1977	37 913	40 914	401015	34 918	25 735	30 735	19 6 2	19 619	19 621	35 9 6	44 910	4712 6	4712 6
1978	471017	3610 7	431210	611410	381015	26 818	22 712	19 6 2	281214	35 8 5	28 8 9	35 814	611410
1979	501013	6013 8	531213	421313	27 718	18 6 3	16 635	20 6 0	38 914	23 719	381115	40 835	6013 8
1980	5312 8	4510 7	7915 8	41 917	26 815	21 719	17 711	301713	2514 10	631410	3211 10	701310	7915 8
1981	361010	6015 9	48 935	36 919	32 815	20 6 8	41 912	24 7 9	391712	2611 9	7113 8	4116 9	7113 8
1982	331010	5712 8	24 635	33 819	22 6 0	26 914	14 619	25 6 1	2612 9	5711 8	351510	40 9 5	5711 8
1983	4311 7	4610 8	541311	38 915	31 819	21 620	16 534	18 7 4	521113	411110	33 732	481210	541311
1984	4911 7	391012	421011	431014	28 819	25 635	23 720	18 6 3	33 913	581410	30 816	26 719	581410
1985	31 9 7	421012	291012	37 918	23 6 0	18 6 2	2010 9	21 6 5	821411	3810 9	551311	31 736	821411
1986	3414 9	36 9 8	481019	35 9 4	28 7 4	22 810	15 620	371015	3116 10	3611 8	32 818	681510	681510
1987	5111 4	46 936	5713 7	3810 6	29 8 5	19 619	14 620	18 620	18 8 7	24 7 6	35 9 5	30 735	5713 7
1988	5016 9	3413 9	29 818	4611 8	27 7 3	25 9 7	23 619	22 718	26 719	31 8 4	33 917	28 819	5016 9
1989	29 735	6213 6	4511 7	30 819	38 916	18 618	25 715	361111	691912	2614 9	33 917	4310 8	691912
1990	28 917	32 917	32 9 9	33 918	30 917	25 818	21 619	281612	2813 9	4911 4	26 714	36 915	4911 4
1991	38 910	27 719	29 819	30 9 3	24 7 7	25 7 5	16 617	651310	591812	33 8 7	4311 7	23 635	651310
1992	551410	2610 8	311111	25 718	30 9 8	15 810	14 519	19 619	3810 7	31 8 6	31 818	441012	551410
1993	4412 7	4410 6	491214	401016	19 618	17 618	17 618	271314	601313	3911 8	561212	4110 5	601313
MAX	551410	6213 6	7915 8	611410	38 916	34 9 5	41 912	651310	821411	631410	7113 8	701310	

MAX Hmo(m): 8.2 MAX Tp(sec): 14. MAX Dp(deg): 112. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 335. DATE(gmt): 80030312

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.50 N, LONG: 75.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 65

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	213	226	184	270	272	577	1222	835	389	310	256	344	5098
0.50 - 0.99	1285	1154	1123	1386	2079	2579	2547	2669	1879	1634	1279	1313	20927
1.00 - 1.49	1216	1220	1289	1293	1286	881	523	675	1130	1322	1281	1219	13335
1.50 - 1.99	813	736	889	685	524	215	152	172	489	630	783	849	6937
2.00 - 2.49	472	364	461	373	219	53	15	63	243	303	378	403	3347
2.50 - 2.99	235	165	219	156	56	14	2	24	97	147	171	159	1445
3.00 - 3.49	110	89	141	97	19	1	1	10	36	59	101	78	742
3.50 - 3.99	59	49	63	37	7	.	2	6	17	28	37	39	344
4.00 - 4.49	37	29	60	10	2	.	.	6	7	8	16	23	198
4.50 - 4.99	20	19	16	3	.	.	.	2	13	9	5	16	103
5.00 - 5.49	4	9	10	8	.	.	.	1	11	11	8	9	71
5.50 - 5.99	.	8	4	2	.	.	.	.	4	3	5	6	32
6.00 - 6.49	.	4	2	.	.	.	.	1	3	.	.	6	16
6.50 - 6.99	.	.	2	.	.	.	.	.	.	.	.	.	2
7.00 - 7.49	.	.	1	.	.	.	.	.	1	.	.	.	1
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 65

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	169	167	98	135	147	396	611	376	206	146	164	209	2824
4.0 - 4.9	711	661	540	499	583	740	813	602	469	560	637	864	7679
5.0 - 5.9	694	702	611	518	452	526	496	537	411	472	587	725	6731
6.0 - 6.9	339	346	396	323	462	483	394	500	363	296	355	343	4600
7.0 - 7.9	205	227	271	344	631	523	494	730	587	354	287	169	4822
8.0 - 8.9	256	249	329	346	800	750	840	792	623	582	422	180	6169
9.0 - 9.9	301	341	338	473	596	530	528	415	422	572	439	292	5247
10.0 - 10.9	446	388	442	514	308	219	178	159	315	553	486	357	4365
11.0 - 11.9	399	300	428	403	190	87	80	68	216	359	332	314	3176
12.0 - 12.9	314	235	385	358	113	30	14	77	159	251	182	277	2395
13.0 - 13.9	255	143	281	219	79	14	11	59	157	166	113	292	1789
14.0 - 14.9	173	105	129	90	46	15	3	53	110	74	112	167	1077
15.0 - 15.9	81	49	81	63	40	7	2	35	93	43	55	137	686
16.0 - 16.9	46	46	68	30	15	.	.	21	75	18	61	81	461
17.0 - 17.9	25	39	9	3	2	.	.	19	44	13	21	32	207
18.0 - 18.9	18	29	12	2	.	.	.	10	23	2	21	12	129
19.0 - 19.9	16	18	19	.	.	.	.	2	21	2	30	6	114
20.0 - LONGER	16	27	27	.	.	.	.	9	26	1	16	7	129
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 65

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	193	260	217	140	151	120	121	128	126	139	170	226	1991
11.25 - 33.74 (22.5)	75	104	81	80	73	77	64	94	110	96	93	87	1034
33.75 - 56.24 (45.0)	74	98	67	63	84	71	41	79	156	147	93	62	1035
56.25 - 78.74 (67.5)	209	187	219	141	208	250	65	208	269	249	168	113	2286
78.75 - 101.24 (90.0)	1066	895	1287	1301	1060	628	407	851	1162	1535	1146	1201	12539
101.25 - 123.74 (112.5)	982	815	824	848	1004	862	1270	1309	1342	1007	944	743	11950
123.75 - 146.24 (135.0)	359	367	502	597	679	736	746	628	472	358	390	323	6157
146.25 - 168.74 (157.5)	87	95	154	152	247	258	237	282	93	118	123	75	1921
168.75 - 191.24 (180.0)	187	200	269	264	304	343	403	309	165	129	201	184	2958
191.25 - 213.74 (202.5)	140	151	183	182	216	292	318	191	147	107	160	239	2326
213.75 - 236.24 (225.0)	70	108	70	68	104	161	254	112	54	79	75	155	1310
236.25 - 258.74 (247.5)	80	71	56	38	44	126	116	99	31	64	61	116	902
258.75 - 281.24 (270.0)	105	60	41	51	56	105	100	49	30	55	97	121	870
281.25 - 303.74 (292.5)	212	101	85	87	54	88	105	34	36	79	149	164	1194
303.75 - 326.24 (315.0)	327	251	199	148	68	84	118	32	62	151	216	353	2009
326.25 - 348.74 (337.5)	298	309	210	160	112	119	99	59	65	151	234	302	2118
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.50 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 65 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	981										981
1.00 - 1.99	640	1567	1								2208
2.00 - 2.99		386	11								397
3.00 - 3.99		8	28								36
4.00 - 4.99			5								5
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1621	1961	45	0	0	0	0	0	0	0	3627

STATION: 65 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	418	278	59	1							756
1.00 - 1.99	88	755	78	3							924
2.00 - 2.99		138	271	19							428
3.00 - 3.99			62	49	1						112
4.00 - 4.99			1	18	5						24
5.00 - 5.99				2	6						8
6.00 - 6.99					1						1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	506	1171	471	92	13	0	0	0	0	0	2253

STATION: 65 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	385	656	2409	3185	1942	1040	413	137	66	8	10241
1.00 - 1.99	43	760	1548	1735	1521	975	380	99	66	6	7133
2.00 - 2.99		65	326	357	550	333	176	34	42	2	1885
3.00 - 3.99			74	217	138	70	46	4			549
4.00 - 4.99			1	64	81	38	7	3			194
5.00 - 5.99				5	23	30	10	1			69
6.00 - 6.99				1	2	10	2				15
7.00 - 7.99						2					2
8.00 - 8.99					1						1
9.00 - GREATER											0
TOTAL	428	1481	4358	5564	4258	2498	1034	278	174	16	20089

STATION: 65 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	353	909	3974	2360	442	74	21	13	11	5	8162
1.00 - 1.99	71	711	921	1148	581	154	43	23	9	2	3663
2.00 - 2.99		73	286	227	200	110	44	8	7		955
3.00 - 3.99			76	111	48	16	5	9	3		268
4.00 - 4.99			2	28	19	7		3	5		64
5.00 - 5.99					8	7		2	9		26
6.00 - 6.99									2		2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	424	1693	5259	3874	1298	368	113	58	46	7	13140

STATION: 65 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1099	941	37								2077
1.00 - 1.99	315	1831	285	1							2432
2.00 - 2.99		163	445	26							634
3.00 - 3.99			53	44							97
4.00 - 4.99				11	2						13
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1414	2935	820	82	2	0	0	0	0	0	5253

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.50 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 65 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1281	40	1	.	.	.	.	.	.	.	1322
1.00 - 1.99	842	373	19	.	.	.	.	.	.	.	1234
2.00 - 2.99	.	66	12	.	.	.	.	.	.	.	78
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2123	479	32	0	0	0	0	0	0	0	2634

STATION: 65 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1356	1	.	.	.	.	.	.	.	.	1357
1.00 - 1.99	434	102	.	.	.	.	.	.	.	.	536
2.00 - 2.99	.	20	1	.	.	.	.	.	.	.	21
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1790	123	1	0	0	0	0	0	0	0	1914

STATION: 65 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1128	1	.	.	.	.	.	.	.	.	1129
1.00 - 1.99	1069	1073	.	.	.	.	.	.	.	.	2142
2.00 - 2.99	.	394	.	.	.	.	.	.	.	.	394
3.00 - 3.99	.	20	4	.	.	.	.	.	.	.	24
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2197	1488	5	0	0	0	0	0	0	0	3690

STATION: 65 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	7001	2826	6480	5546	2384	1114	434	150	77	13	26025
1.00 - 1.99	3502	7172	2852	2887	2102	1129	423	122	75	8	20272
2.00 - 2.99	.	1305	1352	629	750	443	220	42	49	2	4792
3.00 - 3.99	.	28	297	421	187	86	51	13	3	.	1086
4.00 - 4.99	.	.	10	121	107	45	7	6	5	.	301
5.00 - 5.99	.	.	.	7	37	37	10	3	9	.	103
6.00 - 6.99	.	.	.	1	3	10	2	.	2	.	18
7.00 - 7.99	.	.	.	.	.	2	.	.	.	.	2
8.00 - 8.99	.	.	.	.	1	.	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10503	11331	10991	9612	5571	2866	1147	336	220	23	52600

STATION: 65

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	110	132	178	282	425	529	656	872	516	374	195	144	4413
2.50 - 4.99	1061	983	1102	1307	1867	2045	2450	2386	2116	1590	1206	1058	19171
5.00 - 7.49	886	806	927	952	1043	1036	914	804	886	1008	924	939	11125
7.50 - 9.99	1093	1085	1149	1007	831	595	406	350	603	908	1057	1182	10266
10.00 - 12.49	566	463	502	411	211	93	32	36	140	375	486	514	3829
12.50 - 14.99	457	373	377	296	79	19	3	7	44	175	349	406	2585
15.00 - 17.49	162	99	129	50	8	3	2	2	6	21	60	115	657
17.50 - 19.99	111	95	61	14	.	.	1	5	6	10	40	82	425
20.00 - GREATER	18	36	39	1	.	.	.	2	3	3	3	24	129
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.50 N, LONG: 75.00 W, DEPTH: 18 M

STATION: 65

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	667	738	758	572	578	488	436	572	685	645	626	711	7476
22.50 - 67.49 (45.0)	386	371	410	342	422	334	243	488	721	697	402	298	5114
67.50 - 112.49 (90.0)	250	282	313	235	309	253	236	407	487	383	349	208	3712
112.50 - 157.49 (135.0)	199	250	374	474	453	292	328	334	363	340	315	224	3946
157.50 - 202.49 (180.0)	451	428	669	733	835	841	674	718	536	545	536	420	7386
202.50 - 247.49 (225.0)	536	532	566	600	844	1011	1201	928	641	578	571	753	8761
247.50 - 292.49 (270.0)	651	473	451	552	474	565	761	553	438	530	630	697	6775
292.50 - 337.49 (315.0)	1324	998	923	812	549	536	585	464	449	746	891	1153	9430
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 65

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.39	1.31	1.30	1.23	1.12	1.02	0.59	1.08	0.88	1.48	1.12	1.17	1.14
1977	1.32	1.16	1.36	1.17	0.77	0.76	0.61	0.62	0.77	1.41	1.76	1.44	1.09
1978	1.70	1.27	1.56	1.33	1.28	0.85	0.66	0.67	1.19	1.13	1.37	1.16	1.18
1979	1.75	1.68	1.66	1.34	1.14	0.78	0.65	0.76	1.44	0.95	1.34	1.45	1.24
1980	1.70	1.34	1.91	1.44	0.88	0.78	0.67	0.92	1.01	1.30	1.39	1.77	1.26
1981	1.26	2.11	1.61	1.33	1.48	0.67	0.90	0.76	1.39	1.27	1.52	1.28	1.29
1982	1.31	1.35	1.04	1.15	0.88	0.89	0.54	0.49	0.93	1.26	1.25	1.12	1.02
1983	1.49	1.61	1.71	1.35	1.11	0.78	0.60	0.60	1.04	1.62	1.29	1.68	1.24
1984	1.46	1.55	1.79	1.21	1.05	0.83	0.74	0.59	1.01	1.21	1.40	1.22	1.17
1985	1.33	1.31	1.29	1.12	0.94	0.65	0.67	0.68	1.10	1.01	1.69	1.12	1.08
1986	1.50	1.27	1.42	1.39	1.11	0.84	0.49	0.80	1.07	1.12	1.21	1.51	1.14
1987	1.61	1.28	1.62	1.67	1.05	0.73	0.56	0.73	0.84	1.08	1.24	1.01	1.12
1988	1.21	1.31	1.15	1.26	1.00	0.89	0.74	0.74	0.91	1.10	1.17	1.05	1.04
1989	1.12	1.27	1.73	1.14	1.10	0.79	0.68	1.03	1.87	1.09	1.40	1.32	1.21
1990	1.07	1.29	1.27	1.28	1.14	0.99	0.89	0.99	1.23	1.39	1.05	1.50	1.17
1991	1.24	1.08	1.38	1.17	0.81	0.79	0.70	0.90	1.14	1.23	1.26	1.20	1.07
1992	1.41	1.17	1.35	0.93	1.07	0.62	0.55	0.59	1.02	0.89	0.99	1.40	1.00
1993	1.42	1.47	1.41	1.59	0.92	0.70	0.59	0.75	0.92	1.07	1.36	1.38	1.13
MEAN	1.41	1.38	1.47	1.28	1.05	0.80	0.66	0.76	1.10	1.20	1.32	1.32	

STATION: 65

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	35 9 5	371017	40 9 9	34 9 8	29 816	33 9 7	17 620	481112	21 712	31 8 7	261110	27 632	481112
1977	40 912	431013	421014	36 817	21 635	26 635	17 5 2	17 520	17 8 9	3510 8	43 910	4512 7	4512 7
1978	491016	36 9 7	451210	571410	421014	27 818	23 712	16 5 1	26 8 7	34 8 5	28 814	36 813	571410
1979	541112	6213 9	571213	391013	25 717	17 616	16 534	19 535	37 914	21 719	381015	36 734	6213 9
1980	4911 8	45 9 5	7413 7	42 916	27 815	18 635	17 611	281813	221611	571411	32 812	631310	7413 7
1981	32 7 0	581313	4510 8	31 9 8	33 914	19 5 7	391013	26 7 9	351712	22 7 5	5913 9	3816 9	5913 9
1982	331015	5512 9	23 7 5	34 918	19 535	24 713	12 5 1	21 6 2	2512 9	5310 8	311510	37 9 7	5512 9
1983	4210 7	4810 8	541210	39 915	28 818	21 620	15 534	19 6 4	521113	421110	34 814	501210	541210
1984	4711 8	401012	451011	451014	26 718	22 532	19 521	16 5 2	31 912	551411	31 815	25 716	551411
1985	31 9 7	451012	30 817	35 719	21 6 4	17 5 1	20 719	20 6 5	8012 9	3810 9	561311	31 631	8012 9
1986	3214 9	38 9 9	471018	36 9 4	27 7 5	20 8 9	13 619	44 914	271611	3510 8	33 818	631510	631510
1987	5311 6	4610 8	5912 7	3910 7	29 8 6	19 619	12 433	17 620	17 5 5	23 718	33 8 4	27 718	5912 7
1988	4115 9	33 818	29 817	4310 8	26 7 5	25 8 6	22 619	23 717	26 720	30 7 3	33 917	2417 9	4310 8
1989	27 634	6313 7	4611 7	30 819	39 916	18 618	24 714	321111	601912	28 9 9	34 916	39 9 7	6313 7
1990	28 917	32 917	321010	33 918	30 819	25 818	20 618	251512	2413 9	5111 5	25 713	38 914	5111 5
1991	39 910	25 719	29 820	31 9 4	24 7 7	25 7 5	17 617	6012 9	521812	32 7 4	4310 7	23 718	6012 9
1992	491411	2410 9	291111	26 717	29 8 7	15 811	13 519	19 618	37 9 7	30 8 7	30 818	441111	491411
1993	4511 7	4410 8	491011	411016	20 618	17 618	17 618	241313	521413	3711 9	541212	42 9 4	541212
MAX	541112	6313 7	7413 7	571410	421014	33 9 7	391013	6012 9	8012 9	571411	5913 9	631510	

MAX Hmo(m): 8.0 MAX Tp(sec): 12. MAX Dp(deg): 90. DATE(gmt): 85092712

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 25. DATE(gmt): 85092712

MEAN Hmo(m): 1.1 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.75 N, LONG: 75.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 66

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	304	312	300	394	391	734	1350	1084	526	410	326	452	6583
0.50 - 0.99	1455	1350	1361	1534	2302	2592	2522	2612	2076	1893	1492	1466	22655
1.00 - 1.49	1271	1274	1320	1266	1119	803	468	577	1021	1295	1298	1293	13005
1.50 - 1.99	723	584	717	601	447	151	107	116	440	515	686	715	5802
2.00 - 2.49	415	286	381	301	142	34	13	44	146	192	280	321	2555
2.50 - 2.99	160	124	165	116	38	6	2	11	43	91	125	109	990
3.00 - 3.49	74	63	121	66	16	.	.	5	22	36	66	38	507
3.50 - 3.99	38	35	46	28	7	.	2	9	14	15	33	33	260
4.00 - 4.49	16	26	36	7	2	.	.	4	15	10	6	13	135
4.50 - 4.99	6	10	12	6	.	.	.	2	10	4	3	12	65
5.00 - 5.49	1	5	4	1	.	.	.	.	5	3	4	6	29
5.50 - 5.99	1	3	1	.	.	.	.	.	.	.	1	6	12
6.00 - 6.49	.	.	.	.	.	.	.	.	.	.	.	.	0
6.50 - 6.99	.	.	.	.	.	.	.	.	2	.	.	.	2
7.00 - 7.49	.	.	.	.	.	.	.	.	.	.	.	.	0
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 66

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	334	309	215	256	278	548	739	541	340	237	315	397	4509
4.0 - 4.9	880	899	761	675	696	845	816	615	573	735	801	1037	9333
5.0 - 5.9	664	621	528	450	382	464	481	478	315	370	538	657	5948
6.0 - 6.9	274	272	350	299	480	475	402	541	396	277	305	255	4326
7.0 - 7.9	202	217	298	380	647	567	529	745	577	420	328	173	5083
8.0 - 8.9	247	270	325	391	823	688	841	744	575	629	424	204	6161
9.0 - 9.9	335	339	380	506	573	452	451	368	403	553	440	319	5119
10.0 - 10.9	438	375	427	467	257	169	139	133	270	476	489	371	4011
11.0 - 11.9	379	284	395	348	141	76	51	64	222	307	291	303	2861
12.0 - 12.9	275	212	340	306	71	19	4	66	145	223	160	235	2056
13.0 - 13.9	208	120	228	150	67	6	7	48	128	128	73	231	1394
14.0 - 14.9	118	69	95	36	23	5	3	43	104	52	66	121	735
15.0 - 15.9	54	17	47	40	21	6	1	16	96	24	30	108	460
16.0 - 16.9	18	19	33	12	4	.	.	21	66	14	27	45	259
17.0 - 17.9	17	20	12	4	1	.	.	21	42	13	4	4	138
18.0 - 18.9	9	8	3	.	.	.	.	9	21	2	8	2	62
19.0 - 19.9	5	9	4	.	.	.	.	2	20	3	11	.	54
20.0 - LONGER	7	12	23	.	.	.	.	9	27	1	10	2	91
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 66

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	123	202	156	102	120	122	109	118	123	107	137	154	1573
11.25 - 33.74 (22.5)	48	83	56	48	47	58	50	81	86	69	64	58	748
33.75 - 56.24 (45.0)	51	58	39	30	56	50	23	56	86	74	46	50	619
56.25 - 78.74 (67.5)	174	177	185	147	173	168	35	163	225	279	163	101	1990
78.75 - 101.24 (90.0)	594	487	738	765	640	365	232	543	871	1013	626	697	7571
101.25 - 123.74 (112.5)	851	719	898	831	939	700	796	1042	1152	1091	999	802	10820
123.75 - 146.24 (135.0)	778	702	791	893	1013	956	1178	1072	928	722	647	572	10252
146.25 - 168.74 (157.5)	148	140	279	298	376	430	441	385	154	148	213	125	3137
168.75 - 191.24 (180.0)	245	256	343	337	373	457	472	368	207	178	270	245	3751
191.25 - 213.74 (202.5)	133	142	147	159	181	255	277	195	145	109	147	225	2115
213.75 - 236.24 (225.0)	92	130	103	78	118	172	261	112	69	105	95	184	1519
236.25 - 258.74 (247.5)	111	91	66	52	61	130	123	98	40	76	91	144	1083
258.75 - 281.24 (270.0)	145	83	68	93	71	120	110	57	43	76	152	162	1180
281.25 - 303.74 (292.5)	292	146	133	123	74	114	127	48	51	107	193	248	1656
303.75 - 326.24 (315.0)	372	322	227	189	88	111	136	49	71	176	243	373	2357
326.25 - 348.74 (337.5)	307	334	235	175	134	112	94	77	69	134	234	324	2229
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.75 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 66 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1548	.	.	.	.	.	.	.	.	.	1548
1.00 - 1.99	1026	395	.	.	.	.	.	.	.	.	1421
2.00 - 2.99	.	103	.	.	.	.	.	.	.	.	103
3.00 - 3.99	.	7	1	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2574	505	1	0	0	0	0	0	0	0	3080

STATION: 66 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	549	187	58	6	.	.	.	.	.	.	800
1.00 - 1.99	238	313	144	15	1	.	.	.	.	.	711
2.00 - 2.99	.	18	82	45	.	.	.	.	.	.	145
3.00 - 3.99	.	2	3	24	2	.	.	.	.	.	31
4.00 - 4.99	.	.	.	1	3	.	.	.	.	.	4
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	787	520	287	91	6	0	0	0	0	0	1691

STATION: 66 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	491	805	1660	1790	1309	679	197	54	7	.	6992
1.00 - 1.99	73	830	1051	751	826	574	189	41	1	.	4336
2.00 - 2.99	.	75	313	185	174	87	57	1	.	.	892
3.00 - 3.99	.	.	69	144	43	18	.	.	.	.	274
4.00 - 4.99	.	.	3	27	20	10	2	.	.	.	62
5.00 - 5.99	.	.	.	1	5	.	.	.	.	.	6
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	564	1710	3096	2898	2378	1368	445	96	8	0	12563

STATION: 66 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	459	1152	5308	3956	1086	203	63	33	69	10	12339
1.00 - 1.99	84	817	1229	1639	1022	370	113	39	34	1	5348
2.00 - 2.99	.	79	299	289	296	112	77	16	5	.	1173
3.00 - 3.99	.	.	72	102	78	35	11	10	4	.	312
4.00 - 4.99	.	.	3	35	30	27	7	6	10	.	118
5.00 - 5.99	.	.	.	1	13	13	3	.	4	.	34
6.00 - 6.99	.	.	.	.	.	1	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	543	2048	6911	6022	2525	761	274	104	126	11	19325

STATION: 66 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1449	1178	71	1	.	.	.	.	.	.	2699
1.00 - 1.99	338	1846	323	5	.	.	.	.	.	.	2512
2.00 - 2.99	.	192	483	39	.	.	.	.	.	.	714
3.00 - 3.99	.	1	56	61	3	.	.	.	.	.	121
4.00 - 4.99	.	.	.	12	4	.	.	.	.	.	16
5.00 - 5.99	.	.	.	.	1	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1787	3217	933	118	8	0	0	0	0	0	6063

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.75 N, LONG: 75.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 66 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1571	13	.	.	.	.	.	.	.	.	1584
1.00 - 1.99	928	357	5	.	.	.	.	.	.	.	1290
2.00 - 2.99	.	58	6	1	.	.	.	.	.	.	65
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2499	428	11	1	0	0	0	0	0	0	2939

STATION: 66 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1794	.	.	.	.	.	.	.	.	.	1794
1.00 - 1.99	532	145	.	.	.	.	.	.	.	.	677
2.00 - 2.99	.	31	1	.	.	.	.	.	.	.	32
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2326	176	1	0	0	0	0	0	0	0	2503

STATION: 66 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1482	.	.	.	.	.	.	.	.	.	1482
1.00 - 1.99	1280	1232	.	.	.	.	.	.	.	.	2512
2.00 - 2.99	.	421	.	.	.	.	.	.	.	.	421
3.00 - 3.99	.	17	4	.	.	.	.	.	.	.	21
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2762	1670	4	0	0	0	0	0	0	0	4436

STATION: 66 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	9343	3335	7097	5753	2395	882	260	87	76	10	29238
1.00 - 1.99	4499	5935	2752	2410	1849	944	302	80	35	1	18807
2.00 - 2.99	.	977	1184	559	470	199	134	17	5	.	3545
3.00 - 3.99	.	27	205	331	126	53	11	10	4	.	767
4.00 - 4.99	.	.	6	75	57	37	9	6	10	.	200
5.00 - 5.99	.	.	.	2	19	13	3	.	4	.	41
6.00 - 6.99	.	.	.	.	1	1	.	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	13842	10274	11244	9130	4917	2129	719	200	134	11	52600

STATION: 66

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	110	123	163	284	428	525	678	858	513	387	188	144	4401
2.50 - 4.99	1067	998	1130	1311	1870	2088	2437	2414	2119	1554	1219	1067	19274
5.00 - 7.49	891	815	927	953	1051	1025	929	802	886	1035	924	940	11178
7.50 - 9.99	1098	1089	1159	1012	834	574	381	337	615	925	1056	1181	10261
10.00 - 12.49	553	451	489	410	189	86	34	37	136	369	485	527	3766
12.50 - 14.99	452	377	365	291	83	19	3	7	38	161	356	403	2555
15.00 - 17.49	167	96	128	45	9	2	1	2	7	22	51	99	629
17.50 - 19.99	108	87	68	13	.	1	1	6	3	7	37	77	408
20.00 - GREATER	18	36	35	1	.	.	.	1	3	4	4	26	128
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 38.75 N, LONG: 75.00 W, DEPTH: 18 M

STATION: 66

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	629	699	759	592	573	479	445	566	673	631	590	653	7289
22.50 - 67.49 (45.0)	366	372	390	323	409	321	239	466	691	674	383	280	4914
67.50 - 112.49 (90.0)	263	269	318	241	317	240	240	406	492	368	349	212	3715
112.50 - 157.49 (135.0)	204	262	384	482	442	283	320	325	353	342	304	236	3937
157.50 - 202.49 (180.0)	453	428	647	726	842	856	674	688	530	557	538	426	7365
202.50 - 247.49 (225.0)	535	536	576	582	814	1000	1172	942	660	596	583	757	8753
247.50 - 292.49 (270.0)	687	488	457	556	487	579	753	591	472	546	664	730	7010
292.50 - 337.49 (315.0)	1327	1018	933	818	580	562	621	480	449	750	909	1170	9617
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 66

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.28	1.26	1.24	1.04	1.07	0.94	0.56	0.96	0.78	1.30	1.05	1.12	1.05
1977	1.25	1.14	1.30	1.07	0.73	0.72	0.57	0.60	0.71	1.28	1.65	1.32	1.03
1978	1.63	1.00	1.41	1.21	1.23	0.82	0.61	0.63	1.01	0.97	1.20	1.10	1.07
1979	1.66	1.49	1.52	1.26	1.06	0.71	0.63	0.70	1.27	0.89	1.21	1.29	1.14
1980	1.38	1.10	1.63	1.31	0.78	0.73	0.64	0.79	0.92	1.16	1.20	1.54	1.10
1981	1.12	1.90	1.33	1.26	1.28	0.63	0.84	0.68	1.21	1.11	1.26	1.16	1.14
1982	1.20	1.19	0.95	1.08	0.77	0.81	0.50	0.45	0.81	1.00	1.09	0.96	0.90
1983	1.32	1.35	1.53	1.24	1.07	0.73	0.57	0.54	0.91	1.41	1.20	1.56	1.12
1984	1.22	1.50	1.56	1.14	0.97	0.78	0.70	0.53	0.90	1.05	1.23	1.09	1.05
1985	1.23	1.21	1.17	1.07	0.88	0.59	0.64	0.62	0.95	0.92	1.56	1.04	0.99
1986	1.35	1.11	1.30	1.17	0.94	0.78	0.47	0.72	0.95	0.96	1.10	1.37	1.02
1987	1.38	1.08	1.30	1.45	0.95	0.69	0.52	0.68	0.77	0.97	1.15	0.95	0.99
1988	1.04	1.23	1.05	1.11	0.92	0.82	0.71	0.71	0.84	0.98	1.13	0.94	0.95
1989	1.03	1.10	1.51	1.04	1.05	0.74	0.66	0.93	1.65	0.98	1.29	1.13	1.09
1990	1.03	1.21	1.16	1.20	1.06	0.92	0.86	0.89	1.09	1.28	0.96	1.33	1.08
1991	1.14	1.01	1.28	1.08	0.76	0.72	0.68	0.85	1.05	1.08	1.11	1.09	0.99
1992	1.31	1.05	1.24	0.84	0.93	0.59	0.52	0.57	0.90	0.77	0.92	1.25	0.91
1993	1.24	1.26	1.27	1.39	0.84	0.67	0.57	0.67	0.84	0.96	1.24	1.18	1.01
MEAN	1.27	1.23	1.32	1.16	0.96	0.74	0.63	0.70	0.98	1.06	1.20	1.19	

STATION: 66

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	35 819	38 918	39 9 9	27 8 9	29 816	24 8 6	16 622	421113	20 712	301013	231011	26 631	421113
1977	41 914	441014	421015	36 917	19 533	21 536	15 620	16 617	16 810	30 910	39 911	4011 8	441014
1978	491115	29 634	451112	501412	431016	27 818	23 712	13 618	221214	27 8 7	28 713	35 813	501412
1979	561113	491310	571214	391014	25 717	17 616	16 616	15 7 8	36 916	21 718	371016	31 817	571214
1980	471017	31 9 7	4514 9	41 917	28 816	16 519	17 612	241714	211612	531312	31 813	551312	551312
1981	271011	591314	38 733	29 8 9	34 916	16 522	37 913	25 8 9	311713	22 718	3912 9	29 819	591314
1982	34 919	5010 8	21 713	34 918	17 522	22 713	10 421	15 813	201210	451312	251512	27 816	5010 8
1983	3410 8	4410 9	511211	39 915	30 818	20 619	15 533	14 6 5	481113	401112	35 815	481211	511211
1984	341111	411013	461012	451015	26 818	22 532	17 520	12 4 1	28 812	451415	31 816	25 715	461012
1985	30 631	461013	32 914	36 819	18 532	14 530	20 719	16 6 6	661412	351010	551212	30 630	661412
1986	281410	39 9 9	481018	29 818	22 717	19 914	11 519	41 815	251612	32 8 8	34 818	591412	591412
1987	41 9 9	3510 9	441114	35 812	211010	18 718	12 433	16 519	17 615	24 718	28 810	26 718	441114
1988	261510	33 818	27 817	3410 9	20 7 8	20 8 8	21 619	23 717	25 719	29 712	33 917	21 520	3410 9
1989	231213	4412 7	3410 8	30 918	39 916	18 618	24 715	291112	521913	31 810	35 917	32 9 8	521913
1990	27 819	31 818	33 910	32 918	30 919	25 818	19 718	221613	211512	3410 7	24 714	381015	381015
1991	37 912	24 719	29 919	24 9 7	21 7 8	20 7 6	17 617	451313	471813	261012	3310 7	23 615	471813
1992	441412	21 716	281112	26 717	25 8 8	15 812	13 519	18 618	31 9 8	24 8 8	30 718	441012	441012
1993	37 918	35 8 9	481012	401016	20 618	17 618	16 618	211314	451414	331110	521114	30 9 6	521114
MAX	561113	591314	571214	501412	431016	27 818	37 913	451313	661412	531312	551212	591412	

MAX Hmo(m): 6.6 MAX Tp(sec): 14. MAX Dp(deg): 122. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 25. DATE(gmt): 85092712

MEAN Hmo(m): 1.0 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.00 N, LONG: 74.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 67

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	165	190	124	220	179	349	826	684	388	278	229	276	3908
0.50 - 0.99	1181	1093	1131	1292	1900	2550	2678	2658	1866	1633	1193	1265	20440
1.00 - 1.49	1258	1204	1197	1177	1406	1065	717	815	1091	1335	1284	1177	13726
1.50 - 1.99	821	763	847	783	582	244	182	181	526	664	825	855	7273
2.00 - 2.49	499	379	553	435	254	95	53	70	229	298	412	493	3770
2.50 - 2.99	276	195	264	198	98	17	5	21	126	132	214	209	1755
3.00 - 3.49	131	116	156	116	31	.	2	13	30	70	94	96	855
3.50 - 3.99	69	56	92	60	12	.	1	5	22	21	33	30	401
4.00 - 4.49	35	34	50	20	2	.	.	11	9	9	14	25	209
4.50 - 4.99	17	16	30	12	.	.	.	3	8	12	12	18	128
5.00 - 5.49	10	14	15	7	.	.	.	1	9	5	3	10	74
5.50 - 5.99	2	7	4	.	.	.	.	1	7	3	7	4	35
6.00 - 6.49	.	5	1	.	.	.	.	1	4	3	.	2	16
6.50 - 6.99	.	.	.	.	.	.	.	.	2	1	.	4	7
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	.	1
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	1	.	.	.	1
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 67

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	169	193	107	119	110	235	370	240	190	118	178	197	2226
4.0 - 4.9	617	618	451	429	360	571	591	501	432	552	513	688	6323
5.0 - 5.9	657	576	432	367	405	562	594	495	383	397	512	656	6036
6.0 - 6.9	333	364	399	304	559	658	680	769	510	339	395	404	5714
7.0 - 7.9	291	274	380	410	783	732	819	830	534	430	357	283	6123
8.0 - 8.9	299	313	422	470	867	773	821	758	559	635	489	272	6678
9.0 - 9.9	381	408	460	574	623	430	409	375	399	566	519	328	5472
10.0 - 10.9	478	411	479	557	300	228	116	139	368	520	523	417	4536
11.0 - 11.9	376	326	408	381	189	79	48	76	243	357	334	304	3121
12.0 - 12.9	334	249	399	419	100	34	4	88	175	261	192	289	2544
13.0 - 13.9	248	134	266	176	92	11	7	61	138	169	110	281	1693
14.0 - 14.9	154	88	113	67	47	1	3	46	103	59	81	152	914
15.0 - 15.9	70	32	67	37	26	6	2	20	105	29	42	128	564
16.0 - 16.9	16	36	40	10	2	.	.	22	65	13	32	51	287
17.0 - 17.9	14	29	9	.	1	.	.	23	43	13	13	8	153
18.0 - 18.9	12	13	6	.	.	.	.	11	26	2	7	5	82
19.0 - 19.9	9	5	5	.	.	.	.	2	19	4	13	1	58
20.0 - LONGER	6	3	21	.	.	.	.	8	28	.	10	.	76
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 67

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	98	159	82	68	82	76	65	63	102	61	86	96	1038
11.25 - 33.74 (22.5)	37	67	40	44	29	58	28	71	62	63	62	40	601
33.75 - 56.24 (45.0)	55	75	47	42	66	37	20	44	108	108	60	52	714
56.25 - 78.74 (67.5)	73	86	85	68	63	67	29	70	115	135	86	44	921
78.75 - 101.24 (90.0)	658	592	819	845	713	409	176	457	866	1052	680	801	8068
101.25 - 123.74 (112.5)	827	614	834	811	830	489	542	923	1064	1054	961	795	9744
123.75 - 146.24 (135.0)	623	579	581	584	738	724	947	918	757	712	534	399	8096
146.25 - 168.74 (157.5)	466	436	619	705	672	663	545	584	462	305	450	348	6255
168.75 - 191.24 (180.0)	370	350	567	510	696	906	1110	748	301	241	406	401	6606
191.25 - 213.74 (202.5)	186	190	161	139	203	278	306	208	190	130	211	272	2474
213.75 - 236.24 (225.0)	113	136	124	85	120	195	246	141	78	114	113	197	1662
236.25 - 258.74 (247.5)	60	63	28	37	36	116	92	67	29	76	58	104	766
258.75 - 281.24 (270.0)	98	60	51	44	41	67	67	43	35	58	86	115	765
281.25 - 303.74 (292.5)	247	128	109	78	26	70	114	30	54	89	167	196	1308
303.75 - 326.24 (315.0)	315	278	167	122	70	71	104	44	51	171	192	353	1938
326.25 - 348.74 (337.5)	238	259	150	138	79	94	73	53	46	95	168	251	1644
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.00 N, LONG: 74.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 67 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	901										901
1.00 - 1.99	793	268	2								1063
2.00 - 2.99		83	6								89
3.00 - 3.99		9									9
4.00 - 4.99			1								1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1694	360	9	0	0	0	0	0	0	0	2063

STATION: 67 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	376	114									490
1.00 - 1.99	96	503	26								625
2.00 - 2.99		74	157	1							232
3.00 - 3.99			29	24							53
4.00 - 4.99			2	5							7
5.00 - 5.99				1	2						3
6.00 - 6.99					1						1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	472	691	214	31	3	0	0	0	0	0	1411

STATION: 67 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	321	530	1060	1564	1430	772	221	44	40	1	5983
1.00 - 1.99	57	817	965	1027	1007	710	199	65	31		4878
2.00 - 2.99		75	350	225	314	193	113	15	3		1288
3.00 - 3.99			85	182	71	50	20	2			410
4.00 - 4.99				43	32	14					89
5.00 - 5.99				2	17	8	1				28
6.00 - 6.99					2	1					3
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	378	1422	2460	3043	2873	1748	554	126	74	1	12679

STATION: 67 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	281	838	3897	2751	782	148	42	18	10	2	8769
1.00 - 1.99	67	769	1490	1958	943	345	111	46	19	2	5750
2.00 - 2.99		78	410	462	454	198	104	20	6		1732
3.00 - 3.99			69	163	149	63	23	10	3		480
4.00 - 4.99			2	46	85	39	7	8	5		192
5.00 - 5.99				3	22	28	6	5	8		72
6.00 - 6.99					2	9	3	1	4		19
7.00 - 7.99						1					1
8.00 - 8.99						1					1
9.00 - GREATER						1					1
TOTAL	348	1685	5868	5383	2437	833	296	108	55	4	17017

STATION: 67 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	836	1782	1940	423	41						5022
1.00 - 1.99	178	1936	1407	739	165	7		1			4433
2.00 - 2.99		191	683	238	100	12	1				1225
3.00 - 3.99			82	115	30	6					233
4.00 - 4.99			3	33	11	1					48
5.00 - 5.99				1	5						6
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1014	3909	4115	1549	352	26	1	1	0	0	10967

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.00 N, LONG: 74.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 67 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	876	267	.	.	.	.	.	.	.	.	1143
1.00 - 1.99	170	1401	9	.	.	.	.	.	.	.	1580
2.00 - 2.99	.	404	76	1	.	.	.	.	.	.	481
3.00 - 3.99	.	.	42	1	.	.	.	.	.	.	43
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1046	2072	127	2	0	0	0	0	0	0	3247

STATION: 67 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1092	1	.	.	.	.	.	.	.	.	1093
1.00 - 1.99	371	121	1	.	.	.	.	.	.	.	493
2.00 - 2.99	.	25	.	.	.	.	.	.	.	.	25
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1463	148	1	0	0	0	0	0	0	0	1612

STATION: 67 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	947	.	.	.	.	.	.	.	.	.	947
1.00 - 1.99	1187	990	.	.	.	.	.	.	.	.	2177
2.00 - 2.99	.	450	3	.	.	.	.	.	.	.	453
3.00 - 3.99	.	23	4	.	.	.	.	.	.	.	27
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2134	1463	7	0	0	0	0	0	0	0	3604

STATION: 67 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5630	3532	6897	4738	2253	920	263	62	50	3	24348
1.00 - 1.99	2919	6805	3900	3724	2115	1062	310	112	50	2	20999
2.00 - 2.99	.	1380	1685	927	868	403	218	35	9	.	5525
3.00 - 3.99	.	33	311	485	250	119	43	12	3	.	1256
4.00 - 4.99	.	.	8	127	128	54	7	8	5	.	337
5.00 - 5.99	.	.	.	7	46	36	7	5	8	.	109
6.00 - 6.99	.	.	.	.	5	10	3	1	4	.	23
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	8549	11750	12801	10008	5665	2607	851	235	129	5	52600

STATION: 67

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	80	86	106	219	364	451	610	798	482	328	148	94	3766
2.50 - 4.99	979	937	1081	1323	1863	2080	2453	2417	2094	1539	1144	1030	18940
5.00 - 7.49	918	805	934	923	1087	1050	955	840	906	1040	955	939	11352
7.50 - 9.99	1107	1114	1220	1086	868	622	402	355	653	1012	1114	1201	10754
10.00 - 12.49	583	492	507	409	184	93	39	39	136	330	488	531	3831
12.50 - 14.99	482	389	374	300	92	20	5	3	42	182	372	446	2707
15.00 - 17.49	177	118	137	46	6	3	.	5	2	23	56	119	692
17.50 - 19.99	114	94	73	13	.	1	.	5	1	6	40	75	422
20.00 - GREATER	24	37	32	1	.	.	.	2	4	4	3	29	136
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.00 N, LONG: 74.50 W, DEPTH: 18 M

STATION: 67

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	616	668	761	562	535	453	435	550	633	586	543	636	6978
22.50 - 67.49 (45.0)	370	367	386	344	407	305	217	446	680	682	385	270	4859
67.50 - 112.49 (90.0)	261	275	322	252	340	246	258	409	493	363	363	224	3806
112.50 - 157.49 (135.0)	205	255	370	500	420	275	315	297	356	343	291	236	3863
157.50 - 202.49 (180.0)	409	373	597	637	805	792	616	673	484	519	508	375	6788
202.50 - 247.49 (225.0)	527	542	582	602	829	1040	1241	989	703	612	600	754	9021
247.50 - 292.49 (270.0)	733	517	492	598	550	641	785	605	488	581	694	751	7435
292.50 - 337.49 (315.0)	1343	1075	954	825	578	568	597	495	483	778	936	1218	9850
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 67

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.51	1.58	1.50	1.22	1.31	1.10	0.68	1.14	0.88	1.48	1.25	1.35	1.25
1977	1.42	1.32	1.52	1.29	0.79	0.83	0.65	0.71	0.82	1.45	1.86	1.61	1.19
1978	1.91	1.15	1.61	1.42	1.46	0.93	0.74	0.73	1.14	1.14	1.35	1.31	1.24
1979	1.92	1.76	1.79	1.43	1.28	0.78	0.74	0.81	1.46	1.04	1.40	1.55	1.33
1980	1.71	1.25	1.99	1.62	0.93	0.89	0.85	1.00	1.05	1.32	1.42	1.76	1.32
1981	1.26	2.24	1.65	1.63	1.48	0.77	0.93	0.75	1.44	1.22	1.46	1.35	1.34
1982	1.45	1.37	1.04	1.26	0.89	0.98	0.55	0.53	0.95	1.20	1.27	1.15	1.05
1983	1.47	1.59	1.72	1.40	1.25	0.86	0.64	0.63	1.02	1.60	1.36	1.80	1.28
1984	1.39	1.70	1.86	1.35	1.21	0.89	0.91	0.59	0.95	1.23	1.37	1.28	1.23
1985	1.34	1.46	1.37	1.26	1.04	0.73	0.74	0.67	1.12	0.98	1.71	1.22	1.13
1986	1.59	1.27	1.58	1.39	1.14	0.97	0.57	0.85	1.12	1.10	1.22	1.58	1.20
1987	1.58	1.22	1.59	1.75	1.08	0.80	0.58	0.75	0.86	1.08	1.33	1.10	1.14
1988	1.21	1.42	1.21	1.27	1.04	0.93	0.88	0.82	0.96	1.13	1.26	1.09	1.10
1989	1.18	1.27	1.73	1.20	1.22	0.85	0.75	1.04	1.95	1.12	1.50	1.25	1.25
1990	1.22	1.42	1.33	1.37	1.22	1.08	0.98	1.00	1.21	1.42	1.05	1.51	1.23
1991	1.31	1.11	1.49	1.22	0.84	0.81	0.80	0.97	1.20	1.23	1.26	1.26	1.12
1992	1.48	1.20	1.43	0.95	1.07	0.71	0.61	0.68	0.99	0.88	1.08	1.46	1.05
1993	1.50	1.48	1.48	1.69	1.01	0.79	0.65	0.77	1.01	1.10	1.45	1.35	1.19
MEAN	1.47	1.43	1.55	1.37	1.13	0.87	0.74	0.80	1.12	1.21	1.37	1.39	

STATION: 67

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	36 8 5	391017	391017	33 8 5	30 817	28 8 7	16 719	501114	221313	351014	27 721	30 631	501114
1977	42 913	461015	421016	36 918	19 533	231014	23 622	19 622	25 622	34 9 9	411112	441410	461015
1978	541216	39 9 5	451112	541312	411016	29 818	22 6 5	16 620	291215	31 8 6	31 912	35 915	541312
1979	571213	611311	571215	461215	27 817	17 616	18 916	21 7 4	371017	26 818	421016	3310 9	611311
1980	5211 6	42 9 7	6412 7	411116	29 816	21 622	21 622	331715	231613	651413	35 722	551312	651413
1981	311011	641315	501018	461018	33 916	25 720	36 914	28 812	371813	23 719	471210	351410	641315
1982	391117	531110	25 8 8	37 918	25 721	271017	11 521	17 619	291310	481312	301512	34 8 5	531110
1983	4110 9	5112 9	531212	361015	391017	20 718	16 533	18 6 3	431014	431212	35 815	531212	531212
1984	431110	431013	491110	481015	28 720	231312	26 719	13 4 1	261217	601413	30 816	28 817	601413
1985	31 633	531113	37 917	491117	25 7 6	22 720	22 622	18 7 6	961414	34 910	571312	321010	961414
1986	331214	40 910	521118	3610 8	27 7 5	27 720	14 522	421016	29 720	311010	34 818	681512	681512
1987	5010 7	41 9 8	5412 9	391315	29 8 7	18 718	12 433	16 622	18 6 6	24 718	3610 7	291213	5412 9
1988	301410	361310	28 817	37 9 8	28 8 4	25 8 9	24 818	21 718	25 719	29 712	34 918	32 721	37 9 8
1989	291214	5812 8	4510 8	31 918	39 917	18 619	23 615	321113	662013	32 910	34 917	34 8 7	662013
1990	30 917	33 917	36 911	311017	321017	25 818	191112	261614	241412	4610 3	251016	37 916	4610 3
1991	39 911	24 819	291216	32 9 6	23 7 8	25 7 6	18 717	621111	611813	31 7 7	39 9 7	25 720	621111
1992	511412	241010	321113	26 717	26 7 8	18 812	16 521	19 618	35 9 9	28 8 8	29 819	501112	511412
1993	4410 8	421010	551214	391017	20 621	17 618	17 618	251315	551416	381010	591214	41 9 4	591214
MAX	571213	641315	6412 7	541312	411016	29 818	36 914	621111	961414	651413	591214	681512	

MAX Hmo(m): 9.6 MAX Tp(sec): 14. MAX Dp(deg): 137. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 50. DATE(gmt): 85092712

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.25 N, LONG: 74.25 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 68

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	151	173	108	226	170	335	788	689	384	274	226	259	3783
0.50 - 0.99	1147	1045	1103	1242	1836	2509	2670	2612	1815	1558	1160	1216	19913
1.00 - 1.49	1269	1207	1179	1169	1433	1084	741	836	1078	1374	1246	1204	13820
1.50 - 1.99	815	778	842	788	598	275	191	188	534	683	857	821	7370
2.00 - 2.49	483	399	551	437	264	92	61	73	268	299	411	516	3854
2.50 - 2.99	288	180	301	223	107	24	10	26	142	139	231	241	1912
3.00 - 3.49	151	128	158	125	39	1	3	19	34	81	121	103	963
3.50 - 3.99	81	74	109	63	13	.	.	3	24	22	29	34	452
4.00 - 4.49	41	37	53	26	4	.	.	8	6	12	16	19	222
4.50 - 4.99	20	21	30	15	.	.	.	5	9	10	7	29	146
5.00 - 5.49	14	14	24	6	.	.	.	3	7	2	8	13	91
5.50 - 5.99	4	10	4	.	.	.	.	.	6	4	7	3	38
6.00 - 6.49	.	6	1	.	.	.	.	2	6	5	1	1	22
6.50 - 6.99	.	.	1	.	.	.	.	.	2	1	.	3	7
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	2	4
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	1	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 68

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	175	188	103	133	122	232	374	240	197	129	177	215	2285
4.0 - 4.9	624	596	436	429	350	540	575	518	395	492	517	678	6150
5.0 - 5.9	621	553	423	350	357	510	541	522	381	428	493	598	5777
6.0 - 6.9	326	374	364	298	582	698	698	779	532	547	385	563	5746
7.0 - 7.9	309	310	398	413	802	759	870	817	524	442	378	340	6362
8.0 - 8.9	323	342	477	500	914	798	821	766	561	666	509	294	6971
9.0 - 9.9	389	420	460	598	625	429	410	342	405	561	508	343	5490
10.0 - 10.9	470	395	483	527	318	219	112	146	348	516	531	439	4504
11.0 - 11.9	369	313	393	376	160	93	45	64	251	361	324	302	3051
12.0 - 12.9	338	243	383	358	82	20	6	77	180	222	186	282	2377
13.0 - 13.9	233	131	267	205	73	14	7	55	135	170	110	272	1672
14.0 - 14.9	155	85	126	73	39	3	3	46	116	57	87	147	937
15.0 - 15.9	74	33	55	37	28	5	2	24	101	35	40	122	556
16.0 - 16.9	17	44	42	20	8	.	.	24	74	12	28	47	316
17.0 - 17.9	13	21	16	2	4	.	.	23	48	14	14	16	171
18.0 - 18.9	14	9	11	1	.	.	.	9	26	7	12	3	92
19.0 - 19.9	8	8	7	.	.	.	.	4	19	4	12	3	65
20.0 - LONGER	6	7	20	.	.	.	.	8	27	1	9	.	78
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 68

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	76	118	70	75	55	60	64	61	82	43	57	83	844
11.25 - 33.74 (22.5)	37	51	33	31	26	37	22	51	51	45	57	35	476
33.75 - 56.24 (45.0)	73	127	100	73	101	77	31	81	147	172	105	78	1165
56.25 - 78.74 (67.5)	105	124	110	68	105	91	27	94	128	171	106	64	1193
78.75 - 101.24 (90.0)	661	567	849	839	683	405	172	468	833	1013	693	806	7989
101.25 - 123.74 (112.5)	748	566	726	780	795	453	485	822	970	963	892	728	8928
123.75 - 146.24 (135.0)	614	579	584	573	712	706	944	882	774	737	499	384	7988
146.25 - 168.74 (157.5)	510	483	693	752	734	713	583	630	484	322	489	414	6807
168.75 - 191.24 (180.0)	396	346	534	517	706	935	1173	765	357	250	408	445	6832
191.25 - 213.74 (202.5)	148	182	157	119	174	255	262	222	174	147	199	263	2302
213.75 - 236.24 (225.0)	105	114	105	64	91	151	219	130	74	93	95	149	1390
236.25 - 258.74 (247.5)	66	62	32	32	50	121	107	74	44	79	68	104	839
258.75 - 281.24 (270.0)	112	65	53	49	46	76	81	48	50	64	108	111	863
281.25 - 303.74 (292.5)	263	135	114	91	27	66	114	33	48	100	194	203	1388
303.75 - 326.24 (315.0)	316	288	177	134	70	84	100	52	54	161	189	369	1994
326.25 - 348.74 (337.5)	234	265	127	123	89	90	80	51	50	104	161	228	1602
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.25 N, LONG: 74.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 68 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	812										812
1.00 - 1.99	594	212	1								807
2.00 - 2.99		83	7								90
3.00 - 3.99		6									6
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1406	301	8	0	0	0	0	0	0	0	1715

STATION: 68 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	323	297	9								629
1.00 - 1.99	95	665	173	1							934
2.00 - 2.99		79	284	1							364
3.00 - 3.99			83	26							109
4.00 - 4.99				16							16
5.00 - 5.99				4	4						8
6.00 - 6.99					1						1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	418	1041	549	48	5	0	0	0	0	0	2061

STATION: 68 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	300	490	1045	1447	1110	656	202	60	48		5358
1.00 - 1.99	61	825	1030	988	950	737	209	48	34		4882
2.00 - 2.99		67	353	246	293	230	112	27	3		1331
3.00 - 3.99			78	152	78	51	31	14			404
4.00 - 4.99			1	46	38	23	3				111
5.00 - 5.99					17	8	3				28
6.00 - 6.99					1	1					2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	361	1382	2507	2879	2487	1706	560	149	85	0	12116

STATION: 68 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	273	821	3720	2663	781	163	45	21	10	2	8499
1.00 - 1.99	67	727	1438	1942	961	333	111	43	16	2	5640
2.00 - 2.99		75	421	480	461	215	99	23	6		1780
3.00 - 3.99			75	183	177	63	30	8	3		539
4.00 - 4.99			1	45	73	37	10	8	5		179
5.00 - 5.99				5	28	34	5	4	6		82
6.00 - 6.99					5	12	2	3	4		26
7.00 - 7.99					1		2		2		5
8.00 - 8.99						1	1				2
9.00 - GREATER											0
TOTAL	340	1623	5655	5318	2487	858	305	110	52	4	16752

STATION: 68 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	833	1845	2005	460	56						5199
1.00 - 1.99	161	1934	1429	837	215	11		4	2		4593
2.00 - 2.99		173	845	305	122	22	5				1472
3.00 - 3.99			140	101	33	8	2				284
4.00 - 4.99			2	44	13	3					62
5.00 - 5.99					10	1					11
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	994	3952	4421	1747	449	45	7	4	2	0	11621

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.25 N, LONG: 74.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 68 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	907	128	.	.	.	.	.	.	.	.	1035
1.00 - 1.99	191	1297	7	.	.	.	.	.	.	.	1495
2.00 - 2.99	.	121	139	1	.	.	.	.	.	.	261
3.00 - 3.99	.	.	41	.	.	.	.	.	.	.	41
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1098	1546	187	1	0	0	0	0	0	0	2832

STATION: 68 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1213	5	.	.	.	.	.	.	.	.	1218
1.00 - 1.99	439	159	.	.	.	.	.	.	.	.	598
2.00 - 2.99	.	25	1	1	.	.	.	.	.	.	27
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1652	190	1	1	0	0	0	0	0	0	1844

STATION: 68 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	946	.	.	.	.	.	.	.	.	.	946
1.00 - 1.99	1220	1021	.	.	.	.	.	.	.	.	2241
2.00 - 2.99	.	440	1	.	.	.	.	.	.	.	441
3.00 - 3.99	.	27	4	.	.	.	.	.	.	.	31
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2166	1488	5	0	0	0	0	0	0	0	3659

STATION: 68 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5607	3586	6779	4570	1947	819	247	81	58	2	23696
1.00 - 1.99	2828	6840	4078	3768	2126	1081	320	95	52	2	21190
2.00 - 2.99	.	1063	2051	1034	876	467	216	50	9	.	5766
3.00 - 3.99	.	34	421	462	288	122	63	22	3	.	1415
4.00 - 4.99	.	.	4	151	124	63	13	8	5	.	368
5.00 - 5.99	.	.	.	9	59	43	8	4	6	.	129
6.00 - 6.99	.	.	.	.	7	13	2	3	4	.	29
7.00 - 7.99	.	.	.	.	1	.	2	.	2	.	5
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8435	11523	13333	9994	5428	2609	872	263	139	4	52600

STATION: 68

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	90	69	97	209	378	446	605	791	493	336	141	84	3739
2.50 - 4.99	948	903	1051	1311	1788	2036	2407	2370	2030	1489	1113	1002	18448
5.00 - 7.49	888	839	931	911	1139	1084	983	877	929	1034	941	934	11490
7.50 - 9.99	1107	1104	1223	1100	872	632	419	368	681	1039	1120	1184	10849
10.00 - 12.49	580	494	518	422	181	96	46	43	134	337	504	579	3934
12.50 - 14.99	511	411	387	304	100	22	4	5	47	196	395	441	2823
15.00 - 17.49	196	113	142	49	6	4	.	4	1	22	58	124	719
17.50 - 19.99	116	97	85	14	.	.	.	5	1	7	43	82	450
20.00 - GREATER	28	42	30	.	.	.	.	1	4	4	5	34	148
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.25 N, LONG: 74.25 W, DEPTH: 18 M

STATION: 68

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	599	661	739	555	509	439	421	534	622	556	526	602	6763
22.50 - 67.49	(45.0)	356	382	398	349	412	309	229	436	661	678	386	264	4860
67.50 - 112.49	(90.0)	270	269	329	274	361	234	250	419	475	351	364	237	3833
112.50 - 157.49	(135.0)	201	255	352	481	393	271	331	289	368	347	291	229	3808
157.50 - 202.49	(180.0)	400	343	570	616	788	762	601	653	473	512	474	389	6581
202.50 - 247.49	(225.0)	528	549	595	589	833	1053	1224	1006	729	618	625	732	9081
247.50 - 292.49	(270.0)	762	525	512	608	578	672	782	613	493	600	708	767	7620
292.50 - 337.49	(315.0)	1348	1088	969	848	590	580	626	514	499	802	946	1244	10054
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 68

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.56	1.64	1.55	1.25	1.34	1.09	0.70	1.18	0.89	1.53	1.28	1.37	1.28
1977	1.46	1.36	1.54	1.32	0.79	0.86	0.67	0.72	0.86	1.46	1.91	1.66	1.22
1978	1.97	1.19	1.64	1.45	1.51	0.95	0.78	0.75	1.17	1.18	1.38	1.35	1.28
1979	1.97	1.83	1.84	1.46	1.30	0.79	0.75	0.83	1.49	1.06	1.42	1.62	1.36
1980	1.77	1.28	2.02	1.67	0.94	0.87	0.87	1.05	1.09	1.36	1.44	1.79	1.35
1981	1.31	2.33	1.68	1.68	1.50	0.78	0.95	0.75	1.47	1.24	1.51	1.37	1.37
1982	1.49	1.38	1.05	1.29	0.91	1.02	0.55	0.55	0.96	1.28	1.29	1.16	1.07
1983	1.48	1.63	1.75	1.40	1.28	0.87	0.65	0.64	1.01	1.59	1.39	1.85	1.29
1984	1.41	1.72	1.97	1.40	1.24	0.92	0.92	0.60	0.93	1.25	1.41	1.31	1.26
1985	1.34	1.52	1.39	1.27	1.07	0.76	0.74	0.69	1.12	0.96	1.73	1.24	1.15
1986	1.66	1.29	1.64	1.43	1.16	1.00	0.60	0.85	1.17	1.11	1.26	1.62	1.23
1987	1.63	1.25	1.63	1.79	1.09	0.81	0.58	0.76	0.86	1.11	1.36	1.13	1.17
1988	1.24	1.45	1.22	1.27	1.05	0.94	0.89	0.82	1.04	1.17	1.27	1.11	1.12
1989	1.21	1.28	1.74	1.20	1.26	0.85	0.76	1.06	2.01	1.13	1.53	1.24	1.27
1990	1.23	1.45	1.36	1.40	1.23	1.11	1.00	1.03	1.24	1.43	1.07	1.54	1.26
1991	1.33	1.12	1.53	1.24	0.84	0.82	0.80	0.99	1.23	1.26	1.29	1.27	1.14
1992	1.51	1.23	1.48	0.95	1.10	0.73	0.61	0.69	1.00	0.88	1.09	1.50	1.07
1993	1.53	1.51	1.52	1.74	1.02	0.80	0.66	0.78	1.04	1.13	1.48	1.40	1.21
MEAN	1.51	1.47	1.59	1.40	1.15	0.89	0.75	0.82	1.14	1.23	1.40	1.42	

STATION: 68

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	38 822	411017	411017	33 911	31 817	26 7 5	16 619	511712	231313	361114	29 721	30 631	511712
1977	421014	461015	431016	37 914	20 623	26 9 7	25 719	18 624	28 721	34 9 9	441211	461210	461210
1978	581216	4110 8	451112	541312	401114	29 818	23 810	18 621	281216	32 8 8	34 912	35 813	581216
1979	591213	631312	571215	461315	281016	18 716	18 916	22 7 0	371017	28 720	431016	3410 9	631312
1980	5311 9	4410 7	6513 8	421115	28 816	20 622	20 622	341615	241613	681313	36 819	521312	681313
1981	321011	641315	521117	491018	33 915	27 720	32 914	25 710	381714	24 718	5512 9	351410	641315
1982	411117	521110	27 8 8	39 918	27 721	271017	11 4 1	18 619	271210	481211	341612	33 8 5	521110
1983	4310 9	5312 9	541212	371014	411017	20 718	16 533	19 6 4	38 913	451212	35 814	551211	551211
1984	451214	451014	511212	481015	31 721	241313	27 721	14 4 1	261217	621413	30 723	28 721	621413
1985	31 633	541113	38 917	501117	28 7 4	23 818	23 719	18 7 5	891414	33 910	591312	331010	891414
1986	341111	41 9 9	541117	38 9 5	301710	30 722	15 522	42 8 7	31 721	31 9 9	34 818	701513	701513
1987	5211 7	40 9 8	5311 7	431315	29 8 6	18 619	12 433	17 618	19 6 5	25 718	36 9 5	31 8 4	5311 7
1988	301410	401310	28 718	35 8 6	27 8 4	25 8 9	25 818	21 716	251513	30 712	35 819	32 819	401310
1989	301214	5811 6	4410 8	32 918	39 916	18 814	23 615	331113	702013	3410 9	35 917	33 8 5	702013
1990	30 917	341515	37 910	31 917	331016	26 818	21 622	261614	261512	45 9 4	251016	36 915	45 9 4
1991	391012	23 719	301216	34 9 5	23 7 8	26 718	19 717	641314	641814	33 810	38 9 7	26 720	641814
1992	541412	241010	331212	25 717	26 7 7	19 812	16 521	19 618	35 8 7	28 7 5	29 718	531112	541412
1993	44 9 6	42 9 6	551214	391016	20 621	16 618	17 618	251415	561416	4010 9	601214	42 9 4	601214
MAX	591213	641315	6513 8	541312	411017	30 722	32 914	641314	891414	681313	601214	701513	

MAX Hmo(m): 8.9 MAX Tp(sec): 14. MAX Dp(deg): 140. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 60. DATE(gmt): 85092712

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.50 N, LONG: 74.00 W, DEPTH: 22 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 69

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	127	129	71	174	134	284	705	617	354	241	200	213	3249
0.50 - 0.99	1039	915	946	1132	1679	2376	2642	2495	1677	1391	1053	1097	18442
1.00 - 1.49	1203	1136	1139	1115	1469	1160	805	965	1085	1403	1178	1164	13822
1.50 - 1.99	833	787	837	831	647	348	208	202	596	704	868	842	7703
2.00 - 2.49	508	491	614	511	299	103	81	108	341	363	518	559	4496
2.50 - 2.99	329	239	359	252	141	39	23	33	157	163	257	282	2274
3.00 - 3.49	190	126	203	154	62	8	.	17	43	110	136	144	1193
3.50 - 3.99	104	105	133	80	19	2	.	10	24	42	60	72	651
4.00 - 4.49	58	67	70	42	14	.	.	6	7	17	15	27	323
4.50 - 4.99	34	31	46	13	.	.	.	3	11	12	15	28	193
5.00 - 5.49	19	18	28	15	.	.	.	5	8	7	8	19	127
5.50 - 5.99	12	16	15	1	.	.	.	2	4	3	10	10	73
6.00 - 6.49	8	7	2	.	.	.	.	.	6	4	2	1	30
6.50 - 6.99	.	5	1	.	.	.	.	.	2	4	.	2	14
7.00 - 7.49	.	.	.	.	.	.	.	1	3	.	.	3	7
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	1	1
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	1	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 69

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	118	111	63	92	56	176	286	213	131	97	110	138	1591
4.0 - 4.9	582	478	365	359	346	489	612	502	374	457	475	604	5643
5.0 - 5.9	661	638	521	441	423	580	582	602	463	500	546	675	6632
6.0 - 6.9	410	493	426	380	614	730	729	793	519	414	429	472	6409
7.0 - 7.9	374	356	419	406	784	756	894	831	576	440	427	371	6634
8.0 - 8.9	296	329	490	488	880	790	784	734	536	616	512	287	6742
9.0 - 9.9	363	390	420	556	596	403	387	317	379	530	436	270	5047
10.0 - 10.9	435	376	422	488	311	231	107	131	359	512	493	415	4280
11.0 - 11.9	350	292	398	351	189	104	51	56	247	343	337	300	3018
12.0 - 12.9	333	238	395	373	108	36	22	87	181	252	199	287	2511
13.0 - 13.9	237	147	276	240	68	21	5	64	136	168	134	282	1778
14.0 - 14.9	173	100	132	88	52	4	3	42	120	59	90	173	1036
15.0 - 15.9	73	35	56	38	25	.	2	21	108	30	50	115	553
16.0 - 16.9	21	51	31	17	6	.	.	23	67	17	29	48	310
17.0 - 17.9	12	18	13	2	6	.	.	23	52	15	16	19	176
18.0 - 18.9	12	7	10	1	.	.	.	11	26	9	15	6	97
19.0 - 19.9	9	7	6	.	.	.	.	6	23	4	12	2	69
20.0 - LONGER	5	6	21	.	.	.	.	8	23	1	10	.	74
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 69

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	172	251	179	178	108	103	108	94	128	104	138	169	1732
11.25 - 33.74 (22.5)	78	115	92	46	75	81	31	82	95	100	94	79	968
33.75 - 56.24 (45.0)	81	106	89	59	91	65	32	66	117	159	108	70	1043
56.25 - 78.74 (67.5)	111	119	127	102	127	116	33	126	174	181	143	75	1434
78.75 - 101.24 (90.0)	771	639	978	985	800	478	227	558	889	1109	780	909	9123
101.25 - 123.74 (112.5)	660	498	624	679	754	458	454	780	921	867	816	616	8127
123.75 - 146.24 (135.0)	525	507	481	506	596	628	870	782	671	626	420	339	6951
146.25 - 168.74 (157.5)	418	381	496	555	597	574	491	528	437	296	410	326	5509
168.75 - 191.24 (180.0)	365	325	594	543	733	948	1198	794	392	248	367	399	6906
191.25 - 213.74 (202.5)	199	208	190	158	210	296	326	239	183	155	231	284	2679
213.75 - 236.24 (225.0)	101	142	109	84	106	166	221	162	85	124	123	172	1595
236.25 - 258.74 (247.5)	67	70	41	29	46	92	108	58	43	72	55	97	778
258.75 - 281.24 (270.0)	92	55	45	46	37	84	74	47	45	58	95	93	771
281.25 - 303.74 (292.5)	236	104	89	82	25	58	102	31	28	91	161	179	1186
303.75 - 326.24 (315.0)	330	261	171	130	63	85	94	54	60	154	198	380	1980
326.25 - 348.74 (337.5)	258	291	159	138	96	88	95	63	52	120	181	277	1818
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.50 N, LONG: 74.00 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 69 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	656	92	.	.	.	.	.	.	.	.	748
1.00 - 1.99	176	1304	.	.	.	.	.	.	.	.	1480
2.00 - 2.99	.	598	101	.	.	.	.	.	.	.	699
3.00 - 3.99	.	4	129	.	.	.	.	.	.	.	133
4.00 - 4.99	.	.	20	1	.	.	.	.	.	.	21
5.00 - 5.99	.	.	.	3	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	832	1998	250	4	0	0	0	0	0	0	3084

STATION: 69 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	304	223	8	.	.	.	.	.	.	.	535
1.00 - 1.99	58	713	94	1	.	.	.	.	.	.	866
2.00 - 2.99	.	142	327	.	.	.	.	.	.	.	469
3.00 - 3.99	.	.	168	3	.	.	.	.	.	.	171
4.00 - 4.99	.	.	16	23	.	.	.	.	.	.	39
5.00 - 5.99	.	.	.	9	.	.	.	.	.	.	9
6.00 - 6.99	.	.	.	3	1	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	362	1078	613	39	1	0	0	0	0	0	2093

STATION: 69 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	270	400	1155	1521	1303	697	182	51	41	.	5620
1.00 - 1.99	53	840	1072	1183	1141	854	213	43	38	.	5437
2.00 - 2.99	.	78	466	242	399	304	129	36	1	.	1655
3.00 - 3.99	.	.	124	201	92	91	61	21	3	.	593
4.00 - 4.99	.	.	5	75	69	38	9	10	.	.	206
5.00 - 5.99	.	.	.	7	39	36	3	2	.	.	87
6.00 - 6.99	.	.	.	.	1	4	4	.	.	.	9
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	323	1318	2822	3229	3044	2024	601	163	83	0	13607

STATION: 69 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	232	738	3283	2086	547	131	32	21	7	3	7080
1.00 - 1.99	70	668	1260	1662	776	256	88	38	19	1	4838
2.00 - 2.99	.	88	389	413	411	195	88	22	6	.	1612
3.00 - 3.99	.	.	76	160	159	63	29	9	5	.	501
4.00 - 4.99	.	.	7	49	66	30	6	6	7	.	171
5.00 - 5.99	.	.	.	9	22	33	6	7	4	.	81
6.00 - 6.99	.	.	.	.	7	13	3	3	4	.	30
7.00 - 7.99	.	.	.	.	1	3	2	.	2	.	8
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	302	1494	5015	4379	1989	726	254	106	54	4	14323

STATION: 69 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	740	1798	1836	406	47	.	.	.	.	.	4827
1.00 - 1.99	145	1800	1377	840	232	13	5	4	2	.	4418
2.00 - 2.99	.	180	719	272	155	30	2	.	.	.	1358
3.00 - 3.99	.	.	172	94	36	13	1	.	.	.	316
4.00 - 4.99	.	.	2	53	13	4	.	.	.	.	72
5.00 - 5.99	.	.	.	5	11	4	.	.	.	.	20
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	885	3778	4106	1670	495	64	8	4	2	0	11012

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.50 N, LONG: 74.00 W, DEPTH: 22 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 69 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	793	201	10	.	.	.	.	.	.	.	1004
1.00 - 1.99	205	1384	97	.	.	.	.	.	.	.	1686
2.00 - 2.99	.	93	358	.	.	.	.	.	.	.	451
3.00 - 3.99	.	.	90	1	.	.	.	.	.	.	91
4.00 - 4.99	.	.	3	4	.	.	.	.	.	.	7
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	998	1678	558	5	0	0	0	0	0	0	3239

STATION: 69 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	984	5	.	.	.	.	.	.	.	.	989
1.00 - 1.99	413	170	.	.	.	.	.	.	.	.	583
2.00 - 2.99	.	28	1	.	.	.	.	.	.	.	29
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1397	204	1	0	0	0	0	0	0	0	1602

STATION: 69 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	887	1	.	.	.	.	.	.	.	.	888
1.00 - 1.99	1248	969	.	.	.	.	.	.	.	.	2217
2.00 - 2.99	.	492	5	.	.	.	.	.	.	.	497
3.00 - 3.99	.	31	6	1	.	.	.	.	.	.	38
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2135	1493	11	1	0	0	0	0	0	0	3640

STATION: 69 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4866	3458	6292	4013	1897	828	214	72	48	3	21691
1.00 - 1.99	2368	7848	3900	3686	2149	1123	306	85	59	1	21525
2.00 - 2.99	.	1699	2366	927	965	529	219	58	7	.	6770
3.00 - 3.99	.	36	765	460	287	167	91	30	8	.	1844
4.00 - 4.99	.	.	53	205	148	72	15	16	7	.	516
5.00 - 5.99	.	.	.	33	72	73	9	9	4	.	200
6.00 - 6.99	.	.	.	3	10	17	7	3	4	.	44
7.00 - 7.99	.	.	.	.	1	3	2	.	2	.	8
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	7234	13041	13376	9327	5529	2814	863	273	139	4	52600

STATION: 69

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	98	71	95	203	393	458	604	798	525	344	149	83	3821
2.50 - 4.99	917	855	1031	1283	1768	1975	2394	2328	1963	1455	1072	987	18028
5.00 - 7.49	867	817	900	908	1121	1096	974	889	945	1011	921	895	11344
7.50 - 9.99	1100	1129	1232	1106	880	659	434	377	678	1064	1139	1196	10994
10.00 - 12.49	581	502	548	451	192	101	52	51	153	346	518	576	4071
12.50 - 14.99	538	432	382	293	105	26	6	11	49	197	402	462	2903
15.00 - 17.49	199	121	149	58	5	5	.	6	2	31	66	139	781
17.50 - 19.99	134	97	95	18	.	.	.	3	1	12	41	84	485
20.00 - GREATER	30	48	32	.	.	.	.	1	4	4	12	42	173
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.50 N, LONG: 74.00 W, DEPTH: 22 M

STATION: 69

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	570	632	722	552	489	440	415	506	612	545	527	572	6582
22.50 - 67.49 (45.0)	352	395	401	348	413	288	242	437	634	654	374	248	4786
67.50 - 112.49 (90.0)	276	271	348	291	367	226	247	409	460	349	359	250	3853
112.50 - 157.49 (135.0)	202	256	334	497	413	267	346	296	378	347	298	224	3858
157.50 - 202.49 (180.0)	390	322	557	579	750	748	594	632	473	510	463	393	6411
202.50 - 247.49 (225.0)	523	537	597	588	830	1062	1195	1011	728	630	638	722	9061
247.50 - 292.49 (270.0)	792	547	523	603	601	684	782	627	514	610	711	782	7776
292.50 - 337.49 (315.0)	1359	1112	982	862	601	605	643	546	521	819	950	1273	10273
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 69

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.69	1.74	1.67	1.35	1.38	1.12	0.73	1.23	0.93	1.66	1.35	1.43	1.36
1977	1.56	1.44	1.64	1.41	0.84	0.95	0.72	0.74	0.93	1.53	1.98	1.77	1.29
1978	2.08	1.39	1.75	1.60	1.60	0.99	0.85	0.79	1.25	1.30	1.47	1.41	1.37
1979	2.08	2.05	1.96	1.56	1.36	0.84	0.78	0.88	1.56	1.11	1.52	1.79	1.45
1980	2.03	1.49	2.23	1.81	1.00	0.89	0.90	1.13	1.16	1.44	1.59	1.94	1.47
1981	1.46	2.53	1.84	1.80	1.66	0.85	1.01	0.80	1.54	1.31	1.67	1.45	1.49
1982	1.61	1.47	1.10	1.37	1.01	1.13	0.56	0.58	1.02	1.45	1.36	1.26	1.16
1983	1.58	1.86	1.90	1.49	1.34	0.90	0.70	0.69	1.04	1.68	1.46	1.99	1.38
1984	1.58	1.78	2.25	1.50	1.31	0.97	0.96	0.65	0.96	1.31	1.57	1.38	1.35
1985	1.44	1.69	1.55	1.34	1.14	0.83	0.77	0.73	1.17	0.98	1.84	1.34	1.23
1986	1.82	1.44	1.75	1.66	1.29	1.07	0.62	0.89	1.24	1.19	1.37	1.76	1.34
1987	1.76	1.47	1.88	1.92	1.16	0.83	0.60	0.80	0.90	1.20	1.44	1.21	1.26
1988	1.29	1.53	1.28	1.35	1.11	0.98	0.92	0.85	1.06	1.27	1.31	1.22	1.18
1989	1.30	1.38	1.87	1.29	1.33	0.88	0.78	1.11	2.11	1.20	1.59	1.33	1.35
1990	1.24	1.52	1.43	1.46	1.27	1.18	1.02	1.10	1.32	1.49	1.14	1.64	1.32
1991	1.38	1.19	1.65	1.30	0.87	0.87	0.81	1.01	1.28	1.38	1.40	1.36	1.21
1992	1.58	1.33	1.59	0.99	1.17	0.77	0.64	0.70	1.07	0.94	1.13	1.65	1.13
1993	1.62	1.69	1.64	1.90	1.06	0.83	0.69	0.82	1.10	1.22	1.55	1.56	1.30
MEAN	1.62	1.61	1.72	1.50	1.22	0.94	0.78	0.86	1.20	1.32	1.49	1.53	

STATION: 69

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	42 8 3	44 919	45 920	351510	35 820	25 819	16 619	551012	231313	38 910	30 735	30 632	551012
1977	45 913	481014	461016	40 914	24 6 0	39 8 2	27 721	19 619	30 819	37 8 7	491211	5414 9	5414 9
1978	631217	451210	461112	5513 9	421113	32 819	26 8 9	22 718	27 7 5	34 8 7	38 911	37 813	631217
1979	631213	661312	591215	461315	291016	20 7 4	18 916	25 8 7	39 918	30 818	451016	3810 8	661312
1980	631310	4912 9	6510 3	441116	29 816	20 622	20 622	351615	251613	691313	38 822	541312	691313
1981	35 734	691315	561019	501118	34 915	28 721	29 813	24 810	371713	25 6 3	5912 9	3913 9	691315
1982	441118	5311 9	31 8 7	40 919	28 819	271118	15 5 1	20 6 2	281210	531210	361612	34 8 5	531210
1983	4711 9	5812 9	551211	38 914	41 919	21 718	17 534	22 7 4	33 812	491211	37 814	591311	591311
1984	461214	471014	571211	501115	35 820	271014	27 819	21 6 2	251218	651413	34 821	28 721	651413
1985	31 630	591113	40 919	521118	33 8 4	25 819	25 722	19 7 5	911414	33 910	621312	35 822	911414
1986	371012	4510 9	571119	4613 9	4117 9	35 819	16 523	43 8 9	35 820	31 9 8	36 818	751412	751412
1987	5411 7	52 9 0	5612 8	441013	31 8 6	19 619	12 432	19 619	23 8 7	26 719	40 8 2	39 8 3	5612 8
1988	311410	441310	28 718	36 8 3	27 8 6	26 7 6	26 819	21 716	261512	32 712	36 825	35 822	441310
1989	37 735	6010 5	47 9 6	34 919	41 917	19 815	21 613	351213	722013	3810 9	36 917	34 8 5	722013
1990	31 819	37 918	40 910	31 918	35 917	28 819	23 721	31 9 8	271511	47 9 4	25 6 0	37 915	47 9 4
1991	41 912	25 635	341217	36 8 4	23 7 7	27 7 6	21 717	721314	641813	36 8 4	38 8 5	29 712	721314
1992	571412	29 735	331212	25 717	26 7 7	20 812	17 521	19 617	36 8 7	28 7 5	30 718	561112	571412
1993	46 9 6	4410 9	541214	381017	21 720	19 635	17 618	261415	521417	441110	611214	45 9 5	611214
MAX	631310	691315	6510 3	5513 9	421113	39 8 2	29 813	721314	911414	691313	621312	751412	

MAX Hmo(m): 9.1 MAX Tp(sec): 14. MAX Dp(deg): 137. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 100. DATE(gmt): 93031318

MEAN Hmo(m): 1.3 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.75 N, LONG: 74.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 70

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	164	174	115	230	195	415	916	813	443	281	236	265	4247
0.50 - 0.99	1146	1003	1022	1177	1856	2479	2639	2459	1710	1476	1144	1166	19277
1.00 - 1.49	1242	1198	1222	1189	1369	1041	696	868	1094	1393	1224	1254	13790
1.50 - 1.99	783	761	842	806	632	275	154	147	539	693	839	824	7295
2.00 - 2.49	500	434	560	437	238	87	47	96	297	310	460	504	3970
2.50 - 2.99	303	195	291	241	111	18	12	35	144	159	209	208	1926
3.00 - 3.49	147	97	192	134	44	4	.	18	33	74	126	113	982
3.50 - 3.99	83	92	96	57	12	1	.	15	19	40	38	50	503
4.00 - 4.49	35	51	61	29	7	.	.	1	8	11	13	27	243
4.50 - 4.99	27	30	31	13	.	.	.	4	6	8	8	18	145
5.00 - 5.49	15	15	21	7	.	.	.	4	10	5	15	17	109
5.50 - 5.99	15	15	10	.	.	.	.	3	3	6	7	11	70
6.00 - 6.49	3	3	1	.	.	.	.	.	4	5	1	2	19
6.50 - 6.99	1	4	.	.	.	.	.	1	4	3	.	1	14
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	3	5
7.50 - 7.99	.	.	.	.	.	.	.	.	3	.	.	1	4
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 70

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	165	144	87	120	101	281	433	292	175	130	142	194	2264
4.0 - 4.9	681	597	472	456	425	637	707	580	444	549	575	725	6848
5.0 - 5.9	652	632	526	427	367	522	488	530	397	406	520	667	6134
6.0 - 6.9	365	374	350	308	541	543	577	644	411	340	358	363	5174
7.0 - 7.9	287	301	343	359	663	635	751	785	512	372	338	309	5655
8.0 - 8.9	251	277	429	418	837	735	807	778	524	546	459	256	6317
9.0 - 9.9	336	385	389	553	687	493	453	366	443	615	448	257	5425
10.0 - 10.9	453	391	425	527	357	270	141	152	395	582	544	421	4658
11.0 - 11.9	397	318	479	414	218	131	73	59	295	382	410	370	3546
12.0 - 12.9	357	296	467	410	119	43	25	87	194	284	222	338	2842
13.0 - 13.9	268	159	259	212	85	24	4	66	131	133	115	252	1708
14.0 - 14.9	146	88	127	75	36	2	3	31	116	60	93	181	958
15.0 - 15.9	60	38	48	29	17	4	2	21	97	25	42	91	474
16.0 - 16.9	16	48	27	11	6	.	.	23	64	14	18	34	261
17.0 - 17.9	11	12	13	1	5	.	.	25	51	13	16	4	151
18.0 - 18.9	11	11	9	.	.	.	.	10	27	10	8	2	88
19.0 - 19.9	6	1	3	.	.	.	.	6	22	3	7	.	48
20.0 - LONGER	2	.	11	.	.	.	.	9	22	.	5	.	49
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 70

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	141	226	175	159	101	89	100	97	122	83	121	143	1557
11.25 - 33.74 (22.5)	64	87	70	38	52	70	32	77	78	80	78	55	781
33.75 - 56.24 (45.0)	76	109	83	39	98	65	31	55	98	132	83	64	933
56.25 - 78.74 (67.5)	97	97	112	90	105	97	31	119	140	161	111	68	1228
78.75 - 101.24 (90.0)	829	721	1083	1066	902	584	283	652	974	1235	878	960	10167
101.25 - 123.74 (112.5)	807	707	775	841	913	650	600	931	1119	1006	983	742	10074
123.75 - 146.24 (135.0)	629	537	546	643	639	679	950	810	676	628	438	382	7557
146.25 - 168.74 (157.5)	277	298	501	423	667	574	618	500	356	199	332	286	5031
168.75 - 191.24 (180.0)	228	169	309	325	431	608	791	597	268	214	260	275	4475
191.25 - 213.74 (202.5)	193	205	201	148	203	295	298	236	175	138	225	283	2600
213.75 - 236.24 (225.0)	67	93	63	60	68	122	199	118	54	78	65	105	1092
236.25 - 258.74 (247.5)	70	66	36	25	20	81	105	52	44	72	52	87	710
258.75 - 281.24 (270.0)	126	69	48	56	55	97	88	57	50	60	106	126	938
281.25 - 303.74 (292.5)	261	122	106	109	26	89	115	39	37	104	189	237	1434
303.75 - 326.24 (315.0)	341	280	206	151	71	103	107	57	72	163	224	397	2172
326.25 - 348.74 (337.5)	258	286	150	147	113	117	116	67	57	111	175	254	1851
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.75 N, LONG: 74.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 70 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	725	2	.	.	.	.	.	.	.	.	727
1.00 - 1.99	500	1076	.	.	.	.	.	.	.	.	1576
2.00 - 2.99	.	403	14	1	.	.	.	.	.	.	418
3.00 - 3.99	.	17	45	1	.	.	.	.	.	.	63
4.00 - 4.99	.	.	5	.	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1225	1498	64	2	0	0	0	0	0	0	2789

STATION: 70 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	334	159	5	.	.	.	.	.	.	.	498
1.00 - 1.99	86	726	23	.	.	.	.	.	.	.	835
2.00 - 2.99	.	144	266	.	.	.	.	.	.	.	410
3.00 - 3.99	.	1	124	.	.	.	.	.	.	.	125
4.00 - 4.99	.	.	6	4	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	420	1030	424	6	0	0	0	0	0	0	1880

STATION: 70 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	275	463	1358	2182	1735	730	156	44	28	.	6971
1.00 - 1.99	62	818	1074	1642	1534	804	182	43	10	.	6169
2.00 - 2.99	.	82	483	405	521	298	126	32	.	.	1947
3.00 - 3.99	.	2	125	250	113	84	40	17	.	.	631
4.00 - 4.99	.	.	2	78	82	35	2	2	1	.	202
5.00 - 5.99	.	.	.	11	50	43	9	4	.	.	117
6.00 - 6.99	.	.	.	.	5	3	.	.	.	.	8
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	337	1365	3042	4568	4040	1997	515	142	39	0	16045

STATION: 70 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	281	791	3589	2379	583	106	23	16	9	3	7780
1.00 - 1.99	71	704	1311	1853	908	212	80	41	18	1	5199
2.00 - 2.99	.	85	346	432	468	198	75	16	6	.	1626
3.00 - 3.99	.	.	71	158	157	74	23	9	6	.	498
4.00 - 4.99	.	.	2	43	57	28	6	4	4	.	144
5.00 - 5.99	.	.	.	4	12	26	5	6	5	.	58
6.00 - 6.99	.	.	.	.	5	10	3	5	2	.	25
7.00 - 7.99	.	.	.	.	.	4	1	.	4	.	9
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	352	1580	5319	4869	2190	659	216	97	54	4	15340

STATION: 70 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	842	1616	1343	280	48	.	.	.	.	.	4129
1.00 - 1.99	226	1728	757	234	76	7	4	.	.	.	3032
2.00 - 2.99	.	160	608	46	13	1	.	.	.	.	828
3.00 - 3.99	.	.	67	61	9	1	.	.	.	.	138
4.00 - 4.99	.	.	.	16	10	1	.	.	.	.	27
5.00 - 5.99	.	.	.	.	2	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1068	3504	2775	637	158	10	4	0	0	0	8156

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.75 N, LONG: 74.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 70 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	938	136	13	.	.	.	.	.	.	.	1087
1.00 - 1.99	654	394	211	.	.	.	.	.	.	.	1259
2.00 - 2.99	.	25	116	.	.	.	.	.	.	.	141
3.00 - 3.99	.	.	2	1	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1592	555	342	1	0	0	0	0	0	0	2490

STATION: 70 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1283	.	.	.	.	.	.	.	.	.	1283
1.00 - 1.99	489	116	.	.	.	.	.	.	.	.	605
2.00 - 2.99	.	31	.	.	.	.	.	.	.	.	31
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1772	148	0	0	0	0	0	0	0	0	1920

STATION: 70 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1049	.	.	.	.	.	.	.	.	.	1049
1.00 - 1.99	1297	1113	.	.	.	.	.	.	.	.	2410
2.00 - 2.99	.	494	1	.	.	.	.	.	.	.	495
3.00 - 3.99	.	21	5	.	.	.	.	.	.	.	26
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2346	1628	6	0	0	0	0	0	0	0	3980

STATION: 70 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5727	3167	6308	4841	2366	836	179	60	37	3	23524
1.00 - 1.99	3385	6675	3376	3729	2518	1023	266	84	28	1	21085
2.00 - 2.99	.	1424	1834	884	1002	497	201	48	6	.	5896
3.00 - 3.99	.	42	439	471	279	159	63	26	6	.	1485
4.00 - 4.99	.	.	15	141	149	64	8	6	5	.	388
5.00 - 5.99	.	.	.	17	64	69	14	10	5	.	179
6.00 - 6.99	.	.	.	.	10	13	3	5	2	.	33
7.00 - 7.99	.	.	.	.	.	4	1	.	4	.	9
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	9112	11308	11972	10083	6388	2666	735	239	93	4	52600

STATION: 70

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	122	78	123	223	433	494	671	837	578	382	170	100	4211
2.50 - 4.99	905	877	1012	1287	1714	1952	2341	2276	1904	1435	1067	993	17763
5.00 - 7.49	851	792	891	903	1125	1084	951	887	934	982	898	863	11161
7.50 - 9.99	1101	1124	1211	1093	864	657	435	385	693	1067	1132	1188	10950
10.00 - 12.49	566	501	547	435	215	98	59	53	148	348	537	586	4093
12.50 - 14.99	541	425	396	299	103	31	7	17	55	194	384	464	2916
15.00 - 17.49	204	123	149	63	10	4	.	3	3	34	74	138	805
17.50 - 19.99	143	98	104	17	.	.	.	5	1	16	46	87	517
20.00 - GREATER	31	54	31	.	.	.	.	1	4	6	12	45	184
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 39.75 N, LONG: 74.00 W, DEPTH: 18 M

STATION: 70

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	541	602	716	532	481	427	435	501	587	513	497	544	6376
22.50 - 67.49 (45.0)	340	397	392	351	416	288	254	445	597	635	363	244	4722
67.50 - 112.49 (90.0)	285	283	346	306	387	211	252	386	463	337	356	255	3867
112.50 - 157.49 (135.0)	213	255	331	504	401	289	354	310	375	348	296	221	3897
157.50 - 202.49 (180.0)	383	323	556	561	728	724	581	607	468	519	459	403	6312
202.50 - 247.49 (225.0)	526	544	597	590	810	1054	1155	1014	737	650	652	708	9037
247.50 - 292.49 (270.0)	820	556	543	591	621	706	775	634	560	635	731	823	7995
292.50 - 337.49 (315.0)	1356	1112	983	885	620	621	658	567	533	827	966	1266	10394
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 70

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.57	1.56	1.56	1.27	1.26	1.02	0.67	1.17	0.91	1.59	1.27	1.34	1.27
1977	1.48	1.34	1.52	1.28	0.80	0.92	0.67	0.66	0.90	1.48	1.94	1.67	1.22
1978	2.03	1.30	1.64	1.49	1.53	0.96	0.81	0.75	1.20	1.25	1.42	1.29	1.31
1979	1.98	1.94	1.88	1.52	1.26	0.80	0.73	0.85	1.50	1.02	1.42	1.66	1.38
1980	1.92	1.38	2.05	1.74	0.93	0.78	0.78	1.08	1.13	1.37	1.46	1.79	1.37
1981	1.36	2.43	1.64	1.56	1.57	0.76	0.96	0.76	1.49	1.27	1.57	1.35	1.39
1982	1.49	1.35	1.08	1.29	0.97	1.07	0.52	0.55	0.97	1.35	1.30	1.14	1.09
1983	1.51	1.74	1.80	1.43	1.23	0.83	0.67	0.65	0.99	1.59	1.41	1.91	1.31
1984	1.50	1.72	2.14	1.43	1.16	0.94	0.83	0.63	0.88	1.28	1.48	1.33	1.27
1985	1.37	1.58	1.42	1.26	1.06	0.78	0.72	0.70	1.09	0.92	1.79	1.24	1.16
1986	1.70	1.36	1.60	1.60	1.20	0.96	0.58	0.81	1.17	1.13	1.30	1.69	1.26
1987	1.64	1.37	1.75	1.85	1.13	0.77	0.56	0.76	0.88	1.18	1.38	1.15	1.20
1988	1.21	1.43	1.18	1.25	1.08	0.91	0.82	0.77	1.01	1.23	1.22	1.11	1.10
1989	1.23	1.28	1.74	1.20	1.27	0.84	0.73	1.09	2.07	1.17	1.49	1.25	1.28
1990	1.15	1.40	1.34	1.40	1.20	1.09	0.93	1.10	1.29	1.45	1.08	1.54	1.25
1991	1.32	1.13	1.55	1.25	0.82	0.82	0.75	0.95	1.24	1.34	1.31	1.27	1.14
1992	1.53	1.27	1.55	0.93	1.12	0.73	0.58	0.66	1.02	0.89	1.04	1.56	1.07
1993	1.51	1.59	1.56	1.81	1.00	0.76	0.66	0.78	1.02	1.16	1.46	1.48	1.23
MEAN	1.53	1.51	1.61	1.42	1.14	0.87	0.72	0.82	1.15	1.26	1.41	1.43	

STATION: 70

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	37 7 2	421018	401010	32 7 3	32 816	22 7 6	15 619	571711	241312	371013	291110	29 632	571711
1977	43 912	461114	431015	401013	20 534	35 8 4	22 721	19 619	28 910	36 9 9	511210	5414 9	5414 9
1978	581216	4410 8	451211	5213 9	421112	30 819	27 9 9	21 718	27 7 6	32 7 5	391011	35 812	581216
1979	611312	651312	561214	431314	26 718	20 6 3	18 715	25 8 6	37 917	27 817	421015	3710 9	651312
1980	651310	4911 9	6012 8	421214	28 816	19 533	16 612	371914	251612	691312	361012	521210	691312
1981	311011	661414	47 8 0	391117	34 914	22 720	27 913	21 8 9	381813	25 719	5511 9	3711 9	661414
1982	431216	4810 9	30 8 8	38 919	21 819	27 719	13 5 2	20 719	291110	6012 9	371511	30 7 3	6012 9
1983	4810 9	6212 9	561210	361013	32 918	20 619	17 533	21 7 4	29 912	491210	36 814	591410	6212 9
1984	431213	441013	591210	481014	28 820	251312	21 819	18 5 1	231312	641513	31 818	28 714	641513
1985	31 630	581212	39 917	491117	30 8 7	23 619	23 819	18 6 4	841312	30 8 8	611311	351010	841312
1986	371012	4510 9	491018	4813 9	361710	29 910	14 423	38 811	291611	291110	34 818	751412	751412
1987	5211 8	46 836	5412 8	4510 12	28 7 4	19 718	12 432	16 617	24 8 7	2411 9	39 8 4	3910 8	5412 8
1988	2812 9	441310	26 718	33 8 5	27 7 4	25 7 8	25 719	21 716	271512	31 811	33 913	27 821	441310
1989	33 8 7	5712 8	461010	33 918	39 916	17 619	21 613	351212	772012	4011 9	341212	30 9 8	772012
1990	29 819	35 819	40 910	30 812	34 817	27 719	211212	33 9 8	281511	42 9 6	231016	36 914	42 9 6
1991	401011	21 636	31 810	35 8 6	22 7 7	26 7 7	21 717	681313	681813	3613 9	34 8 7	28 712	681813
1992	581412	26 634	341212	24 717	23 7 7	20 812	15 520	18 617	35 9 9	27 7 5	29 718	561211	581412
1993	4310 8	4611 9	511213	36 916	201311	17 535	17 618	261414	441416	4510 9	581213	4210 8	581213
MAX	651310	661414	6012 8	5213 9	421112	35 8 4	27 913	681313	841312	691312	611311	751412	

MAX Hmo(m): 8.4 MAX Tp(sec): 13. MAX Dp(deg): 115. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 100. DATE(gmt): 93031318

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.00 N, LONG: 74.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 71

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	216	216	166	296	255	488	1031	944	534	342	288	329	5105
0.50 - 0.99	1235	1112	1144	1239	1935	2510	2620	2433	1748	1531	1196	1231	19934
1.00 - 1.49	1235	1246	1227	1190	1322	999	638	796	1070	1392	1265	1297	13677
1.50 - 1.99	776	692	794	746	577	233	128	130	503	665	803	775	6822
2.00 - 2.49	485	395	518	420	238	75	34	88	260	279	395	456	3643
2.50 - 2.99	246	136	276	223	83	13	13	31	119	145	204	184	1673
3.00 - 3.49	121	98	154	108	36	2	.	17	36	53	104	87	816
3.50 - 3.99	64	81	88	51	9	.	.	12	12	21	26	37	401
4.00 - 4.49	37	42	49	29	9	.	.	5	10	12	13	25	231
4.50 - 4.99	23	26	26	15	.	.	.	4	10	7	6	12	129
5.00 - 5.49	19	14	11	3	.	.	.	2	3	5	12	16	85
5.50 - 5.99	4	7	8	.	.	.	.	2	6	5	6	7	45
6.00 - 6.49	3	5	3	.	.	.	.	.	3	4	2	3	23
6.50 - 6.99	.	2	.	.	.	.	.	.	4	3	.	2	11
7.00 - 7.49	.	.	.	.	.	.	.	.	2	.	.	3	5
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 71

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	237	217	116	176	181	357	503	373	239	181	215	277	3072
4.0 - 4.9	739	722	550	503	479	707	733	578	459	592	634	784	7480
5.0 - 5.9	628	563	473	367	302	411	388	474	327	363	474	601	5371
6.0 - 6.9	318	307	275	260	496	519	542	626	416	329	318	301	4707
7.0 - 7.9	243	267	314	357	678	616	805	822	477	339	317	246	5481
8.0 - 8.9	251	275	411	405	813	729	805	755	534	553	451	284	6266
9.0 - 9.9	334	401	424	560	713	487	446	355	456	631	484	298	5589
10.0 - 10.9	468	392	452	551	370	285	147	156	394	577	523	443	4758
11.0 - 11.9	395	324	490	421	193	144	60	63	298	375	417	385	3565
12.0 - 12.9	375	280	482	402	119	37	26	76	188	270	222	336	2813
13.0 - 13.9	267	150	265	209	76	19	5	61	150	130	108	234	1674
14.0 - 14.9	124	88	130	68	17	4	3	28	110	56	83	177	888
15.0 - 15.9	52	37	42	25	18	5	1	20	89	24	42	75	430
16.0 - 16.9	18	37	25	16	6	.	.	28	61	20	19	21	251
17.0 - 17.9	8	4	14	.	3	.	.	22	54	13	10	1	129
18.0 - 18.9	6	3	.	.	.	.	.	11	24	9	3	.	56
19.0 - 19.9	1	1	.	.	.	.	.	7	22	2	.	1	34
20.0 - LONGER	.	4	1	.	.	.	.	9	22	.	.	.	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 71

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	79	137	86	92	62	73	75	74	95	53	76	66	968
11.25 - 33.74 (22.5)	33	53	41	23	34	48	16	50	50	52	50	39	489
33.75 - 56.24 (45.0)	67	104	77	40	71	65	33	59	85	95	80	46	822
56.25 - 78.74 (67.5)	77	89	82	61	91	60	26	67	77	152	76	61	919
78.75 - 101.24 (90.0)	644	581	942	882	789	549	243	531	861	1082	745	833	8682
101.25 - 123.74 (112.5)	909	761	873	969	959	626	566	1019	1155	1094	1048	815	10794
123.75 - 146.24 (135.0)	714	634	635	722	708	731	1008	872	836	752	515	473	8600
146.25 - 168.74 (157.5)	341	322	368	485	726	650	685	555	389	213	375	322	5631
168.75 - 191.24 (180.0)	270	219	364	364	464	630	830	582	296	240	315	336	4910
191.25 - 213.74 (202.5)	131	133	130	100	139	238	214	202	131	126	160	180	1884
213.75 - 236.24 (225.0)	82	102	76	61	87	149	215	152	78	89	79	134	1304
236.25 - 258.74 (247.5)	87	85	41	29	38	82	112	60	48	84	67	115	848
258.75 - 281.24 (270.0)	155	93	66	75	68	113	98	63	55	67	131	159	1143
281.25 - 303.74 (292.5)	322	155	137	115	40	96	121	49	56	135	239	291	1756
303.75 - 326.24 (315.0)	327	301	206	159	73	119	113	62	59	153	216	390	2178
326.25 - 348.74 (337.5)	226	303	140	143	115	91	109	67	49	77	148	204	1672
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.00 N, LONG: 74.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 71 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	882										882
1.00 - 1.99	623	254									877
2.00 - 2.99		128									128
3.00 - 3.99		11	1								12
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1505	393	1	0	0	0	0	0	0	0	1899

STATION: 71 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	337	166									503
1.00 - 1.99	94	568	7								669
2.00 - 2.99		276	50								326
3.00 - 3.99		1	67								68
4.00 - 4.99			5	3							8
5.00 - 5.99				1							1
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	431	1011	129	4	0	0	0	0	0	0	1575

STATION: 71 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	302	499	1259	1920	1531	583	107	13	7		6221
1.00 - 1.99	75	840	951	1428	1340	695	161	20			5510
2.00 - 2.99		115	457	377	381	221	72	16	1		1640
3.00 - 3.99			99	180	94	72	15	10			470
4.00 - 4.99			1	58	58	22		2			141
5.00 - 5.99				3	28	31	6				68
6.00 - 6.99					2	7					9
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	377	1454	2767	3966	3434	1631	361	61	8	0	14059

STATION: 71 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	311	859	3932	2869	889	180	52	25	10	4	9131
1.00 - 1.99	76	758	1447	2089	1118	371	104	51	21		6035
2.00 - 2.99		84	358	496	515	215	109	22	5		1804
3.00 - 3.99			77	142	152	83	31	9	7		501
4.00 - 4.99			2	54	70	33	9	10	7		185
5.00 - 5.99				3	15	25	6	5	3		57
6.00 - 6.99					5	11	3	2	4		25
7.00 - 7.99						3	1		1		5
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	387	1701	5816	5653	2764	921	315	124	58	4	17743

STATION: 71 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	910	1631	1498	348	62						4449
1.00 - 1.99	277	1544	858	247	74	7	5				3012
2.00 - 2.99		174	535	57	21	1					788
3.00 - 3.99			69	54	11	1					135
4.00 - 4.99				16	9	1					26
5.00 - 5.99				1	3						4
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1187	3349	2960	723	180	10	5	0	0	0	8414

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.00 N, LONG: 74.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 71 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1184	21	4	.	.	.	.	.	.	.	1209
1.00 - 1.99	941	197	38	.	.	.	.	.	.	.	1176
2.00 - 2.99	.	45	26	.	.	.	.	.	.	.	71
3.00 - 3.99	.	.	.	1	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2125	263	68	1	0	0	0	0	0	0	2457

STATION: 71 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1520	.	.	.	.	.	.	.	.	.	1520
1.00 - 1.99	606	155	.	.	.	.	.	.	.	.	761
2.00 - 2.99	.	37	.	.	.	.	.	.	.	.	37
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2126	193	0	0	0	0	0	0	0	0	2319

STATION: 71 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1124	.	.	.	.	.	.	.	.	.	1124
1.00 - 1.99	1290	1169	.	.	.	.	.	.	.	.	2459
2.00 - 2.99	.	522	.	.	.	.	.	.	.	.	522
3.00 - 3.99	.	23	6	.	.	.	.	.	.	.	29
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2414	1714	6	0	0	0	0	0	0	0	4134

STATION: 71 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6570	3176	6693	5137	2482	763	159	38	17	4	25039
1.00 - 1.99	3982	5485	3301	3764	2532	1073	270	71	21	.	20499
2.00 - 2.99	.	1381	1426	930	917	437	181	38	6	.	5316
3.00 - 3.99	.	36	319	377	257	156	46	19	7	.	1217
4.00 - 4.99	.	.	8	131	137	56	9	12	7	.	360
5.00 - 5.99	.	.	.	8	46	56	12	5	3	.	130
6.00 - 6.99	.	.	.	.	7	18	3	2	4	.	34
7.00 - 7.99	.	.	.	.	.	3	1	.	1	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10552	10078	11747	10347	6378	2562	681	185	66	4	52600

STATION: 71

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	147	101	165	267	490	545	737	900	651	417	202	121	4743
2.50 - 4.99	900	875	995	1266	1660	1895	2263	2188	1829	1406	1032	999	17308
5.00 - 7.49	833	766	886	885	1111	1070	957	895	928	957	884	836	11008
7.50 - 9.99	1100	1128	1193	1079	854	668	432	387	694	1071	1131	1181	10918
10.00 - 12.49	556	489	541	428	221	107	68	66	151	354	532	578	4091
12.50 - 14.99	531	433	394	309	115	30	7	21	59	194	391	461	2945
15.00 - 17.49	215	127	152	66	13	4	.	1	3	39	91	150	861
17.50 - 19.99	146	96	99	20	.	1	.	4	3	19	43	91	522
20.00 - GREATER	36	57	39	.	.	.	.	2	2	7	14	47	204
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.00 N, LONG: 74.00 W, DEPTH: 18 M

STATION: 71

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	502	598	703	523	468	410	435	491	570	490	471	516	6177
22.50 - 67.49 (45.0)	330	397	400	360	431	292	275	442	588	619	355	232	4721
67.50 - 112.49 (90.0)	289	286	356	332	392	220	242	401	440	327	352	266	3903
112.50 - 157.49 (135.0)	223	256	314	500	397	272	372	290	376	338	300	221	3859
157.50 - 202.49 (180.0)	372	323	568	552	713	695	551	584	476	520	453	408	6215
202.50 - 247.49 (225.0)	538	545	590	589	813	1059	1122	1024	749	682	672	710	9093
247.50 - 292.49 (270.0)	856	564	556	582	632	718	769	652	579	657	773	858	8196
292.50 - 337.49 (315.0)	1354	1103	977	882	618	654	698	580	542	831	944	1253	10436
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 71

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.49	1.49	1.53	1.22	1.23	0.97	0.65	1.11	0.87	1.50	1.21	1.30	1.21
1977	1.41	1.30	1.47	1.23	0.76	0.90	0.63	0.63	0.87	1.42	1.90	1.65	1.18
1978	2.01	1.17	1.57	1.41	1.52	0.95	0.78	0.72	1.12	1.19	1.37	1.25	1.26
1979	1.93	1.81	1.81	1.49	1.23	0.76	0.72	0.83	1.44	0.99	1.37	1.59	1.33
1980	1.76	1.25	1.93	1.73	0.87	0.75	0.74	1.05	1.09	1.31	1.37	1.63	1.29
1981	1.27	2.33	1.50	1.46	1.48	0.73	0.93	0.71	1.41	1.20	1.43	1.28	1.30
1982	1.40	1.25	1.04	1.24	0.92	1.03	0.49	0.54	0.93	1.27	1.23	1.02	1.03
1983	1.42	1.60	1.69	1.39	1.19	0.79	0.64	0.62	0.93	1.50	1.38	1.84	1.25
1984	1.37	1.68	2.01	1.38	1.11	0.91	0.79	0.59	0.81	1.20	1.37	1.29	1.21
1985	1.30	1.51	1.32	1.23	1.00	0.75	0.69	0.67	1.02	0.87	1.75	1.19	1.10
1986	1.60	1.27	1.51	1.50	1.12	0.90	0.57	0.76	1.09	1.07	1.25	1.61	1.19
1987	1.54	1.21	1.58	1.77	1.08	0.75	0.54	0.75	0.86	1.14	1.34	1.10	1.14
1988	1.16	1.39	1.14	1.17	1.05	0.86	0.79	0.74	0.97	1.19	1.18	1.03	1.06
1989	1.18	1.19	1.62	1.14	1.25	0.82	0.70	1.06	1.96	1.14	1.43	1.17	1.22
1990	1.12	1.36	1.28	1.37	1.16	1.04	0.90	1.09	1.24	1.39	1.02	1.47	1.20
1991	1.26	1.09	1.49	1.21	0.79	0.78	0.73	0.92	1.16	1.27	1.21	1.20	1.09
1992	1.48	1.20	1.50	0.88	1.08	0.72	0.56	0.65	0.98	0.84	0.99	1.48	1.03
1993	1.41	1.48	1.49	1.74	0.96	0.73	0.66	0.74	0.96	1.12	1.38	1.36	1.17
MEAN	1.45	1.42	1.53	1.36	1.10	0.84	0.69	0.79	1.09	1.20	1.34	1.36	

STATION: 71

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	36 818	421018	391010	28 7 5	32 816	20 6 6	14 619	511712	221313	361013	291011	28 631	511712
1977	44 913	481114	431015	411013	19 534	31 7 3	21 914	20 718	31 910	32 911	521311	5214 9	5214 9
1978	551216	4210 9	461015	511310	431212	31 819	28 910	22 718	251115	29 818	411012	34 812	551216
1979	621312	601212	571214	411314	25 618	19 716	19 715	28 8 9	37 917	26 816	411015	3610 9	621312
1980	581210	4410 9	501114	421214	28 816	20 534	16 613	371914	251712	661413	361013	501210	661413
1981	291011	671414	401216	39 915	35 914	20 522	27 712	20 7 9	351713	26 810	4611 9	3410 9	671414
1982	431216	43 9 8	29 7 7	38 919	18 819	27 719	12 4 1	21 719	291310	661310	341512	26 717	661310
1983	401210	601210	551210	36 812	34 918	19 619	17 533	22 6 3	31 912	501211	37 814	601411	601411
1984	38 9 9	441013	621410	471114	26 819	251312	19 818	15 6 6	221313	601513	31 818	28 715	621410
1985	31 630	581113	40 917	491117	29 7 6	23 619	23 818	17 6 5	741414	29 8 9	601412	341011	741414
1986	371012	4510 9	501018	461310	341710	26 910	13 424	36 7 9	271612	271111	34 818	731412	731412
1987	48 9 7	36 635	521314	451012	26 910	20 718	12 432	15 616	25 8 8	24 619	331011	3710 9	521314
1988	27 7 9	441311	26 818	34 910	27 710	22 6 4	24 719	22 716	271512	32 811	33 913	24 819	441311
1989	291213	5111 9	451110	33 918	38 916	17 618	21 613	331212	712013	421110	34 916	29 7 6	712013
1990	29 712	35 818	401010	31 812	34 817	27 718	21 717	3510 9	261412	39 8 4	231016	361013	401010
1991	401011	21 531	34 910	32 7 4	22 6 7	23 6 6	22 717	581313	631813	341210	32 9 9	29 712	631813
1992	541412	24 8 9	331212	23 717	23 6 7	20 812	15 516	17 617	30 7 8	25 7 7	29 717	581212	581212
1993	411016	491110	501011	35 916	19 618	16 617	16 619	261414	401315	441010	551313	4010 9	551313
MAX	621312	671414	621410	511310	431212	31 819	28 910	581313	741414	661310	601412	731412	

MAX Hmo(m): 7.4 MAX Tp(sec): 14. MAX Dp(deg): 137. DATE(gmt): 85092718

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 95. DATE(gmt): 93031318

MEAN Hmo(m): 1.2 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.1

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.25 N, LONG: 73.75 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 72

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	220	222	213	318	258	456	898	895	539	384	293	333	5029
0.50 - 0.99	1169	1027	1083	1231	1848	2354	2559	2331	1714	1528	1136	1183	19163
1.00 - 1.49	1202	1152	1132	1142	1315	1065	740	915	1101	1347	1181	1252	13544
1.50 - 1.99	824	775	839	765	647	337	196	171	567	706	896	778	7501
2.00 - 2.49	492	431	543	441	239	78	55	87	259	267	434	489	3815
2.50 - 2.99	271	172	288	198	86	23	16	23	70	134	229	211	1721
3.00 - 3.49	128	101	158	98	40	7	.	19	29	44	74	101	799
3.50 - 3.99	54	83	91	65	15	.	.	12	18	19	35	55	447
4.00 - 4.49	45	54	49	37	10	.	.	4	6	11	13	21	250
4.50 - 4.99	28	28	30	16	6	.	.	4	5	8	9	7	141
5.00 - 5.49	17	10	17	8	.	.	.	1	5	5	7	15	85
5.50 - 5.99	8	7	12	1	.	.	.	2	5	5	9	6	55
6.00 - 6.49	3	3	5	.	.	.	.	.	.	3	2	9	25
6.50 - 6.99	1	3	3	.	.	.	.	.	.	3	2	1	13
7.00 - 7.49	2	2	1	.	.	.	.	.	1	.	.	1	7
7.50 - 7.99	.	2	.	.	.	.	.	.	.	.	.	2	4
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	.	1
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 72

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	257	211	149	171	144	294	357	296	184	173	215	285	2736
4.0 - 4.9	792	658	568	561	504	618	708	566	476	632	642	777	7502
5.0 - 5.9	861	891	728	577	543	679	568	636	569	702	804	936	8494
6.0 - 6.9	445	398	424	372	522	611	633	685	441	392	419	465	5807
7.0 - 7.9	280	275	370	376	748	695	875	917	564	366	316	204	5986
8.0 - 8.9	254	297	468	547	953	825	802	725	656	688	536	314	7065
9.0 - 9.9	348	379	418	631	586	368	369	249	411	660	497	366	5282
10.0 - 10.9	382	301	414	404	215	137	109	114	228	355	414	393	3466
11.0 - 11.9	302	263	353	293	103	47	32	58	167	181	229	246	2274
12.0 - 12.9	245	201	296	227	82	27	5	55	122	149	92	160	1661
13.0 - 13.9	169	87	153	103	41	14	2	45	126	69	63	156	1028
14.0 - 14.9	66	50	77	26	8	1	3	26	117	38	52	126	590
15.0 - 15.9	33	27	32	25	8	4	1	21	85	23	29	27	315
16.0 - 16.9	19	28	6	7	4	.	.	25	62	11	2	7	171
17.0 - 17.9	7	1	7	.	3	.	.	22	47	12	10	2	111
18.0 - 18.9	4	2	.	.	.	.	.	7	26	11	.	.	50
19.0 - 19.9	.	3	1	.	.	.	.	7	18	2	.	.	31
20.0 - LONGER	.	.	.	.	.	.	.	10	21	.	.	.	31
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 72

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	167	251	228	192	89	85	97	100	131	96	143	178	1757
11.25 - 33.74 (22.5)	99	107	109	65	85	88	22	76	75	104	82	81	993
33.75 - 56.24 (45.0)	71	115	77	45	90	51	20	53	90	122	90	64	888
56.25 - 78.74 (67.5)	83	88	93	78	98	55	23	61	80	151	92	64	966
78.75 - 101.24 (90.0)	283	275	368	290	503	339	143	368	576	459	341	234	4179
101.25 - 123.74 (112.5)	745	588	862	932	836	473	441	892	1042	1156	929	834	9730
123.75 - 146.24 (135.0)	634	628	607	741	660	694	936	882	857	804	529	491	8463
146.25 - 168.74 (157.5)	473	423	676	708	818	679	696	596	496	342	450	393	6750
168.75 - 191.24 (180.0)	313	249	436	438	581	830	1021	715	362	275	372	366	5958
191.25 - 213.74 (202.5)	173	164	166	146	212	292	237	230	172	187	215	219	2413
213.75 - 236.24 (225.0)	149	158	136	85	123	183	265	195	134	148	150	206	1932
236.25 - 258.74 (247.5)	89	97	55	47	48	92	105	53	66	85	91	139	967
258.75 - 281.24 (270.0)	165	98	66	81	70	113	87	58	54	95	149	188	1224
281.25 - 303.74 (292.5)	341	143	152	111	38	99	114	40	42	136	228	288	1732
303.75 - 326.24 (315.0)	371	321	245	183	72	121	121	74	74	193	239	434	2448
326.25 - 348.74 (337.5)	308	367	188	178	141	126	136	71	69	111	220	285	2200
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.25 N, LONG: 73.75 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 72 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	919	.	.	.	.	.	.	.	.	.	919
1.00 - 1.99	554	1274	.	.	.	.	.	.	.	.	1828
2.00 - 2.99	.	475	19	.	.	.	.	.	.	.	494
3.00 - 3.99	.	14	51	.	.	.	.	.	.	.	65
4.00 - 4.99	.	.	8	.	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1473	1763	78	0	0	0	0	0	0	0	3314

STATION: 72 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	446	59	.	.	.	.	.	.	.	.	505
1.00 - 1.99	85	845	1	.	.	.	.	.	.	.	931
2.00 - 2.99	.	332	9	.	.	.	.	.	.	.	341
3.00 - 3.99	.	2	40	2	.	.	.	.	.	.	44
4.00 - 4.99	.	.	13	.	.	.	.	.	.	.	13
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	531	1238	63	2	0	0	0	0	0	0	1834

STATION: 72 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	327	332	1509	1117	235	71	10	1	1	.	3603
1.00 - 1.99	63	806	1225	474	63	7	4	.	.	.	2642
2.00 - 2.99	.	138	495	209	22	11	5	3	.	.	883
3.00 - 3.99	.	1	119	132	38	3	.	.	.	.	293
4.00 - 4.99	.	.	5	58	28	1	.	.	.	.	92
5.00 - 5.99	.	.	1	14	20	12	.	.	.	.	47
6.00 - 6.99	.	.	.	.	7	4	.	.	.	.	11
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	1	.	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	390	1277	3354	2004	414	110	19	4	1	0	7573

STATION: 72 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	331	868	3854	2824	1154	430	143	38	15	4	9661
1.00 - 1.99	74	802	1621	1952	1252	631	168	75	19	.	6594
2.00 - 2.99	.	86	394	490	535	247	116	16	5	.	1889
3.00 - 3.99	.	1	91	158	154	91	17	13	10	.	535
4.00 - 4.99	.	.	9	72	79	31	12	10	3	.	216
5.00 - 5.99	.	.	.	20	20	26	4	2	5	.	77
6.00 - 6.99	.	.	.	.	13	8	2	.	.	.	23
7.00 - 7.99	.	.	.	.	1	7	2	.	.	.	10
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	405	1757	5969	5516	3208	1471	464	154	57	4	19005

STATION: 72 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	888	1962	1939	476	91	.	.	.	.	.	5356
1.00 - 1.99	179	1832	854	490	149	22	3	3	.	.	3532
2.00 - 2.99	.	285	585	92	43	10	.	.	.	.	1015
3.00 - 3.99	.	1	129	109	12	4	.	.	.	.	255
4.00 - 4.99	.	.	5	49	8	.	.	.	.	.	62
5.00 - 5.99	.	.	.	9	6	1	.	.	.	.	16
6.00 - 6.99	.	.	.	.	4	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1067	4080	3512	1225	313	37	3	3	0	0	10240

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.25 N, LONG: 73.75 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 72 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1180	93	10	.	.	.	.	.	.	.	1283
1.00 - 1.99	279	1799	10	.	.	.	.	.	.	.	2088
2.00 - 2.99	.	272	32	.	.	.	.	.	.	.	304
3.00 - 3.99	.	1	12	1	.	.	.	.	.	.	14
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1459	2165	64	1	0	0	0	0	0	0	3689

STATION: 72 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1578	.	.	.	.	.	.	.	.	.	1578
1.00 - 1.99	646	148	1	.	.	.	.	.	.	.	795
2.00 - 2.99	.	39	4	.	.	.	.	.	.	.	43
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2224	189	5	0	0	0	0	0	0	0	2418

STATION: 72 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1287	.	.	.	.	.	.	.	.	.	1287
1.00 - 1.99	1402	1233	.	.	.	.	.	.	.	.	2635
2.00 - 2.99	.	566	1	.	.	.	.	.	.	.	567
3.00 - 3.99	.	33	5	.	.	.	.	.	.	.	38
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2689	1832	6	0	0	0	0	0	0	0	4527

STATION: 72 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6956	3314	7312	4417	1480	501	153	39	16	4	24192
1.00 - 1.99	3282	8739	3712	2916	1464	660	175	78	19	.	21045
2.00 - 2.99	.	2193	1539	791	600	268	121	19	5	.	5536
3.00 - 3.99	.	55	447	402	204	98	17	13	10	.	1246
4.00 - 4.99	.	.	40	179	115	32	12	10	3	.	391
5.00 - 5.99	.	.	1	43	46	39	4	2	5	.	140
6.00 - 6.99	.	.	.	.	24	12	2	.	.	.	38
7.00 - 7.99	.	.	.	.	1	8	2	.	.	.	11
8.00 - 8.99	.	.	.	.	1	.	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10238	14301	13051	8748	3935	1618	486	161	58	4	52600

STATION: 72

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	109	83	125	230	438	474	684	814	585	370	160	85	4157
2.50 - 4.99	891	835	994	1279	1701	1938	2288	2223	1831	1400	1036	967	17383
5.00 - 7.49	829	780	882	874	1104	1051	965	929	973	983	853	852	11075
7.50 - 9.99	1123	1127	1200	1086	877	710	453	403	710	1094	1187	1174	11144
10.00 - 12.49	560	523	561	463	218	113	66	68	158	358	543	627	4258
12.50 - 14.99	544	438	414	294	112	30	8	19	53	194	392	464	2962
15.00 - 17.49	225	136	145	73	14	3	.	3	5	39	84	144	871
17.50 - 19.99	142	98	105	21	.	1	.	3	2	21	48	103	544
20.00 - GREATER	41	52	38	.	.	.	.	2	3	5	17	48	206
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.25 N, LONG: 73.75 W, DEPTH: 27 M

STATION: 72

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	498	595	723	535	444	412	418	493	561	491	474	515	6159
22.50 - 67.49 (45.0)	328	404	378	358	437	266	268	424	548	581	347	237	4576
67.50 - 112.49 (90.0)	278	279	373	330	373	223	242	374	418	329	345	264	3828
112.50 - 157.49 (135.0)	251	269	311	492	402	255	373	303	404	344	303	230	3937
157.50 - 202.49 (180.0)	353	287	552	552	690	679	540	577	480	518	464	410	6102
202.50 - 247.49 (225.0)	533	561	583	581	824	1074	1136	1024	751	677	652	688	9084
247.50 - 292.49 (270.0)	883	574	560	586	664	750	797	666	600	683	797	874	8434
292.50 - 337.49 (315.0)	1340	1103	984	886	630	661	690	603	558	841	938	1246	10480
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 72

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.60	1.65	1.64	1.16	1.31	1.04	0.72	1.12	0.86	1.52	1.31	1.39	1.28
1977	1.51	1.43	1.60	1.28	0.81	0.95	0.70	0.70	0.94	1.44	1.93	1.73	1.25
1978	2.07	1.18	1.62	1.48	1.60	1.02	0.83	0.76	1.09	1.16	1.38	1.36	1.30
1979	2.00	1.86	1.84	1.51	1.27	0.79	0.77	0.86	1.36	1.07	1.39	1.59	1.36
1980	1.71	1.32	1.98	1.64	0.93	0.80	0.82	1.01	1.07	1.30	1.45	1.70	1.31
1981	1.32	2.43	1.55	1.65	1.49	0.78	0.96	0.73	1.32	1.19	1.39	1.30	1.34
1982	1.48	1.28	1.03	1.32	0.87	1.03	0.52	0.57	0.90	1.10	1.20	1.06	1.03
1983	1.38	1.52	1.69	1.37	1.28	0.83	0.70	0.65	0.93	1.47	1.38	1.92	1.26
1984	1.35	1.74	1.94	1.43	1.19	0.95	0.88	0.63	0.84	1.15	1.45	1.25	1.23
1985	1.34	1.63	1.44	1.30	1.07	0.80	0.73	0.69	1.02	0.89	1.78	1.25	1.16
1986	1.72	1.32	1.62	1.48	1.06	1.00	0.59	0.80	1.06	1.05	1.29	1.65	1.22
1987	1.52	1.33	1.52	1.70	1.05	0.78	0.55	0.75	0.87	1.14	1.36	1.13	1.14
1988	1.16	1.44	1.13	1.19	1.05	0.90	0.85	0.81	0.97	1.15	1.26	1.09	1.08
1989	1.22	1.23	1.60	1.18	1.30	0.82	0.73	1.02	1.75	1.09	1.49	1.18	1.22
1990	1.16	1.44	1.28	1.38	1.19	1.11	0.94	1.05	1.19	1.42	1.07	1.40	1.22
1991	1.29	1.12	1.55	1.18	0.81	0.79	0.76	0.95	1.17	1.27	1.24	1.22	1.11
1992	1.47	1.24	1.51	0.89	1.03	0.75	0.59	0.67	0.97	0.83	1.03	1.44	1.03
1993	1.41	1.45	1.47	1.66	0.96	0.78	0.67	0.75	1.01	1.15	1.40	1.36	1.17
MEAN	1.48	1.48	1.56	1.38	1.13	0.88	0.74	0.81	1.07	1.19	1.38	1.39	

STATION: 72

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	40 918	471019	43 918	26 6 4	35 816	22 818	16 618	50 911	201313	41 914	281012	31 818	50 911
1977	501013	551114	491016	471013	24 636	30 6 2	25 818	22 718	34 911	32 914	591211	5711 9	591211
1978	641217	4110 9	511016	531310	491212	34 819	28 911	25 719	241015	33 819	451013	38 812	641217
1979	731313	541213	651215	42 914	28 718	20 716	21 716	29 8 8	40 917	32 915	471016	38 734	731313
1980	561018	4110 9	591115	451214	31 816	20 533	17 535	361915	241613	671413	391013	441110	671413
1981	32 7 0	781315	461118	44 917	37 915	24 622	25 712	20 7 9	301713	27 719	40 7 3	35 735	781315
1982	491217	38 8 8	26 810	43 919	21 621	29 818	12 5 3	22 719	23 6 5	621210	301512	27 717	621210
1983	35 9 9	571110	561211	36 913	37 918	21 618	18 533	18 6 4	30 811	531111	40 914	641311	641311
1984	37 8 8	481013	711311	541114	31 918	27 635	24 818	17 5 1	201313	561514	33 818	30 814	711311
1985	36 734	661113	45 918	561118	28 7 7	27 719	25 818	16 5 4	811211	29 7 8	661312	35 630	811211
1986	391012	4810 9	591118	401110	26 9 9	30 910	17 523	39 811	31 918	26 910	37 818	771413	771413
1987	501010	45 8 1	581114	481013	24 910	21 719	12 432	18 521	28 8 8	29 719	35 911	36 8 9	581114
1988	27 634	40 918	28 818	36 910	29 710	20 620	27 719	22 717	241513	35 812	36 913	29 918	40 918
1989	31 7 3	47 8 5	471010	36 918	42 916	17 814	20 614	331213	592013	4610 9	39 917	24 6 4	592013
1990	31 819	38 819	41 910	32 812	37 917	30 818	22 718	37 9 9	241412	35 7 3	23 531	411013	411013
1991	43 912	21 635	37 910	31 8 8	21 616	22 620	22 617	571314	521813	30 6 3	27 6 6	31 712	571314
1992	551110	25 8 9	321212	24 717	21 7 9	21 812	17 521	17 619	29 8 9	22 6 5	29 818	621212	621212
1993	46 918	5110 9	541011	37 817	18 618	17 534	17 619	251415	361416	441010	591214	35 7 5	591214
MAX	731313	781315	711311	561118	491212	34 819	28 911	571314	811211	671413	661312	771413	

MAX Hmo(m): 8.1 MAX Tp(sec): 12. MAX Dp(deg): 108. DATE(gmt): 85092715

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 90. DATE(gmt): 85092715

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 73

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	245	268	260	364	322	562	1050	1060	610	448	318	370	5877
0.50 - 0.99	1349	1170	1258	1375	2100	2479	2609	2449	1975	1723	1286	1340	21113
1.00 - 1.49	1253	1288	1235	1192	1255	1001	629	713	995	1401	1342	1342	13646
1.50 - 1.99	766	663	783	699	508	210	136	134	443	565	752	721	6380
2.00 - 2.49	455	348	446	373	160	55	34	53	187	190	366	376	3043
2.50 - 2.99	192	118	218	146	68	11	6	23	53	72	153	169	1229
3.00 - 3.49	89	88	137	88	32	2	.	15	20	27	50	77	625
3.50 - 3.99	52	66	51	50	11	.	.	8	16	15	19	26	314
4.00 - 4.49	31	40	37	24	8	.	.	6	5	8	9	11	179
4.50 - 4.99	20	6	18	8	.	.	.	2	5	7	10	15	91
5.00 - 5.49	6	8	12	1	.	.	.	1	5	4	11	5	53
5.50 - 5.99	4	4	7	.	.	.	.	.	4	2	4	7	32
6.00 - 6.49	2	2	2	.	.	.	.	.	.	2	.	2	10
6.50 - 6.99	.	3	.	.	.	.	.	.	1	.	.	2	6
7.00 - 7.49	.	.	.	.	.	.	.	.	1	.	.	1	2
7.50 - 7.99	.	.	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 73

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	358	302	247	270	254	442	560	438	281	270	317	388	4127
4.0 - 4.9	901	889	689	624	586	738	704	637	543	840	803	922	8876
5.0 - 5.9	754	694	601	411	397	476	433	496	447	500	639	758	6606
6.0 - 6.9	306	278	291	297	495	636	638	757	431	326	315	326	5096
7.0 - 7.9	244	244	330	409	740	642	818	788	534	393	300	184	5626
8.0 - 8.9	257	257	415	482	813	721	753	650	539	561	479	330	6257
9.0 - 9.9	304	360	411	607	634	381	392	262	410	610	461	341	5173
10.0 - 10.9	398	325	452	480	259	172	121	141	273	431	440	408	3900
11.0 - 11.9	356	297	412	324	119	60	31	72	198	194	292	282	2637
12.0 - 12.9	276	218	322	244	97	30	6	54	144	164	117	183	1855
13.0 - 13.9	180	97	160	112	45	15	4	48	138	75	71	173	1118
14.0 - 14.9	68	55	84	31	11	2	3	28	113	43	49	136	623
15.0 - 15.9	32	28	38	22	8	5	1	23	90	23	27	26	323
16.0 - 16.9	19	23	6	7	4	.	.	25	64	7	2	7	164
17.0 - 17.9	7	1	4	.	2	.	.	18	48	13	7	.	100
18.0 - 18.9	4	1	1	.	.	.	.	10	27	13	1	.	57
19.0 - 19.9	.	3	.	.	.	.	.	8	20	1	.	.	32
20.0 - LONGER	.	.	1	.	.	.	.	9	20	.	.	.	30
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 73

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	118	199	144	121	66	82	70	87	97	75	107	112	1278
11.25 - 33.74 (22.5)	68	101	87	39	56	82	22	73	54	91	71	51	795
33.75 - 56.24 (45.0)	60	86	61	33	56	35	12	35	57	93	65	46	639
56.25 - 78.74 (67.5)	59	63	70	55	63	26	16	45	56	105	57	50	665
78.75 - 101.24 (90.0)	190	170	197	130	309	217	70	238	312	230	205	138	2406
101.25 - 123.74 (112.5)	545	457	723	797	687	363	318	666	883	1015	688	644	7786
123.75 - 146.24 (135.0)	919	798	859	973	959	816	1036	1096	1195	1145	917	788	11501
146.25 - 168.74 (157.5)	585	593	864	905	1007	842	817	759	663	436	532	513	8516
168.75 - 191.24 (180.0)	365	286	480	463	590	873	1037	748	411	321	443	429	6446
191.25 - 213.74 (202.5)	141	147	131	109	183	255	230	239	172	183	165	200	2155
213.75 - 236.24 (225.0)	92	100	82	65	81	151	206	142	76	89	97	140	1321
236.25 - 258.74 (247.5)	113	98	55	44	39	82	126	69	62	106	96	141	1031
258.75 - 281.24 (270.0)	205	124	92	97	82	138	105	63	60	116	172	214	1468
281.25 - 303.74 (292.5)	342	161	185	126	58	121	147	55	62	174	259	346	2036
303.75 - 326.24 (315.0)	384	346	223	188	76	130	124	75	85	198	245	417	2491
326.25 - 348.74 (337.5)	278	343	211	175	152	107	128	74	75	87	201	235	2066
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 73 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1326										1326
1.00 - 1.99	780	371									1151
2.00 - 2.99		169	3								172
3.00 - 3.99		7	1								8
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2106	547	4	0	0	0	0	0	0	0	2657

STATION: 73 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	497	4		5							506
1.00 - 1.99	447	224									671
2.00 - 2.99		83	2								85
3.00 - 3.99		6									6
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	944	317	2	5	0	0	0	0	0	0	1268

STATION: 73 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	405	469	751	626	139	6					2396
1.00 - 1.99	116	754	556	135	50	25	7				1643
2.00 - 2.99		96	260	43	13	10					422
3.00 - 3.99			63	52	3	2					120
4.00 - 4.99			2	23	3	5					33
5.00 - 5.99				1	1	1	1				4
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	521	1319	1632	880	209	49	8	0	0	0	4618

STATION: 73 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	424	1084	4281	3762	1581	539	148	49	16	4	11888
1.00 - 1.99	80	937	1715	2294	1489	689	181	64	19		7468
2.00 - 2.99		83	411	520	538	244	115	19	4		1934
3.00 - 3.99			83	170	193	97	14	12	11		580
4.00 - 4.99			2	58	71	42	13	8	3		197
5.00 - 5.99				6	27	28	2	2	5		70
6.00 - 6.99					3	10	3				16
7.00 - 7.99					1	1					2
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	504	2104	6492	6810	3903	1650	476	154	58	4	22155

STATION: 73 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1062	2212	2100	558	118	2					6052
1.00 - 1.99	244	2253	989	522	186	24	3	3			4224
2.00 - 2.99		259	559	167	42	13					1040
3.00 - 3.99			84	101	14	2					201
4.00 - 4.99				28	12						40
5.00 - 5.99				2	8	1					11
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1306	4724	3732	1378	380	42	3	3	0	0	11568

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 73 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1395	61	.	.	.	.	.	.	.	.	1456
1.00 - 1.99	671	517	4	.	.	.	.	.	.	.	1192
2.00 - 2.99	.	44	14	.	.	.	.	.	.	.	58
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2066	622	18	0	0	0	0	0	0	0	2706

STATION: 73 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1946	.	.	.	.	.	.	.	.	.	1946
1.00 - 1.99	722	193	.	.	.	.	.	.	.	.	915
2.00 - 2.99	.	38	.	.	.	.	.	.	.	.	38
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2668	232	0	0	0	0	0	0	0	0	2900

STATION: 73 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1420	.	.	.	.	.	.	.	.	.	1420
1.00 - 1.99	1468	1294	.	.	.	.	.	.	.	.	2762
2.00 - 2.99	.	523	.	.	.	.	.	.	.	.	523
3.00 - 3.99	.	20	3	.	.	.	.	.	.	.	23
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2888	1837	3	0	0	0	0	0	0	0	4728

STATION: 73 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	8475	3830	7132	4951	1838	547	148	49	16	4	26990
1.00 - 1.99	4528	6543	3264	2951	1725	738	191	67	19	.	20026
2.00 - 2.99	.	1295	1249	730	593	267	115	19	4	.	4272
3.00 - 3.99	.	34	234	323	210	101	14	12	11	.	939
4.00 - 4.99	.	.	4	109	86	47	13	8	3	.	270
5.00 - 5.99	.	.	.	9	36	30	3	2	5	.	85
6.00 - 6.99	.	.	.	.	3	10	3	.	.	.	16
7.00 - 7.99	.	.	.	.	1	1	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	13003	11702	11883	9073	4492	1741	487	157	58	4	52600

STATION: 73

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	94	73	108	213	415	441	660	798	563	342	127	84	3918
2.50 - 4.99	881	830	1026	1289	1726	1969	2297	2245	1844	1414	1068	940	17529
5.00 - 7.49	856	789	865	886	1102	1043	975	947	987	1010	852	867	11179
7.50 - 9.99	1120	1159	1207	1088	880	729	464	385	725	1103	1201	1209	11270
10.00 - 12.49	589	515	551	462	224	100	60	63	146	347	530	624	4211
12.50 - 14.99	530	428	431	292	101	33	8	18	46	186	399	449	2921
15.00 - 17.49	213	130	137	65	15	4	.	4	4	39	84	143	838
17.50 - 19.99	140	97	103	25	1	1	.	4	2	18	44	103	538
20.00 - GREATER	41	51	36	.	.	.	.	.	3	5	15	45	196
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.75 W, DEPTH: 18 M

STATION: 73

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	499	610	723	544	442	407	410	493	544	470	458	523	6123
22.50 - 67.49 (45.0)	312	390	365	354	435	256	259	407	536	561	339	230	4444
67.50 - 112.49 (90.0)	279	272	365	326	356	205	215	344	382	307	322	254	3627
112.50 - 157.49 (135.0)	269	280	312	488	393	250	362	310	397	342	310	239	3952
157.50 - 202.49 (180.0)	352	280	558	566	699	666	560	567	508	546	478	421	6201
202.50 - 247.49 (225.0)	556	562	583	574	823	1084	1143	1042	772	693	660	686	9178
247.50 - 292.49 (270.0)	875	585	572	599	668	757	798	687	619	709	812	883	8564
292.50 - 337.49 (315.0)	1322	1093	986	869	648	695	717	614	562	836	941	1228	10511
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 73

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.49	1.52	1.52	1.09	1.25	0.94	0.69	1.04	0.81	1.39	1.22	1.35	1.19
1977	1.42	1.36	1.49	1.22	0.74	0.90	0.65	0.66	0.90	1.32	1.81	1.65	1.17
1978	1.97	1.03	1.48	1.34	1.50	0.99	0.76	0.72	0.98	1.04	1.27	1.31	1.20
1979	1.89	1.69	1.75	1.42	1.18	0.75	0.74	0.80	1.22	1.00	1.24	1.46	1.26
1980	1.53	1.15	1.78	1.53	0.86	0.76	0.76	0.91	1.00	1.20	1.34	1.51	1.20
1981	1.19	2.22	1.37	1.50	1.34	0.72	0.89	0.66	1.23	1.05	1.19	1.20	1.21
1982	1.35	1.13	0.94	1.24	0.74	0.90	0.48	0.53	0.81	0.92	1.10	0.93	0.92
1983	1.22	1.29	1.48	1.26	1.21	0.77	0.65	0.58	0.83	1.28	1.31	1.74	1.14
1984	1.17	1.66	1.72	1.32	1.11	0.90	0.81	0.57	0.76	1.02	1.30	1.16	1.12
1985	1.23	1.47	1.28	1.20	0.96	0.73	0.68	0.63	0.90	0.81	1.60	1.14	1.05
1986	1.57	1.16	1.49	1.29	0.94	0.90	0.56	0.74	0.96	0.93	1.17	1.50	1.10
1987	1.37	1.11	1.28	1.52	0.94	0.72	0.51	0.70	0.81	1.01	1.23	1.05	1.02
1988	1.09	1.32	1.07	1.06	0.96	0.82	0.80	0.74	0.93	1.05	1.19	0.99	1.00
1989	1.13	1.10	1.37	1.09	1.20	0.76	0.68	0.95	1.60	1.01	1.40	1.07	1.11
1990	1.10	1.35	1.17	1.29	1.10	1.03	0.87	0.97	1.08	1.33	1.01	1.29	1.13
1991	1.19	1.04	1.45	1.08	0.75	0.70	0.71	0.88	1.09	1.17	1.08	1.11	1.02
1992	1.39	1.12	1.42	0.83	0.87	0.71	0.55	0.64	0.85	0.76	0.95	1.30	0.95
1993	1.28	1.29	1.34	1.51	0.90	0.74	0.64	0.69	0.94	1.06	1.30	1.21	1.07
MEAN	1.37	1.33	1.41	1.27	1.03	0.82	0.69	0.74	0.98	1.08	1.26	1.28	

STATION: 73

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	39 918	421117	40 918	221412	33 816	19 818	15 618	451014	191314	38 914	271112	31 818	451014
1977	461013	511114	441016	431014	19 620	24 5 2	23 817	22 718	33 911	31 915	531212	481210	531212
1978	571217	35 8 8	481016	471211	441213	31 819	26 912	24 719	221115	27 818	431014	36 812	571217
1979	641313	441213	571315	391215	26 718	20 716	21 716	26 7 8	36 917	27 915	42 917	32 632	641313
1980	501117	291010	531115	421215	30 816	19 533	16 613	351916	251613	641314	371014	361413	641314
1981	27 634	691515	421117	42 917	34 916	21 619	23 712	18 6 8	291614	26 718	281312	311115	691515
1982	441217	30 7 8	23 717	381017	20 620	26 719	11 4 1	20 719	221213	471212	291513	25 717	471212
1983	251012	421112	501212	33 913	34 918	19 619	18 533	14 4 3	26 812	461112	37 914	581313	581313
1984	33 8 9	451013	631312	491115	30 817	251313	21 818	13 4 1	191314	521414	31 816	31 815	631312
1985	29 630	581214	41 917	501117	23 7 8	25 620	24 818	13 613	701212	26 7 9	581313	32 630	701212
1986	371013	411010	571118	361010	18 717	23 523	14 424	38 811	28 917	24 7 9	33 818	731414	731414
1987	431011	33 635	531315	451013	21 7 9	19 718	12 431	16 617	26 8 8	27 718	32 912	28 810	531315
1988	25 719	391313	26 818	33 912	26 710	17 717	25 718	21 616	23 718	33 812	33 914	25 917	391313
1989	27 7 9	351214	421011	33 818	37 916	16 618	181014	311213	582014	401010	36 917	23 633	582014
1990	29 818	33 818	36 911	29 812	35 817	26 818	21 717	33 9 9	231412	27 817	23 531	371014	371014
1991	38 913	21 530	34 910	28 8 9	21 616	18 718	21 617	541314	511814	261014	22 718	28 813	541314
1992	481413	22 7 9	321213	23 618	19 815	19 813	16 517	16 619	26 7 9	17 617	27 817	551213	551213
1993	411016	43 9 9	471012	34 817	18 618	16 617	16 619	241415	341416	38 910	551214	29 712	551214
MAX	641313	691515	631312	501117	441213	31 819	26 912	541314	701212	641314	581313	731414	

MAX Hmo(m): 7.3 MAX Tp(sec): 14. MAX Dp(deg): 137. DATE(gmt): 86120303

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 60. DATE(gmt): 85092715

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 3.0

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 74

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	192	203	215	316	255	450	843	909	549	398	273	305	4908
0.50 - 0.99	1103	975	1087	1227	1861	2264	2568	2342	1830	1478	1070	1047	18852
1.00 - 1.49	1263	1307	1222	1173	1444	1217	780	917	1090	1468	1282	1404	14567
1.50 - 1.99	838	759	797	782	541	268	199	175	501	690	874	782	7206
2.00 - 2.49	530	423	560	438	206	92	58	61	208	257	499	507	3839
2.50 - 2.99	282	148	273	188	93	25	16	23	77	87	201	234	1647
3.00 - 3.49	121	106	155	91	38	4	.	13	24	40	66	108	766
3.50 - 3.99	55	76	61	54	17	.	.	13	19	21	19	29	364
4.00 - 4.49	36	46	46	36	5	.	.	6	6	9	12	14	216
4.50 - 4.99	30	12	21	12	4	.	.	2	5	6	7	13	112
5.00 - 5.49	7	7	16	3	.	.	.	2	4	6	12	8	65
5.50 - 5.99	5	5	8	.	.	.	.	1	3	.	5	7	34
6.00 - 6.49	1	1	2	.	.	.	.	.	2	3	.	2	11
6.50 - 6.99	1	2	1	.	.	.	.	.	.	1	.	2	7
7.00 - 7.49	.	2	.	.	.	.	.	.	1	.	.	1	4
7.50 - 7.99	.	.	.	.	.	.	.	.	1	.	.	1	2
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 74

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	227	194	170	176	134	186	313	314	200	175	206	210	2505
4.0 - 4.9	821	830	680	641	641	878	816	652	569	779	701	882	8890
5.0 - 5.9	934	790	645	489	435	590	570	617	492	671	867	914	8014
6.0 - 6.9	452	419	379	352	548	716	710	787	508	454	442	489	6256
7.0 - 7.9	269	271	393	439	784	635	843	802	568	408	340	242	5994
8.0 - 8.9	250	263	411	481	785	690	705	612	496	533	458	301	5985
9.0 - 9.9	285	340	410	581	620	373	357	248	382	562	415	320	4893
10.0 - 10.9	382	304	437	451	255	157	105	140	272	381	406	381	3671
11.0 - 11.9	322	270	369	333	113	46	27	72	168	180	253	240	2393
12.0 - 12.9	243	200	320	232	84	28	9	51	148	161	93	172	1741
13.0 - 13.9	162	88	141	95	44	16	5	46	133	66	67	164	1027
14.0 - 14.9	63	51	70	26	6	1	3	29	115	37	38	115	554
15.0 - 15.9	25	29	30	18	10	4	1	25	89	22	25	29	307
16.0 - 16.9	21	19	5	6	3	.	.	25	68	8	3	4	162
17.0 - 17.9	5	.	3	.	2	.	.	19	46	14	6	1	96
18.0 - 18.9	3	1	.	.	.	.	.	8	29	11	.	.	52
19.0 - 19.9	.	3	1	.	.	.	.	8	18	2	.	.	32
20.0 - LONGER	.	.	.	.	.	.	.	9	19	.	.	.	28
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 74

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	115	174	138	110	53	73	51	78	85	75	106	102	1160
11.25 - 33.74 (22.5)	61	91	86	30	61	70	19	67	52	88	64	53	742
33.75 - 56.24 (45.0)	57	78	51	30	54	34	10	35	53	102	61	49	614
56.25 - 78.74 (67.5)	68	78	84	71	92	36	17	58	65	129	74	52	824
78.75 - 101.24 (90.0)	161	161	191	133	297	202	56	206	310	212	197	145	2271
101.25 - 123.74 (112.5)	387	332	484	582	550	280	260	565	667	813	490	399	5809
123.75 - 146.24 (135.0)	803	699	851	960	922	728	888	1032	1226	1129	906	831	10975
146.25 - 168.74 (157.5)	614	590	738	828	824	673	616	708	588	434	463	442	7518
168.75 - 191.24 (180.0)	382	348	649	606	767	1014	1313	836	510	300	442	417	7584
191.25 - 213.74 (202.5)	195	187	218	193	266	335	279	283	217	240	234	278	2925
213.75 - 236.24 (225.0)	139	161	131	85	109	230	299	210	121	146	177	208	2016
236.25 - 258.74 (247.5)	146	120	71	61	87	131	153	103	109	146	137	185	1449
258.75 - 281.24 (270.0)	291	164	140	129	107	176	124	78	89	184	260	301	2043
281.25 - 303.74 (292.5)	438	238	227	171	64	126	155	62	78	217	298	409	2483
303.75 - 326.24 (315.0)	392	351	247	184	99	132	124	71	79	174	259	420	2532
326.25 - 348.74 (337.5)	215	300	158	147	112	80	100	72	71	75	152	173	1655
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 74 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1145	.	.	.	.	.	.	.	.	.	1145
1.00 - 1.99	723	275	.	.	.	.	.	.	.	.	998
2.00 - 2.99	.	124	.	.	.	.	.	.	.	.	124
3.00 - 3.99	.	7	1	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1868	406	1	0	0	0	0	0	0	0	2275

STATION: 74 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	431	29	6	12	2	.	.	.	.	.	480
1.00 - 1.99	457	201	3	1	.	.	.	.	.	.	661
2.00 - 2.99	.	100	5	1	.	.	.	.	.	.	106
3.00 - 3.99	.	6	.	.	.	.	.	.	.	.	6
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	888	336	14	13	2	0	0	0	0	0	1253

STATION: 74 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	366	418	672	522	109	5	.	.	.	.	2092
1.00 - 1.99	115	785	623	116	40	18	4	.	.	.	1701
2.00 - 2.99	.	101	260	40	14	11	.	.	.	.	426
3.00 - 3.99	.	.	63	54	4	1	.	.	.	.	122
4.00 - 4.99	.	.	2	19	.	6	.	.	.	.	27
5.00 - 5.99	.	.	.	.	3	1	1	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	481	1304	1620	751	170	42	5	0	0	0	4373

STATION: 74 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	392	949	3600	3092	1247	410	125	45	15	3	9878
1.00 - 1.99	78	874	1525	1949	1254	619	186	57	19	.	6561
2.00 - 2.99	.	86	412	491	504	213	109	16	4	.	1835
3.00 - 3.99	.	.	84	176	192	84	16	12	5	.	569
4.00 - 4.99	.	.	2	61	94	45	12	10	2	.	226
5.00 - 5.99	.	.	.	7	26	30	1	2	4	.	70
6.00 - 6.99	.	.	.	.	5	9	1	.	1	.	16
7.00 - 7.99	.	.	.	.	1	4	.	.	.	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	470	1909	5623	5776	3323	1414	450	142	50	3	19160

STATION: 74 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	876	2148	2403	622	108	3	.	.	1	.	6161
1.00 - 1.99	155	1922	1333	932	272	38	3	3	1	.	4659
2.00 - 2.99	.	235	702	297	183	46	5	.	.	.	1468
3.00 - 3.99	.	.	115	127	41	22	2	3	4	1	315
4.00 - 4.99	.	.	1	43	19	10	1	.	.	.	74
5.00 - 5.99	.	.	.	2	16	5	1	.	.	.	24
6.00 - 6.99	.	.	.	.	.	1	1	.	.	.	2
7.00 - 7.99	.	.	.	.	.	.	1	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1031	4305	4554	2023	639	125	14	6	6	1	12704

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 74 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1126	202	.	.	.	.	.	.	.	.	1328
1.00 - 1.99	201	1931	4	.	.	.	.	.	.	.	2136
2.00 - 2.99	.	523	85	.	.	.	.	.	.	.	608
3.00 - 3.99	.	.	59	1	.	.	.	.	.	.	60
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1327	2656	148	1	0	0	0	0	0	0	4132

STATION: 74 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1328	2	.	.	.	.	.	.	.	.	1330
1.00 - 1.99	1167	1168	1	.	.	.	.	.	.	.	2336
2.00 - 2.99	.	269	4	.	.	.	.	.	.	.	273
3.00 - 3.99	.	12	5	.	.	.	.	.	.	.	17
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2495	1451	11	0	0	0	0	0	0	0	3957

STATION: 74 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1346	.	.	.	.	.	.	.	.	.	1346
1.00 - 1.99	1489	1230	2	.	.	.	.	.	.	.	2721
2.00 - 2.99	.	645	1	.	.	.	.	.	.	.	646
3.00 - 3.99	.	28	5	.	.	.	.	.	.	.	33
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2835	1903	8	0	0	0	0	0	0	0	4746

STATION: 74 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	7010	3748	6681	4248	1466	418	125	45	16	3	23760
1.00 - 1.99	4385	8386	3491	2997	1566	675	193	60	20	.	21773
2.00 - 2.99	.	2083	1469	829	701	270	114	16	4	.	5486
3.00 - 3.99	.	53	332	358	237	107	18	15	9	1	1130
4.00 - 4.99	.	.	6	123	113	61	13	10	2	.	328
5.00 - 5.99	.	.	.	9	45	36	3	2	4	.	99
6.00 - 6.99	.	.	.	.	5	10	2	.	1	.	18
7.00 - 7.99	.	.	.	.	1	4	1	.	.	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11395	14270	11979	8564	4134	1581	469	148	56	4	52600

STATION: 74

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	93	70	109	217	402	430	629	780	569	333	131	76	3839
2.50 - 4.99	868	807	982	1249	1722	1942	2308	2217	1817	1381	1015	910	17218
5.00 - 7.49	813	776	882	896	1068	1042	972	955	987	1011	865	863	11130
7.50 - 9.99	1145	1158	1185	1102	920	760	477	418	730	1111	1199	1198	11403
10.00 - 12.49	579	514	578	465	230	107	68	65	157	357	545	627	4292
12.50 - 14.99	553	453	435	291	108	33	10	21	50	206	410	481	3051
15.00 - 17.49	218	137	142	72	13	5	.	2	4	40	88	149	870
17.50 - 19.99	147	105	113	28	1	1	.	5	4	20	49	101	574
20.00 - GREATER	48	52	38	.	.	.	.	1	2	5	18	59	223
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.50 W, DEPTH: 18 M

STATION: 74

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	518	624	727	539	433	415	394	490	552	473	459	526	6150
22.50 - 67.49 (45.0)	321	399	376	359	443	248	267	401	535	572	347	238	4506
67.50 - 112.49 (90.0)	275	280	379	332	356	212	220	349	392	318	325	264	3702
112.50 - 157.49 (135.0)	259	273	302	491	397	243	362	308	384	347	294	227	3887
157.50 - 202.49 (180.0)	345	257	542	544	676	655	560	572	512	528	468	407	6066
202.50 - 247.49 (225.0)	542	559	573	577	834	1088	1142	1057	765	677	653	673	9140
247.50 - 292.49 (270.0)	882	580	577	602	688	779	808	670	605	700	828	891	8610
292.50 - 337.49 (315.0)	1322	1100	988	876	637	680	711	617	575	849	946	1238	10539
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 74

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.62	1.76	1.67	1.16	1.38	1.06	0.78	1.10	0.87	1.51	1.43	1.47	1.32
1977	1.58	1.51	1.62	1.32	0.80	0.96	0.72	0.74	0.95	1.41	1.92	1.79	1.27
1978	2.13	1.08	1.56	1.42	1.55	1.05	0.83	0.77	1.02	1.13	1.32	1.49	1.28
1979	2.00	1.75	1.81	1.47	1.26	0.78	0.79	0.85	1.28	1.16	1.35	1.62	1.34
1980	1.66	1.25	1.91	1.61	0.92	0.86	0.87	1.00	1.07	1.32	1.48	1.65	1.30
1981	1.31	2.35	1.57	1.72	1.40	0.83	0.93	0.70	1.30	1.15	1.35	1.33	1.32
1982	1.55	1.24	1.01	1.37	0.77	0.96	0.52	0.57	0.86	0.96	1.21	1.05	1.00
1983	1.30	1.35	1.55	1.33	1.29	0.83	0.71	0.63	0.88	1.37	1.42	1.87	1.21
1984	1.23	1.73	1.81	1.38	1.28	1.00	0.95	0.60	0.80	1.07	1.38	1.27	1.21
1985	1.38	1.61	1.40	1.31	1.08	0.83	0.74	0.66	0.96	0.86	1.67	1.32	1.15
1986	1.75	1.21	1.64	1.34	1.02	1.03	0.63	0.81	1.05	1.00	1.23	1.61	1.19
1987	1.48	1.17	1.36	1.59	0.98	0.77	0.56	0.72	0.85	1.07	1.32	1.14	1.08
1988	1.16	1.44	1.14	1.13	1.00	0.90	0.89	0.82	0.98	1.15	1.30	1.12	1.08
1989	1.23	1.20	1.45	1.15	1.28	0.81	0.72	0.98	1.65	1.06	1.57	1.15	1.19
1990	1.24	1.47	1.25	1.38	1.17	1.11	0.95	0.99	1.14	1.38	1.09	1.37	1.21
1991	1.29	1.14	1.51	1.14	0.80	0.75	0.76	0.95	1.14	1.21	1.16	1.24	1.09
1992	1.48	1.18	1.50	0.87	0.92	0.76	0.60	0.69	0.88	0.82	1.01	1.40	1.01
1993	1.40	1.39	1.43	1.59	0.96	0.81	0.68	0.73	1.02	1.13	1.41	1.30	1.15
MEAN	1.49	1.44	1.51	1.35	1.10	0.89	0.76	0.79	1.04	1.15	1.37	1.40	

STATION: 74

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	40 919	431018	411018	221213	37 918	25 621	16 619	501014	201314	39 914	31 628	30 631	501014
1977	461014	521115	44 916	421015	21 623	26 912	28 917	22 718	33 911	33 915	541213	501211	541213
1978	591217	351010	461016	481212	451213	31 819	27 912	26 818	22 622	32 819	431014	36 813	591217
1979	661314	471214	571216	411215	281016	20 716	21 716	26 7 7	37 917	36 819	431017	34 722	661314
1980	501218	311010	541116	431216	30 817	20 622	171017	391917	251614	671414	401014	371213	671414
1981	31 721	701516	511118	481118	331016	26 720	23 817	19 618	301714	26 718	301313	321216	701516
1982	451217	29 6 7	26 627	401017	23 621	27 818	13 524	21 719	221213	511213	301513	25 717	511213
1983	271012	451113	511213	34 914	351018	20 718	20 532	14 528	26 813	471113	37 915	601313	601313
1984	33 8 9	461014	651313	501115	34 918	261314	27 719	13 4 1	201314	531415	31 818	31 815	651313
1985	31 629	591214	42 918	511118	25 621	28 818	25 622	13 613	761416	26 7 9	591313	34 629	761416
1986	391014	411010	581119	371111	24 720	30 722	18 621	39 811	35 918	24 7 9	33 819	761314	761314
1987	451011	34 635	561316	471014	21 912	19 720	12 521	20 621	27 8 8	27 719	32 912	28 810	561316
1988	25 719	401313	26 818	32 912	26 710	22 621	26 818	21 617	23 719	34 812	33 914	31 722	401313
1989	271215	371214	431012	34 819	38 917	17 816	22 623	321214	602014	411010	361116	24 632	602014
1990	29 719	37 918	36 911	29 813	35 917	29 819	24 622	33 910	231413	28 817	23 530	361115	37 918
1991	38 912	21 621	33 910	28 8 8	21 616	22 621	21 617	561315	521814	271014	23 917	28 813	561315
1992	491413	23 7 9	331214	23 718	20 815	20 612	17 619	17 621	26 7 9	18 617	28 818	571213	571213
1993	451017	44 9 9	471012	361016	20 620	16 618	17 619	241416	381417	39 910	571214	31 627	571214
MAX	661314	701516	651313	511118	451213	31 819	28 917	561315	761416	671414	591313	761314	

MAX Hmo(m): 7.6 MAX Tp(sec): 13. MAX Dp(deg): 137. DATE(gmt): 86120303

MAX WIND SPEED(m/sec): 37. MAX WIND DIRECTION(deg): 75. DATE(gmt): 85092715

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.25 W, DEPTH: 24 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 75

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	144	162	180	267	206	345	662	771	463	329	242	253	4024
0.50 - 0.99	990	915	988	1136	1659	2138	2561	2309	1718	1398	984	969	17765
1.00 - 1.49	1176	1195	1135	1125	1495	1301	887	1015	1133	1412	1136	1246	14256
1.50 - 1.99	896	820	873	811	646	373	264	221	600	759	929	890	8082
2.00 - 2.49	557	492	557	508	258	113	55	77	253	318	575	549	4312
2.50 - 2.99	317	178	317	212	97	36	29	28	71	130	262	276	1953
3.00 - 3.49	188	108	203	109	61	13	6	18	33	54	108	148	1049
3.50 - 3.99	83	90	80	66	21	1	.	10	24	28	37	70	510
4.00 - 4.49	45	64	46	48	13	.	.	9	8	16	17	21	287
4.50 - 4.99	34	26	44	22	6	.	.	2	5	6	8	12	165
5.00 - 5.49	19	7	13	11	2	.	.	1	5	5	8	11	82
5.50 - 5.99	8	4	14	5	.	.	.	3	4	4	7	7	56
6.00 - 6.49	3	3	11	.	.	.	.	.	.	1	7	6	31
6.50 - 6.99	3	4	1	.	.	.	.	.	1	2	.	3	14
7.00 - 7.49	1	1	2	.	.	.	.	.	.	2	.	1	7
7.50 - 7.99	.	3	.	.	.	.	.	.	1	.	.	1	5
8.00 - 8.49	.	.	.	.	.	.	.	.	1	.	.	1	2
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 75

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	176	153	140	135	89	130	226	261	160	149	160	172	1951
4.0 - 4.9	679	693	562	558	484	725	731	575	480	597	542	693	7319
5.0 - 5.9	871	826	618	496	467	608	558	621	497	672	815	925	7974
6.0 - 6.9	542	434	377	351	535	740	761	819	528	528	555	533	6703
7.0 - 7.9	379	353	485	478	930	743	952	890	647	501	468	338	7164
8.0 - 8.9	303	321	490	545	855	761	766	646	545	589	502	374	6697
9.0 - 9.9	344	369	442	622	626	373	339	239	399	591	457	384	5185
10.0 - 10.9	383	296	470	464	247	164	91	132	267	382	385	383	3664
11.0 - 11.9	301	268	369	333	101	38	24	71	165	177	230	238	2315
12.0 - 12.9	226	189	287	233	69	23	9	51	140	141	80	159	1607
13.0 - 13.9	153	82	140	73	42	12	4	38	125	54	65	145	933
14.0 - 14.9	53	50	56	21	6	2	3	31	102	33	35	99	491
15.0 - 15.9	27	25	22	11	10	1	.	22	99	16	21	18	272
16.0 - 16.9	19	9	5	.	3	.	.	28	58	8	1	2	133
17.0 - 17.9	5	.	.	.	.	.	.	15	46	13	4	1	84
18.0 - 18.9	3	2	.	.	.	.	.	9	27	9	.	.	50
19.0 - 19.9	.	2	1	.	.	.	.	7	21	4	.	.	35
20.0 - LONGER	.	.	.	.	.	.	.	9	14	.	.	.	23
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 75

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	104	174	117	94	44	59	41	69	85	77	95	96	1055
11.25 - 33.74 (22.5)	52	80	65	26	50	59	16	65	44	72	57	39	625
33.75 - 56.24 (45.0)	46	63	38	19	39	22	7	26	46	80	45	40	471
56.25 - 78.74 (67.5)	64	88	94	79	95	51	19	71	68	126	96	62	913
78.75 - 101.24 (90.0)	227	216	298	290	453	295	86	269	476	401	302	242	3555
101.25 - 123.74 (112.5)	487	394	671	684	608	332	312	658	772	907	625	559	7009
123.75 - 146.24 (135.0)	636	577	575	732	748	571	771	900	996	889	662	555	8612
146.25 - 168.74 (157.5)	523	473	597	691	669	581	493	595	475	385	378	361	6221
168.75 - 191.24 (180.0)	482	467	811	732	912	1119	1468	913	577	340	499	539	8859
191.25 - 213.74 (202.5)	200	181	249	185	272	349	320	273	222	211	225	282	2969
213.75 - 236.24 (225.0)	162	160	118	106	136	253	302	249	159	174	187	216	2222
236.25 - 258.74 (247.5)	157	158	77	70	89	168	162	110	103	176	158	199	1627
258.75 - 281.24 (270.0)	345	188	156	143	123	158	130	63	94	201	310	349	2260
281.25 - 303.74 (292.5)	397	237	241	161	50	118	145	68	81	209	283	381	2371
303.75 - 326.24 (315.0)	386	335	219	170	94	113	105	71	68	150	260	386	2357
326.25 - 348.74 (337.5)	196	281	138	138	82	72	87	64	54	66	138	158	1474
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.25 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 75 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	974										974
1.00 - 1.99	678	251	2								931
2.00 - 2.99		108									108
3.00 - 3.99		9	1								10
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1652	368	3	0	0	0	0	0	0	0	2023

STATION: 75 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	370	31	9	23	6						439
1.00 - 1.99	339	172	18								529
2.00 - 2.99		65	10	1							76
3.00 - 3.99		12	1	2							15
4.00 - 4.99				1	1						2
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	709	280	38	27	7	0	0	0	0	0	1061

STATION: 75 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	335	383	948	879	204	16		2	2		2769
1.00 - 1.99	97	857	1032	314	76	24	1				2401
2.00 - 2.99		124	452	90	25	21	6				718
3.00 - 3.99			93	71	16	3					183
4.00 - 4.99			5	36	3	1					45
5.00 - 5.99				9	7	3					19
6.00 - 6.99						2					2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	432	1364	2530	1399	331	70	7	2	2	0	6137

STATION: 75 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	308	796	3136	2489	977	293	87	40	14	2	8142
1.00 - 1.99	78	791	1554	1715	1118	569	164	47	18		6054
2.00 - 2.99		85	443	488	479	194	105	15	2		1811
3.00 - 3.99			108	180	163	77	16	13	5		562
4.00 - 4.99			5	77	110	32	12	9	2		247
5.00 - 5.99				19	20	34	2	2	5		82
6.00 - 6.99				1	16	11	1				29
7.00 - 7.99					2	7					9
8.00 - 8.99						1					1
9.00 - GREATER											0
TOTAL	386	1672	5246	4969	2885	1218	387	126	46	2	16937

STATION: 75 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	738	1983	2471	549	79	2					5822
1.00 - 1.99	138	1675	1946	1139	270	35	2	3	2		5210
2.00 - 2.99		164	803	465	221	42	5				1700
3.00 - 3.99			181	200	71	28		3	3	2	488
4.00 - 4.99			5	85	33	15	2		1		141
5.00 - 5.99				14	18	5					37
6.00 - 6.99					7	6	1				14
7.00 - 7.99						2	1				3
8.00 - 8.99						1					1
9.00 - GREATER											0
TOTAL	876	3822	5406	2452	699	136	11	6	6	2	13416

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.25 W, DEPTH: 24 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 75 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	964	296	.	.	.	.	.	.	.	.	1260
1.00 - 1.99	127	2191	13	.	.	.	.	.	.	.	2331
2.00 - 2.99	.	316	344	.	.	.	.	.	.	.	660
3.00 - 3.99	.	.	151	1	.	.	.	.	.	.	152
4.00 - 4.99	.	.	6	1	.	.	.	.	.	.	7
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1091	2803	514	2	0	0	0	0	0	0	4410

STATION: 75 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1209	9	.	.	.	.	.	.	.	.	1218
1.00 - 1.99	366	2006	.	.	.	.	.	.	.	.	2372
2.00 - 2.99	.	511	29	.	.	.	.	.	.	.	540
3.00 - 3.99	.	10	77	.	.	.	.	.	.	.	87
4.00 - 4.99	.	.	10	.	.	.	.	.	.	.	10
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1575	2536	116	0	0	0	0	0	0	0	4227

STATION: 75 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1165	.	.	.	.	.	.	.	.	.	1165
1.00 - 1.99	1384	1126	.	.	.	.	.	.	.	.	2510
2.00 - 2.99	.	652	.	.	.	.	.	.	.	.	652
3.00 - 3.99	.	54	8	.	.	.	.	.	.	.	62
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2549	1832	8	0	0	0	0	0	0	0	4389

STATION: 75 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6063	3498	6564	3940	1266	311	87	42	16	2	21789
1.00 - 1.99	3207	9069	4565	3168	1464	628	167	50	20	.	22338
2.00 - 2.99	.	2025	2081	1044	725	257	116	15	2	.	6265
3.00 - 3.99	.	85	620	454	250	108	16	16	8	2	1559
4.00 - 4.99	.	.	31	200	147	48	14	9	3	.	452
5.00 - 5.99	.	.	.	42	45	42	2	2	5	.	138
6.00 - 6.99	.	.	.	1	23	19	2	.	.	.	45
7.00 - 7.99	.	.	.	.	2	9	1	.	.	.	12
8.00 - 8.99	.	.	.	.	.	2	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	9270	14677	13861	8849	3922	1424	405	134	54	4	52600

STATION: 75

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	95	66	108	221	395	425	623	746	568	320	134	72	3773
2.50 - 4.99	857	779	971	1215	1712	1905	2284	2204	1796	1359	980	892	16954
5.00 - 7.49	787	772	842	900	1058	1055	982	972	972	996	848	866	11050
7.50 - 9.99	1119	1148	1181	1116	929	779	489	438	743	1148	1223	1170	11483
10.00 - 12.49	596	513	594	458	248	114	72	71	171	341	534	635	4347
12.50 - 14.99	564	477	455	307	104	36	14	25	60	226	430	496	3194
15.00 - 17.49	227	153	149	72	17	6	.	1	4	43	98	155	925
17.50 - 19.99	166	108	122	31	1	.	.	4	3	25	52	117	629
20.00 - GREATER	53	56	42	.	.	.	.	3	3	6	21	61	245
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.25 W, DEPTH: 24 M

STATION: 75

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	535	637	736	529	435	425	385	495	557	480	475	531	6220
22.50 - 67.49 (45.0)	334	406	384	369	449	251	272	395	545	582	359	249	4595
67.50 - 112.49 (90.0)	275	268	382	344	354	208	219	355	394	330	336	262	3727
112.50 - 157.49 (135.0)	253	271	283	484	403	248	368	309	368	342	280	221	3830
157.50 - 202.49 (180.0)	339	259	539	522	663	633	560	570	503	520	446	402	5956
202.50 - 247.49 (225.0)	534	551	571	586	844	1104	1156	1050	766	659	652	656	9129
247.50 - 292.49 (270.0)	880	577	577	604	684	779	817	670	604	706	833	886	8617
292.50 - 337.49 (315.0)	1314	1103	992	882	632	672	687	620	583	845	939	1257	10526
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 75

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.71	1.94	1.80	1.24	1.50	1.14	0.84	1.17	0.93	1.64	1.59	1.58	1.42
1977	1.74	1.64	1.73	1.42	0.84	1.01	0.77	0.80	1.01	1.51	2.06	1.96	1.37
1978	2.33	1.16	1.67	1.50	1.65	1.10	0.90	0.81	1.08	1.22	1.40	1.63	1.37
1979	2.14	1.83	1.89	1.55	1.35	0.81	0.83	0.92	1.35	1.28	1.48	1.76	1.43
1980	1.82	1.33	2.09	1.72	0.98	0.95	0.95	1.08	1.13	1.44	1.60	1.77	1.41
1981	1.41	2.50	1.73	1.93	1.49	0.90	1.00	0.74	1.37	1.26	1.50	1.46	1.43
1982	1.72	1.35	1.09	1.51	0.84	1.06	0.56	0.62	0.93	1.04	1.32	1.14	1.10
1983	1.37	1.45	1.66	1.43	1.39	0.91	0.74	0.67	0.93	1.46	1.53	2.01	1.30
1984	1.32	1.83	1.92	1.45	1.40	1.06	1.03	0.63	0.84	1.14	1.46	1.37	1.29
1985	1.50	1.72	1.49	1.39	1.15	0.92	0.80	0.69	1.03	0.90	1.76	1.43	1.23
1986	1.90	1.28	1.78	1.43	1.11	1.14	0.69	0.87	1.12	1.08	1.29	1.72	1.29
1987	1.59	1.24	1.48	1.71	1.04	0.82	0.60	0.77	0.90	1.14	1.41	1.22	1.16
1988	1.25	1.54	1.22	1.21	1.06	0.97	0.97	0.87	1.02	1.23	1.40	1.21	1.16
1989	1.32	1.30	1.57	1.22	1.38	0.88	0.76	1.03	1.71	1.13	1.71	1.22	1.27
1990	1.35	1.58	1.33	1.46	1.25	1.20	1.02	1.04	1.20	1.44	1.15	1.47	1.29
1991	1.38	1.21	1.60	1.20	0.85	0.79	0.81	1.00	1.18	1.27	1.25	1.34	1.16
1992	1.57	1.27	1.60	0.92	1.00	0.82	0.65	0.74	0.95	0.88	1.08	1.51	1.08
1993	1.52	1.52	1.53	1.72	1.03	0.87	0.72	0.77	1.09	1.22	1.51	1.39	1.24
MEAN	1.61	1.54	1.62	1.45	1.18	0.96	0.81	0.85	1.10	1.24	1.47	1.51	

STATION: 75

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	451018	481118	501018	231212	451018	30 721	17 623	581016	211314	43 914	36 727	32 631	581016
1977	511013	571115	46 916	451015	23 722	28 911	34 721	23 719	351011	37 915	601212	561110	601212
1978	651317	411010	491113	531212	501213	34 819	29 912	30 818	23 721	33 820	461014	421017	651317
1979	721314	501214	631216	431215	301017	20 716	21 716	29 8 9	41 917	43 822	461017	40 919	721314
1980	561118	36 9 8	591116	481216	32 819	23 623	191017	401917	251614	721414	461014	41 9 9	721414
1981	37 919	791416	621118	591118	34 916	31 722	26 818	20 710	301514	28 719	351312	351116	791416
1982	521019	30 722	31 727	441017	25 721	301014	14 525	23 719	241213	5910 8	35 919	27 718	5910 8
1983	30 8 8	501112	551112	36 913	421018	22 718	21 532	17 529	27 813	511112	40 729	671313	671313
1984	35 8 8	491014	721312	541115	42 919	261314	31 720	13 4 1	201314	541415	36 919	32 815	721312
1985	36 729	651214	45 918	561118	30 721	30 820	29 721	14 613	831316	27 7 9	631313	38 919	831316
1986	421013	451010	641218	411111	27 721	36 821	19 623	43 811	421018	26 7 8	35 819	811314	811314
1987	491010	36 6 1	621316	501013	23 810	20 720	13 522	20 621	29 8 8	28 720	33 912	31 810	621316
1988	28 721	421313	28 819	34 810	27 710	25 720	29 819	21 617	23 720	36 812	36 918	35 820	421313
1989	29 7 9	401214	461011	36 819	41 917	18 815	23 623	331214	592014	44 9 9	411117	26 918	592014
1990	32 915	41 919	39 911	32 918	38 917	32 819	27 721	35 910	241412	30 817	26 628	401115	41 919
1991	41 912	23 624	34 910	30 8 8	21 616	25 720	20 618	591315	511814	281014	25 917	32 726	591315
1992	511513	24 8 9	341013	24 718	21 816	21 813	18 620	18 719	28 810	19 617	30 818	621213	621213
1993	501018	48 9 9	511012	391016	21 622	17 618	18 619	241416	381317	43 9 9	611214	37 727	611214
MAX	721314	791416	721312	591118	501213	36 821	34 721	591315	831316	721414	631313	811314	

MAX Hmo(m): 8.3 MAX Tp(sec): 13. MAX Dp(deg): 162. DATE(gmt): 85092718

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 85. DATE(gmt): 85092715

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.00 W, DEPTH: 31 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 76

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	120	136	164	241	168	255	528	656	421	288	226	225	3428
0.50 - 0.99	945	874	922	1080	1534	2048	2543	2268	1629	1342	935	931	17051
1.00 - 1.49	1091	1106	1073	1091	1509	1325	976	1113	1172	1348	1046	1175	14025
1.50 - 1.99	876	862	889	781	709	493	297	260	629	800	908	853	8357
2.00 - 2.49	607	508	589	554	301	133	79	87	294	359	623	609	4743
2.50 - 2.99	337	232	336	264	115	41	28	27	79	183	337	324	2303
3.00 - 3.49	212	116	209	124	73	21	11	21	41	62	143	157	1190
3.50 - 3.99	122	96	127	81	29	3	2	10	24	33	47	101	675
4.00 - 4.49	68	63	48	42	12	1	.	7	12	17	19	36	325
4.50 - 4.99	33	44	42	40	8	.	.	4	8	14	12	17	222
5.00 - 5.49	27	15	30	11	5	.	.	7	4	7	5	9	120
5.50 - 5.99	12	6	13	9	1	.	.	1	3	3	7	9	64
6.00 - 6.49	7	3	8	2	.	.	.	3	1	3	6	8	41
6.50 - 6.99	2	4	11	.	.	.	.	.	1	2	6	5	31
7.00 - 7.49	4	3	1	.	.	.	.	.	.	1	.	2	11
7.50 - 7.99	1	1	2	.	.	.	.	.	.	2	.	2	8
8.00 - 8.49	.	2	.	.	.	.	.	.	1	.	.	.	3
8.50 - 8.99	.	1	.	.	.	.	.	.	1	.	.	1	3
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 76

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	146	140	112	112	68	96	196	227	140	129	139	158	1663
4.0 - 4.9	594	611	535	497	403	589	685	534	427	489	489	614	6467
5.0 - 5.9	801	794	575	453	471	655	554	639	478	659	734	821	7634
6.0 - 6.9	583	493	403	399	556	769	780	799	545	590	606	653	7176
7.0 - 7.9	451	389	482	493	924	786	982	976	688	534	526	385	7616
8.0 - 8.9	340	380	557	613	930	795	795	658	591	649	558	416	7282
9.0 - 9.9	375	393	466	636	635	398	352	229	406	629	504	401	5424
10.0 - 10.9	396	299	477	479	249	159	89	131	263	370	371	394	3677
11.0 - 11.9	303	245	356	322	101	37	19	67	171	161	210	224	2216
12.0 - 12.9	226	176	294	224	69	23	4	47	126	130	68	170	1557
13.0 - 13.9	145	76	134	64	39	13	6	39	131	51	58	132	888
14.0 - 14.9	53	46	51	20	8	.	2	27	93	29	31	85	445
15.0 - 15.9	25	20	21	8	9	.	.	24	99	13	22	9	250
16.0 - 16.9	18	6	1	.	2	.	.	25	59	9	2	1	123
17.0 - 17.9	6	.	.	.	.	.	.	16	47	12	2	1	84
18.0 - 18.9	2	4	.	.	.	.	.	8	21	9	.	.	44
19.0 - 19.9	.	.	.	.	.	.	.	8	22	1	.	.	31
20.0 - LONGER	.	.	.	.	.	.	.	10	13	.	.	.	23
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 76

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	94	167	115	89	36	52	41	68	82	71	95	96	1006
11.25 - 33.74 (22.5)	36	63	56	18	39	44	12	56	37	50	47	35	493
33.75 - 56.24 (45.0)	41	62	35	15	42	35	9	36	49	87	34	39	484
56.25 - 78.74 (67.5)	88	121	133	96	129	55	16	68	96	180	137	84	1203
78.75 - 101.24 (90.0)	269	231	349	352	475	326	96	288	528	471	348	304	4037
101.25 - 123.74 (112.5)	519	406	668	692	641	347	332	696	790	897	659	535	7182
123.75 - 146.24 (135.0)	543	500	489	649	649	506	693	795	899	778	534	468	7503
146.25 - 168.74 (157.5)	459	423	541	647	610	537	441	552	418	369	338	307	5642
168.75 - 191.24 (180.0)	551	480	800	743	941	1146	1495	932	621	334	510	558	9111
191.25 - 213.74 (202.5)	209	231	319	226	328	418	380	339	246	233	252	326	3507
213.75 - 236.24 (225.0)	168	171	130	116	145	255	333	247	165	173	205	227	2335
236.25 - 258.74 (247.5)	167	167	96	90	100	155	167	128	118	202	182	255	1827
258.75 - 281.24 (270.0)	392	220	175	151	112	185	140	69	88	227	331	574	2464
281.25 - 303.74 (292.5)	377	210	219	149	50	99	139	65	77	181	254	347	2167
303.75 - 326.24 (315.0)	358	348	209	153	93	105	103	68	56	148	259	350	2250
326.25 - 348.74 (337.5)	193	272	130	134	74	55	67	57	50	63	135	159	1389
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.00 W, DEPTH: 31 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 76 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	874										874
1.00 - 1.99	643	261									904
2.00 - 2.99		110									110
3.00 - 3.99		9	1								10
4.00 - 4.99			1								1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1517	380	2	0	0	0	0	0	0	0	1899

STATION: 76 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	347	42	17	38	12						456
1.00 - 1.99	152	388	50								590
2.00 - 2.99		70	23	1							94
3.00 - 3.99		3	16	8							27
4.00 - 4.99			2	1							3
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	499	503	108	48	12	0	0	0	0	0	1170

STATION: 76 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	276	323	1006	1053	273	32	3	4			2970
1.00 - 1.99	97	858	1125	518	110	24	1				2733
2.00 - 2.99		137	603	137	29	24	5				935
3.00 - 3.99			129	93	17	8		1			248
4.00 - 4.99			12	56	10	1					79
5.00 - 5.99				16	9	2					27
6.00 - 6.99				2	4	3					9
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	373	1318	2875	1875	452	94	9	5	0	0	7001

STATION: 76 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	283	697	2885	2156	791	210	60	35	7	1	7125
1.00 - 1.99	71	734	1589	1547	961	519	144	45	15		5625
2.00 - 2.99		93	436	447	420	163	93	10	3		1665
3.00 - 3.99			109	189	140	76	16	10	5		545
4.00 - 4.99			14	77	91	29	10	10	2		233
5.00 - 5.99				23	32	28	4	1	5		93
6.00 - 6.99				4	19	15	1				39
7.00 - 7.99					7	7					14
8.00 - 8.99					1	1					2
9.00 - GREATER											0
TOTAL	354	1524	5033	4443	2462	1048	328	111	37	1	15341

STATION: 76 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	635	1893	2400	508	79	3		1	3	1	5523
1.00 - 1.99	136	1597	2197	1202	304	38	8	5	5		5492
2.00 - 2.99		158	803	553	274	74	17	3			1882
3.00 - 3.99			185	259	103	43	6			2	598
4.00 - 4.99			6	104	47	16	2	2		1	178
5.00 - 5.99				24	22	6	1	1	4		58
6.00 - 6.99				2	15	7					24
7.00 - 7.99					3	1	1				5
8.00 - 8.99						3	1				4
9.00 - GREATER											0
TOTAL	771	3648	5591	2652	847	191	36	12	12	4	13764

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.00 W, DEPTH: 31 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 76 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	907	408	19	.	.	.	.	.	.	.	1334
1.00 - 1.99	133	2175	178	.	.	.	.	.	.	.	2486
2.00 - 2.99	.	218	609	5	.	.	.	.	.	.	832
3.00 - 3.99	.	.	131	52	.	.	.	.	.	.	183
4.00 - 4.99	.	.	6	21	.	.	.	.	.	.	27
5.00 - 5.99	.	.	.	3	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1040	2801	943	81	0	0	0	0	0	0	4865

STATION: 76 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1011	111	.	.	.	.	.	.	.	.	1122
1.00 - 1.99	183	1971	4	.	.	.	.	.	.	.	2158
2.00 - 2.99	.	755	125	.	.	.	.	.	.	.	880
3.00 - 3.99	.	8	178	.	.	.	.	.	.	.	186
4.00 - 4.99	.	.	25	.	.	.	.	.	.	.	25
5.00 - 5.99	.	.	1	2	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1194	2845	333	2	0	0	0	0	0	0	4374

STATION: 76 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1075	.	.	.	.	.	.	.	.	.	1075
1.00 - 1.99	1307	1087	.	.	.	.	.	.	.	.	2394
2.00 - 2.99	.	648	.	.	.	.	.	.	.	.	648
3.00 - 3.99	.	56	12	.	.	.	.	.	.	.	68
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2382	1791	13	0	0	0	0	0	0	0	4186

STATION: 76 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5408	3474	6327	3755	1155	245	63	40	10	2	20479
1.00 - 1.99	2722	9071	5143	3267	1375	581	153	50	20	.	22382
2.00 - 2.99	.	2189	2599	1143	723	261	115	13	3	.	7046
3.00 - 3.99	.	76	761	601	260	127	22	11	5	2	1865
4.00 - 4.99	.	.	67	259	148	46	12	12	2	1	547
5.00 - 5.99	.	.	1	68	63	36	5	2	9	.	184
6.00 - 6.99	.	.	.	8	38	25	1	.	.	.	72
7.00 - 7.99	.	.	.	.	10	8	1	.	.	.	19
8.00 - 8.99	.	.	.	.	1	4	1	.	.	.	6
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8130	14810	14898	9101	3773	1333	373	128	49	5	52600

STATION: 76

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	100	72	114	237	398	426	623	736	571	315	136	78	3806
2.50 - 4.99	834	764	957	1176	1711	1858	2254	2176	1783	1337	960	881	16691
5.00 - 7.49	766	747	811	916	1021	1058	982	974	953	970	835	845	10878
7.50 - 9.99	1101	1114	1171	1089	943	813	505	458	755	1156	1215	1146	11466
10.00 - 12.49	608	531	603	461	268	117	81	84	174	352	531	646	4456
12.50 - 14.99	574	508	474	330	99	41	16	27	71	250	450	505	3345
15.00 - 17.49	244	163	158	72	22	7	3	2	7	50	105	176	1009
17.50 - 19.99	169	108	129	37	2	.	.	3	3	27	65	118	661
20.00 - GREATER	68	65	47	2	.	.	.	4	3	7	23	69	288
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 73.00 W, DEPTH: 31 M

STATION: 76

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	538	648	738	528	420	423	377	499	568	485	482	536	6242
22.50 - 67.49 (45.0)	337	408	385	376	460	251	266	392	546	595	374	264	4654
67.50 - 112.49 (90.0)	276	270	377	344	361	209	234	358	394	340	333	259	3755
112.50 - 157.49 (135.0)	258	263	291	492	407	242	367	304	361	340	283	227	3835
157.50 - 202.49 (180.0)	320	255	512	513	646	637	555	561	496	508	434	395	5832
202.50 - 247.49 (225.0)	523	532	582	585	851	1099	1167	1060	764	642	631	636	9072
247.50 - 292.49 (270.0)	890	580	570	599	690	784	822	672	595	714	825	876	8617
292.50 - 337.49 (315.0)	1322	1116	1009	883	629	675	676	618	596	840	958	1271	10593
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 76

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.78	2.05	1.87	1.30	1.59	1.20	0.89	1.22	0.98	1.73	1.69	1.64	1.49
1977	1.86	1.72	1.80	1.49	0.87	1.06	0.81	0.84	1.05	1.59	2.15	2.06	1.44
1978	2.48	1.22	1.75	1.56	1.73	1.13	0.95	0.85	1.15	1.29	1.47	1.72	1.44
1979	2.24	1.91	1.94	1.60	1.42	0.84	0.87	0.96	1.42	1.36	1.55	1.86	1.50
1980	1.95	1.39	2.22	1.81	1.03	1.01	1.02	1.21	1.18	1.53	1.68	1.85	1.49
1981	1.48	2.62	1.83	2.02	1.57	0.94	1.04	0.78	1.43	1.35	1.61	1.56	1.51
1982	1.87	1.45	1.15	1.61	0.89	1.13	0.59	0.67	0.99	1.10	1.40	1.21	1.17
1983	1.44	1.53	1.75	1.50	1.45	0.96	0.78	0.71	0.97	1.55	1.62	2.12	1.36
1984	1.39	1.89	2.01	1.50	1.49	1.12	1.10	0.65	0.85	1.20	1.53	1.44	1.35
1985	1.59	1.79	1.56	1.45	1.21	0.98	0.84	0.72	1.08	0.93	1.83	1.52	1.29
1986	2.02	1.34	1.86	1.51	1.19	1.21	0.73	0.90	1.17	1.14	1.34	1.80	1.35
1987	1.68	1.29	1.60	1.81	1.09	0.86	0.64	0.79	0.94	1.19	1.47	1.28	1.22
1988	1.30	1.61	1.28	1.25	1.10	1.02	1.03	0.91	1.05	1.28	1.45	1.27	1.21
1989	1.37	1.37	1.66	1.27	1.44	0.92	0.79	1.06	1.75	1.19	1.81	1.28	1.32
1990	1.42	1.66	1.38	1.52	1.31	1.26	1.07	1.09	1.24	1.47	1.20	1.53	1.34
1991	1.44	1.26	1.66	1.25	0.89	0.83	0.85	1.05	1.21	1.33	1.32	1.41	1.21
1992	1.63	1.33	1.67	0.96	1.07	0.86	0.69	0.78	0.99	0.93	1.13	1.60	1.14
1993	1.62	1.63	1.60	1.83	1.08	0.91	0.76	0.81	1.15	1.28	1.59	1.46	1.31
MEAN	1.70	1.62	1.70	1.51	1.25	1.01	0.86	0.89	1.14	1.30	1.55	1.59	

STATION: 76

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	491019	521020	531019	25 813	491019	32 920	19 620	611017	221612	46 914	39 819	35 919	611017
1977	531013	611115	48 917	471014	24 821	30 911	38 919	23 619	38 910	40 915	641212	611210	641212
1978	701317	4611 9	521112	571212	551213	36 820	31 812	31 819	311318	33 821	491013	461018	701317
1979	781213	541113	671216	461216	321017	19 716	21 716	30 8 8	44 917	47 920	501018	431019	781213
1980	611119	41 9 8	631216	511216	33 819	24 722	201018	551918	251614	771414	49 914	441010	771414
1981	42 920	861417	671218	621119	35 916	34 820	28 818	21 710	34 819	32 726	39 9 8	371216	861417
1982	571119	32 820	36 728	481018	25 821	311014	14 526	25 819	241212	6411 8	38 920	28 818	6411 8
1983	34 8 8	5410 9	581111	39 813	441019	25 718	22 532	20 627	29 819	541112	43 828	731312	731312
1984	39 8 8	511014	781312	571115	461019	271313	32 919	13 4 0	211314	551415	39 822	33 814	781312
1985	40 828	691214	48 918	591118	31 821	33 919	30 821	15 5 4	861317	28 7 9	671312	41 919	861317
1986	451013	471010	671219	451010	29 722	41 919	20 623	45 812	451019	28 7 8	38 914	851314	851314
1987	531010	3810 9	681316	541013	25 810	20 721	13 522	21 622	32 9 8	28 720	34 912	33 910	681316
1988	30 7 7	43 919	29 819	35 810	27 710	27 721	31 919	23 722	231513	37 812	39 821	38 920	43 919
1989	30 8 9	441214	481011	38 819	42 917	19 816	23 623	341213	572014	46 9 9	461117	28 918	572014
1990	36 916	431018	41 911	34 919	40 917	34 919	29 821	37 9 9	241412	30 7 5	29 727	431016	431016
1991	43 912	24 624	35 910	31 8 8	21 616	25 721	20 618	641113	501814	29 8 8	26 722	36 729	641113
1992	5410 9	26 8 9	361013	25 718	21 816	22 813	18 620	19 917	29 810	21 6 6	31 818	661112	661112
1993	521019	5310 9	551517	431016	21 721	17 625	19 619	241416	431318	46 9 9	651214	43 823	651214
MAX	781213	861417	781312	621119	551213	41 919	38 919	641113	861317	771414	671312	851314	

MAX Hmo(m): 8.6 MAX Tp(sec): 13. MAX Dp(deg): 166. DATE(gmt): 85092718

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 90. DATE(gmt): 85092715

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 72.75 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 77

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	111	129	140	201	144	199	461	592	383	257	194	197	3008
0.50 - 0.99	914	819	871	1057	1428	1962	2512	2236	1576	1283	895	870	16423
1.00 - 1.49	1046	1097	1086	1080	1531	1404	1034	1168	1212	1319	1040	1179	14196
1.50 - 1.99	842	858	871	783	736	520	324	276	645	826	880	831	8392
2.00 - 2.49	625	530	606	585	364	156	86	109	312	368	634	652	5027
2.50 - 2.99	362	250	367	284	132	49	32	44	100	232	369	333	2554
3.00 - 3.49	235	126	198	128	73	24	13	19	37	80	182	191	1306
3.50 - 3.99	140	97	142	82	25	5	2	7	24	38	63	101	726
4.00 - 4.49	82	66	57	54	13	1	.	5	13	21	22	43	377
4.50 - 4.99	44	51	50	35	8	.	.	2	8	17	12	26	253
5.00 - 5.49	22	18	33	17	7	.	.	3	3	9	8	9	129
5.50 - 5.99	20	17	13	9	3	.	.	.	4	5	7	8	86
6.00 - 6.49	12	3	13	3	.	.	.	2	1	2	5	11	52
6.50 - 6.99	4	1	9	2	.	.	.	.	.	2	6	6	30
7.00 - 7.49	3	4	5	.	.	.	.	1	.	3	3	3	22
7.50 - 7.99	1	3	1	.	.	.	.	.	1	.	.	1	7
8.00 - 8.49	1	.	2	.	.	.	.	.	.	2	.	2	7
8.50 - 8.99	.	2	.	.	.	.	.	.	1	.	.	1	4
9.00 - 9.49	.	1	.	.	.	.	.	.	.	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 77

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	126	128	89	97	57	69	156	206	122	108	113	143	1414
4.0 - 4.9	570	570	522	482	362	519	652	518	396	468	471	593	6123
5.0 - 5.9	765	782	557	446	496	658	569	663	500	646	691	763	7536
6.0 - 6.9	622	539	456	433	570	824	825	792	559	617	638	707	7582
7.0 - 7.9	504	399	499	520	899	803	1021	996	690	571	586	437	7925
8.0 - 8.9	390	417	597	623	1004	818	796	681	614	648	566	430	7584
9.0 - 9.9	374	420	482	648	619	409	332	229	431	643	516	408	5511
10.0 - 10.9	401	281	449	464	248	155	81	127	264	374	370	382	3596
11.0 - 11.9	281	231	352	304	93	29	25	56	155	156	189	232	2103
12.0 - 12.9	197	168	283	218	63	26	3	48	130	120	74	164	1494
13.0 - 13.9	134	74	114	61	37	10	3	34	120	43	47	117	794
14.0 - 14.9	54	36	53	18	8	.	1	28	96	28	35	79	436
15.0 - 15.9	23	20	11	6	8	.	.	23	88	14	20	7	220
16.0 - 16.9	16	2	.	.	.	.	.	25	63	8	2	2	118
17.0 - 17.9	5	.	.	.	.	.	.	17	44	14	1	.	81
18.0 - 18.9	2	4	.	.	.	.	.	7	20	5	1	.	39
19.0 - 19.9	.	1	.	.	.	.	.	8	14	1	.	.	24
20.0 - LONGER	.	.	.	.	.	.	.	6	14	.	.	.	20
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 77

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	90	175	106	77	33	45	35	63	84	74	89	88	959
11.25 - 33.74 (22.5)	35	75	65	34	43	47	15	59	48	69	56	46	592
33.75 - 56.24 (45.0)	76	91	85	32	88	51	12	46	87	145	79	67	859
56.25 - 78.74 (67.5)	107	121	144	110	137	52	20	85	104	178	150	80	1288
78.75 - 101.24 (90.0)	273	247	380	399	499	349	108	295	576	487	345	330	4288
101.25 - 123.74 (112.5)	526	400	632	677	632	341	330	687	777	883	643	531	7059
123.75 - 146.24 (135.0)	531	473	472	620	613	479	651	762	847	712	508	423	7091
146.25 - 168.74 (157.5)	449	410	513	635	591	510	412	561	403	353	308	297	5442
168.75 - 191.24 (180.0)	439	406	696	621	869	1081	1467	856	564	305	486	487	8277
191.25 - 213.74 (202.5)	215	252	339	280	369	500	457	393	259	252	255	349	3920
213.75 - 236.24 (225.0)	184	182	145	139	164	274	354	263	191	190	213	239	2538
236.25 - 258.74 (247.5)	176	193	126	89	109	174	170	135	108	211	198	267	1956
258.75 - 281.24 (270.0)	453	230	188	166	108	178	152	76	104	224	367	403	2649
281.25 - 303.74 (292.5)	355	203	222	159	51	90	129	65	69	176	226	335	2080
303.75 - 326.24 (315.0)	363	356	215	155	90	100	93	68	59	138	261	357	2255
326.25 - 348.74 (337.5)	192	258	136	127	68	49	59	50	40	67	136	165	1347
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 72.75 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 77 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	762										762
1.00 - 1.99	646	246									892
2.00 - 2.99		115									115
3.00 - 3.99		12	1								13
4.00 - 4.99			2								2
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1408	373	3	0	0	0	0	0	0	0	1784

STATION: 77 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	342	59	25	48	16	1		5	1		497
1.00 - 1.99	109	731	31		2						873
2.00 - 2.99		240	109								349
3.00 - 3.99		11	51	7							69
4.00 - 4.99			22	3	1						26
5.00 - 5.99			2								2
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	451	1041	240	58	19	1	0	5	1	0	1816

STATION: 77 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	251	289	981	1208	353	29	1				3112
1.00 - 1.99	71	764	1058	762	136	19	1				2811
2.00 - 2.99		148	607	179	35	19	3				991
3.00 - 3.99			171	92	25	14	2	1			305
4.00 - 4.99			17	73	16	3					109
5.00 - 5.99				21	9						30
6.00 - 6.99				3	11	6					20
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	322	1201	2834	2338	585	90	7	1	0	0	7378

STATION: 77 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	253	637	2672	1919	686	159	50	29	5	1	6411
1.00 - 1.99	76	711	1550	1543	962	525	126	46	20		5559
2.00 - 2.99		85	423	431	439	160	113	13	3		1667
3.00 - 3.99			108	196	159	80	15	11	4		573
4.00 - 4.99			14	71	85	30	8	11	2		221
5.00 - 5.99				31	38	25	6	1	5		106
6.00 - 6.99				4	14	14					32
7.00 - 7.99					10	7	1				18
8.00 - 8.99					2	6					8
9.00 - GREATER											0
TOTAL	329	1433	4767	4195	2395	1006	319	111	39	1	14595

STATION: 77 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	590	1816	2360	416	49	3					5234
1.00 - 1.99	125	1562	2395	1085	224	36	3				5430
2.00 - 2.99		147	800	506	190	52	6	3	3		1707
3.00 - 3.99		1	165	204	55	20	1				446
4.00 - 4.99			10	95	29	6					140
5.00 - 5.99				31	21	6					58
6.00 - 6.99				3	20	4					27
7.00 - 7.99					7	3	1				11
8.00 - 8.99						2	1				3
9.00 - GREATER						1					1
TOTAL	715	3526	5730	2340	595	133	12	3	3	0	13057

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 72.75 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 77 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	847	485	30	.	.	.	.	.	.	.	1362
1.00 - 1.99	119	2190	295	.	.	.	.	.	.	.	2604
2.00 - 2.99	.	193	769	6	.	.	.	.	.	.	968
3.00 - 3.99	.	.	162	99	.	.	.	.	.	.	261
4.00 - 4.99	.	.	14	50	.	.	.	.	.	.	64
5.00 - 5.99	.	.	.	12	1	.	.	.	.	.	13
6.00 - 6.99	.	.	.	1	2	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	966	2868	1270	168	3	0	0	0	0	0	5275

STATION: 77 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	885	164	.	.	.	.	.	.	.	.	1049
1.00 - 1.99	168	1883	8	.	.	.	.	.	.	.	2059
2.00 - 2.99	.	796	287	.	.	.	.	.	.	.	1083
3.00 - 3.99	.	8	287	3	.	.	.	.	.	.	298
4.00 - 4.99	.	.	65	2	.	.	.	.	.	.	67
5.00 - 5.99	.	.	3	3	.	.	.	.	.	.	6
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1053	2851	650	8	0	0	0	0	0	0	4562

STATION: 77 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1004	.	.	.	.	.	.	.	.	.	1004
1.00 - 1.99	1289	1071	.	.	.	.	.	.	.	.	2360
2.00 - 2.99	.	701	.	.	.	.	.	.	.	.	701
3.00 - 3.99	.	53	14	.	.	.	.	.	.	.	67
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2293	1825	15	0	0	0	0	0	0	0	4133

STATION: 77 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4934	3450	6068	3591	1104	192	51	34	6	1	19431
1.00 - 1.99	2603	9158	5337	3390	1324	580	130	46	20	.	22588
2.00 - 2.99	.	2425	2995	1122	664	231	122	16	6	.	7581
3.00 - 3.99	.	85	959	601	239	114	18	12	4	.	2032
4.00 - 4.99	.	.	145	294	131	39	8	11	2	.	630
5.00 - 5.99	.	.	5	98	69	31	6	1	5	.	215
6.00 - 6.99	.	.	.	11	47	24	.	.	.	.	82
7.00 - 7.99	.	.	.	.	17	10	2	.	.	.	29
8.00 - 8.99	.	.	.	.	2	8	1	.	.	.	11
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	7537	15118	15509	9107	3597	1230	338	120	43	1	52600

STATION: 77

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	99	69	109	227	370	410	609	711	565	301	136	66	3672
2.50 - 4.99	811	751	944	1163	1707	1854	2256	2175	1759	1328	941	870	16559
5.00 - 7.49	756	739	798	924	1030	1063	985	989	963	958	839	849	10893
7.50 - 9.99	1107	1115	1196	1098	966	828	514	468	774	1175	1210	1138	11589
10.00 - 12.49	603	535	595	458	263	117	81	86	173	361	545	655	4472
12.50 - 14.99	599	519	486	332	104	41	16	26	74	255	455	508	3415
15.00 - 17.49	243	169	156	76	22	7	3	2	7	53	102	185	1025
17.50 - 19.99	171	105	130	40	2	.	.	3	2	26	69	122	670
20.00 - GREATER	75	70	50	2	.	.	.	4	3	7	23	71	305
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.50 N, LONG: 72.75 W, DEPTH: 37 M

STATION: 77

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	555	661	748	515	423	429	362	500	571	477	484	546	6271
22.50 - 67.49 (45.0)	335	399	385	388	469	242	272	388	556	609	383	264	4690
67.50 - 112.49 (90.0)	271	267	377	346	359	215	227	358	402	356	347	261	3786
112.50 - 157.49 (135.0)	256	262	289	489	408	235	381	301	353	332	264	227	3797
157.50 - 202.49 (180.0)	316	252	509	498	639	639	548	558	485	494	432	384	5754
202.50 - 247.49 (225.0)	517	516	578	591	863	1103	1180	1081	767	631	630	629	9086
247.50 - 292.49 (270.0)	897	597	581	603	683	798	834	665	596	729	820	876	8679
292.50 - 337.49 (315.0)	1317	1118	997	890	620	659	660	613	590	836	960	1277	10537
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 77

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.84	2.11	1.91	1.34	1.63	1.26	0.92	1.25	1.01	1.82	1.75	1.67	1.54
1977	1.95	1.77	1.83	1.51	0.91	1.09	0.84	0.87	1.08	1.66	2.22	2.13	1.49
1978	2.59	1.28	1.82	1.59	1.75	1.15	0.98	0.87	1.20	1.34	1.53	1.77	1.49
1979	2.26	1.97	1.98	1.63	1.46	0.87	0.89	0.98	1.45	1.42	1.61	1.92	1.53
1980	2.09	1.46	2.31	1.84	1.06	1.06	1.05	1.15	1.22	1.60	1.75	1.92	1.54
1981	1.54	2.68	1.89	2.07	1.64	0.98	1.06	0.80	1.46	1.43	1.73	1.62	1.57
1982	1.98	1.51	1.20	1.67	0.93	1.19	0.61	0.69	1.05	1.16	1.45	1.26	1.22
1983	1.49	1.61	1.80	1.54	1.47	1.00	0.79	0.75	1.01	1.63	1.67	2.20	1.41
1984	1.45	1.93	2.10	1.54	1.51	1.16	1.15	0.66	0.87	1.26	1.57	1.50	1.39
1985	1.66	1.85	1.62	1.47	1.26	1.04	0.88	0.75	1.10	0.95	1.87	1.56	1.33
1986	2.10	1.37	1.89	1.59	1.26	1.25	0.76	0.93	1.19	1.20	1.38	1.88	1.40
1987	1.77	1.35	1.69	1.88	1.13	0.88	0.66	0.81	0.95	1.25	1.52	1.32	1.27
1988	1.35	1.66	1.31	1.30	1.15	1.07	1.06	0.94	1.02	1.33	1.50	1.31	1.25
1989	1.42	1.43	1.75	1.29	1.46	0.95	0.81	1.09	1.78	1.23	1.86	1.34	1.37
1990	1.45	1.67	1.40	1.55	1.33	1.29	1.10	1.11	1.27	1.51	1.24	1.59	1.38
1991	1.48	1.31	1.67	1.28	0.92	0.86	0.87	1.07	1.23	1.38	1.40	1.46	1.24
1992	1.66	1.37	1.72	0.99	1.13	0.89	0.72	0.80	1.03	0.98	1.16	1.68	1.18
1993	1.69	1.72	1.66	1.91	1.12	0.94	0.77	0.84	1.17	1.32	1.64	1.55	1.36
MEAN	1.76	1.67	1.75	1.56	1.28	1.05	0.89	0.91	1.17	1.36	1.60	1.65	

STATION: 77

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	501020	551020	551020	28 812	511020	34 921	19 722	641016	231612	48 914	41 828	40 921	641016
1977	561014	631114	47 917	481014	25 822	34 910	39 920	23 619	391010	43 914	671212	651210	671212
1978	741218	5511 9	541112	6311 8	571213	37 820	33 812	33 819	271317	33 821	511013	491019	741218
1979	811213	581113	691216	471016	321017	20 624	21 716	29 8 8	44 917	501019	521018	451021	811213
1980	641119	4510 9	661216	531216	33 820	25 723	20 723	291917	251614	821414	511014	491110	821414
1981	43 921	901417	721219	651120	35 916	35 821	29 818	22 710	35 823	34 728	45 7 3	39 732	901417
1982	611121	33 920	40 827	501018	24 821	331014	15 528	27 819	26 7 7	6611 8	39 921	28 718	6611 8
1983	38 9 8	5910 8	611111	40 813	451020	25 718	22 532	25 628	29 819	551112	46 828	761312	761312
1984	41 8 8	521014	821312	591115	481019	271313	33 919	13 4 0	23 625	561415	39 922	33 814	821315
1985	45 828	721214	49 918	601118	32 821	34 919	31 920	17 5 3	881317	28 710	701312	43 828	881317
1986	471013	48 9 8	711219	471010	30 8 7	42 920	20 623	46 812	481020	28 8 8	39 914	871314	871314
1987	551010	46 8 4	731317	561013	26 8 9	20 621	14 522	21 622	34 9 8	28 721	34 912	37 910	731317
1988	34 728	45 825	29 819	34 812	26 710	27 721	32 919	24 821	251513	37 912	42 921	39 921	45 825
1989	31 8 9	51 8 5	491011	39 919	42 917	20 816	24 623	341213	572014	47 9 9	481117	26 6 4	572014
1990	39 917	461018	41 911	351018	41 917	34 919	29 822	37 8 8	241412	35 7 4	33 728	451016	461018
1991	44 912	25 725	36 8 8	30 8 8	20 623	25 721	19 618	711112	491714	35 8 7	29 726	38 823	711112
1992	5610 9	27 8 8	381013	26 718	21 7 8	22 813	18 620	20 719	30 8 9	23 7 7	32 818	681112	681112
1993	541019	5710 9	551012	461016	22 721	19 626	19 619	241416	321317	481010	671214	46 826	671214
MAX	811213	901417	821312	651120	571213	42 920	39 920	711112	881317	821414	701312	871314	

MAX Hmo(m): 9.0 MAX Tp(sec): 14. MAX Dp(deg): 166. DATE(gmt): 81021115

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 95. DATE(gmt): 85092715

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.50 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 78

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	157	170	193	277	197	303	597	732	470	338	241	271	3946
0.50 - 0.99	1104	982	1014	1192	1693	2179	2596	2319	1746	1520	1103	1136	18584
1.00 - 1.49	1243	1168	1170	1128	1497	1268	898	1028	1141	1378	1182	1269	14370
1.50 - 1.99	816	804	829	774	614	397	268	237	575	694	894	758	7660
2.00 - 2.49	519	451	564	475	248	109	66	81	230	305	504	499	4051
2.50 - 2.99	267	200	300	213	109	40	28	33	72	126	210	252	1850
3.00 - 3.49	151	90	159	101	67	20	9	18	41	39	104	145	944
3.50 - 3.99	87	84	105	65	18	3	2	6	17	26	34	65	512
4.00 - 4.49	41	53	40	38	8	1	.	4	12	16	13	21	247
4.50 - 4.99	30	36	34	37	7	.	.	2	7	9	11	16	189
5.00 - 5.49	20	16	26	16	6	.	.	.	3	5	6	8	106
5.50 - 5.99	17	4	14	4	.	.	.	1	3	3	8	6	60
6.00 - 6.49	6	6	9	.	.	.	.	2	1	.	9	11	44
6.50 - 6.99	4	3	4	.	.	.	.	1	1	2	1	1	17
7.00 - 7.49	2	2	1	.	.	.	.	.	.	1	.	4	10
7.50 - 7.99	.	1	2	.	.	.	.	.	.	1	.	.	4
8.00 - 8.49	.	2	.	.	.	.	.	.	1	1	.	2	6
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 78

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	256	233	188	208	134	192	323	296	211	194	219	290	2744
4.0 - 4.9	723	688	571	514	398	531	519	491	387	597	601	726	6746
5.0 - 5.9	650	671	497	364	363	484	503	579	376	452	575	611	6125
6.0 - 6.9	394	412	363	391	584	840	849	842	621	555	472	457	6780
7.0 - 7.9	376	366	483	540	989	883	1070	1042	740	614	530	401	8034
8.0 - 8.9	369	369	503	622	944	816	753	618	612	633	575	472	7286
9.0 - 9.9	396	406	469	605	566	348	334	224	368	618	515	437	5286
10.0 - 10.9	449	296	497	446	254	148	79	107	232	335	397	393	3633
11.0 - 11.9	308	275	351	309	104	35	29	59	147	179	227	270	2293
12.0 - 12.9	258	196	316	227	72	31	1	50	132	140	86	175	1684
13.0 - 13.9	152	90	133	68	37	12	2	38	136	70	57	129	924
14.0 - 14.9	77	42	65	18	7	.	2	27	100	37	36	90	501
15.0 - 15.9	32	20	20	8	12	.	.	26	94	12	23	8	255
16.0 - 16.9	17	1	3	.	.	.	.	24	62	7	3	2	119
17.0 - 17.9	4	.	.	.	.	.	.	18	47	17	3	.	89
18.0 - 18.9	3	6	1	.	.	.	.	8	23	2	1	3	47
19.0 - 19.9	.	1	2	.	.	.	.	9	16	2	.	.	30
20.0 - LONGER	.	.	2	.	.	.	.	6	16	.	.	.	24
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 78

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	126	216	130	99	50	57	42	77	80	84	114	127	1202
11.25 - 33.74 (22.5)	56	92	69	34	45	48	19	65	50	69	55	44	646
33.75 - 56.24 (45.0)	39	55	37	18	48	21	8	30	47	79	35	44	461
56.25 - 78.74 (67.5)	78	91	100	76	89	55	8	54	80	150	136	68	985
78.75 - 101.24 (90.0)	241	218	309	274	417	263	35	242	421	363	266	248	3297
101.25 - 123.74 (112.5)	427	347	578	621	572	281	317	632	712	868	593	431	6379
123.75 - 146.24 (135.0)	686	597	645	750	774	582	702	865	1068	925	719	642	8955
146.25 - 168.74 (157.5)	605	522	661	766	711	564	477	655	470	473	418	404	6726
168.75 - 191.24 (180.0)	616	514	852	812	1018	1345	1684	965	715	445	652	725	10343
191.25 - 213.74 (202.5)	259	241	255	200	305	416	377	352	250	237	259	328	3479
213.75 - 236.24 (225.0)	161	163	132	103	136	244	294	223	133	198	237	266	2290
236.25 - 258.74 (247.5)	93	83	55	48	38	96	103	69	69	89	76	106	916
258.75 - 281.24 (270.0)	120	103	66	63	47	84	105	48	47	85	124	136	1028
281.25 - 303.74 (292.5)	310	154	161	133	43	91	124	57	56	147	196	265	1737
303.75 - 326.24 (315.0)	358	326	234	155	79	98	85	61	75	165	229	411	2276
326.25 - 348.74 (337.5)	289	350	180	168	92	75	84	69	56	87	211	219	1880
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N LONG: 72.50 W DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 78 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1089										1089
1.00 - 1.99	729	410									1139
2.00 - 2.99		186									186
3.00 - 3.99		14	4								18
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1818	610	4	0	0	0	0	0	0	0	2432

STATION: 78 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	349	34		2							385
1.00 - 1.99	337	227	11								575
2.00 - 2.99		39	42	1							82
3.00 - 3.99		5		4							9
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	686	305	53	7	0	0	0	0	0	0	1051

STATION: 78 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	313	345	1121	511	138	50	9	13	5		2505
1.00 - 1.99	102	1027	891	158	46	23	2				2249
2.00 - 2.99		135	517	44	20	20	8				744
3.00 - 3.99		1	116	77	8	6	1				209
4.00 - 4.99			15	39	7						61
5.00 - 5.99				11	5	2					18
6.00 - 6.99					3	4					7
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	415	1508	2660	840	227	105	20	13	5	0	5793

STATION: 78 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	321	786	3103	2582	989	273	55	31	11	2	8153
1.00 - 1.99	62	798	1671	1719	1121	548	154	48	19		6140
2.00 - 2.99		106	466	453	419	178	106	14	3		1745
3.00 - 3.99			99	182	159	76	14	15	4		549
4.00 - 4.99			13	75	89	31	3	11	2		224
5.00 - 5.99				24	33	29	6		5		97
6.00 - 6.99				1	24	12	1				38
7.00 - 7.99					4	7					11
8.00 - 8.99						4					4
9.00 - GREATER											0
TOTAL	383	1690	5352	5036	2838	1158	339	119	44	2	16961

STATION: 78 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	702	2245	2905	639	80	5	2				6578
1.00 - 1.99	144	1798	2579	1441	385	43	3	1			6394
2.00 - 2.99		194	833	575	289	64	5	3	3		1966
3.00 - 3.99		1	179	240	85	21	2				528
4.00 - 4.99			9	87	34	13	1				144
5.00 - 5.99				14	28	8					50
6.00 - 6.99					11	5					16
7.00 - 7.99						2	1				3
8.00 - 8.99						1	1				2
9.00 - GREATER											0
TOTAL	846	4238	6505	2996	912	162	15	4	3	0	15681

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 78 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	886	553	13	.	.	.	.	.	.	.	1452
1.00 - 1.99	222	1759	264	1	.	.	.	.	.	.	2246
2.00 - 2.99	.	146	352	6	.	.	.	.	.	.	504
3.00 - 3.99	.	.	64	30	.	.	.	.	.	.	94
4.00 - 4.99	.	.	5	2	.	.	.	.	.	.	7
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1108	2458	698	40	0	0	0	0	0	0	4304

STATION: 78 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1277	5	.	.	.	.	.	.	.	.	1282
1.00 - 1.99	486	209	7	.	.	.	.	.	.	.	702
2.00 - 2.99	.	27	29	.	.	.	.	.	.	.	56
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1763	241	37	0	0	0	0	0	0	0	2041

STATION: 78 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1085	1	.	.	.	.	.	.	.	.	1086
1.00 - 1.99	1386	1199	.	.	.	.	.	.	.	.	2585
2.00 - 2.99	.	618	.	.	.	.	.	.	.	.	618
3.00 - 3.99	.	37	11	.	.	.	.	.	.	.	48
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2471	1855	11	0	0	0	0	0	0	0	4337

STATION: 78 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6022	3969	7142	3734	1207	328	66	44	16	2	22530
1.00 - 1.99	3468	7427	5423	3319	1552	614	159	49	19	.	22030
2.00 - 2.99	.	1451	2239	1079	728	262	119	17	6	.	5901
3.00 - 3.99	.	58	474	533	252	103	17	15	4	.	1456
4.00 - 4.99	.	.	42	203	130	44	4	11	2	.	436
5.00 - 5.99	.	.	.	50	66	39	6	.	5	.	166
6.00 - 6.99	.	.	.	1	38	21	1	.	.	.	61
7.00 - 7.99	.	.	.	.	4	9	1	.	.	.	14
8.00 - 8.99	.	.	.	.	.	5	1	.	.	.	6
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	9490	12905	15320	8919	3977	1425	374	136	52	2	52600

STATION: 78

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	86	59	100	217	348	366	569	669	528	276	117	62	3397
2.50 - 4.99	814	746	942	1158	1729	1882	2277	2221	1805	1341	942	847	16704
5.00 - 7.49	753	748	798	939	1035	1084	1008	988	961	976	846	842	10978
7.50 - 9.99	1127	1097	1212	1093	963	827	519	469	773	1187	1231	1180	11678
10.00 - 12.49	619	565	597	472	262	111	73	85	177	360	531	649	4501
12.50 - 14.99	599	521	490	324	103	42	15	23	65	239	468	516	3405
15.00 - 17.49	221	150	151	77	20	8	3	1	6	51	96	172	956
17.50 - 19.99	169	113	123	39	4	.	.	5	3	26	67	126	675
20.00 - GREATER	76	73	51	1	.	.	.	3	2	8	22	70	306
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.50 W, DEPTH: 27 M

STATION: 78

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	539	682	759	516	418	422	346	488	568	468	478	544	6228
22.50 - 67.49 (45.0)	346	385	377	390	473	228	253	380	545	601	380	266	4624
67.50 - 112.49 (90.0)	264	258	365	344	339	214	223	346	374	336	334	250	3647
112.50 - 157.49 (135.0)	262	262	288	474	402	225	362	311	348	342	265	239	3780
157.50 - 202.49 (180.0)	322	250	511	518	645	612	558	554	491	503	456	383	5803
202.50 - 247.49 (225.0)	511	529	585	597	861	1123	1184	1094	780	643	627	628	9162
247.50 - 292.49 (270.0)	914	592	587	605	708	815	869	670	617	746	834	880	8837
292.50 - 337.49 (315.0)	1306	1114	992	876	618	681	669	621	597	825	946	1274	10519
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 78

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.70	1.89	1.81	1.22	1.53	1.18	0.87	1.20	0.91	1.57	1.42	1.57	1.41
1977	1.65	1.59	1.69	1.42	0.80	1.03	0.80	0.83	1.04	1.51	1.99	1.96	1.36
1978	2.25	1.18	1.68	1.48	1.69	1.12	0.92	0.84	1.09	1.20	1.43	1.56	1.37
1979	2.12	1.92	1.90	1.53	1.37	0.80	0.86	0.91	1.35	1.23	1.43	1.75	1.43
1980	1.90	1.31	2.11	1.75	0.99	0.97	0.98	1.03	1.16	1.41	1.57	1.76	1.41
1981	1.37	2.49	1.66	1.89	1.51	0.90	0.96	0.75	1.35	1.19	1.42	1.43	1.40
1982	1.60	1.36	1.04	1.49	0.81	1.08	0.56	0.64	0.94	0.99	1.25	1.11	1.07
1983	1.30	1.42	1.62	1.39	1.40	0.93	0.75	0.68	0.91	1.40	1.41	1.91	1.26
1984	1.28	1.79	1.90	1.46	1.39	1.06	1.07	0.63	0.80	1.13	1.43	1.28	1.27
1985	1.35	1.73	1.45	1.31	1.15	0.92	0.82	0.71	0.99	0.85	1.71	1.32	1.19
1986	1.86	1.26	1.75	1.45	1.11	1.14	0.71	0.86	1.11	1.05	1.28	1.67	1.27
1987	1.52	1.24	1.48	1.72	1.01	0.82	0.60	0.76	0.89	1.11	1.33	1.15	1.14
1988	1.19	1.50	1.21	1.15	1.07	0.96	1.00	0.88	0.96	1.14	1.32	1.12	1.12
1989	1.27	1.25	1.54	1.22	1.36	0.85	0.76	1.01	1.67	1.08	1.62	1.15	1.23
1990	1.26	1.57	1.29	1.44	1.22	1.23	1.04	1.03	1.12	1.41	1.10	1.41	1.26
1991	1.30	1.16	1.62	1.15	0.84	0.79	0.81	1.00	1.18	1.31	1.21	1.23	1.13
1992	1.49	1.28	1.59	0.92	1.01	0.86	0.66	0.76	0.94	0.86	1.09	1.49	1.08
1993	1.54	1.51	1.51	1.75	1.04	0.87	0.73	0.80	1.12	1.24	1.52	1.38	1.25
MEAN	1.55	1.53	1.60	1.43	1.18	0.97	0.83	0.85	1.09	1.21	1.42	1.46	

STATION: 78

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	47 921	511019	521118	27 813	491018	33 920	19 722	611015	221513	45 914	35 919	37 919	611015
1977	561113	611114	44 917	471014	25 820	31 911	37 820	23 618	381010	43 914	641312	611310	641312
1978	691217	531110	531112	541213	541213	35 919	32 812	32 819	311317	33 820	491015	461018	691217
1979	741314	501114	631216	471216	321017	19 716	21 716	27 8 8	42 917	491018	491017	411019	741314
1980	601118	38 9 9	631216	501216	32 818	22 622	20 722	291917	261614	821314	48 914	4510 9	821314
1981	38 920	821517	631219	591218	33 915	33 822	28 718	20 711	311515	29 811	361212	371116	821517
1982	581218	33 917	25 718	481017	23 721	331014	15 623	22 719	241213	581110	36 919	26 718	581110
1983	301111	511010	551112	38 914	401118	24 718	21 533	17 716	28 818	481011	39 914	721313	721313
1984	40 8 8	511013	781412	561115	441018	26 815	31 918	13 4 1	201314	521415	36 920	32 814	781412
1985	33 634	681214	47 918	541118	29 820	33 918	29 820	14 613	821316	24 711	651313	38 919	821316
1986	491013	40 9 9	641218	441010	25 7 7	40 919	19 622	43 812	441019	26 7 9	39 914	821414	821414
1987	501011	401012	701316	531013	23 710	19 620	16 522	20 621	32 8 8	26 719	30 811	31 8 9	701316
1988	29 811	44 912	28 817	30 813	25 710	25 720	30 818	23 722	221514	38 912	37 821	35 919	44 912
1989	30 7 8	421115	451012	36 819	38 917	19 816	23 623	331214	572014	41 9 9	461117	25 632	572014
1990	33 915	431018	37 911	33 918	38 917	33 918	29 820	33 8 9	221413	29 816	26 815	451015	451015
1991	40 912	24 820	34 8 9	28 7 8	20 623	23 721	18 618	671314	481714	281014	25 917	30 710	671314
1992	511514	26 8 8	391013	25 718	21 816	22 813	18 619	20 718	27 810	20 617	31 719	641213	641213
1993	511018	511010	50 912	451016	21 621	20 717	20 618	221416	341217	44 9 9	631214	34 819	631214
MAX	741314	821517	781412	591218	541213	40 919	37 820	671314	821316	821314	651313	821414	

MAX Hmo(m): 8.2 MAX Tp(sec): 14. MAX Dp(deg): 144. DATE(gmt): 86120306

MAX WIND SPEED(m/sec): 29. MAX WIND DIRECTION(deg): 195. DATE(gmt): 85092718

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N LONG: 72.25 W DEPTH: 38 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 79

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	121	131	158	217	155	214	436	589	406	291	199	207	3124
0.50 - 0.99	918	833	879	1097	1465	1930	2482	2271	1622	1339	933	948	16717
1.00 - 1.49	1189	1156	1116	1103	1567	1466	1083	1150	1229	1395	1148	1251	14853
1.50 - 1.99	869	841	889	804	736	498	321	275	604	760	908	819	8324
2.00 - 2.49	586	505	568	524	285	131	96	107	279	359	618	576	4634
2.50 - 2.99	294	261	367	254	126	48	25	28	86	180	291	302	2262
3.00 - 3.49	214	104	202	123	71	20	18	27	37	63	112	189	1180
3.50 - 3.99	105	78	108	75	27	12	3	5	28	24	53	73	591
4.00 - 4.49	67	72	63	47	16	1	.	3	13	22	17	40	361
4.50 - 4.99	34	42	35	35	5	.	.	3	7	15	11	16	203
5.00 - 5.49	24	17	29	24	6	.	.	1	4	5	10	14	134
5.50 - 5.99	16	14	21	14	5	.	.	1	2	3	4	7	87
6.00 - 6.49	14	2	11	3	.	.	.	1	.	2	7	6	46
6.50 - 6.99	5	7	9	.	.	.	.	1	1	1	8	9	41
7.00 - 7.49	5	2	5	.	.	.	.	1	1	2	1	3	20
7.50 - 7.99	1	3	2	.	.	.	.	1	.	1	.	2	10
8.00 - 8.49	2	2	1	.	.	.	.	.	.	1	.	1	7
8.50 - 8.99	.	1	1	.	.	.	.	.	1	1	.	1	5
9.00 - 9.49	.	1	.	.	.	.	.	.	.	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 79

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	147	142	117	111	68	83	182	215	158	146	126	178	1673
4.0 - 4.9	699	686	571	557	424	558	644	527	434	601	608	742	7051
5.0 - 5.9	765	709	524	405	380	521	518	606	376	531	718	702	6755
6.0 - 6.9	443	432	367	400	593	828	843	814	624	601	487	474	6906
7.0 - 7.9	389	376	501	553	994	912	1103	1068	758	603	543	423	8223
8.0 - 8.9	389	416	549	645	992	827	758	629	608	669	566	509	7557
9.0 - 9.9	427	416	486	627	553	381	305	241	384	598	506	442	5366
10.0 - 10.9	397	299	489	422	252	138	81	107	217	306	390	377	3475
11.0 - 11.9	298	240	346	300	98	34	26	58	130	154	191	238	2113
12.0 - 12.9	246	205	309	224	69	26	1	49	140	120	71	172	1632
13.0 - 13.9	141	83	118	52	25	12	3	35	131	66	47	123	836
14.0 - 14.9	76	41	62	17	7	.	.	27	101	29	38	74	472
15.0 - 15.9	26	18	18	7	9	.	.	24	96	13	20	5	236
16.0 - 16.9	14	1	2	.	.	.	.	26	64	6	4	1	118
17.0 - 17.9	4	.	.	.	.	.	.	12	44	17	1	.	78
18.0 - 18.9	3	8	.	.	.	.	.	11	26	1	4	3	56
19.0 - 19.9	.	.	3	.	.	.	.	9	13	3	.	1	29
20.0 - LONGER	.	.	2	.	.	.	.	6	16	.	.	.	24
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 79

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	108	188	103	77	39	49	35	65	70	78	103	97	1012
11.25 - 33.74 (22.5)	39	71	52	27	35	24	15	47	45	50	44	40	489
33.75 - 56.24 (45.0)	49	58	50	54	57	31	7	40	49	91	39	48	543
56.25 - 78.74 (67.5)	96	105	159	104	118	65	9	62	110	198	183	88	1297
78.75 - 101.24 (90.0)	258	227	292	293	423	267	38	251	446	350	252	256	3353
101.25 - 123.74 (112.5)	364	328	469	549	517	249	272	590	643	784	508	332	5605
123.75 - 146.24 (135.0)	607	513	609	698	723	541	620	811	1006	816	678	586	8208
146.25 - 168.74 (157.5)	485	420	522	659	579	493	428	611	412	449	302	344	5704
168.75 - 191.24 (180.0)	684	544	881	820	999	1215	1520	856	698	405	630	626	9878
191.25 - 213.74 (202.5)	291	310	386	306	443	607	593	505	294	313	337	460	4845
213.75 - 236.24 (225.0)	208	208	175	146	191	297	383	273	203	232	252	341	2909
236.25 - 258.74 (247.5)	97	129	71	57	53	129	137	108	77	141	116	142	1257
258.75 - 281.24 (270.0)	206	131	119	111	73	126	122	63	77	136	210	213	1587
281.25 - 303.74 (292.5)	381	222	223	171	57	99	131	62	74	202	254	317	2193
303.75 - 326.24 (315.0)	356	341	221	147	86	88	90	68	64	136	252	397	2246
326.25 - 348.74 (337.5)	235	277	132	131	71	40	64	52	52	83	160	177	1474
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.25 W, DEPTH: 38 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 79 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	877										877
1.00 - 1.99	637	287									924
2.00 - 2.99		130									130
3.00 - 3.99		12	2								14
4.00 - 4.99			1								1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1514	429	3	0	0	0	0	0	0	0	1946

STATION: 79 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	293	63		7	1						364
1.00 - 1.99	177	441	22								640
2.00 - 2.99		85	130								215
3.00 - 3.99		1	17	4							22
4.00 - 4.99			2	10							12
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	470	590	171	21	1	0	0	0	0	0	1253

STATION: 79 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	267	269	1087	609	139	42	7	17	6		2443
1.00 - 1.99	84	975	884	192	65	20					2220
2.00 - 2.99		174	547	51	15	21	6				814
3.00 - 3.99			160	62	8	9	4				243
4.00 - 4.99			18	62	5	2					87
5.00 - 5.99				20	9	1					30
6.00 - 6.99				2	4	4					10
7.00 - 7.99				1		2					3
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	351	1418	2696	999	245	101	17	17	6	0	5850

STATION: 79 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	260	651	2747	2164	785	185	41	25	7	1	6866
1.00 - 1.99	76	744	1677	1577	951	480	129	39	12		5685
2.00 - 2.99		110	451	416	370	123	74	14	2		1560
3.00 - 3.99			107	172	122	60	16	12	4		493
4.00 - 4.99			18	74	69	31	2	7	3		204
5.00 - 5.99				38	37	15	4	1	4		99
6.00 - 6.99				4	24	15	2				45
7.00 - 7.99					6	9					15
8.00 - 8.99					2	6					8
9.00 - GREATER											0
TOTAL	336	1505	5000	4445	2366	924	268	98	32	1	14975

STATION: 79 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	595	1960	2642	533	62	7	10	3	2	1	5815
1.00 - 1.99	127	1695	2781	1510	358	66	23	8	5		6573
2.00 - 2.99		160	824	776	424	95	25	4	1		2309
3.00 - 3.99			177	243	151	52	5	2	5		639
4.00 - 4.99			15	81	70	30	3	2			201
5.00 - 5.99				30	37	12	1				80
6.00 - 6.99				3	19	9					31
7.00 - 7.99					6	5	1				12
8.00 - 8.99					1	2	1				4
9.00 - GREATER						1					1
TOTAL	722	3815	6439	3176	1128	283	69	19	13	1	15665

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.25 W, DEPTH: 38 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 79 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	843	628	43	.	.	.	.	.	.	.	1514
1.00 - 1.99	172	2087	496	.	.	.	.	.	.	.	2755
2.00 - 2.99	.	198	720	30	.	.	.	.	.	.	948
3.00 - 3.99	.	.	138	108	.	.	.	.	.	.	246
4.00 - 4.99	.	.	7	48	3	.	.	.	.	.	58
5.00 - 5.99	.	.	.	11	1	.	.	.	.	.	12
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1015	2913	1404	197	5	0	0	0	0	0	5534

STATION: 79 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	916	13	.	.	.	.	.	.	.	.	929
1.00 - 1.99	1002	895	1	.	.	.	.	.	.	.	1898
2.00 - 2.99	.	223	40	.	.	.	.	.	.	.	263
3.00 - 3.99	.	36	6	3	.	.	.	.	.	.	45
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1918	1167	48	3	0	0	0	0	0	0	3136

STATION: 79 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1033	.	.	.	.	.	.	.	.	.	1033
1.00 - 1.99	1365	1116	1	.	.	.	.	.	.	.	2482
2.00 - 2.99	.	656	1	.	.	.	.	.	.	.	657
3.00 - 3.99	.	52	17	.	.	.	.	.	.	.	69
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2398	1824	19	0	0	0	0	0	0	0	4241

STATION: 79 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5084	3584	6519	3313	987	234	58	45	15	2	19841
1.00 - 1.99	3640	8240	5862	3279	1374	566	152	47	17	.	23177
2.00 - 2.99	.	1736	2713	1273	809	239	105	18	3	.	6896
3.00 - 3.99	.	101	624	592	281	125	25	14	9	.	1771
4.00 - 4.99	.	.	62	275	147	63	5	9	3	.	564
5.00 - 5.99	.	.	.	99	84	28	5	1	4	.	221
6.00 - 6.99	.	.	.	9	48	28	2	.	.	.	87
7.00 - 7.99	.	.	.	1	12	16	1	.	.	.	30
8.00 - 8.99	.	.	.	.	3	8	1	.	.	.	12
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	8724	13661	15780	8841	3745	1308	354	134	51	2	52600

STATION: 79

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	88	59	101	218	336	356	556	659	529	268	117	69	3356
2.50 - 4.99	798	736	930	1136	1727	1847	2275	2211	1786	1324	933	817	16520
5.00 - 7.49	727	740	787	944	1040	1109	1012	997	958	975	841	839	10969
7.50 - 9.99	1143	1089	1213	1110	963	846	526	479	792	1207	1216	1175	11759
10.00 - 12.49	609	574	607	467	264	112	76	86	173	360	540	651	4519
12.50 - 14.99	619	521	487	324	108	42	16	22	74	241	480	531	3465
15.00 - 17.49	225	154	161	78	21	8	3	3	4	52	103	173	985
17.50 - 19.99	173	128	122	41	5	.	.	4	2	30	67	137	709
20.00 - GREATER	82	71	56	2	.	.	.	3	2	7	23	72	318
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.25 W, DEPTH: 38 M

STATION: 79

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION	WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	552	687	755	513	409	424	342	483	558	480	478	551	6232
22.50 - 67.49	(45.0)	358	385	387	404	481	229	250	380	551	609	393	262	4689
67.50 - 112.49	(90.0)	260	259	362	327	340	212	218	343	385	329	335	261	3631
112.50 - 157.49	(135.0)	250	259	291	482	400	232	370	316	334	343	270	233	3780
157.50 - 202.49	(180.0)	324	243	498	507	640	612	564	564	495	494	442	378	5761
202.50 - 247.49	(225.0)	501	521	591	596	856	1126	1202	1093	787	632	614	622	9141
247.50 - 292.49	(270.0)	914	596	578	629	711	830	864	676	617	765	835	882	8897
292.50 - 337.49	(315.0)	1305	1122	1002	862	627	655	654	609	593	812	953	1275	10469
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 79

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.83	2.09	1.93	1.30	1.67	1.27	0.95	1.26	0.97	1.70	1.62	1.70	1.52
1977	1.84	1.73	1.81	1.54	0.87	1.10	0.87	0.89	1.09	1.61	2.11	2.13	1.46
1978	2.49	1.25	1.79	1.58	1.79	1.17	0.99	0.88	1.18	1.29	1.52	1.74	1.48
1979	2.28	2.01	1.99	1.62	1.47	0.85	0.91	0.97	1.42	1.35	1.53	1.88	1.52
1980	2.07	1.42	2.31	1.85	1.06	1.08	1.08	1.12	1.21	1.53	1.71	1.86	1.53
1981	1.46	2.64	1.83	2.05	1.59	1.00	1.03	0.79	1.41	1.30	1.57	1.57	1.51
1982	1.81	1.48	1.13	1.62	0.86	1.17	0.61	0.69	1.00	1.05	1.34	1.20	1.16
1983	1.38	1.52	1.71	1.47	1.48	1.00	0.80	0.74	0.95	1.50	1.53	2.07	1.35
1984	1.37	1.88	2.01	1.53	1.52	1.15	1.17	0.66	0.84	1.23	1.51	1.38	1.35
1985	1.51	1.83	1.56	1.42	1.23	1.02	0.89	0.74	1.07	0.90	1.79	1.45	1.28
1986	2.03	1.33	1.89	1.55	1.22	1.24	0.78	0.92	1.14	1.13	1.34	1.81	1.37
1987	1.65	1.33	1.63	1.83	1.06	0.87	0.65	0.79	0.95	1.18	1.42	1.26	1.22
1988	1.27	1.61	1.30	1.25	1.13	1.04	1.08	0.93	0.98	1.24	1.43	1.22	1.20
1989	1.38	1.38	1.65	1.30	1.43	0.92	0.81	1.05	1.70	1.15	1.78	1.24	1.31
1990	1.39	1.69	1.38	1.51	1.30	1.31	1.11	1.06	1.17	1.48	1.20	1.53	1.34
1991	1.41	1.27	1.72	1.23	0.90	0.83	0.86	1.07	1.23	1.37	1.31	1.36	1.21
1992	1.60	1.36	1.69	0.98	1.07	0.92	0.72	0.82	0.99	0.93	1.16	1.60	1.15
1993	1.66	1.66	1.64	1.88	1.11	0.94	0.78	0.83	1.20	1.32	1.63	1.49	1.34
MEAN	1.69	1.64	1.72	1.53	1.26	1.05	0.89	0.90	1.14	1.29	1.53	1.58	

STATION: 79

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	51 921	561020	571119	29 813	541020	35 921	211018	65 915	221513	471015	37 920	40 921	65 915
1977	611114	661114	45 813	491014	26 822	34 910	39 920	24 821	401010	46 915	691312	6713 9	691312
1978	761218	591110	561012	5710 8	591214	37 919	33 812	34 819	361318	34 821	521015	501019	761218
1979	811314	531114	671116	511216	351017	18 716	21 716	27 8 9	43 917	551020	541018	451021	811314
1980	661312	43 8 8	681116	541116	33 819	25 722	21 622	331918	251614	871315	50 914	5310 8	871315
1981	41 921	901417	681220	641219	33 916	36 820	30 818	21 711	311515	31 811	40 8 7	411217	901417
1982	641220	36 918	27 628	521018	23 722	371014	15 624	23 719	241213	621111	381020	26 722	641220
1983	341111	541010	581112	40 914	441119	26 718	22 532	20 6 5	29 819	501021	41 914	771313	771313
1984	43 9 9	551013	851312	591116	481020	28 815	33 919	13 4 0	201314	521315	38 921	33 814	851312
1985	35 634	711214	50 918	581218	31 821	35 919	31 920	15 612	881216	24 710	701313	40 921	881216
1986	521013	43 8 8	701219	481010	29 7 6	42 921	20 623	45 812	481021	27 7 8	41 914	871314	871314
1987	531011	44 9 7	781417	571013	23 7 9	19 621	16 523	20 622	34 8 8	26 720	30 811	34 8 8	781417
1988	32 811	48 912	30 917	31 821	24 710	26 721	31 919	24 822	231414	40 811	38 821	37 921	48 912
1989	31 7 8	46 9 7	471012	37 819	39 817	19 816	24 623	341214	552015	43 9 9	511117	251019	552015
1990	37 918	461019	391019	351018	40 917	35 919	30 822	34 8 9	211413	301016	27 920	481015	481015
1991	42 812	25 821	35 8 9	28 7 8	21 623	23 722	19 917	781316	471815	311015	271017	331218	781316
1992	521414	28 9 9	421013	25 718	21 816	23 813	18 620	21 718	28 810	21 7 8	31 719	691213	691213
1993	551118	5610 9	661417	511017	22 721	21 717	20 619	221316	381318	4610 9	671215	411016	671215
MAX	811314	901417	851312	641219	591214	42 921	39 920	781316	881216	871315	701313	871314	

MAX Hmo(m): 9.0 MAX Tp(sec): 14. MAX Dp(deg): 173. DATE(gmt): 81021118

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 185. DATE(gmt): 85092718

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.00 W, DEPTH: 38 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 80

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	104	115	141	172	129	169	360	533	389	263	187	183	2745
0.50 - 0.99	867	792	820	1080	1355	1806	2414	2231	1576	1272	871	899	15983
1.00 - 1.49	1113	1077	1043	1067	1559	1481	1143	1196	1222	1333	1085	1127	14446
1.50 - 1.99	848	852	908	798	793	602	389	301	616	804	896	846	8653
2.00 - 2.49	620	556	620	544	336	172	99	128	324	375	659	652	5085
2.50 - 2.99	351	271	369	307	140	55	37	36	95	232	343	330	2566
3.00 - 3.49	217	144	225	133	81	19	19	20	41	94	154	218	1365
3.50 - 3.99	149	86	137	81	37	15	2	6	30	32	60	91	726
4.00 - 4.49	76	68	66	55	17	1	1	4	12	25	22	51	398
4.50 - 4.99	45	52	47	39	5	.	.	2	7	19	12	23	251
5.00 - 5.49	26	21	31	28	5	.	.	2	4	5	10	14	146
5.50 - 5.99	16	19	24	13	6	.	.	.	1	4	4	6	93
6.00 - 6.49	10	4	11	3	1	.	.	1	.	.	8	7	45
6.50 - 6.99	11	6	14	.	.	.	.	2	2	1	7	10	53
7.00 - 7.49	5	3	4	.	.	.	.	1	.	2	2	4	21
7.50 - 7.99	5	2	.	.	.	.	.	.	.	1	.	1	9
8.00 - 8.49	1	2	3	.	.	.	.	1	.	1	.	1	9
8.50 - 8.99	.	1	1	.	.	.	.	.	1	1	.	1	5
9.00 - 9.49	.	1	.	.	.	.	.	.	.	.	.	.	1
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 80

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	113	112	95	85	60	60	151	179	135	118	100	145	1353
4.0 - 4.9	595	590	512	491	356	450	593	513	418	515	500	624	6157
5.0 - 5.9	826	806	590	459	481	652	621	661	478	657	777	830	7838
6.0 - 6.9	601	501	416	444	630	844	855	849	629	693	629	570	7661
7.0 - 7.9	427	369	522	585	1002	921	1111	1051	751	608	547	430	8324
8.0 - 8.9	362	409	540	647	983	810	736	628	593	643	527	504	7382
9.0 - 9.9	417	425	496	636	529	395	287	228	370	569	499	437	5288
10.0 - 10.9	375	295	464	407	241	117	86	102	220	281	384	370	3342
11.0 - 11.9	275	232	339	291	83	37	19	56	127	138	176	206	1979
12.0 - 12.9	232	189	297	211	64	23	2	52	142	112	66	154	1544
13.0 - 13.9	134	77	116	43	22	11	3	43	114	72	52	121	808
14.0 - 14.9	72	41	56	14	6	.	.	25	94	20	32	63	423
15.0 - 15.9	19	17	14	7	7	.	.	23	91	12	20	4	214
16.0 - 16.9	12	1	1	.	.	.	.	23	65	6	4	1	113
17.0 - 17.9	3	.	.	.	.	.	.	11	38	17	3	.	72
18.0 - 18.9	1	8	.	.	.	.	.	9	26	3	4	5	56
19.0 - 19.9	.	.	2	.	.	.	.	5	13	.	.	.	20
20.0 - LONGER	.	.	4	.	.	.	.	6	16	.	.	.	26
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 80

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	104	173	93	75	38	43	31	63	74	79	95	87	955
11.25 - 33.74 (22.5)	39	102	63	32	59	34	16	45	45	70	50	57	612
33.75 - 56.24 (45.0)	114	112	121	60	95	54	17	61	111	169	115	67	1096
56.25 - 78.74 (67.5)	104	115	163	136	134	67	10	88	103	188	167	108	1383
78.75 - 101.24 (90.0)	223	198	253	264	386	226	39	226	449	314	222	229	3029
101.25 - 123.74 (112.5)	347	301	449	519	492	240	253	547	627	736	493	313	5317
123.75 - 146.24 (135.0)	547	462	557	639	678	528	565	765	933	750	614	534	7572
146.25 - 168.74 (157.5)	441	397	463	624	509	468	404	626	415	419	284	324	5374
168.75 - 191.24 (180.0)	643	520	858	826	1001	1104	1391	793	642	400	596	532	9306
191.25 - 213.74 (202.5)	271	338	444	358	492	724	772	582	318	327	338	498	5462
213.75 - 236.24 (225.0)	215	210	176	157	209	348	404	296	227	245	277	338	3102
236.25 - 258.74 (247.5)	130	144	89	67	77	135	157	127	103	162	141	194	1526
258.75 - 281.24 (270.0)	332	173	157	130	97	148	147	70	93	200	288	311	2146
281.25 - 303.74 (292.5)	374	228	238	178	54	88	118	65	66	197	238	321	2165
303.75 - 326.24 (315.0)	360	339	211	141	92	85	83	63	64	125	256	382	2201
326.25 - 348.74 (337.5)	220	260	129	114	51	28	57	47	50	83	146	169	1354
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.00 W, DEPTH: 38 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 80 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	763										763
1.00 - 1.99	633	237									870
2.00 - 2.99		139									139
3.00 - 3.99		15	1								16
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1396	391	1	0	0	0	0	0	0	0	1788

STATION: 80 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	280	77	6	31	8						402
1.00 - 1.99	107	706	8	1	2	1					825
2.00 - 2.99		437	150								587
3.00 - 3.99		1	166	6							173
4.00 - 4.99			41	10	1						52
5.00 - 5.99			3	9							12
6.00 - 6.99				1							1
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	387	1221	374	58	11	1	0	0	0	0	2052

STATION: 80 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	230	264	1051	620	127	42	8	25	6		2373
1.00 - 1.99	64	859	866	206	74	17					2086
2.00 - 2.99		171	423	65	11	26	3				699
3.00 - 3.99			163	56	4	4					227
4.00 - 4.99			12	56	8	3					79
5.00 - 5.99				19	8	1					28
6.00 - 6.99				1	6	6					13
7.00 - 7.99				1	1						2
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	294	1294	2515	1024	239	99	11	25	6	0	5507

STATION: 80 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	260	608	2514	1910	696	176	41	19	6	1	6231
1.00 - 1.99	74	724	1654	1451	897	434	124	41	12		5411
2.00 - 2.99		102	421	379	335	113	78	13	2		1443
3.00 - 3.99			102	168	110	55	17	9	6		467
4.00 - 4.99			19	68	74	29	2	5	3		200
5.00 - 5.99				39	34	14	2	1	3		93
6.00 - 6.99				6	19	15	3	1			44
7.00 - 7.99					8	9	1				18
8.00 - 8.99					3	4					7
9.00 - GREATER											0
TOTAL	334	1434	4710	4021	2176	849	268	89	32	1	13914

STATION: 80 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	556	1863	2515	485	56	6	6	3	1		5491
1.00 - 1.99	119	1662	2881	1480	299	54	14	5	5		6519
2.00 - 2.99		157	826	868	398	93	17	2	1		2362
3.00 - 3.99			167	290	187	53	5	2			704
4.00 - 4.99			15	78	83	38	2	2			218
5.00 - 5.99				29	36	17	1				83
6.00 - 6.99				3	21	12	1				37
7.00 - 7.99					5	4	1				10
8.00 - 8.99					2	4	1				7
9.00 - GREATER						1					1
TOTAL	675	3682	6404	3233	1087	282	48	14	7	0	15432

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N LONG: 72.00 W DEPTH: 38 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 80 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	809	740	65	.	.	.	.	.	.	.	1614
1.00 - 1.99	123	2285	493	1	.	.	.	.	.	.	2902
2.00 - 2.99	.	223	824	34	.	.	.	.	.	.	1081
3.00 - 3.99	.	.	146	167	.	.	.	.	.	.	313
4.00 - 4.99	.	.	12	71	3	.	.	.	.	.	86
5.00 - 5.99	.	.	.	16	4	.	.	.	.	.	20
6.00 - 6.99	.	.	.	.	3	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	932	3248	1540	289	10	0	0	0	0	0	6019

STATION: 80 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	890	14	.	.	.	.	.	.	.	.	904
1.00 - 1.99	365	1784	4	.	.	.	.	.	.	.	2153
2.00 - 2.99	.	595	53	.	.	.	.	.	.	.	648
3.00 - 3.99	.	39	70	5	.	.	.	.	.	.	114
4.00 - 4.99	.	.	13	.	.	.	.	.	.	.	13
5.00 - 5.99	.	.	3	.	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1255	2432	143	5	0	0	0	0	0	0	3835

STATION: 80 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	949	1	.	.	.	.	.	.	.	.	950
1.00 - 1.99	1288	1045	.	.	.	.	.	.	.	.	2333
2.00 - 2.99	.	692	.	.	.	.	.	.	.	.	692
3.00 - 3.99	.	59	18	.	.	.	.	.	.	.	77
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2237	1797	19	0	0	0	0	0	0	0	4053

STATION: 80 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4737	3567	6151	3046	887	224	55	47	13	1	18728
1.00 - 1.99	2773	9302	5906	3139	1272	506	138	46	17	.	23099
2.00 - 2.99	.	2516	2697	1346	744	232	98	15	3	.	7651
3.00 - 3.99	.	114	833	692	301	112	22	11	6	.	2091
4.00 - 4.99	.	.	113	283	169	70	4	7	3	.	649
5.00 - 5.99	.	.	6	112	82	32	3	1	3	.	239
6.00 - 6.99	.	.	.	11	49	33	4	1	.	.	98
7.00 - 7.99	.	.	.	1	14	13	2	.	.	.	30
8.00 - 8.99	.	.	.	.	5	8	1	.	.	.	14
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	7510	15499	15706	8630	3523	1231	327	128	45	1	52600

STATION: 80

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	89	59	105	213	334	349	553	654	523	269	118	66	3332
2.50 - 4.99	793	727	921	1124	1701	1826	2264	2198	1784	1314	925	796	16373
5.00 - 7.49	715	710	776	938	1062	1111	1017	1006	947	956	817	842	10897
7.50 - 9.99	1134	1096	1203	1121	972	865	534	488	797	1220	1233	1168	11831
10.00 - 12.49	598	585	612	473	266	118	75	84	184	365	543	652	4555
12.50 - 14.99	642	514	496	327	100	44	18	24	77	251	478	542	3513
15.00 - 17.49	219	179	169	78	21	7	3	4	4	50	107	178	1019
17.50 - 19.99	188	126	124	42	8	.	.	3	2	32	72	146	743
20.00 - GREATER	86	76	58	4	.	.	.	.	2	7	27	74	337
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 40.75 N, LONG: 72.00 W, DEPTH: 38 M

STATION: 80

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	568	698	740	522	409	423	333	484	569	487	479	553	6265
22.50 - 67.49 (45.0)	359	374	394	408	481	238	254	378	552	615	399	274	4726
67.50 - 112.49 (90.0)	257	261	359	325	347	207	216	346	391	332	332	253	3626
112.50 - 157.49 (135.0)	246	257	290	468	393	234	361	319	321	331	272	235	3727
157.50 - 202.49 (180.0)	325	243	496	517	637	614	574	564	488	507	437	371	5773
202.50 - 247.49 (225.0)	495	515	582	589	877	1124	1221	1101	787	617	607	607	9122
247.50 - 292.49 (270.0)	901	592	587	628	702	840	860	673	617	766	830	883	8879
292.50 - 337.49 (315.0)	1313	1132	1016	863	618	640	645	599	595	809	964	1288	10482
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 80

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.90	2.20	1.98	1.36	1.74	1.32	1.00	1.29	1.00	1.79	1.74	1.76	1.59
1977	1.96	1.81	1.88	1.60	0.92	1.14	0.91	0.93	1.12	1.69	2.16	2.20	1.52
1978	2.62	1.29	1.86	1.64	1.82	1.19	1.04	0.91	1.22	1.35	1.58	1.83	1.53
1979	2.35	2.07	2.02	1.65	1.51	0.89	0.94	1.00	1.44	1.43	1.59	1.96	1.57
1980	2.22	1.50	2.45	1.89	1.10	1.16	1.13	1.11	1.24	1.62	1.79	1.92	1.60
1981	1.53	2.67	1.94	2.13	1.67	1.04	1.07	0.81	1.44	1.38	1.69	1.66	1.58
1982	1.94	1.57	1.18	1.70	0.89	1.22	0.65	0.72	1.05	1.10	1.39	1.25	1.22
1983	1.44	1.60	1.77	1.51	1.52	1.04	0.83	0.78	0.98	1.57	1.60	2.15	1.40
1984	1.42	1.92	2.10	1.57	1.59	1.20	1.23	0.68	0.86	1.30	1.55	1.44	1.40
1985	1.61	1.88	1.64	1.46	1.29	1.09	0.92	0.76	1.11	0.93	1.82	1.52	1.33
1986	2.14	1.38	1.94	1.63	1.30	1.30	0.81	0.96	1.15	1.20	1.38	1.88	1.42
1987	1.74	1.40	1.76	1.89	1.10	0.89	0.67	0.80	0.97	1.21	1.48	1.33	1.27
1988	1.32	1.68	1.34	1.31	1.17	1.09	1.12	0.96	0.96	1.30	1.49	1.29	1.25
1989	1.43	1.46	1.72	1.34	1.47	0.95	0.84	1.06	1.71	1.20	1.86	1.33	1.36
1990	1.47	1.77	1.42	1.54	1.34	1.36	1.15	1.09	1.20	1.52	1.26	1.59	1.39
1991	1.47	1.33	1.77	1.26	0.94	0.88	0.89	1.11	1.25	1.42	1.40	1.44	1.26
1992	1.64	1.41	1.76	1.01	1.11	0.95	0.76	0.85	1.02	0.99	1.20	1.70	1.20
1993	1.76	1.77	1.71	1.96	1.15	0.98	0.80	0.86	1.24	1.37	1.69	1.58	1.40
MEAN	1.78	1.71	1.79	1.58	1.31	1.09	0.93	0.93	1.16	1.35	1.59	1.66	

STATION: 80

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	50 921	571020	571119	30 714	551021	35 921	221018	681418	211614	481015	37 921	39 921	681418
1977	611014	641114	45 913	491014	26 822	39 8 8	40 920	24 822	401010	46 915	701312	6913 8	701312
1978	771218	591110	551112	5810 9	601118	37 920	34 812	35 819	361218	34 822	521013	511020	771218
1979	811314	571214	661116	521216	351017	19 6 4	21 716	26 8 9	43 917	551021	541018	451021	811314
1980	781312	49 9 6	681116	551116	33 820	27 722	21 723	27 6 5	251614	881315	511015	5410 8	881315
1981	42 921	911418	691220	631220	35 7 3	36 921	30 718	21 712	311515	31 811	44 8 5	431217	911418
1982	661221	37 918	31 727	531018	22 722	391014	15 526	23 819	25 6 5	5910 8	381020	26 722	661221
1983	39 8 7	5710 8	581112	40 914	461119	27 719	23 532	24 6 3	29 819	521022	451019	761313	761313
1984	42 9 8	551014	851312	581115	48 921	28 815	33 920	13 4 0	23 6 6	511416	38 922	33 814	851312
1985	37 728	711214	491018	591219	32 922	36 920	32 921	19 6 6	861216	24 710	701212	40 921	861216
1986	521013	43 9 9	691220	5211 9	35 7 5	42 921	20 623	44 813	491021	30 7 4	45 8 4	861314	861314
1987	53 9 7	55 9 3	811417	581013	24 7 9	19 621	17 523	20 622	35 8 8	24 711	36 8 5	39 8 6	811417
1988	36 810	491012	32 917	31 821	23 710	26 721	32 919	25 822	241414	39 811	40 921	36 921	491012
1989	33 635	52 9 5	461012	37 819	38 817	20 816	24 623	341214	532014	43 9 9	521017	26 920	532014
1990	42 921	471019	391019	371019	40 918	35 919	30 822	34 8 8	22 6 4	36 8 7	32 921	481015	481015
1991	41 912	25 821	371317	31 7 6	22 717	24 6 4	20 917	801316	451714	35 7 4	31 7 4	37 728	801316
1992	521414	29 9 9	441013	25 718	22 6 6	23 813	18 520	22 719	28 8 9	25 7 7	31 719	691213	691213
1993	561118	5710 9	711418	521017	22 721	22 717	20 619	211318	361318	471010	671215	461017	711418
MAX	811314	911418	851312	631220	601118	42 921	40 920	801316	861216	881315	701212	861314	

MAX Hmo(m): 9.1 MAX Tp(sec): 14. MAX Dp(deg): 176. DATE(gmt): 81021118

MAX WIND SPEED(m/sec): 30. MAX WIND DIRECTION(deg): 300. DATE(gmt): 81031712

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.75 W, DEPTH: 36 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 81

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	138	145	179	222	174	238	480	654	454	314	205	231	3434
0.50 - 0.99	1034	929	940	1163	1574	2021	2545	2308	1684	1487	1057	1062	17804
1.00 - 1.49	1238	1149	1121	1103	1504	1389	1016	1074	1179	1342	1216	1266	14597
1.50 - 1.99	841	801	877	817	705	453	294	282	615	735	888	800	8108
2.00 - 2.49	539	485	572	485	267	143	82	94	235	309	538	491	4240
2.50 - 2.99	268	235	334	234	123	44	32	19	70	147	223	301	2030
3.00 - 3.49	160	101	183	118	64	17	12	19	41	63	101	167	1046
3.50 - 3.99	89	80	95	61	22	14	3	4	21	30	40	64	523
4.00 - 4.49	68	62	59	44	14	1	.	3	11	20	14	28	324
4.50 - 4.99	28	41	39	31	7	.	.	2	5	8	9	16	186
5.00 - 5.49	15	15	19	31	5	.	.	1	2	3	11	11	113
5.50 - 5.99	16	10	14	8	4	.	.	1	.	.	6	10	69
6.00 - 6.49	13	5	14	3	1	.	.	2	2	1	6	6	53
6.50 - 6.99	8	6	8	.	.	.	.	.	.	2	5	6	35
7.00 - 7.49	3	3	6	.	.	.	.	.	.	1	1	4	18
7.50 - 7.99	6	2	3	.	.	.	.	1	.	1	.	.	13
8.00 - 8.49	.	2	1	.	.	.	.	.	1	1	.	1	6
8.50 - 8.99	.	1	.	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 81

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	206	184	140	152	116	145	278	252	203	201	182	220	2279
4.0 - 4.9	696	645	513	492	359	424	472	456	372	561	590	706	6286
5.0 - 5.9	664	707	512	394	448	514	524	631	476	553	688	615	6726
6.0 - 6.9	441	415	407	419	583	786	854	774	548	598	456	466	6747
7.0 - 7.9	357	344	428	526	908	942	1138	1096	764	560	448	396	7907
8.0 - 8.9	357	370	513	570	989	786	766	626	588	608	547	478	7198
9.0 - 9.9	440	410	480	713	580	468	309	246	398	573	566	458	5641
10.0 - 10.9	432	331	492	388	255	174	90	110	236	364	438	408	3718
11.0 - 11.9	319	249	379	324	101	39	30	78	126	152	191	255	2243
12.0 - 12.9	256	214	324	238	72	29	2	55	154	146	80	205	1775
13.0 - 13.9	157	103	142	70	33	13	1	46	113	80	50	153	961
14.0 - 14.9	91	53	88	25	10	.	.	21	96	24	39	86	533
15.0 - 15.9	24	26	25	9	10	.	.	21	87	23	27	5	257
16.0 - 16.9	13	5	1	.	.	.	.	22	60	12	4	4	121
17.0 - 17.9	5	2	.	.	.	.	.	9	44	7	4	3	74
18.0 - 18.9	5	7	3	.	.	.	.	11	24	2	6	6	64
19.0 - 19.9	1	7	6	.	.	.	.	5	17	.	1	.	37
20.0 - LONGER	.	.	11	.	.	.	.	5	14	.	3	.	33
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 81

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	132	219	122	96	51	50	32	60	87	94	118	108	1169
11.25 - 33.74 (22.5)	49	97	80	49	61	42	15	64	51	79	53	65	705
33.75 - 56.24 (45.0)	79	106	120	61	111	50	15	40	108	176	120	75	1061
56.25 - 78.74 (67.5)	64	80	69	74	75	36	2	66	71	136	112	64	849
78.75 - 101.24 (90.0)	253	223	341	310	367	235	44	227	416	339	247	276	3278
101.25 - 123.74 (112.5)	446	348	540	580	589	290	287	554	704	783	583	420	6124
123.75 - 146.24 (135.0)	585	507	583	669	698	524	591	791	926	810	624	547	7855
146.25 - 168.74 (157.5)	503	467	535	688	583	521	456	674	494	473	334	384	6112
168.75 - 191.24 (180.0)	747	608	985	901	1101	1350	1640	961	734	501	758	763	11049
191.25 - 213.74 (202.5)	327	279	306	245	381	598	624	506	293	305	326	421	4611
213.75 - 236.24 (225.0)	168	179	138	121	159	268	290	237	154	216	229	249	2408
236.25 - 258.74 (247.5)	65	86	45	46	41	88	96	71	55	83	69	90	835
258.75 - 281.24 (270.0)	115	87	58	64	42	68	101	37	42	77	129	135	955
281.25 - 303.74 (292.5)	292	143	163	138	37	76	112	62	59	154	182	239	1657
303.75 - 326.24 (315.0)	348	313	233	147	83	79	80	58	74	143	242	409	2209
326.25 - 348.74 (337.5)	291	330	146	131	85	45	79	56	52	95	194	219	1723
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.75 W, DEPTH: 36 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 81 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	886										886
1.00 - 1.99	720	387									1107
2.00 - 2.99	.	216									216
3.00 - 3.99	.	21	2								23
4.00 - 4.99	.	.									0
5.00 - 5.99	.	.									0
6.00 - 6.99	.	.									0
7.00 - 7.99	.	.									0
8.00 - 8.99	.	.									0
9.00 - GREATER											0
TOTAL	1606	624	2	0	0	0	0	0	0	0	2232

STATION: 81 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	339	28									367
1.00 - 1.99	126	967	1								1094
2.00 - 2.99	.	358	24								382
3.00 - 3.99	.	5	61	1							67
4.00 - 4.99	.	.	24	1	1						26
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	465	1358	110	2	1	0	0	0	0	0	1936

STATION: 81 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	260	243	855	944	427	235	59	25	21	3	3072
1.00 - 1.99	66	806	647	321	153	76	16	7	4	.	2096
2.00 - 2.99	.	185	309	47	17	17	8	2		.	585
3.00 - 3.99	.	.	116	55	2	8	3	.	1	.	185
4.00 - 4.99	.	.	10	39	5	1	1	.	.	.	53
5.00 - 5.99	.	.	.	17	5	1	.	.	.	.	23
6.00 - 6.99	.	.	.	1	5	5	.	.	.	.	11
7.00 - 7.99	.	.	.	.	1	1	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER											0
TOTAL	326	1234	1937	1424	612	344	87	34	26	3	6027

STATION: 81 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	300	668	2759	1992	735	178	43	19	9	2	6705
1.00 - 1.99	70	790	1693	1547	954	489	130	52	15	.	5740
2.00 - 2.99	.	101	446	438	324	138	82	14	2	.	1545
3.00 - 3.99	.	.	115	154	112	46	14	12	7	.	460
4.00 - 4.99	.	.	20	78	70	38	3	3	5	.	217
5.00 - 5.99	.	.	.	33	34	16	1	2	.	.	86
6.00 - 6.99	.	.	.	6	26	9	2	1	.	.	44
7.00 - 7.99	.	.	.	.	8	8	.	.	.	.	16
8.00 - 8.99	.	.	.	.	1	3	.	.	.	.	4
9.00 - GREATER											0
TOTAL	370	1559	5033	4248	2264	925	275	103	38	2	14817

STATION: 81 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	636	2116	3121	639	80	7	.	.	.	.	6599
1.00 - 1.99	155	1779	2907	1811	404	33	4	.	.	.	7093
2.00 - 2.99	.	205	814	767	415	75	5	1	1	.	2283
3.00 - 3.99	.	.	184	242	133	57	3	.	.	.	619
4.00 - 4.99	.	.	16	102	50	29	2	.	.	.	199
5.00 - 5.99	.	.	.	27	33	8	.	.	.	.	68
6.00 - 6.99	.	.	.	5	18	10	.	.	.	.	33
7.00 - 7.99	.	.	.	.	8	4	1	.	.	.	13
8.00 - 8.99	.	.	.	.	.	2	1	.	.	.	3
9.00 - GREATER											0
TOTAL	791	4100	7042	3593	1141	225	16	1	1	0	16910

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.75 W, DEPTH: 36 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 81 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	787	588	111	.	.	.	.	.	.	.	1486
1.00 - 1.99	217	1830	309	14	.	.	.	.	.	.	2370
2.00 - 2.99	.	168	425	7	.	.	.	.	.	.	600
3.00 - 3.99	.	1	87	57	.	.	.	.	.	.	145
4.00 - 4.99	.	.	9	6	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	5	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1004	2587	941	89	0	0	0	0	0	0	4621

STATION: 81 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1156	5	.	.	.	.	.	.	.	.	1161
1.00 - 1.99	563	189	3	.	.	.	.	.	.	.	755
2.00 - 2.99	.	20	22	.	.	.	.	.	.	.	42
3.00 - 3.99	.	1	.	2	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1719	215	25	2	0	0	0	0	0	0	1961

STATION: 81 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	962	.	.	.	.	.	.	.	.	.	962
1.00 - 1.99	1322	1128	.	.	.	.	.	.	.	.	2450
2.00 - 2.99	.	616	1	.	.	.	.	.	.	.	617
3.00 - 3.99	.	52	14	1	.	.	.	.	.	.	67
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2284	1796	15	1	0	0	0	0	0	0	4096

STATION: 81 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5326	3648	6846	3575	1242	420	102	44	30	5	21238
1.00 - 1.99	3239	7876	5560	3693	1511	598	150	59	19	.	22705
2.00 - 2.99	.	1869	2041	1259	756	230	95	17	3	.	6270
3.00 - 3.99	.	80	579	512	247	111	20	12	8	.	1569
4.00 - 4.99	.	.	79	226	123	68	6	3	5	.	510
5.00 - 5.99	.	.	.	82	72	25	1	2	.	.	182
6.00 - 6.99	.	.	.	12	46	24	2	1	.	.	88
7.00 - 7.99	.	.	.	.	17	13	1	.	.	.	31
8.00 - 8.99	.	.	.	.	1	5	1	.	.	.	7
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8565	13473	15105	9359	4018	1494	378	138	65	5	52600

STATION: 81

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	80	55	92	189	314	311	499	621	483	241	95	59	3039
2.50 - 4.99	797	715	926	1164	1722	1868	2329	2248	1848	1335	931	795	16678
5.00 - 7.49	728	721	793	932	1084	1113	1031	1011	940	1001	843	861	11058
7.50 - 9.99	1149	1112	1217	1141	956	862	513	472	796	1206	1267	1193	11884
10.00 - 12.49	604	603	607	452	260	117	73	80	184	366	534	634	4514
12.50 - 14.99	629	503	488	322	98	42	16	24	63	237	448	537	3407
15.00 - 17.49	219	168	167	79	20	7	3	2	3	46	112	162	988
17.50 - 19.99	172	118	119	39	10	.	.	3	1	25	66	153	706
20.00 - GREATER	86	77	55	2	.	.	.	3	2	7	24	70	326
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.75 W, DEPTH: 36 M

STATION: 81

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION	WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	568	711	753	519	392	411	316	475	569	463	480	546	6203
22.50 - 67.49	(45.0)	354	367	388	416	474	234	243	361	539	614	392	270	4652
67.50 - 112.49	(90.0)	258	251	355	340	345	208	209	343	379	321	323	241	3573
112.50 - 157.49	(135.0)	249	258	281	458	389	227	357	319	325	349	279	250	3741
157.50 - 202.49	(180.0)	328	241	507	522	655	603	578	563	497	511	436	380	5821
202.50 - 247.49	(225.0)	505	524	570	581	883	1139	1245	1110	789	620	624	598	9188
247.50 - 292.49	(270.0)	915	606	603	646	702	868	870	698	639	789	835	902	9073
292.50 - 337.49	(315.0)	1287	1114	1007	838	624	630	646	595	583	797	951	1277	10349
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 81

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.80	2.00	1.88	1.28	1.66	1.25	0.92	1.24	0.93	1.61	1.48	1.66	1.48
1977	1.71	1.64	1.76	1.50	0.85	1.10	0.86	0.88	1.08	1.57	2.00	2.10	1.42
1978	2.38	1.26	1.77	1.54	1.76	1.15	0.98	0.88	1.13	1.27	1.50	1.66	1.44
1979	2.21	2.01	1.97	1.59	1.44	0.84	0.92	0.94	1.36	1.26	1.45	1.82	1.48
1980	2.06	1.38	2.27	1.84	1.04	1.06	1.05	1.01	1.18	1.47	1.66	1.78	1.49
1981	1.40	2.55	1.69	1.99	1.57	0.98	0.99	0.76	1.34	1.20	1.44	1.47	1.44
1982	1.63	1.38	1.06	1.53	0.82	1.13	0.59	0.67	0.98	1.00	1.24	1.13	1.09
1983	1.31	1.46	1.63	1.42	1.45	0.97	0.79	0.72	0.90	1.39	1.42	1.94	1.28
1984	1.32	1.80	1.98	1.51	1.46	1.12	1.15	0.65	0.80	1.21	1.44	1.29	1.31
1985	1.38	1.79	1.48	1.32	1.19	1.01	0.88	0.72	1.01	0.85	1.69	1.33	1.22
1986	1.94	1.27	1.82	1.55	1.17	1.18	0.75	0.88	1.09	1.08	1.31	1.72	1.32
1987	1.57	1.32	1.60	1.78	1.00	0.82	0.62	0.75	0.90	1.13	1.33	1.17	1.16
1988	1.19	1.55	1.25	1.19	1.12	1.00	1.04	0.90	0.89	1.16	1.35	1.15	1.15
1989	1.32	1.31	1.57	1.26	1.38	0.88	0.79	1.01	1.62	1.09	1.67	1.17	1.25
1990	1.30	1.67	1.32	1.46	1.25	1.29	1.08	1.03	1.10	1.45	1.16	1.48	1.30
1991	1.32	1.22	1.69	1.17	0.87	0.82	0.83	1.05	1.19	1.38	1.24	1.27	1.17
1992	1.50	1.33	1.65	0.95	1.03	0.91	0.70	0.81	0.95	0.90	1.12	1.55	1.12
1993	1.62	1.61	1.63	1.86	1.07	0.92	0.75	0.82	1.19	1.31	1.59	1.47	1.32
MEAN	1.61	1.59	1.67	1.49	1.23	1.02	0.87	0.87	1.09	1.24	1.45	1.51	

STATION: 81

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	50 920	561021	571119	31 813	541119	35 921	211017	621017	211513	481015	37 919	38 919	621017
1977	621113	661114	47 913	49 914	26 822	38 810	39 820	24 821	401010	47 915	701313	6813 9	701313
1978	791316	611110	541113	531012	601118	37 919	32 811	34 819	311218	34 821	531015	5010 19	791316
1979	791213	501114	661216	511216	341017	18 616	22 716	25 711	42 917	541019	521017	431020	791213
1980	761312	42 8 5	7212 9	531116	32 819	24 622	21 723	231110	251614	821315	501015	471010	821315
1981	41 920	881417	611020	621219	30 815	36 822	30 718	19 711	301515	29 812	35 7 5	391117	881417
1982	631318	381019	25 7 9	521018	22 722	391014	15 624	21 719	251313	511011	35 919	25 721	631318
1983	32 7 6	51 9 8	531011	38 813	421019	24 718	22 533	20 5 3	28 818	431012	39 814	721213	721213
1984	40 8 8	541014	841312	561116	46 920	29 815	32 919	13 4 1	20 6 7	461416	36 823	33 816	841312
1985	36 734	691214	491018	571118	34 920	36 919	31 919	17 5 2	821216	22 6 8	661212	38 919	821216
1986	531013	31 7 8	671120	5111 9	27 6 4	41 919	19 623	38 814	471020	25 6 3	40 814	801315	801315
1987	501010	48 8 3	791317	561114	20 6 5	19 620	17 621	19 621	32 8 9	24 711	30 7 5	34 7 5	791317
1988	34 811	48 912	32 917	28 720	22 711	25 721	29 820	23 722	221413	38 811	37 819	34 920	48 912
1989	31 635	45 8 5	44 911	34 819	37 817	19 816	23 623	331214	472014	39 912	501017	24 919	501017
1990	36 919	451019	371019	35 919	37 917	35 919	29 822	30 7 8	20 6 4	311016	271018	481015	481015
1991	38 913	25 821	341317	27 716	22 717	22 721	18 917	781215	411714	34 7 3	26 6 3	32 810	781215
1992	491414	29 910	441013	25 718	20 816	23 712	18 520	22 718	26 7 9	20 6 5	31 718	661213	661213
1993	551118	511010	721417	511017	21 622	23 717	20 618	211417	321318	431010	661316	481017	721417
MAX	791213	881417	841312	621219	601118	41 919	39 820	781215	821216	821315	701313	801315	

MAX Hmo(m): 8.8 MAX Tp(sec): 14. MAX Dp(deg): 169. DATE(gmt): 81021118

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 160. DATE(gmt): 85092718

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.50 W, DEPTH: 46 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 82

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	95	111	128	148	132	153	346	550	391	265	168	163	2650
0.50 - 0.99	837	701	752	1042	1333	1751	2363	2206	1541	1244	849	822	15441
1.00 - 1.49	1167	1101	1066	1074	1591	1573	1223	1212	1249	1421	1181	1265	15123
1.50 - 1.99	858	888	928	858	831	569	378	327	709	829	949	852	8976
2.00 - 2.49	645	549	661	575	291	186	101	112	261	370	652	600	5003
2.50 - 2.99	345	315	411	288	157	48	33	21	80	169	286	361	2514
3.00 - 3.49	210	144	202	132	62	23	17	21	46	81	133	215	1286
3.50 - 3.99	116	91	123	70	30	14	2	4	21	32	45	94	642
4.00 - 4.49	70	67	74	53	18	3	1	3	13	24	17	39	382
4.50 - 4.99	43	41	41	29	7	.	.	3	4	17	9	16	210
5.00 - 5.49	27	31	21	28	4	.	.	.	1	4	12	10	138
5.50 - 5.99	13	9	17	19	5	.	.	2	1	2	3	5	76
6.00 - 6.49	17	7	14	4	3	.	.	1	2	1	6	8	63
6.50 - 6.99	6	5	13	.	.	.	.	1	.	1	6	6	38
7.00 - 7.49	6	4	6	.	.	.	.	.	.	1	4	6	27
7.50 - 7.99	3	2	4	.	.	.	.	.	.	1	.	1	11
8.00 - 8.49	5	3	2	.	.	.	.	.	1	2	.	1	14
8.50 - 8.99	1	2	1	.	.	.	.	.	.	.	.	.	4
9.00 - 9.49	.	1	.	.	.	.	.	1	.	.	.	.	2
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 82

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	83	81	62	57	40	38	126	138	122	101	72	94	1014
4.0 - 4.9	636	577	472	452	401	523	617	551	461	594	585	691	6560
5.0 - 5.9	866	851	630	530	512	610	573	671	597	735	889	838	8302
6.0 - 6.9	552	512	526	442	620	789	873	808	522	653	518	521	7336
7.0 - 7.9	372	377	427	542	914	894	1104	1056	705	513	450	415	7769
8.0 - 8.9	347	356	518	561	966	768	759	626	564	601	513	473	7052
9.0 - 9.9	426	390	473	715	567	467	296	231	382	514	535	432	5428
10.0 - 10.9	387	314	459	385	243	149	83	111	243	344	409	378	3505
11.0 - 11.9	274	243	350	301	97	41	30	80	129	141	153	227	2066
12.0 - 12.9	241	192	311	233	64	26	2	58	153	142	72	171	1665
13.0 - 13.9	150	79	128	69	26	15	1	45	107	59	44	135	858
14.0 - 14.9	84	55	69	27	8	.	.	18	95	24	37	74	491
15.0 - 15.9	22	26	21	6	6	.	.	23	90	21	24	3	242
16.0 - 16.9	13	3	.	.	.	.	.	19	55	13	4	3	110
17.0 - 17.9	7	2	.	.	.	.	.	9	41	6	5	3	73
18.0 - 18.9	4	8	1	.	.	.	.	10	25	3	5	6	62
19.0 - 19.9	.	6	4	.	.	.	.	5	14	.	2	.	31
20.0 - LONGER	.	.	13	.	.	.	.	5	15	.	3	.	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 82

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	170	282	189	116	79	67	45	70	114	123	150	159	1564
11.25 - 33.74 (22.5)	88	137	133	78	93	82	18	73	93	120	73	111	1099
33.75 - 56.24 (45.0)	96	90	118	55	104	47	15	34	100	163	126	70	1018
56.25 - 78.74 (67.5)	70	77	65	81	65	32	3	68	77	125	118	57	838
78.75 - 101.24 (90.0)	232	200	308	327	355	207	42	219	411	348	228	257	3134
101.25 - 123.74 (112.5)	377	292	450	527	512	240	264	501	608	696	484	332	5283
123.75 - 146.24 (135.0)	504	431	522	589	672	488	480	728	820	685	586	451	6956
146.25 - 168.74 (157.5)	437	401	446	596	505	469	416	658	489	460	276	332	5485
168.75 - 191.24 (180.0)	670	525	856	845	951	1082	1348	806	648	424	617	578	9350
191.25 - 213.74 (202.5)	342	378	495	401	593	849	944	700	380	365	430	557	6434
213.75 - 236.24 (225.0)	235	215	175	149	203	331	384	269	221	241	269	319	3011
236.25 - 258.74 (247.5)	98	115	54	51	58	119	120	108	91	138	116	137	1205
258.75 - 281.24 (270.0)	193	124	113	100	67	113	126	55	73	129	196	224	1513
281.25 - 303.74 (292.5)	328	162	172	127	42	81	105	52	60	191	214	264	1798
303.75 - 326.24 (315.0)	371	345	230	146	91	73	82	59	68	147	257	424	2293
326.25 - 348.74 (337.5)	253	298	138	132	74	40	72	64	67	109	180	192	1619
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.50 W, DEPTH: 46 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 82 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	643	.	.	.	.	.	.	.	.	.	643
1.00 - 1.99	426	1137	.	.	.	.	.	.	.	.	1563
2.00 - 2.99	.	515	8	.	.	.	.	.	.	.	523
3.00 - 3.99	.	19	75	.	.	.	.	.	.	.	94
4.00 - 4.99	.	.	8	.	.	.	.	.	.	.	8
5.00 - 5.99	.	.	2	.	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1069	1671	93	0	0	0	0	0	0	0	2833

STATION: 82 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	286	17	.	.	.	.	.	.	.	.	303
1.00 - 1.99	81	1049	.	.	.	.	.	.	.	.	1130
2.00 - 2.99	.	431	16	.	.	.	.	.	.	.	447
3.00 - 3.99	.	5	73	2	.	.	.	.	.	.	80
4.00 - 4.99	.	.	27	.	.	.	.	.	.	.	27
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	367	1502	116	2	0	0	0	0	0	0	1987

STATION: 82 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	245	213	766	822	395	188	45	25	18	2	2719
1.00 - 1.99	48	781	603	351	141	70	21	7	8	.	2030
2.00 - 2.99	.	181	294	66	21	17	2	3	.	.	584
3.00 - 3.99	.	.	112	53	3	11	5	.	.	.	184
4.00 - 4.99	.	.	13	40	1	3	2	.	.	.	59
5.00 - 5.99	.	.	.	15	4	1	.	.	.	.	20
6.00 - 6.99	.	.	.	4	4	3	.	.	.	.	11
7.00 - 7.99	.	.	.	.	3	3	.	.	.	.	6
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	293	1175	1788	1351	572	296	75	35	26	2	5613

STATION: 82 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	272	604	2359	1621	566	125	28	14	6	.	5595
1.00 - 1.99	65	721	1586	1387	809	405	106	41	9	.	5129
2.00 - 2.99	.	96	446	409	308	105	65	10	2	.	1441
3.00 - 3.99	.	.	115	149	110	53	12	10	7	.	456
4.00 - 4.99	.	.	27	73	60	29	4	3	4	.	200
5.00 - 5.99	.	.	.	40	35	7	2	1	.	.	85
6.00 - 6.99	.	.	.	10	20	9	2	2	.	.	43
7.00 - 7.99	.	.	.	.	11	5	.	.	.	.	16
8.00 - 8.99	.	.	.	.	5	4	.	.	.	.	9
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	337	1421	4533	3689	1924	742	219	81	28	0	12974

STATION: 82 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	525	1899	2604	498	53	13	7	1	3	1	5604
1.00 - 1.99	133	1681	3060	1631	379	53	15	12	6	.	6970
2.00 - 2.99	.	171	831	991	422	85	24	3	1	.	2528
3.00 - 3.99	.	.	164	278	213	65	7	3	.	.	730
4.00 - 4.99	.	.	13	76	85	51	2	.	.	.	227
5.00 - 5.99	.	.	.	32	36	18	.	.	.	.	86
6.00 - 6.99	.	.	.	7	19	14	1	.	.	.	41
7.00 - 7.99	.	.	.	.	7	6	1	.	.	.	14
8.00 - 8.99	.	.	.	.	3	5	1	.	.	.	9
9.00 - GREATER	.	.	.	.	1	1	.	.	.	.	2
TOTAL	658	3751	6672	3513	1218	311	58	19	10	1	16211

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.50 W, DEPTH: 46 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 82 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	731	740	104	.	.	.	.	.	.	.	1575
1.00 - 1.99	172	2203	627	26	.	.	.	.	.	.	3028
2.00 - 2.99	.	195	694	132	1	.	.	.	.	.	1022
3.00 - 3.99	.	1	126	142	1	.	.	.	.	.	270
4.00 - 4.99	.	.	8	55	4	.	.	.	.	.	67
5.00 - 5.99	.	.	.	15	6	.	.	.	.	.	21
6.00 - 6.99	.	.	.	3	3	.	.	.	.	.	6
7.00 - 7.99	.	.	.	.	2	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	903	3139	1559	373	17	0	0	0	0	0	5991

STATION: 82 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	733	6	.	.	.	.	.	.	.	.	739
1.00 - 1.99	935	822	5	.	.	.	.	.	.	.	1762
2.00 - 2.99	.	259	30	.	.	.	.	.	.	.	289
3.00 - 3.99	.	25	6	4	.	.	.	.	.	.	35
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1668	1112	43	4	0	0	0	0	0	0	2827

STATION: 82 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	913	.	.	.	.	.	.	.	.	.	913
1.00 - 1.99	1366	1121	.	.	.	.	.	.	.	.	2487
2.00 - 2.99	.	681	2	.	.	.	.	.	.	.	683
3.00 - 3.99	.	65	13	1	.	.	.	.	.	.	79
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2279	1867	17	1	0	0	0	0	0	0	4164

STATION: 82 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4348	3479	5833	2941	1014	326	80	40	27	3	18091
1.00 - 1.99	3226	9515	5881	3395	1329	528	142	60	23	.	24099
2.00 - 2.99	.	2529	2321	1598	752	207	91	16	3	.	7517
3.00 - 3.99	.	115	684	629	327	129	24	13	7	.	1928
4.00 - 4.99	.	.	100	244	150	83	8	3	4	.	592
5.00 - 5.99	.	.	2	102	81	26	2	1	.	.	214
6.00 - 6.99	.	.	.	24	46	26	3	2	.	.	101
7.00 - 7.99	.	.	.	.	23	14	1	.	.	.	38
8.00 - 8.99	.	.	.	.	8	9	1	.	.	.	18
9.00 - GREATER	.	.	.	.	1	1	.	.	.	.	2
TOTAL	7574	15638	14821	8933	3731	1349	352	135	64	3	52600

STATION: 82

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	77	50	93	171	295	292	491	595	481	236	94	61	2936
2.50 - 4.99	794	701	926	1176	1730	1880	2333	2272	1841	1341	927	783	16704
5.00 - 7.49	708	726	769	929	1088	1119	1034	1030	947	973	834	859	11016
7.50 - 9.99	1167	1111	1230	1158	974	860	516	461	799	1227	1266	1196	11965
10.00 - 12.49	590	613	598	434	248	122	72	74	183	381	556	630	4501
12.50 - 14.99	651	514	507	330	99	44	15	24	63	230	452	546	3475
15.00 - 17.49	217	169	159	79	19	3	3	2	3	40	100	162	956
17.50 - 19.99	171	110	127	41	11	.	.	3	1	29	64	158	715
20.00 - GREATER	89	78	55	2	.	.	.	3	2	7	27	69	332
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 71.50 W, DEPTH: 46 M

STATION: 82

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	567	708	750	531	400	402	295	465	561	468	473	556	6176
22.50 - 67.49 (45.0)	362	372	386	412	472	239	234	367	555	623	400	274	4696
67.50 - 112.49 (90.0)	260	251	363	343	336	203	216	335	380	325	325	236	3573
112.50 - 157.49 (135.0)	241	258	281	440	385	231	355	322	322	340	279	249	3703
157.50 - 202.49 (180.0)	343	240	493	519	666	606	589	571	507	519	429	366	5848
202.50 - 247.49 (225.0)	481	534	575	598	876	1151	1263	1127	780	614	637	602	9238
247.50 - 292.49 (270.0)	932	591	612	654	715	875	879	681	625	807	826	896	9093
292.50 - 337.49 (315.0)	1278	1118	1004	823	614	613	633	596	590	768	951	1285	10273
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 82

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.98	2.21	2.02	1.38	1.78	1.33	1.01	1.30	0.99	1.76	1.69	1.78	1.60
1977	1.93	1.81	1.92	1.63	0.96	1.19	0.94	0.94	1.13	1.67	2.10	2.21	1.54
1978	2.60	1.42	1.88	1.67	1.83	1.21	1.06	0.92	1.21	1.37	1.57	1.85	1.55
1979	2.40	2.20	2.12	1.67	1.51	0.91	0.96	0.99	1.41	1.38	1.56	1.97	1.59
1980	2.22	1.56	2.47	1.93	1.10	1.17	1.15	1.08	1.25	1.59	1.83	1.93	1.61
1981	1.54	2.73	1.93	2.16	1.66	1.07	1.05	0.80	1.41	1.31	1.59	1.62	1.56
1982	1.84	1.52	1.15	1.66	0.88	1.22	0.65	0.73	1.01	1.04	1.33	1.24	1.18
1983	1.41	1.57	1.72	1.48	1.52	1.04	0.86	0.77	0.94	1.45	1.54	2.11	1.37
1984	1.43	1.88	2.15	1.63	1.59	1.21	1.24	0.69	0.88	1.29	1.57	1.40	1.41
1985	1.59	1.92	1.65	1.42	1.27	1.12	0.94	0.75	1.10	0.93	1.74	1.47	1.32
1986	2.15	1.37	1.95	1.66	1.28	1.29	0.81	0.95	1.13	1.17	1.39	1.90	1.42
1987	1.72	1.51	1.75	1.86	1.04	0.87	0.66	0.77	0.93	1.19	1.41	1.30	1.25
1988	1.30	1.67	1.35	1.31	1.17	1.09	1.10	0.95	0.94	1.26	1.47	1.29	1.24
1989	1.45	1.42	1.65	1.34	1.44	0.93	0.84	1.04	1.66	1.14	1.80	1.30	1.33
1990	1.43	1.81	1.41	1.52	1.31	1.37	1.15	1.04	1.16	1.53	1.31	1.62	1.39
1991	1.43	1.34	1.80	1.24	0.93	0.86	0.88	1.11	1.26	1.44	1.33	1.42	1.25
1992	1.60	1.46	1.78	1.02	1.07	0.97	0.77	0.86	1.00	0.99	1.22	1.67	1.20
1993	1.75	1.80	1.75	1.97	1.16	0.99	0.80	0.85	1.27	1.39	1.70	1.63	1.42
MEAN	1.76	1.73	1.80	1.59	1.31	1.10	0.94	0.92	1.15	1.33	1.56	1.65	

STATION: 82

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	531021	601022	601120	31 714	571120	37 922	231018	631017	211513	501015	38 921	39 920	631017
1977	641116	671114	49 914	511015	26 635	38 911	40 920	24 822	40 910	48 915	731313	7413 9	7413 9
1978	881316	661110	561113	541015	621118	38 920	33 811	34 819	30 821	34 922	541015	511020	881316
1979	831314	501317	681216	551116	361017	17 616	21 715	24 723	42 917	561023	531019	441021	831314
1980	801312	46 8 5	771310	541116	32 820	26 722	21 723	241110	241614	841215	511015	481010	841215
1981	42 921	921418	661220	641220	29 815	38 921	30 718	19 711	311516	29 812	35 7 8	431217	921418
1982	671320	41 918	27 627	541018	22 722	411015	15 625	21 719	261313	49 9 8	34 920	25 722	671320
1983	34 7 6	51 9 8	531011	38 813	451119	25 719	23 533	21 6 4	27 819	49 924	411118	741213	741213
1984	40 8 8	551014	881313	581115	47 921	311314	33 920	15 5 2	21 816	501417	36 823	33 816	881313
1985	37 734	741215	511018	591119	36 922	35 920	32 921	18 5 2	841116	22 636	671212	38 921	841116
1986	551013	28 6 7	701121	5711 9	30 6 1	42 921	20 622	37 815	491021	25 6 3	43 914	821215	821215
1987	511011	48 8 0	841318	581114	20 6 5	19 621	18 622	19 621	31 7 7	25 711	33 7 0	35 7 4	841318
1988	35 811	50 912	33 917	28 821	21 6 8	24 721	30 919	23 723	231514	38 812	37 820	33 823	50 912
1989	39 735	461215	44 911	34 915	35 817	19 817	23 623	331214	462015	38 912	511017	28 629	511017
1990	37 922	471020	37 920	361019	38 918	35 919	30 822	29 7 8	20 6 3	321017	311018	481015	481015
1991	39 913	261216	381317	27 813	23 717	22 721	18 918	901216	401715	36 7 3	271018	34 811	901216
1992	501017	31 9 9	461013	25 718	21 812	24 712	18 520	23 718	26 7 9	20 6 5	32 819	681112	681112
1993	581119	521010	781122	521017	21 722	23 617	20 618	231318	331319	441010	711316	531018	781122
MAX	881316	921418	881313	641220	621118	42 921	40 920	901216	841116	841215	731313	821215	

MAX Hmo(m): 9.2 MAX Tp(sec): 14. MAX Dp(deg): 180. DATE(gmt): 81021118

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 160. DATE(gmt): 85092718

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.25 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 83

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	154	152	207	295	300	286	494	780	616	434	220	226	4164
0.50 - 0.99	1009	912	921	1169	1646	2006	2461	2350	1795	1494	1107	1038	17908
1.00 - 1.49	1275	1213	1227	1191	1527	1384	1084	953	1094	1450	1284	1309	14991
1.50 - 1.99	825	798	888	769	584	442	308	264	488	617	848	805	7636
2.00 - 2.49	567	478	568	468	208	141	76	70	201	281	515	549	4122
2.50 - 2.99	262	236	296	177	93	41	36	24	63	101	224	309	1862
3.00 - 3.49	154	127	160	109	67	17	3	9	32	41	54	135	908
3.50 - 3.99	95	66	77	60	19	3	2	3	15	16	29	44	429
4.00 - 4.49	55	35	53	42	11	.	.	5	8	15	13	23	260
4.50 - 4.99	28	29	26	28	8	.	.	1	4	3	10	10	147
5.00 - 5.49	18	9	19	11	1	.	.	2	1	5	5	7	78
5.50 - 5.99	10	7	13	1	.	.	.	1	1	3	7	4	47
6.00 - 6.49	7	4	4	.	.	.	.	1	1	2	4	3	26
6.50 - 6.99	2	4	3	.	.	.	.	.	1	.	.	.	10
7.00 - 7.49	2	2	2	.	.	.	.	.	.	1	.	2	9
7.50 - 7.99	1	.	.	.	.	.	.	1	.	1	.	.	3
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 83

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	191	180	159	185	161	164	214	309	270	268	176	196	2473
4.0 - 4.9	836	862	689	671	640	685	654	643	691	933	855	896	9055
5.0 - 5.9	897	798	699	496	488	567	699	709	504	715	932	834	8338
6.0 - 6.9	452	363	371	437	633	812	901	936	548	564	419	473	6909
7.0 - 7.9	310	303	379	503	806	797	950	783	542	454	381	347	6555
8.0 - 8.9	295	315	437	497	800	673	670	485	429	467	415	412	5895
9.0 - 9.9	343	309	422	562	495	387	255	207	313	383	422	380	4478
10.0 - 10.9	347	315	421	345	234	144	81	102	220	255	348	328	3140
11.0 - 11.9	277	257	318	305	99	52	36	90	153	170	165	217	2139
12.0 - 12.9	240	179	310	203	64	26	3	63	125	103	85	151	1552
13.0 - 13.9	142	99	135	91	23	13	1	43	136	71	44	136	934
14.0 - 14.9	87	53	84	10	7	.	.	22	114	29	38	74	518
15.0 - 15.9	23	25	25	14	10	.	.	20	90	26	22	16	271
16.0 - 16.9	18	4	1	1	4	.	.	21	71	13	6	1	140
17.0 - 17.9	2	.	1	.	.	.	.	9	52	10	6	.	80
18.0 - 18.9	4	3	1	.	.	.	.	10	23	1	4	3	49
19.0 - 19.9	.	7	3	.	.	.	.	6	19	2	.	.	37
20.0 - LONGER	.	.	9	.	.	.	.	6	20	.	2	.	37
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 83

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	144	236	166	111	84	63	38	73	114	105	140	130	1404
11.25 - 33.74 (22.5)	72	117	109	80	95	67	16	68	65	132	81	94	996
33.75 - 56.24 (45.0)	73	81	88	63	93	48	7	35	93	169	114	49	913
56.25 - 78.74 (67.5)	50	60	59	64	56	23	4	55	60	102	120	44	697
78.75 - 101.24 (90.0)	104	88	132	96	66	37	13	64	76	60	90	88	914
101.25 - 123.74 (112.5)	87	60	79	98	65	34	33	27	113	81	91	67	835
123.75 - 146.24 (135.0)	209	224	283	451	596	282	263	623	641	724	373	228	4897
146.25 - 168.74 (157.5)	842	667	877	976	939	722	591	949	1158	963	761	777	10222
168.75 - 191.24 (180.0)	914	820	1221	1202	1247	1377	1655	1139	908	614	790	782	12669
191.25 - 213.74 (202.5)	387	372	451	397	617	858	949	757	437	385	446	553	6609
213.75 - 236.24 (225.0)	179	194	151	133	174	301	347	266	227	218	232	266	2688
236.25 - 258.74 (247.5)	100	111	73	77	90	140	131	137	108	179	121	153	1420
258.75 - 281.24 (270.0)	270	158	163	121	96	136	151	69	90	196	256	291	1997
281.25 - 303.74 (292.5)	407	219	253	178	72	107	121	71	89	251	276	345	2389
303.75 - 326.24 (315.0)	381	375	213	147	112	79	87	73	76	160	267	389	2359
326.25 - 348.74 (337.5)	245	290	146	126	62	46	58	58	65	125	162	208	1591
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 83 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1270	.	.	.	.	.	.	.	.	.	1270
1.00 - 1.99	800	370	.	.	.	.	.	.	.	.	1170
2.00 - 2.99	.	155	.	.	.	.	.	.	.	.	155
3.00 - 3.99	.	7	.	.	.	.	.	.	.	.	7
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2070	532	0	0	0	0	0	0	0	0	2602

STATION: 83 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	616	.	.	.	.	.	.	.	.	.	616
1.00 - 1.99	669	404	.	.	.	.	.	.	.	.	1073
2.00 - 2.99	.	85	.	.	.	.	.	.	.	.	85
3.00 - 3.99	.	8	1	.	.	.	.	.	.	.	9
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1285	497	1	0	0	0	0	0	0	0	1783

STATION: 83 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	431	39	.	.	.	.	.	.	.	.	470
1.00 - 1.99	129	628	.	.	.	.	.	.	.	.	757
2.00 - 2.99	.	259	85	.	.	.	.	.	.	.	344
3.00 - 3.99	.	.	47	.	.	.	.	.	.	.	47
4.00 - 4.99	.	.	3	2	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	560	926	135	3	0	0	0	0	0	0	1624

STATION: 83 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	453	1006	2177	1761	834	383	70	25	17	2	6728
1.00 - 1.99	68	831	771	668	572	316	110	5	.	.	3341
2.00 - 2.99	.	111	306	105	112	60	16	.	.	.	710
3.00 - 3.99	.	.	85	64	36	21	5	.	.	.	211
4.00 - 4.99	.	.	3	44	32	9	.	.	.	.	88
5.00 - 5.99	.	.	.	6	16	9	.	.	.	.	31
6.00 - 6.99	.	.	.	.	5	.	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	521	1948	3342	2648	1607	798	201	30	17	2	11114

STATION: 83 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	826	2800	3640	1092	232	44	32	18	16	4	8704
1.00 - 1.99	134	1919	3325	2241	685	210	70	52	14	.	8650
2.00 - 2.99	.	153	800	1144	659	147	73	13	9	.	2998
3.00 - 3.99	.	.	113	286	317	109	16	12	7	.	860
4.00 - 4.99	.	.	.	66	135	80	5	3	5	.	294
5.00 - 5.99	.	.	.	5	40	38	7	1	.	.	91
6.00 - 6.99	.	.	.	.	7	18	6	.	.	.	31
7.00 - 7.99	.	.	.	.	3	8	1	.	.	.	12
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	960	4872	7878	4834	2078	654	210	99	51	4	21640

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 83 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1061	758	103	.	.	.	.	.	.	.	1922
1.00 - 1.99	180	2197	330	6	.	.	.	.	.	.	2713
2.00 - 2.99	.	171	554	35	.	.	.	.	.	.	760
3.00 - 3.99	.	.	65	74	3	.	.	.	.	.	142
4.00 - 4.99	.	.	.	16	1	.	.	.	.	.	17
5.00 - 5.99	.	.	.	.	2	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1241	3126	1052	131	6	0	0	0	0	0	5556

STATION: 83 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1162	10	.	.	.	.	.	.	.	.	1172
1.00 - 1.99	1124	1202	2	.	.	.	.	.	.	.	2328
2.00 - 2.99	.	303	23	.	.	.	.	.	.	.	326
3.00 - 3.99	.	5	6	2	.	.	.	.	.	.	13
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2286	1520	34	2	0	0	0	0	0	0	3842

STATION: 83 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1189	1	.	.	.	.	.	.	.	.	1190
1.00 - 1.99	1416	1179	.	.	.	.	.	.	.	.	2595
2.00 - 2.99	.	606	.	.	.	.	.	.	.	.	606
3.00 - 3.99	.	40	8	.	.	.	.	.	.	.	48
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2605	1826	8	0	0	0	0	0	0	0	4439

STATION: 83 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	7008	4614	5920	2853	1066	427	102	43	33	6	22072
1.00 - 1.99	4520	8730	4428	2915	1257	526	180	57	14	.	22627
2.00 - 2.99	.	1843	1768	1284	771	207	89	13	9	.	5984
3.00 - 3.99	.	60	325	426	356	130	21	12	7	.	1337
4.00 - 4.99	.	.	9	128	168	89	5	3	5	.	407
5.00 - 5.99	.	.	.	12	58	47	7	1	.	.	125
6.00 - 6.99	.	.	.	.	12	18	6	.	.	.	36
7.00 - 7.99	.	.	.	.	3	8	1	.	.	.	12
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11528	15247	12450	7618	3691	1452	411	129	68	6	52600

STATION: 83

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	69	53	95	169	275	286	483	584	439	227	86	62	2828
2.50 - 4.99	810	696	930	1162	1766	1903	2347	2286	1887	1337	916	775	16815
5.00 - 7.49	693	738	763	970	1083	1119	1043	1017	969	1008	868	851	11122
7.50 - 9.99	1177	1117	1223	1153	963	830	496	476	773	1233	1261	1211	11913
10.00 - 12.49	609	624	619	412	245	131	79	74	184	372	569	655	4573
12.50 - 14.99	633	484	488	338	102	49	14	19	63	210	431	527	3358
15.00 - 17.49	219	169	161	76	18	2	2	2	3	47	102	148	949
17.50 - 19.99	159	115	131	38	12	.	.	4	1	23	61	173	717
20.00 - GREATER	95	76	54	2	.	.	.	2	1	7	26	62	325
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.25 W, DEPTH: 18 M

STATION: 83

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	576	712	757	548	400	390	289	464	566	490	471	562	6225
22.50 - 67.49 (45.0)	344	367	377	416	453	219	229	338	521	590	397	252	4503
67.50 - 112.49 (90.0)	262	245	349	334	347	210	198	312	371	315	309	233	3485
112.50 - 157.49 (135.0)	244	263	293	435	406	227	344	336	317	359	298	268	3790
157.50 - 202.49 (180.0)	347	236	502	540	655	612	618	586	527	534	439	367	5963
202.50 - 247.49 (225.0)	488	542	570	591	885	1159	1272	1132	796	609	628	600	9272
247.50 - 292.49 (270.0)	942	612	625	661	697	888	883	694	626	814	851	916	9209
292.50 - 337.49 (315.0)	1261	1095	991	795	621	615	631	602	596	753	927	1266	10153
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 83

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.81	2.05	1.79	1.26	1.67	1.24	0.96	1.20	0.88	1.53	1.56	1.68	1.47
1977	1.76	1.69	1.77	1.54	0.88	1.08	0.90	0.90	0.98	1.47	1.84	1.98	1.40
1978	2.36	1.17	1.68	1.51	1.63	1.13	0.97	0.86	1.03	1.19	1.33	1.74	1.39
1979	2.17	1.97	1.88	1.50	1.35	0.84	0.91	0.91	1.24	1.26	1.39	1.77	1.43
1980	1.92	1.34	2.15	1.70	1.00	1.13	1.08	0.94	1.16	1.42	1.67	1.69	1.43
1981	1.37	2.37	1.70	1.97	1.39	1.02	0.97	0.69	1.24	1.13	1.33	1.47	1.38
1982	1.66	1.35	1.06	1.53	0.67	1.00	0.60	0.68	0.86	0.78	1.15	1.09	1.03
1983	1.22	1.29	1.43	1.27	1.37	0.93	0.81	0.70	0.81	1.20	1.39	1.83	1.19
1984	1.15	1.70	1.78	1.43	1.47	1.10	1.17	0.60	0.78	1.11	1.36	1.25	1.24
1985	1.43	1.70	1.47	1.28	1.15	1.00	0.87	0.67	0.93	0.84	1.42	1.32	1.17
1986	1.95	1.16	1.77	1.30	1.07	1.19	0.77	0.88	0.97	1.00	1.22	1.65	1.25
1987	1.50	1.29	1.37	1.54	0.87	0.78	0.59	0.67	0.80	0.97	1.25	1.17	1.06
1988	1.18	1.50	1.26	1.10	0.99	1.00	1.03	0.88	0.88	1.10	1.37	1.16	1.12
1989	1.30	1.27	1.37	1.22	1.26	0.84	0.78	0.90	1.49	0.98	1.65	1.18	1.18
1990	1.35	1.68	1.27	1.35	1.16	1.23	1.06	0.87	0.93	1.38	1.23	1.46	1.25
1991	1.28	1.23	1.65	1.10	0.85	0.79	0.82	1.04	1.18	1.26	1.15	1.29	1.14
1992	1.47	1.29	1.62	0.92	0.84	0.91	0.73	0.81	0.86	0.88	1.09	1.45	1.07
1993	1.57	1.56	1.52	1.68	1.02	0.95	0.75	0.76	1.17	1.26	1.56	1.39	1.26
MEAN	1.58	1.53	1.59	1.40	1.15	1.01	0.88	0.83	1.01	1.15	1.39	1.48	

STATION: 83

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	431018	521417	501219	28 715	491120	32 921	221018	581217	19 618	43 916	33 920	341118	581217
1977	531217	541116	41 914	43 915	24 822	31 7 9	36 920	22 719	34 916	411016	591215	521115	591215
1978	751417	481114	481115	461116	521118	33 920	29 914	30 819	27 821	31 921	471017	421019	751417
1979	701316	491317	571217	501317	341018	17 616	21 715	24 623	36 819	461023	461118	371120	701316
1980	611616	331315	611217	451117	28 819	24 622	20 723	211117	241616	761317	43 915	361118	761317
1981	37 921	721418	551319	531319	25 816	33 822	27 718	19 619	331517	24 611	27 920	421218	721418
1982	541221	371019	24 627	461018	20 722	39 914	15 624	19 719	231316	261116	29 920	22 722	541221
1983	25 816	32 7 8	391014	331217	401119	22 819	22 533	171018	25 819	42 923	39 729	631215	631215
1984	32 7 8	451016	701316	511117	39 921	27 816	29 919	12 715	19 623	571518	32 822	30 816	701316
1985	36 733	621216	431018	521119	32 921	31 919	29 920	17 616	671116	16 535	521216	33 920	671116
1986	471015	21 533	551120	33 7 9	23 623	36 822	20 622	321018	411119	21 531	37 915	741317	741317
1987	39 913	34 7 3	671418	561318	15 815	18 621	19 622	19 621	25 7 8	22 611	26 818	281216	671418
1988	29 7 8	451014	30 917	24 820	17 5 7	21 721	27 919	22 714	201616	32 710	30 819	29 821	451014
1989	28 632	391216	351015	30 813	30 816	17 817	22 622	281216	461917	30 713	421118	26 629	461917
1990	341118	381119	311019	34 919	321018	31 919	27 822	271617	17 622	291017	321018	41 916	41 916
1991	35 914	271217	391318	25 717	23 716	20 721	17 918	771216	411817	271116	251018	28 628	771216
1992	451416	26 7 9	40 914	24 718	18 817	22 611	18 520	22 619	21 6 9	19 721	30 819	561115	561115
1993	481219	391014	731418	441018	20 722	22 617	20 618	211318	321318	34 7 9	631417	461020	731418
MAX	751417	721418	731418	561318	521118	39 914	36 920	771216	671116	761317	631417	741317	

MAX Hmo(m): 7.7 MAX Tp(sec): 12. MAX Dp(deg): 162. DATE(gmt): 91081918

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 185. DATE(gmt): 91081918

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.00 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 84

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	132	150	190	278	285	264	437	760	617	422	209	201	3945
0.50 - 0.99	982	883	892	1158	1586	1889	2361	2294	1762	1467	1077	1017	17368
1.00 - 1.49	1191	1150	1155	1144	1512	1423	1178	993	1095	1370	1209	1165	14585
1.50 - 1.99	823	832	931	795	660	512	360	296	511	691	860	885	8156
2.00 - 2.49	615	488	615	477	219	159	83	71	203	308	557	596	4391
2.50 - 2.99	291	260	277	204	92	52	37	24	68	113	257	338	2013
3.00 - 3.49	189	147	190	111	65	17	5	13	33	42	76	154	1042
3.50 - 3.99	99	69	85	68	21	3	3	2	15	18	35	55	473
4.00 - 4.49	57	33	53	45	15	1	.	3	9	13	17	29	275
4.50 - 4.99	38	29	34	24	8	.	.	3	2	5	9	9	161
5.00 - 5.49	20	14	20	15	1	.	.	1	2	5	5	7	90
5.50 - 5.99	13	4	11	1	.	.	.	1	1	5	5	4	45
6.00 - 6.49	9	6	6	.	.	.	.	1	2	3	4	1	32
6.50 - 6.99	3	4	1	.	.	.	.	.	.	.	.	2	10
7.00 - 7.49	1	2	3	.	.	.	.	1	.	1	.	1	9
7.50 - 7.99	1	1	1	.	.	.	.	1	.	1	.	.	5
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 84

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	165	156	161	172	153	152	180	310	250	246	159	173	2277
4.0 - 4.9	747	781	601	619	571	545	595	626	684	830	766	781	8146
5.0 - 5.9	908	885	754	554	589	701	805	776	579	798	974	910	9233
6.0 - 6.9	596	389	420	477	659	812	896	929	544	656	551	598	7527
7.0 - 7.9	320	318	384	497	808	807	942	773	534	452	401	342	6578
8.0 - 8.9	303	327	441	508	779	683	656	462	412	450	413	394	5828
9.0 - 9.9	315	304	419	539	484	385	261	197	304	371	366	382	4327
10.0 - 10.9	330	303	401	340	234	142	89	102	218	258	326	310	3053
11.0 - 11.9	280	245	332	298	89	52	36	84	156	154	157	208	2091
12.0 - 12.9	232	174	292	202	57	28	4	66	118	101	86	148	1508
13.0 - 13.9	141	99	132	90	23	13	.	39	131	67	42	138	915
14.0 - 14.9	76	49	87	11	6	.	.	26	112	30	42	60	499
15.0 - 15.9	28	27	24	13	8	.	.	21	97	25	21	15	279
16.0 - 16.9	18	5	2	.	4	.	.	22	71	13	5	1	141
17.0 - 17.9	2	.	1	.	.	.	.	9	49	10	4	.	75
18.0 - 18.9	3	3	2	.	.	.	.	13	20	1	4	3	49
19.0 - 19.9	.	7	3	.	.	.	.	3	21	2	1	1	38
20.0 - LONGER	.	.	8	.	.	.	.	6	20	.	2	.	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 84

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	140	232	169	117	86	57	33	63	110	112	139	129	1387
11.25 - 33.74 (22.5)	70	115	115	75	94	69	13	73	73	139	85	87	1008
33.75 - 56.24 (45.0)	76	82	85	59	94	47	6	34	85	165	117	52	902
56.25 - 78.74 (67.5)	53	63	65	80	55	22	3	50	68	90	120	47	716
78.75 - 101.24 (90.0)	93	82	119	93	61	25	11	62	72	63	93	89	863
101.25 - 123.74 (112.5)	79	49	71	79	60	40	28	37	104	84	91	63	785
123.75 - 146.24 (135.0)	185	197	244	399	482	237	222	523	570	668	326	203	4256
146.25 - 168.74 (157.5)	795	626	842	924	931	707	527	899	1150	925	718	697	9741
168.75 - 191.24 (180.0)	871	781	1156	1184	1216	1262	1521	1101	869	609	732	725	12027
191.25 - 213.74 (202.5)	406	446	555	482	710	1011	1167	894	500	408	472	618	7669
213.75 - 236.24 (225.0)	207	196	178	164	219	343	386	282	274	262	274	285	3070
236.25 - 258.74 (247.5)	122	139	70	74	99	158	153	154	123	198	157	193	1640
258.75 - 281.24 (270.0)	386	196	197	162	123	131	159	79	101	241	331	346	2452
281.25 - 303.74 (292.5)	374	223	262	172	71	100	104	80	79	232	255	337	2289
303.75 - 326.24 (315.0)	381	361	202	142	106	67	78	66	79	152	265	382	2281
326.25 - 348.74 (337.5)	226	284	134	114	57	44	53	67	63	116	145	211	1514
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 84 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1234										1234
1.00 - 1.99	797	370									1167
2.00 - 2.99		160									160
3.00 - 3.99		7	1								8
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2031	537	1	0	0	0	0	0	0	0	2569

STATION: 84 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	598										598
1.00 - 1.99	671	404									1075
2.00 - 2.99		94									94
3.00 - 3.99		10									10
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1269	508	0	0	0	0	0	0	0	0	1777

STATION: 84 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	441	33									474
1.00 - 1.99	128	655									783
2.00 - 2.99		252	20								272
3.00 - 3.99			19								19
4.00 - 4.99			3								3
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	569	940	42	0	0	0	0	0	0	0	1551

STATION: 84 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	442	913	1940	1609	763	346	73	23	19	2	6130
1.00 - 1.99	65	814	654	575	514	326	110	4			3062
2.00 - 2.99		135	245	82	101	65	18				646
3.00 - 3.99			91	63	34	23	5				216
4.00 - 4.99			7	41	29	9					86
5.00 - 5.99				5	10	10					25
6.00 - 6.99					2						2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	507	1862	2937	2375	1453	779	206	27	19	2	10167

STATION: 84 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	761	2712	3515	1058	232	50	33	18	12	4	8395
1.00 - 1.99	135	1948	3474	2179	637	181	68	51	16	1	8690
2.00 - 2.99		147	817	1153	667	141	70	12	8		3015
3.00 - 3.99			102	336	372	102	19	12	6	1	950
4.00 - 4.99				61	158	82	9	3	5		318
5.00 - 5.99				4	43	49	8	1			105
6.00 - 6.99					15	20	5				40
7.00 - 7.99					2	10	2				14
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	896	4807	7908	4791	2126	635	214	97	47	6	21527

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 84 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1049	966	150	.	.	.	.	.	.	.	2165
1.00 - 1.99	119	2436	516	13	.	.	.	.	.	.	3084
2.00 - 2.99	.	200	673	68	.	.	.	.	.	.	941
3.00 - 3.99	.	.	75	112	7	.	.	.	.	.	194
4.00 - 4.99	.	.	.	16	10	.	.	.	.	.	26
5.00 - 5.99	.	.	.	2	3	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1168	3602	1414	211	20	0	0	0	0	0	6415

STATION: 84 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1127	8	.	.	.	.	.	.	.	.	1135
1.00 - 1.99	367	2066	8	.	.	.	.	.	.	.	2441
2.00 - 2.99	.	628	27	1	.	.	.	.	.	.	656
3.00 - 3.99	.	9	56	2	.	.	.	.	.	.	67
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1494	2711	94	3	0	0	0	0	0	0	4302

STATION: 84 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1182	.	.	.	.	.	.	.	.	.	1182
1.00 - 1.99	1307	1132	.	.	.	.	.	.	.	.	2439
2.00 - 2.99	.	619	1	.	.	.	.	.	.	.	620
3.00 - 3.99	.	42	9	.	.	.	.	.	.	.	51
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2489	1793	10	0	0	0	0	0	0	0	4292

STATION: 84 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6834	4632	5605	2667	995	396	106	41	31	6	21313
1.00 - 1.99	3589	9825	4652	2767	1151	507	178	55	16	1	22741
2.00 - 2.99	.	2235	1783	1304	768	206	88	12	8	.	6404
3.00 - 3.99	.	68	353	513	413	125	24	12	6	1	1515
4.00 - 4.99	.	.	13	118	197	91	9	3	5	.	436
5.00 - 5.99	.	.	.	11	56	59	8	1	.	.	135
6.00 - 6.99	.	.	.	.	17	20	5	.	.	.	42
7.00 - 7.99	.	.	.	.	2	10	2	.	.	.	14
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10423	16760	12406	7380	3599	1414	420	124	66	8	52600

STATION: 84

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	70	56	97	167	271	292	462	567	442	217	84	63	2788
2.50 - 4.99	811	668	918	1171	1767	1891	2361	2305	1886	1335	906	774	16793
5.00 - 7.49	668	740	778	945	1084	1124	1042	1024	966	1010	864	841	11086
7.50 - 9.99	1174	1116	1196	1166	959	819	503	470	769	1235	1268	1206	11881
10.00 - 12.49	616	648	628	414	242	145	77	72	187	376	584	659	4648
12.50 - 14.99	636	477	493	334	108	48	17	18	64	212	426	531	3364
15.00 - 17.49	228	164	164	81	23	1	2	5	4	49	97	161	979
17.50 - 19.99	163	128	135	40	10	.	.	2	1	21	60	164	724
20.00 - GREATER	98	75	55	2	.	.	.	1	1	9	31	65	337
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 71.00 W, DEPTH: 18 M

STATION: 84

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	583	724	750	550	400	385	284	468	576	505	470	563	6258
22.50 - 67.49 (45.0)	350	366	390	424	465	219	226	345	513	582	402	267	4549
67.50 - 112.49 (90.0)	257	240	345	321	345	214	205	301	386	316	312	234	3476
112.50 - 157.49 (135.0)	248	263	290	432	406	234	334	340	305	358	290	256	3756
157.50 - 202.49 (180.0)	343	244	509	545	662	610	635	597	543	539	443	376	6046
202.50 - 247.49 (225.0)	482	529	560	597	886	1167	1278	1137	785	599	628	583	9231
247.50 - 292.49 (270.0)	944	605	624	683	689	897	880	686	617	822	849	920	9216
292.50 - 337.49 (315.0)	1257	1101	996	768	611	594	622	590	595	743	926	1265	10068
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 84

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.86	2.15	1.84	1.30	1.73	1.29	1.01	1.23	0.90	1.59	1.66	1.74	1.52
1977	1.85	1.77	1.84	1.59	0.92	1.11	0.93	0.94	0.98	1.51	1.85	2.03	1.44
1978	2.46	1.19	1.70	1.55	1.65	1.15	1.01	0.88	1.04	1.21	1.35	1.84	1.42
1979	2.22	1.99	1.89	1.51	1.38	0.87	0.94	0.93	1.25	1.32	1.43	1.83	1.46
1980	2.00	1.39	2.22	1.72	1.03	1.19	1.14	0.96	1.19	1.48	1.75	1.73	1.48
1981	1.42	2.39	1.79	2.05	1.41	1.07	1.00	0.70	1.27	1.19	1.39	1.54	1.43
1982	1.76	1.42	1.12	1.60	0.68	1.02	0.63	0.71	0.86	0.78	1.19	1.13	1.07
1983	1.25	1.30	1.42	1.27	1.39	0.96	0.83	0.72	0.81	1.21	1.44	1.87	1.21
1984	1.16	1.71	1.81	1.43	1.52	1.12	1.23	0.60	0.79	1.11	1.39	1.31	1.26
1985	1.50	1.73	1.51	1.30	1.19	1.05	0.91	0.68	0.94	0.86	1.40	1.37	1.20
1986	2.03	1.17	1.81	1.31	1.11	1.23	0.80	0.90	0.98	1.01	1.23	1.69	1.28
1987	1.54	1.31	1.40	1.54	0.87	0.80	0.60	0.67	0.78	0.99	1.28	1.22	1.08
1988	1.24	1.54	1.31	1.15	1.01	1.04	1.07	0.90	0.89	1.13	1.42	1.22	1.16
1989	1.34	1.31	1.38	1.25	1.28	0.87	0.80	0.91	1.49	1.00	1.73	1.25	1.22
1990	1.42	1.73	1.50	1.36	1.18	1.26	1.09	0.86	0.94	1.39	1.29	1.52	1.28
1991	1.32	1.29	1.68	1.12	0.88	0.82	0.84	1.07	1.21	1.27	1.19	1.34	1.17
1992	1.51	1.32	1.68	0.94	0.85	0.93	0.76	0.84	0.87	0.92	1.13	1.49	1.10
1993	1.63	1.62	1.57	1.72	1.06	0.99	0.78	0.77	1.21	1.28	1.61	1.44	1.30
MEAN	1.64	1.57	1.63	1.43	1.17	1.04	0.91	0.85	1.02	1.18	1.43	1.53	

STATION: 84

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	441018	581417	511219	28 815	491120	32 921	231018	621218	19 618	461118	33 921	36 920	621218
1977	531217	531116	431014	421219	24 823	28 815	36 920	22 723	34 816	411016	571216	531115	571216
1978	771417	471114	481014	471016	521119	34 920	30 813	30 819	28 821	31 921	491017	421119	771417
1979	681316	501317	561217	501317	351018	18 525	21 715	25 624	36 819	471121	481118	371021	681316
1980	621616	331315	611217	441117	27 820	26 722	20 723	24 625	231516	751317	42 916	391119	751317
1981	37 921	751418	571319	541220	23 816	34 920	26 819	18 619	331517	26 628	31 921	441218	751418
1982	561221	381019	29 726	461018	20 722	401016	15 624	19 719	231316	241116	301018	22 722	561221
1983	26 816	31 7 8	361015	341217	421119	23 819	23 533	18 919	24 819	421021	441119	611215	611215
1984	29 7 8	451015	681316	511316	38 921	27 816	30 919	12 715	201219	591518	32 918	29 816	681316
1985	371219	601216	43 918	521119	33 922	30 920	29 920	17 616	641117	18 527	491216	35 729	641117
1986	481015	21 533	571220	321315	24 722	35 822	20 622	341018	421120	21 531	37 915	741317	741317
1987	39 913	33 736	701318	561318	18 528	17 621	20 622	19 621	23 6 7	23 628	26 819	281216	701318
1988	28 710	451015	31 917	24 820	181018	23 820	28 919	23 714	21 723	31 915	31 919	29 921	451015
1989	29 635	391217	34 822	31 813	30 817	18 818	21 622	271216	462017	28 713	421018	28 727	462017
1990	351118	391119	311118	351019	321018	31 919	27 921	261617	19 623	28 819	361018	40 916	40 916
1991	36 814	291217	421318	26 716	23 716	21 721	16 818	751216	411817	261316	261018	321020	751216
1992	451018	281218	40 914	23 719	18 817	22 612	18 619	22 619	22 719	24 723	31 819	541115	541115
1993	491219	38 7 9	771418	431018	20 722	22 616	19 619	231418	331419	321014	641317	481118	771418
MAX	771417	751418	771418	561318	521119	401016	36 920	751216	641117	751317	641317	741317	

MAX Hmo(m): 7.7 MAX Tp(sec): 14. MAX Dp(deg): 184. DATE(gmt): 93031415

MAX WIND SPEED(m/sec): 39. MAX WIND DIRECTION(deg): 155. DATE(gmt): 91081918

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N LONG: 70.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 85

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	128	144	189	265	276	252	418	756	627	428	208	184	3875
0.50 - 0.99	959	867	880	1153	1562	1854	2279	2277	1749	1457	1062	999	17098
1.00 - 1.49	1177	1122	1146	1159	1504	1423	1243	1006	1074	1351	1208	1140	14553
1.50 - 1.99	801	831	921	781	678	525	388	296	524	677	798	850	8070
2.00 - 2.49	612	517	621	470	251	189	85	75	204	336	588	643	4591
2.50 - 2.99	331	255	290	219	81	51	43	28	71	112	285	359	2125
3.00 - 3.49	185	158	190	112	62	21	5	11	37	48	95	173	1097
3.50 - 3.99	113	84	84	71	27	4	3	4	18	21	35	61	525
4.00 - 4.49	64	34	66	46	13	1	.	3	8	15	18	26	294
4.50 - 4.99	40	28	31	29	7	.	.	3	4	6	10	13	171
5.00 - 5.49	24	11	24	14	3	.	.	2	1	3	5	9	96
5.50 - 5.99	14	10	11	1	.	.	.	1	1	4	3	4	49
6.00 - 6.49	11	6	5	.	.	.	.	.	2	3	3	.	30
6.50 - 6.99	3	3	3	.	.	.	.	.	.	1	2	2	14
7.00 - 7.49	1	2	.	.	.	.	.	2	.	1	.	1	7
7.50 - 7.99	1	.	3	.	.	.	.	.	.	1	.	.	5
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 85

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	154	152	162	161	164	147	173	297	255	243	156	162	2226
4.0 - 4.9	721	770	583	596	571	510	539	596	692	825	752	771	7926
5.0 - 5.9	864	868	730	587	575	734	859	842	594	776	919	821	9169
6.0 - 6.9	646	425	459	499	728	839	912	932	551	699	604	709	8003
7.0 - 7.9	392	329	397	503	771	814	937	757	520	474	444	368	6706
8.0 - 8.9	314	341	441	517	748	679	661	452	403	426	401	393	5776
9.0 - 9.9	305	314	416	511	481	364	258	196	299	369	356	395	4264
10.0 - 10.9	311	266	387	338	242	138	82	102	200	248	315	285	2914
11.0 - 11.9	260	238	339	293	92	55	39	85	161	155	153	209	2079
12.0 - 12.9	222	173	296	195	50	25	4	65	116	108	92	130	1476
13.0 - 13.9	149	96	125	95	21	14	.	38	129	63	45	143	918
14.0 - 14.9	74	56	87	11	9	1	.	26	116	28	41	59	508
15.0 - 15.9	30	30	25	14	9	.	.	23	97	22	21	15	286
16.0 - 16.9	17	4	3	.	3	.	.	20	73	15	7	.	142
17.0 - 17.9	2	.	1	.	.	.	.	13	51	10	6	.	83
18.0 - 18.9	3	4	2	.	.	.	.	12	23	1	3	3	51
19.0 - 19.9	.	6	2	.	.	.	.	3	20	2	2	1	36
20.0 - LONGER	.	.	9	.	.	.	.	5	20	.	3	.	37
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 85

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	140	232	167	116	90	55	30	65	110	110	138	130	1383
11.25 - 33.74 (22.5)	69	118	128	73	98	72	14	69	72	148	86	78	1025
33.75 - 56.24 (45.0)	80	81	80	70	95	47	6	37	86	175	117	55	929
56.25 - 78.74 (67.5)	50	63	61	73	58	22	3	49	69	88	119	44	699
78.75 - 101.24 (90.0)	85	71	104	86	66	22	9	62	75	50	80	83	793
101.25 - 123.74 (112.5)	71	59	69	111	54	43	17	33	103	94	84	55	793
123.75 - 146.24 (135.0)	162	154	211	318	406	192	190	416	447	583	282	168	3529
146.25 - 168.74 (157.5)	727	586	819	867	899	675	486	874	1174	923	712	663	9405
168.75 - 191.24 (180.0)	884	778	1116	1182	1216	1200	1441	1124	867	619	722	699	11848
191.25 - 213.74 (202.5)	427	478	613	563	768	1109	1308	970	546	418	482	655	8337
213.75 - 236.24 (225.0)	224	227	191	171	254	390	424	326	306	275	294	294	3376
236.25 - 258.74 (247.5)	154	147	90	94	98	167	136	153	141	227	188	222	1817
258.75 - 281.24 (270.0)	434	207	224	179	131	132	173	78	100	264	352	400	2674
281.25 - 303.74 (292.5)	357	223	258	164	85	92	99	78	79	210	253	334	2232
303.75 - 326.24 (315.0)	391	370	198	136	93	57	75	65	74	154	270	371	2254
326.25 - 348.74 (337.5)	209	278	135	117	53	45	53	65	71	126	141	213	1506
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 85 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1230										1230
1.00 - 1.99	830	382									1212
2.00 - 2.99		154									154
3.00 - 3.99		10	1								11
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2060	546	1	0	0	0	0	0	0	0	2607

STATION: 85 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	574										574
1.00 - 1.99	682	430									1112
2.00 - 2.99		104									104
3.00 - 3.99		10									10
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1256	544	0	0	0	0	0	0	0	0	1800

STATION: 85 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	474										474
1.00 - 1.99	184	615	1								800
2.00 - 2.99		163	4								167
3.00 - 3.99		1	9								10
4.00 - 4.99			1								1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	658	779	15	0	0	0	0	0	0	0	1452

STATION: 85 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	437	866	1669	1491	735	361	70	25	20	3	5677
1.00 - 1.99	77	745	487	436	450	296	102	3			2596
2.00 - 2.99		137	227	71	92	62	14				603
3.00 - 3.99			75	67	37	21	3				203
4.00 - 4.99			3	36	23	5	1				68
5.00 - 5.99				4	6	6					16
6.00 - 6.99					2						2
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	514	1748	2461	2105	1345	751	190	28	20	3	9165

STATION: 85 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	746	2738	3478	1048	255	58	39	22	10	4	8398
1.00 - 1.99	128	1934	3599	2206	659	195	82	50	16	1	8870
2.00 - 2.99		150	811	1137	637	145	73	18	6	1	2978
3.00 - 3.99			106	323	386	99	20	11	6	1	952
4.00 - 4.99				69	168	95	9	4	5		350
5.00 - 5.99				5	57	52	8	1			123
6.00 - 6.99					13	24	5				42
7.00 - 7.99					3	7	2				12
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	874	4822	7994	4788	2178	675	238	106	43	7	21725

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 85 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1027	1144	177	.	.	.	.	.	.	.	2348
1.00 - 1.99	125	2525	688	23	.	.	.	.	.	.	3361
2.00 - 2.99	.	192	730	96	1	.	.	.	.	.	1019
3.00 - 3.99	.	.	89	139	12	.	.	.	.	.	240
4.00 - 4.99	.	.	.	22	15	.	.	.	.	.	37
5.00 - 5.99	.	.	.	2	4	.	.	.	.	.	6
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1152	3861	1684	282	32	0	0	0	0	0	7011

STATION: 85 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	999	96	.	.	.	.	.	.	.	.	1095
1.00 - 1.99	194	2070	7	.	.	.	.	.	.	.	2271
2.00 - 2.99	.	904	160	.	.	.	.	.	.	.	1064
3.00 - 3.99	.	3	141	3	.	.	.	.	.	.	147
4.00 - 4.99	.	.	8	.	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1193	3073	316	3	0	0	0	0	0	0	4585

STATION: 85 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1177	.	.	.	.	.	.	.	.	.	1177
1.00 - 1.99	1268	1133	.	.	.	.	.	.	.	.	2401
2.00 - 2.99	.	626	1	.	.	.	.	.	.	.	627
3.00 - 3.99	.	40	9	.	.	.	.	.	.	.	49
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2445	1799	11	0	0	0	0	0	0	0	4255

STATION: 85 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6664	4844	5324	2539	990	419	109	47	30	7	20973
1.00 - 1.99	3488	9834	4782	2665	1109	491	184	53	16	1	22623
2.00 - 2.99	.	2430	1933	1304	730	207	87	18	6	1	6716
3.00 - 3.99	.	64	430	532	435	120	23	11	6	1	1622
4.00 - 4.99	.	.	13	127	206	100	10	4	5	.	465
5.00 - 5.99	.	.	.	11	67	58	8	1	.	.	145
6.00 - 6.99	.	.	.	.	15	24	5	.	.	.	44
7.00 - 7.99	.	.	.	.	3	7	2	.	.	.	12
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10152	17172	12482	7178	3555	1426	428	134	63	10	52600

STATION: 85

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	71	60	97	168	276	289	470	559	435	210	86	71	2792
2.50 - 4.99	815	665	919	1169	1752	1878	2327	2298	1898	1356	893	761	16731
5.00 - 7.49	656	725	774	945	1092	1132	1069	1033	945	979	870	833	11053
7.50 - 9.99	1169	1111	1194	1164	956	829	502	477	777	1241	1264	1189	11873
10.00 - 12.49	612	648	618	408	242	142	74	69	191	385	589	664	4642
12.50 - 14.99	639	495	499	343	106	48	20	20	69	213	429	536	3417
15.00 - 17.49	233	162	163	79	28	2	2	4	3	47	98	170	991
17.50 - 19.99	169	127	142	42	12	.	.	2	1	23	61	169	748
20.00 - GREATER	100	79	58	2	.	.	.	2	1	10	30	71	353
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.75 W, DEPTH: 18 M

STATION: 85

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	596	733	744	559	394	374	290	469	572	516	474	570	6291
22.50 - 67.49 (45.0)	340	356	400	416	471	228	222	337	509	579	406	271	4535
67.50 - 112.49 (90.0)	262	238	344	325	346	214	197	296	385	312	308	237	3464
112.50 - 157.49 (135.0)	251	267	290	428	405	227	347	353	309	363	297	249	3786
157.50 - 202.49 (180.0)	341	246	501	543	665	619	633	592	535	531	445	374	6025
202.50 - 247.49 (225.0)	479	517	568	607	897	1186	1295	1161	791	609	624	585	9319
247.50 - 292.49 (270.0)	946	607	623	686	688	882	877	677	602	823	847	920	9178
292.50 - 337.49 (315.0)	1249	1108	994	756	598	590	603	579	617	731	919	1258	10002
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 85

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.89	2.21	1.85	1.33	1.76	1.32	1.04	1.24	0.92	1.62	1.73	1.78	1.56
1977	1.91	1.80	1.87	1.62	0.96	1.12	0.95	0.95	0.97	1.52	1.84	2.05	1.46
1978	2.51	1.20	1.72	1.57	1.63	1.16	1.03	0.88	1.05	1.23	1.35	1.90	1.44
1979	2.24	2.00	1.90	1.51	1.38	0.88	0.96	0.94	1.25	1.35	1.45	1.87	1.47
1980	2.05	1.42	2.28	1.72	1.04	1.24	1.17	0.98	1.20	1.52	1.80	1.76	1.51
1981	1.45	2.39	1.84	2.09	1.41	1.11	1.01	0.71	1.28	1.23	1.42	1.59	1.45
1982	1.84	1.45	1.15	1.63	0.69	1.02	0.65	0.73	0.87	0.77	1.22	1.15	1.09
1983	1.26	1.31	1.40	1.26	1.39	0.97	0.85	0.73	0.82	1.20	1.48	1.88	1.21
1984	1.16	1.71	1.82	1.43	1.55	1.13	1.26	0.60	0.80	1.08	1.39	1.34	1.27
1985	1.55	1.74	1.53	1.29	1.21	1.08	0.94	0.69	0.96	0.87	1.37	1.39	1.21
1986	2.07	1.18	1.82	1.29	1.13	1.25	0.82	0.91	0.98	1.02	1.22	1.71	1.29
1987	1.56	1.32	1.40	1.52	0.87	0.81	0.61	0.66	0.78	0.98	1.29	1.25	1.09
1988	1.28	1.57	1.33	1.17	1.01	1.07	1.09	0.91	0.89	1.14	1.45	1.25	1.18
1989	1.36	1.34	1.38	1.26	1.28	0.88	0.81	0.90	1.48	1.01	1.77	1.27	1.23
1990	1.47	1.76	1.31	1.35	1.19	1.27	1.12	0.84	0.94	1.39	1.34	1.56	1.29
1991	1.34	1.34	1.70	1.13	0.91	0.84	0.86	1.09	1.22	1.27	1.21	1.37	1.19
1992	1.54	1.33	1.71	0.95	0.86	0.96	0.79	0.85	0.88	0.95	1.15	1.50	1.12
1993	1.67	1.66	1.59	1.74	1.08	1.01	0.79	0.78	1.23	1.30	1.64	1.47	1.33
MEAN	1.67	1.60	1.64	1.44	1.19	1.06	0.93	0.85	1.03	1.19	1.45	1.56	

STATION: 85

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	451018	611318	511319	29 816	491121	32 922	241018	581218	19 618	461017	34 728	38 921	611318
1977	531117	521116	441015	451219	25 823	27 6 8	361020	22 822	341021	41 916	551316	541116	551316
1978	781417	451115	481115	471016	521119	34 920	30 813	30 819	29 821	331019	481017	451120	781417
1979	661316	491418	561319	501317	351018	20 625	21 715	26 722	36 919	471121	491119	371021	661316
1980	631617	341315	601317	441117	27 719	27 723	20 723	24 723	24 629	751317	42 916	421119	751317
1981	37 921	741519	571320	541320	23 626	35 920	26 820	18 619	331617	29 726	33 823	481218	741519
1982	571221	381120	33 727	461019	19 722	401016	15 624	18 719	231316	211118	291018	23 722	571221
1983	27 727	30 917	341015	351217	421119	23 819	23 533	18 626	23 820	431022	481219	591216	591216
1984	291217	461016	651316	521216	38 921	281316	30 919	12 715	211219	581618	32 918	29 921	651316
1985	371119	581217	431019	521319	34 922	30 920	29 820	18 616	611218	21 625	441216	38 828	611218
1986	481015	21 533	571220	321315	24 722	35 822	20 623	351019	421120	21 531	37 915	741216	741216
1987	39 914	33 736	681318	551318	20 627	17 621	20 623	18 622	22 6 8	23 628	27 819	29 920	681318
1988	27 727	451015	32 918	24 820	191018	23 919	28 919	24 715	21 723	30 714	33 727	30 921	451015
1989	29 635	391217	34 822	32 813	30 816	17 919	21 622	261216	462017	27 714	421018	31 728	462017
1990	371118	391119	321118	36 919	331018	31 919	28 921	271617	19 623	29 819	401118	39 916	401118
1991	35 915	301217	431318	26 816	24 716	21 723	17 918	721319	411817	271316	251019	35 727	721319
1992	451218	311218	40 914	23 628	19 820	22 612	19 619	22 619	23 719	25 823	32 819	501216	501216
1993	511318	361215	791419	441018	21 722	22 616	19 618	281318	351419	311014	681217	511119	791419
MAX	781417	741519	791419	551318	521119	401016	361020	721319	611218	751317	681217	741216	

MAX Hmo(m): 7.9 MAX Tp(sec): 14. MAX Dp(deg): 187. DATE(gmt): 93031415

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 145. DATE(gmt): 91081918

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 86

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	126	143	198	280	290	243	418	781	670	453	215	179	3996
0.50 - 0.99	950	858	883	1144	1551	1826	2234	2256	1733	1435	1067	1010	16947
1.00 - 1.49	1206	1151	1169	1205	1499	1447	1271	1004	1091	1382	1250	1131	14806
1.50 - 1.99	740	800	900	744	662	513	399	289	486	643	743	812	7731
2.00 - 2.49	593	526	596	445	265	208	89	83	193	338	568	639	4543
2.50 - 2.99	368	247	309	231	81	59	41	27	76	100	274	383	2196
3.00 - 3.49	195	173	172	117	67	21	9	9	34	52	126	188	1163
3.50 - 3.99	124	85	92	66	24	3	3	6	20	25	38	68	554
4.00 - 4.49	69	32	66	46	15	.	.	2	8	16	17	20	291
4.50 - 4.99	38	24	36	24	8	.	.	5	5	9	9	21	177
5.00 - 5.49	26	12	20	17	2	.	.	2	1	3	7	9	99
5.50 - 5.99	12	10	14	1	.	.	.	.	3	2	2	1	45
6.00 - 6.49	11	6	3	.	.	.	.	1	.	3	2	1	26
6.50 - 6.99	4	2	3	.	.	.	.	.	.	2	2	1	15
7.00 - 7.49	.	2	.	.	.	.	.	1	.	1	.	1	5
7.50 - 7.99	2	1	1	.	.	.	.	.	.	.	.	.	4
8.00 - 8.49	.	.	2	.	.	.	.	.	.	.	.	.	2
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 86

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	157	142	165	161	175	157	167	312	271	252	174	154	2287
4.0 - 4.9	757	787	634	644	608	507	523	586	738	864	797	769	8214
5.0 - 5.9	796	839	690	548	548	708	882	858	569	757	849	821	8865
6.0 - 6.9	608	443	461	489	761	875	940	956	566	719	574	674	8066
7.0 - 7.9	471	347	416	570	777	828	919	747	513	488	541	437	7054
8.0 - 8.9	351	356	461	496	703	667	652	422	386	409	395	409	5707
9.0 - 9.9	280	306	394	496	463	338	257	189	285	347	348	383	4086
10.0 - 10.9	291	249	369	329	251	143	78	105	192	223	286	266	2782
11.0 - 11.9	259	233	331	285	84	58	40	88	153	164	142	203	2040
12.0 - 12.9	218	171	294	185	57	25	6	61	121	100	86	130	1454
13.0 - 13.9	152	98	120	94	21	13	.	38	117	62	44	139	898
14.0 - 14.9	71	55	87	12	5	1	.	27	120	26	41	60	505
15.0 - 15.9	31	30	25	10	8	.	.	24	98	24	23	16	289
16.0 - 16.9	17	6	3	.	3	.	.	19	75	13	5	.	141
17.0 - 17.9	2	.	1	.	.	.	.	13	50	13	4	.	83
18.0 - 18.9	3	4	2	.	.	.	.	12	23	2	5	3	54
19.0 - 19.9	.	6	2	1	.	.	.	3	22	1	3	.	38
20.0 - LONGER	.	.	9	.	.	.	.	4	21	.	3	.	37
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 86

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	141	231	169	127	88	63	25	67	124	118	145	126	1424
11.25 - 33.74 (22.5)	86	114	139	83	106	66	16	64	78	155	100	80	1087
33.75 - 56.24 (45.0)	67	90	69	75	94	44	2	42	81	172	115	64	915
56.25 - 78.74 (67.5)	55	60	71	71	60	18	4	48	73	94	117	50	721
78.75 - 101.24 (90.0)	74	62	79	70	61	22	8	47	62	46	81	67	679
101.25 - 123.74 (112.5)	64	65	78	98	85	49	10	40	96	104	91	57	837
123.75 - 146.24 (135.0)	141	108	160	255	250	130	149	273	345	425	199	130	2565
146.25 - 168.74 (157.5)	627	525	747	762	852	602	412	841	1115	897	672	606	8658
168.75 - 191.24 (180.0)	908	787	1100	1233	1234	1204	1389	1185	913	690	707	708	12058
191.25 - 213.74 (202.5)	476	509	682	629	869	1208	1462	1049	607	408	518	670	9087
213.75 - 236.24 (225.0)	236	252	198	204	282	409	457	375	346	317	325	313	3714
236.25 - 258.74 (247.5)	167	161	108	107	109	178	137	153	159	240	206	265	1990
258.75 - 281.24 (270.0)	475	234	260	188	143	135	174	79	100	281	389	404	2862
281.25 - 303.74 (292.5)	348	223	259	167	89	86	97	74	76	237	238	335	2229
303.75 - 326.24 (315.0)	380	370	204	136	85	54	75	63	78	147	267	364	2223
326.25 - 348.74 (337.5)	219	281	141	115	57	52	47	64	67	133	150	225	1551
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 86 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1250										1250
1.00 - 1.99	855	397									1252
2.00 - 2.99		171									171
3.00 - 3.99		10	1								11
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2105	578	1	0	0	0	0	0	0	0	2684

STATION: 86 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	559										559
1.00 - 1.99	703	463									1166
2.00 - 2.99		109									109
3.00 - 3.99		9									9
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1262	581	0	0	0	0	0	0	0	0	1843

STATION: 86 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	465			5	24						494
1.00 - 1.99	418	332	1								751
2.00 - 2.99		69	2								71
3.00 - 3.99		2	2								4
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	883	403	5	5	24	0	0	0	0	0	1320

STATION: 86 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	457	769	1272	1290	634	346	70	22	20	3	4883
1.00 - 1.99	90	633	299	300	313	238	83	3	1		1960
2.00 - 2.99		130	173	49	67	45	7				471
3.00 - 3.99			65	33	20	15	4				137
4.00 - 4.99			3	28	12	1					44
5.00 - 5.99				4		2					6
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	547	1532	1812	1704	1046	647	164	25	21	3	7501

STATION: 86 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	765	2850	3626	1073	353	80	47	24	12	4	8834
1.00 - 1.99	128	1965	3683	2257	749	255	106	54	15	1	9213
2.00 - 2.99		150	797	1096	628	132	71	16	6		2896
3.00 - 3.99			104	303	389	114	18	11	6	2	947
4.00 - 4.99			1	79	157	93	11	5	5		351
5.00 - 5.99				2	69	50	7	2			130
6.00 - 6.99					14	23	4				41
7.00 - 7.99					2	6	1				9
8.00 - 8.99						1	1				2
9.00 - GREATER											0
TOTAL	893	4965	8211	4810	2361	754	266	112	44	7	22423

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N LONG: 70.50 W DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 86 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1072	1320	224	1	.	.	.	.	.	.	2617
1.00 - 1.99	117	2632	877	35	.	.	.	.	.	.	3661
2.00 - 2.99	.	156	856	127	.	.	.	.	.	.	1139
3.00 - 3.99	.	.	97	150	34	.	.	.	.	.	281
4.00 - 4.99	.	.	2	31	23	1	.	.	.	.	57
5.00 - 5.99	.	.	.	1	6	1	.	.	.	.	8
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1189	4108	2056	345	63	2	0	0	0	0	7763

STATION: 86 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	987	136	.	.	.	.	.	.	.	.	1123
1.00 - 1.99	159	1916	13	.	.	.	.	.	.	.	2088
2.00 - 2.99	.	889	363	.	.	.	.	.	.	.	1252
3.00 - 3.99	.	2	273	1	.	.	.	.	.	.	276
4.00 - 4.99	.	.	12	3	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1146	2943	661	4	0	0	0	0	0	0	4754

STATION: 86 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1181	2	.	.	.	.	.	.	.	.	1183
1.00 - 1.99	1295	1151	.	.	.	.	.	.	.	.	2446
2.00 - 2.99	.	628	2	.	.	.	.	.	.	.	630
3.00 - 3.99	.	40	12	.	.	.	.	.	.	.	52
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2476	1821	15	0	0	0	0	0	0	0	4312

STATION: 86 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	6736	5077	5122	2369	1011	426	117	46	32	7	20943
1.00 - 1.99	3765	9489	4873	2592	1062	493	189	57	16	1	22537
2.00 - 2.99	.	2302	2193	1272	695	177	78	16	6	.	6739
3.00 - 3.99	.	63	554	487	443	129	22	11	6	2	1717
4.00 - 4.99	.	.	19	141	192	95	11	5	5	.	468
5.00 - 5.99	.	.	.	7	75	53	7	2	.	.	144
6.00 - 6.99	.	.	.	.	14	23	4	.	.	.	41
7.00 - 7.99	.	.	.	.	2	6	1	.	.	.	9
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10501	16931	12761	6868	3494	1403	430	137	65	10	52600

STATION: 86

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	75	65	103	177	293	286	473	567	448	206	98	80	2871
2.50 - 4.99	822	658	907	1169	1737	1877	2306	2272	1891	1351	877	761	16628
5.00 - 7.49	637	718	787	926	1062	1126	1081	1046	931	981	859	796	10950
7.50 - 9.99	1165	1107	1187	1153	981	824	508	478	781	1224	1268	1206	11882
10.00 - 12.49	601	642	600	422	240	153	74	70	192	402	595	647	4638
12.50 - 14.99	641	512	506	339	107	52	20	23	72	216	435	547	3470
15.00 - 17.49	249	156	169	85	32	2	2	4	3	50	96	177	1025
17.50 - 19.99	168	132	143	47	11	.	.	3	1	24	60	175	764
20.00 - GREATER	106	82	62	2	1	.	.	1	1	10	32	75	372
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.50 W, DEPTH: 18 M

STATION: 86

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	598	729	739	548	403	371	288	468	593	524	471	567	6299
22.50 - 67.49 (45.0)	340	353	400	436	473	225	213	330	489	573	417	276	4525
67.50 - 112.49 (90.0)	265	235	347	325	346	225	201	289	401	314	304	235	3487
112.50 - 157.49 (135.0)	247	265	292	414	416	215	345	360	310	361	299	246	3770
157.50 - 202.49 (180.0)	342	256	495	545	657	619	651	597	518	546	447	389	6062
202.50 - 247.49 (225.0)	480	511	561	608	885	1215	1298	1168	803	603	638	579	9349
247.50 - 292.49 (270.0)	945	607	637	695	709	877	883	674	592	824	825	904	9172
292.50 - 337.49 (315.0)	1247	1116	993	749	575	573	585	578	614	719	919	1268	9936
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 86

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.91	2.24	1.83	1.34	1.78	1.34	1.05	1.22	0.91	1.64	1.77	1.80	1.57
1977	1.94	1.83	1.89	1.62	0.98	1.12	0.97	0.97	0.95	1.50	1.79	2.04	1.47
1978	2.53	1.19	1.71	1.58	1.60	1.15	1.04	0.88	1.06	1.22	1.34	1.94	1.44
1979	2.24	1.99	1.88	1.48	1.37	0.90	0.96	0.94	1.24	1.38	1.46	1.89	1.47
1980	2.08	1.43	2.30	1.69	1.05	1.28	1.20	0.99	1.21	1.54	1.82	1.76	1.53
1981	1.47	2.35	1.87	2.11	1.40	1.13	1.02	0.70	1.26	1.25	1.44	1.62	1.46
1982	1.88	1.47	1.17	1.66	0.68	1.02	0.67	0.74	0.85	0.74	1.21	1.16	1.10
1983	1.24	1.28	1.34	1.22	1.38	0.96	0.85	0.73	0.82	1.18	1.48	1.86	1.20
1984	1.15	1.68	1.79	1.42	1.57	1.12	1.29	0.59	0.79	1.03	1.38	1.35	1.26
1985	1.57	1.73	1.54	1.27	1.21	1.09	0.95	0.69	0.95	0.88	1.32	1.40	1.21
1986	2.09	1.18	1.81	1.25	1.15	1.27	0.83	0.93	0.97	1.01	1.20	1.70	1.28
1987	1.55	1.34	1.39	1.47	0.85	0.82	0.62	0.65	0.75	0.97	1.28	1.25	1.08
1988	1.30	1.57	1.34	1.19	1.00	1.08	1.09	0.92	0.88	1.12	1.47	1.26	1.18
1989	1.36	1.34	1.35	1.26	1.25	0.88	0.81	0.88	1.46	1.00	1.78	1.31	1.22
1990	1.50	1.77	1.29	1.32	1.18	1.26	1.12	0.81	0.91	1.37	1.38	1.59	1.29
1991	1.35	1.36	1.69	1.13	0.92	0.85	0.86	1.10	1.22	1.25	1.22	1.39	1.20
1992	1.54	1.33	1.71	0.95	0.84	0.96	0.81	0.86	0.87	0.96	1.16	1.50	1.13
1993	1.69	1.68	1.58	1.74	1.09	1.04	0.80	0.77	1.24	1.29	1.65	1.48	1.33
MEAN	1.69	1.60	1.64	1.43	1.18	1.07	0.94	0.85	1.02	1.19	1.45	1.57	

STATION: 86

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	451018	641318	511320	29 816	491221	32 922	241019	501118	19 618	461017	37 828	39 921	641318
1977	541219	521117	451015	471219	25 725	23 816	361020	22 822	361022	411017	501316	521116	541219
1978	781418	411115	481014	471016	511219	34 920	30 813	29 819	30 821	371019	471018	481219	781418
1979	681216	481418	561319	511218	341118	22 625	20 627	27 723	36 919	461023	481119	39 826	681216
1980	641219	341315	611318	431117	26 819	28 723	20 723	23 625	26 727	741317	411017	441120	741317
1981	37 921	751519	561320	521320	24 627	35 821	27 820	17 621	331617	32 727	34 725	481218	751519
1982	561221	411019	35 825	451019	19 722	381016	15 624	18 719	231316	201119	301018	23 722	561221
1983	29 728	28 917	301216	351218	431120	24 819	23 533	19 628	22 719	431022	501219	541216	541216
1984	281218	451017	601317	551217	37 921	271316	30 919	12 716	211219	541718	32 918	31 725	601317
1985	39 827	581217	461019	531219	341021	29 920	29 820	18 616	591218	22 627	391216	39 828	591218
1986	481016	22 628	561221	331316	24 6 1	34 822	20 623	351019	421121	22 725	36 814	721217	721217
1987	391117	33 735	661319	541318	23 627	17 622	20 722	17 621	18 5 7	25 726	29 725	30 727	661319
1988	29 728	441116	321018	24 725	211018	24 919	28 920	25 715	22 723	28 915	35 728	30 921	441116
1989	29 635	391217	35 823	331118	31 817	17 919	21 622	251216	472017	24 714	411018	33 825	472017
1990	381118	391518	331118	371019	331018	31 919	28 922	271617	20 627	29 719	411118	39 916	411118
1991	35 713	311218	441318	26 617	24 717	22 723	18 918	711219	421817	281317	251019	37 727	711219
1992	461318	321218	40 914	24 726	19 820	21 613	19 619	22 719	24 719	25 823	33 819	461216	461216
1993	551318	36 728	821419	441018	21 628	22 622	19 718	241318	351419	31 823	681217	541120	821419
MAX	781418	751519	821419	551217	511219	381016	361020	711219	591218	741317	681217	721217	

MAX Hmo(m): 8.2 MAX Tp(sec): 14. MAX Dp(deg): 191. DATE(gmt): 93031415

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 135. DATE(gmt): 91081918

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.25 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 87

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	152	166	221	329	342	277	436	856	777	549	269	193	4567
0.50 - 0.99	1012	901	967	1232	1661	1815	2236	2235	1754	1473	1130	1044	17460
1.00 - 1.49	1196	1145	1169	1167	1369	1417	1248	974	1056	1319	1188	1149	14397
1.50 - 1.99	699	783	867	716	648	510	389	272	423	624	710	764	7405
2.00 - 2.49	552	505	554	400	246	223	101	82	170	287	522	633	4275
2.50 - 2.99	371	260	303	211	91	56	40	23	81	94	283	375	2188
3.00 - 3.49	210	152	151	121	61	19	11	7	30	53	138	187	1140
3.50 - 3.99	115	77	99	76	22	3	3	6	20	31	47	72	571
4.00 - 4.49	70	32	62	33	17	.	.	3	3	20	19	20	279
4.50 - 4.99	34	20	30	24	5	.	.	3	2	5	7	18	148
5.00 - 5.49	26	13	22	11	2	.	.	1	2	1	3	5	86
5.50 - 5.99	13	8	13	.	.	.	.	.	2	5	2	2	45
6.00 - 6.49	11	6	1	.	.	.	.	1	.	2	2	1	24
6.50 - 6.99	1	3	2	.	.	.	.	1	.	1	.	1	9
7.00 - 7.49	1	1	.	.	.	.	.	.	.	.	.	.	2
7.50 - 7.99	1	.	1	.	.	.	.	.	.	.	.	.	2
8.00 - 8.49	.	.	1	.	.	.	.	.	.	.	.	.	1
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 87

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	214	182	215	224	263	201	163	378	398	336	286	205	3065
4.0 - 4.9	776	818	672	643	559	488	565	574	770	934	792	824	8415
5.0 - 5.9	781	799	639	550	578	715	888	916	543	744	848	801	8802
6.0 - 6.9	574	453	502	522	803	909	957	966	558	702	524	649	8119
7.0 - 7.9	556	390	446	623	794	876	927	742	509	535	637	509	7544
8.0 - 8.9	395	365	471	479	663	623	611	396	371	387	383	438	5582
9.0 - 9.9	268	289	397	444	427	305	239	149	255	297	328	331	3729
10.0 - 10.9	252	235	363	320	228	126	72	92	181	183	233	257	2542
11.0 - 11.9	204	219	284	268	78	51	33	69	125	136	105	170	1742
12.0 - 12.9	200	149	258	154	42	17	9	52	114	91	78	117	1281
13.0 - 13.9	143	89	107	80	19	9	.	36	106	51	36	101	777
14.0 - 14.9	59	43	71	3	3	.	.	24	114	19	34	47	417
15.0 - 15.9	23	29	26	10	4	.	.	21	88	20	21	12	254
16.0 - 16.9	15	3	3	.	2	.	.	17	73	11	3	1	128
17.0 - 17.9	2	.	1	.	1	.	.	12	51	16	5	.	88
18.0 - 18.9	2	4	1	.	.	.	.	13	22	2	3	2	49
19.0 - 19.9	.	5	.	.	.	.	.	3	20	.	2	.	30
20.0 - LONGER	.	.	8	.	.	.	.	4	22	.	2	.	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 87

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	166	247	190	162	108	75	23	77	124	134	171	134	1611
11.25 - 33.74 (22.5)	98	123	146	106	134	65	17	68	98	212	119	107	1293
33.75 - 56.24 (45.0)	67	82	63	62	72	45	7	40	97	143	120	47	845
56.25 - 78.74 (67.5)	59	77	80	88	60	22	3	48	70	94	114	74	789
78.75 - 101.24 (90.0)	69	43	63	54	77	28	3	41	84	59	67	53	641
101.25 - 123.74 (112.5)	40	38	38	33	32	16	6	24	68	74	57	35	461
123.75 - 146.24 (135.0)	72	64	76	161	122	34	66	128	133	208	122	86	1272
146.25 - 168.74 (157.5)	394	307	453	480	669	431	274	639	824	684	514	349	6018
168.75 - 191.24 (180.0)	842	767	1029	1209	1160	1099	1140	1256	1142	861	645	673	11823
191.25 - 213.74 (202.5)	666	665	979	899	1134	1498	1878	1241	698	478	643	782	11561
213.75 - 236.24 (225.0)	309	292	270	282	360	468	507	452	431	377	394	398	4540
236.25 - 258.74 (247.5)	197	183	134	120	139	198	168	167	182	265	268	294	2315
258.75 - 281.24 (270.0)	515	267	293	212	145	136	159	77	100	316	397	450	3067
281.25 - 303.74 (292.5)	357	220	272	164	92	93	100	78	85	255	234	344	2294
303.75 - 326.24 (315.0)	392	389	214	159	92	58	71	65	91	150	286	387	2354
326.25 - 348.74 (337.5)	221	308	164	129	68	54	42	63	93	154	169	251	1716
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 87 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1409										1409
1.00 - 1.99	959	512									1471
2.00 - 2.99		212									212
3.00 - 3.99		13	1								14
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2368	737	1	0	0	0	0	0	0	0	3106

STATION: 87 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	610										610
1.00 - 1.99	670	437									1107
2.00 - 2.99		118									118
3.00 - 3.99		11	1								12
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1280	566	1	0	0	0	0	0	0	0	1847

STATION: 87 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	698			60	92	60	31	22	15	2	980
1.00 - 1.99	238	31									269
2.00 - 2.99		9									9
3.00 - 3.99											0
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	936	40	0	60	92	60	31	22	15	2	1258

STATION: 87 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	497	522	408	455	317	195	15				2409
1.00 - 1.99	122	429	53	60	97	67	20	2			850
2.00 - 2.99		107	66	15	16	17	1				222
3.00 - 3.99		4	42	11	5	2	1				65
4.00 - 4.99			3	13	2						18
5.00 - 5.99				2		1					3
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	619	1062	572	556	437	282	37	2	0	0	3567

STATION: 87 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	914	3197	4217	1588	476	177	68	31	17	4	10689
1.00 - 1.99	158	1906	3454	2092	731	300	166	51	11	1	8870
2.00 - 2.99		166	724	912	578	112	47	21	4	2	2566
3.00 - 3.99			120	193	325	113	16	6	10		783
4.00 - 4.99			1	74	81	73	6	3			238
5.00 - 5.99				6	39	43	7	1			96
6.00 - 6.99					11	20	2				33
7.00 - 7.99						3	1				4
8.00 - 8.99						1	1				2
9.00 - GREATER											0
TOTAL	1072	5269	8516	4865	2241	842	314	113	42	7	23281

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 87 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1227	1641	452	41	8	1	.	.	.	.	3370
1.00 - 1.99	115	2791	1325	200	41	.	.	.	.	.	4472
2.00 - 2.99	.	145	1016	263	32	1	.	.	.	.	1457
3.00 - 3.99	.	.	117	232	69	.	.	.	.	.	418
4.00 - 4.99	.	.	6	39	76	5	.	.	.	.	126
5.00 - 5.99	.	.	.	.	27	3	.	.	.	.	30
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1342	4577	2916	775	253	10	0	0	0	0	9873

STATION: 87 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1074	192	.	.	.	.	.	.	.	.	1266
1.00 - 1.99	172	2022	17	.	.	.	.	.	.	.	2211
2.00 - 2.99	.	547	688	1	.	.	.	.	.	.	1236
3.00 - 3.99	.	2	363	2	.	.	.	.	.	.	367
4.00 - 4.99	.	.	33	10	.	.	.	.	.	.	43
5.00 - 5.99	.	.	.	2	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1246	2763	1101	15	0	0	0	0	0	0	5125

STATION: 87 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1292	2	.	.	.	.	.	.	.	.	1294
1.00 - 1.99	1325	1226	1	.	.	.	.	.	.	.	2552
2.00 - 2.99	.	641	2	.	.	.	.	.	.	.	643
3.00 - 3.99	.	38	14	.	.	.	.	.	.	.	52
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2617	1907	19	0	0	0	0	0	0	0	4543

STATION: 87 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	7721	5554	5077	2144	893	433	114	53	32	6	22027
1.00 - 1.99	3759	9354	4850	2352	869	367	186	53	11	1	21802
2.00 - 2.99	.	1945	2496	1191	626	130	48	21	4	2	6463
3.00 - 3.99	.	68	658	438	399	115	17	6	10	.	1711
4.00 - 4.99	.	.	45	136	159	78	6	3	.	.	427
5.00 - 5.99	.	.	.	10	66	47	7	1	.	.	131
6.00 - 6.99	.	.	.	.	11	20	2	.	.	.	33
7.00 - 7.99	.	.	.	.	.	3	1	.	.	.	4
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11480	16921	13126	6271	3023	1194	382	137	57	9	52600

STATION: 87

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	92	73	112	187	313	294	494	573	459	212	109	93	3011
2.50 - 4.99	808	653	914	1176	1702	1864	2276	2264	1890	1348	857	758	16510
5.00 - 7.49	649	712	768	923	1072	1137	1082	1050	900	958	852	781	10884
7.50 - 9.99	1129	1097	1148	1115	981	800	511	473	790	1225	1276	1187	11732
10.00 - 12.49	595	636	619	436	231	166	78	69	199	412	579	645	4665
12.50 - 14.99	641	517	520	341	120	56	22	27	78	217	448	563	3550
15.00 - 17.49	272	169	173	85	31	2	1	4	1	54	101	169	1062
17.50 - 19.99	169	125	144	53	13	1	.	1	2	29	64	181	782
20.00 - GREATER	109	90	66	4	1	.	.	3	1	9	34	87	404
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 70.25 W, DEPTH: 18 M

STATION: 87

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	613	726	735	551	403	377	291	466	607	540	480	580	6369
22.50 - 67.49 (45.0)	339	363	414	442	485	216	212	334	489	569	424	279	4566
67.50 - 112.49 (90.0)	275	224	338	318	337	231	195	284	409	316	301	228	3456
112.50 - 157.49 (135.0)	246	267	293	418	414	214	339	363	307	360	300	247	3768
157.50 - 202.49 (180.0)	340	265	494	546	672	632	677	622	518	543	445	386	6140
202.50 - 247.49 (225.0)	471	498	557	615	874	1212	1296	1156	807	605	645	578	9314
247.50 - 292.49 (270.0)	931	610	641	687	719	878	886	676	571	809	810	899	9117
292.50 - 337.49 (315.0)	1249	1119	992	743	560	560	568	563	612	722	915	1267	9870
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 87

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.89	2.25	1.77	1.33	1.76	1.36	1.06	1.17	0.89	1.61	1.79	1.79	1.55
1977	1.94	1.83	1.90	1.60	1.00	1.10	0.98	0.98	0.88	1.45	1.65	1.97	1.44
1978	2.45	1.13	1.65	1.56	1.52	1.14	1.03	0.87	1.02	1.19	1.29	1.96	1.40
1979	2.17	1.93	1.81	1.42	1.30	0.88	0.94	0.92	1.18	1.37	1.44	1.87	1.43
1980	2.02	1.42	2.27	1.62	1.04	1.30	1.22	0.97	1.16	1.51	1.84	1.71	1.51
1981	1.48	2.24	1.87	2.11	1.35	1.15	1.01	0.68	1.16	1.24	1.42	1.62	1.44
1982	1.90	1.47	1.16	1.65	0.65	0.98	0.68	0.74	0.80	0.69	1.17	1.16	1.08
1983	1.18	1.23	1.24	1.15	1.34	0.93	0.84	0.73	0.80	1.12	1.44	1.78	1.15
1984	1.10	1.61	1.67	1.36	1.56	1.08	1.29	0.56	0.75	0.96	1.35	1.33	1.22
1985	1.58	1.68	1.52	1.22	1.19	1.09	0.95	0.68	0.92	0.86	1.23	1.36	1.19
1986	2.05	1.16	1.75	1.17	1.14	1.26	0.83	0.93	0.91	0.99	1.16	1.62	1.25
1987	1.51	1.33	1.36	1.35	0.79	0.80	0.61	0.61	0.71	0.92	1.26	1.25	1.04
1988	1.27	1.53	1.33	1.18	0.95	1.07	1.08	0.91	0.82	1.09	1.46	1.27	1.16
1989	1.32	1.32	1.29	1.22	1.20	0.87	0.80	0.81	1.32	0.97	1.76	1.33	1.18
1990	1.51	1.75	1.25	1.25	1.14	1.22	1.11	0.74	0.85	1.29	1.40	1.58	1.25
1991	1.32	1.35	1.65	1.10	0.92	0.86	0.86	1.10	1.18	1.18	1.21	1.39	1.18
1992	1.49	1.30	1.65	0.93	0.79	0.96	0.82	0.85	0.86	0.96	1.15	1.45	1.10
1993	1.66	1.64	1.50	1.68	1.06	1.05	0.79	0.74	1.23	1.25	1.59	1.44	1.30
MEAN	1.66	1.57	1.59	1.38	1.15	1.06	0.94	0.83	0.97	1.15	1.42	1.55	

STATION: 87

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	461021	641319	511221	31 817	491122	33 922	241019	471118	20 618	451018	39 828	39 827	641319
1977	541220	501118	451016	471220	27 726	23 719	361021	22 822	371022	401018	421021	481218	541220
1978	771318	301115	471122	451118	501220	35 921	30 814	29 819	30 822	391119	471019	501220	771318
1979	631217	451419	561220	501318	321119	23 724	21 716	27 723	36 920	461023	481120	39 827	631217
1980	621220	33 7 3	591218	421118	26 719	28 724	20 724	23 724	28 728	681318	421121	441121	681318
1981	36 922	731520	561221	511321	23 627	35 822	28 819	18 721	35 824	34 826	34 726	491219	731520
1982	561223	401122	38 826	431019	18 722	36 813	15 624	17 720	20 821	19 5 3	31 919	23 723	561223
1983	29 728	28 725	28 725	331218	431121	25 819	23 533	19 628	21 719	431022	521221	49 927	521221
1984	28 727	43 915	441318	531218	371219	25 716	31 921	11 521	211220	471719	32 919	32 725	531218
1985	41 827	541217	461020	531220	35 922	29 921	30 821	18 617	591119	23 724	29 716	41 927	591119
1986	43 916	23 727	551221	301316	25 6 0	34 822	20 623	35 717	421121	22 824	36 816	651318	651318
1987	40 825	34 735	621320	521319	23 627	17 622	20 722	17 621	17 5 7	26 726	30 726	31 728	621320
1988	30 728	411116	331018	26 726	211118	24 920	27 920	25 717	22 723	27 725	36 825	31 922	411116
1989	29 635	361218	35 823	331119	31 817	17 920	20 722	201217	392018	26 726	391019	35 827	391019
1990	381119	421519	321119	381020	341019	31 820	28 922	241618	20 628	29 720	431119	38 918	431119
1991	35 825	31 726	421319	28 727	23 717	23 723	17 919	661220	361818	271317	26 725	39 827	661220
1992	461319	341219	421121	27 727	19 920	21 614	20 619	22 719	25 720	25 824	33 819	361217	461319
1993	551419	37 825	851420	421019	22 722	22 722	19 718	221219	351420	31 821	641318	551121	851420
MAX	771318	731520	851420	531220	501220	36 813	361021	661220	591119	681318	641318	651318	

MAX Hmo(m): 8.5 MAX Tp(sec): 14. MAX Dp(deg): 198. DATE(gmt): 93031415

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 320. DATE(gmt): 81031712

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N LONG: 70.00 W DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 88

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	43	36	51	88	48	53	155	375	267	169	89	55	1429
0.50 - 0.99	646	558	575	787	1009	1401	2030	2036	1437	1051	722	691	12943
1.00 - 1.49	846	804	847	1027	1563	1646	1521	1427	1169	1285	923	895	13953
1.50 - 1.99	893	929	902	867	1053	752	520	368	753	876	945	913	9771
2.00 - 2.49	622	694	800	629	435	307	152	143	396	548	661	643	6030
2.50 - 2.99	486	425	494	411	146	98	61	50	154	289	520	532	3666
3.00 - 3.49	332	233	282	230	99	50	22	31	68	112	229	328	2016
3.50 - 3.99	223	144	219	142	58	9	3	16	40	54	127	208	1243
4.00 - 4.49	139	95	113	52	29	3	.	7	13	46	64	97	658
4.50 - 4.99	107	52	81	41	19	1	.	8	8	17	16	35	385
5.00 - 5.49	49	45	41	25	3	.	.	.	5	6	12	38	224
5.50 - 5.99	26	28	25	16	1	.	.	1	6	4	7	18	132
6.00 - 6.49	22	16	19	5	1	.	.	1	4	2	1	7	78
6.50 - 6.99	10	5	8	.	.	.	.	1	.	3	3	3	33
7.00 - 7.49	7	5	1	.	.	.	.	.	.	1	1	1	16
7.50 - 7.99	5	3	3	.	.	.	.	.	.	1	.	.	12
8.00 - 8.49	2	.	.	.	.	.	.	.	.	.	.	.	2
8.50 - 8.99	3	.	1	.	.	.	.	.	.	.	.	.	4
9.00 - 9.49	2	.	1	.	.	.	.	.	.	.	.	.	3
9.50 - 9.99	1	.	1	.	.	.	.	.	.	.	.	.	2
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 88

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	39	21	32	28	20	26	42	106	68	46	54	39	521
4.0 - 4.9	202	235	139	149	168	212	361	350	334	250	199	252	2851
5.0 - 5.9	585	565	442	399	450	621	846	858	469	588	556	622	7001
6.0 - 6.9	699	680	547	542	728	866	999	1003	633	760	743	675	8875
7.0 - 7.9	644	575	571	591	973	939	969	887	708	692	694	688	8931
8.0 - 8.9	537	398	529	575	859	791	736	543	584	623	624	526	7325
9.0 - 9.9	366	396	501	620	580	512	318	246	392	480	447	451	5309
10.0 - 10.9	364	329	466	553	345	215	106	129	272	389	432	384	3984
11.0 - 11.9	315	315	407	386	154	82	57	104	171	301	228	230	2750
12.0 - 12.9	317	227	448	309	106	36	29	80	149	165	111	238	2215
13.0 - 13.9	199	151	194	132	33	19	1	49	145	84	87	233	1327
14.0 - 14.9	108	67	94	25	32	1	.	29	121	30	49	89	642
15.0 - 15.9	51	54	36	14	13	.	.	26	93	33	32	17	369
16.0 - 16.9	20	17	20	.	3	.	.	22	74	14	12	6	188
17.0 - 17.9	5	5	6	.	.	.	.	13	46	6	12	5	98
18.0 - 18.9	6	12	3	.	.	.	.	11	22	3	9	7	73
19.0 - 19.9	7	14	3	.	.	.	.	4	19	.	14	2	63
20.0 - LONGER	.	11	26	.	.	.	.	4	20	.	17	.	78
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 88

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	61	79	27	30	10	7	6	33	56	49	54	44	456
11.25 - 33.74 (22.5)	71	77	46	34	34	20	13	42	48	70	65	54	574
33.75 - 56.24 (45.0)	159	250	266	199	202	96	24	53	138	273	208	143	2011
56.25 - 78.74 (67.5)	226	274	323	282	222	100	19	148	204	285	275	242	2600
78.75 - 101.24 (90.0)	266	229	412	452	400	333	77	298	527	544	331	289	4158
101.25 - 123.74 (112.5)	355	262	386	448	424	137	187	340	461	495	396	308	4199
123.75 - 146.24 (135.0)	340	286	311	380	436	331	257	449	516	406	372	260	4344
146.25 - 168.74 (157.5)	302	276	327	397	441	391	352	469	503	445	231	251	4385
168.75 - 191.24 (180.0)	553	456	583	678	824	815	1009	988	670	398	462	464	7900
191.25 - 213.74 (202.5)	389	392	667	565	765	1191	1544	827	451	314	386	498	7989
213.75 - 236.24 (225.0)	277	305	230	205	339	489	508	478	352	295	353	364	4195
236.25 - 258.74 (247.5)	179	154	118	102	95	159	163	151	149	243	238	278	2029
258.75 - 281.24 (270.0)	436	221	249	171	94	107	143	47	72	230	349	393	2512
281.25 - 303.74 (292.5)	323	251	250	169	88	84	74	59	71	205	230	360	2164
303.75 - 326.24 (315.0)	390	376	210	145	58	31	75	38	63	133	269	378	2166
326.25 - 348.74 (337.5)	137	184	59	63	32	29	13	44	39	79	101	138	918
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 70.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 88 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	293	24	4								321
1.00 - 1.99	353	101	9	1							464
2.00 - 2.99	.	50	13	1							64
3.00 - 3.99	.	2	4								6
4.00 - 4.99	.	.									0
5.00 - 5.99	.	.									0
6.00 - 6.99	.	.									0
7.00 - 7.99	.	.									0
8.00 - 8.99	.	.									0
9.00 - GREATER	.	.									0
TOTAL	646	177	30	2	0	0	0	0	0	0	855

STATION: 88 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	144	187	255	112	95	40	42	19	19	.	913
1.00 - 1.99	71	482	372	311	39	54	24	18	13	.	1384
2.00 - 2.99	.	115	404	215	143	5	3	1	4	.	890
3.00 - 3.99	.	1	90	131	104	23	2	.	.	.	351
4.00 - 4.99	.	.	3	34	56	39	3	.	.	.	135
5.00 - 5.99	.	.	.	2	16	24	4	.	.	.	46
6.00 - 6.99	.	.	.	.	2	5	6	.	.	.	13
7.00 - 7.99	.	.	.	.	.	.	2	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	1	.	1	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	2	.	2
TOTAL	215	785	1124	805	455	190	87	38	39	0	3738

STATION: 88 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	156	323	607	770	609	142	26	4	8	4	2649
1.00 - 1.99	57	754	843	766	545	266	60	14	26	.	3331
2.00 - 2.99	.	106	402	273	134	76	37	7	17	.	1052
3.00 - 3.99	.	.	72	110	65	25	13	2	.	.	287
4.00 - 4.99	.	.	.	32	33	12	.	1	.	.	78
5.00 - 5.99	.	.	.	4	15	21	.	.	.	.	40
6.00 - 6.99	.	.	.	.	1	16	2	.	.	.	19
7.00 - 7.99	.	.	.	.	.	1	1	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	1	2	.	.	3
9.00 - GREATER	.	.	.	.	.	.	.	1	.	.	1
TOTAL	213	1183	1924	1955	1402	559	140	31	51	4	7462

STATION: 88 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	178	513	1083	828	307	63	24	6			3002
1.00 - 1.99	72	737	861	985	637	338	65	21	5	1	3722
2.00 - 2.99	.	86	309	286	301	200	77	18	.	.	1277
3.00 - 3.99	.	.	72	106	91	76	36	1	.	.	382
4.00 - 4.99	.	.	3	42	70	33	8	4	.	.	160
5.00 - 5.99	.	.	.	5	16	42	6	.	.	.	69
6.00 - 6.99	.	.	.	.	5	4	2	.	.	.	11
7.00 - 7.99	.	.	.	.	.	2	1	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	250	1336	2328	2252	1427	758	219	50	5	1	8626

STATION: 88 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	361	1610	1954	434	65	9	4	1	3	2	4443
1.00 - 1.99	135	1627	3071	1551	310	69	21	20	16	1	6821
2.00 - 2.99	.	159	691	956	433	76	37	11	3	.	2366
3.00 - 3.99	.	.	102	298	363	92	29	6	4	.	894
4.00 - 4.99	.	.	.	71	163	73	9	6	5	2	329
5.00 - 5.99	.	.	.	9	43	67	2	7	3	.	131
6.00 - 6.99	.	.	.	.	14	39	5	1	2	.	61
7.00 - 7.99	.	.	.	.	2	15	3	.	.	.	20
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	1	1	.	.	.	2
TOTAL	496	3396	5818	3319	1393	442	111	52	36	5	15068

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 70.00 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 88 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	600	1059	306	24	6	1	.	.	.	.	1996
1.00 - 1.99	103	2555	1435	175	31	2	.	.	.	.	4301
2.00 - 2.99	.	140	1024	320	25	1	.	.	.	.	1510
3.00 - 3.99	.	.	128	271	61	2	.	.	.	.	462
4.00 - 4.99	.	.	.	66	107	4	.	.	.	.	177
5.00 - 5.99	.	.	.	3	51	9	.	.	.	.	63
6.00 - 6.99	.	.	.	.	6	1	.	.	.	.	7
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	703	3754	2893	859	288	20	0	0	0	0	8517

STATION: 88 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	387	235	1	.	.	.	.	.	.	.	623
1.00 - 1.99	40	1552	109	.	.	.	.	.	.	.	1701
2.00 - 2.99	.	400	958	3	.	.	.	.	.	.	1361
3.00 - 3.99	.	2	539	11	.	.	.	.	.	.	552
4.00 - 4.99	.	.	39	79	.	.	.	.	.	.	118
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	427	2189	1646	97	0	0	0	0	0	0	4359

STATION: 88 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	338	86	1	.	.	.	.	.	.	.	425
1.00 - 1.99	84	1911	4	1	.	.	.	.	.	.	2000
2.00 - 2.99	.	1049	126	1	.	.	.	.	.	.	1176
3.00 - 3.99	.	10	315	.	.	.	.	.	.	.	325
4.00 - 4.99	.	.	46	.	.	.	.	.	.	.	46
5.00 - 5.99	.	.	1	2	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	422	3056	493	4	0	0	0	0	0	0	3975

STATION: 88 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2457	4037	4211	2168	1082	255	96	30	30	6	14372
1.00 - 1.99	915	9719	6704	3790	1562	729	170	73	60	2	23724
2.00 - 2.99	.	2105	3927	2055	1036	358	154	37	24	.	9696
3.00 - 3.99	.	15	1322	927	684	218	80	9	4	.	3259
4.00 - 4.99	.	.	91	324	429	161	20	11	5	2	1043
5.00 - 5.99	.	.	1	29	141	163	12	7	3	.	356
6.00 - 6.99	.	.	.	.	28	65	15	1	2	.	111
7.00 - 7.99	.	.	.	.	3	18	7	.	.	.	28
8.00 - 8.99	.	.	.	.	.	1	2	2	1	.	6
9.00 - GREATER	.	.	.	.	.	1	1	1	2	.	5
TOTAL	3372	15876	16256	9293	4965	1969	557	171	131	10	52600

STATION: 88

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	107	81	136	193	340	335	520	620	495	222	125	103	3277
2.50 - 4.99	794	648	892	1156	1632	1809	2243	2200	1856	1330	826	735	16121
5.00 - 7.49	657	650	736	926	1090	1112	1054	1046	895	940	865	754	10725
7.50 - 9.99	1059	1117	1167	1082	993	821	531	488	760	1195	1252	1162	11627
10.00 - 12.49	596	631	602	448	240	183	88	69	214	455	571	668	4765
12.50 - 14.99	672	552	524	364	119	56	27	30	93	225	459	581	3702
15.00 - 17.49	288	169	182	93	31	2	1	7	5	58	119	179	1134
17.50 - 19.99	171	133	149	48	16	2	.	1	1	26	67	190	804
20.00 - GREATER	120	91	76	10	3	.	.	3	1	13	36	92	445
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.00 N, LONG: 70.00 W, DEPTH: 18 M

STATION: 88

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	630	735	735	572	419	359	296	462	619	551	487	595	6460
22.50 - 67.49 (45.0)	348	361	421	440	484	236	215	342	535	594	445	297	4718
67.50 - 112.49 (90.0)	276	238	347	308	343	224	212	288	400	327	300	229	3492
112.50 - 157.49 (135.0)	244	272	289	416	398	229	331	358	302	356	298	247	3740
157.50 - 202.49 (180.0)	339	262	492	543	681	642	693	647	514	527	440	380	6160
202.50 - 247.49 (225.0)	463	483	535	619	874	1228	1316	1157	803	607	634	550	9269
247.50 - 292.49 (270.0)	902	614	665	691	740	867	882	668	554	784	798	890	9055
292.50 - 337.49 (315.0)	1262	1107	980	731	525	535	519	542	593	718	918	1276	9706
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 88

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.32	2.50	2.22	1.69	1.97	1.50	1.14	1.48	1.13	2.02	2.11	2.20	1.85
1977	2.40	2.09	2.22	1.83	1.17	1.34	1.06	1.02	1.20	1.85	2.21	2.50	1.74
1978	3.10	1.70	2.10	1.96	1.81	1.29	1.20	0.99	1.42	1.59	1.76	2.25	1.77
1979	2.65	2.56	2.33	1.78	1.61	1.04	1.08	1.09	1.54	1.52	1.73	2.40	1.77
1980	2.90	1.95	2.94	2.05	1.25	1.46	1.33	1.31	1.46	1.87	2.34	2.25	1.93
1981	1.93	2.84	2.46	2.33	1.91	1.27	1.16	0.89	1.69	1.59	1.98	2.00	1.83
1982	2.21	1.80	1.41	1.84	1.04	1.40	0.76	0.81	1.14	1.22	1.53	1.43	1.38
1983	1.63	1.85	1.83	1.59	1.54	1.13	0.97	0.87	1.04	1.65	1.85	2.24	1.51
1984	1.65	2.00	2.52	1.82	1.73	1.35	1.41	0.71	0.92	1.31	1.69	1.68	1.57
1985	1.95	2.10	1.84	1.44	1.41	1.31	1.07	0.82	1.17	1.00	1.77	1.67	1.46
1986	2.50	1.56	2.03	1.96	1.71	1.42	0.95	1.08	1.26	1.34	1.49	2.06	1.61
1987	2.05	1.79	2.09	2.09	1.09	0.96	0.74	0.80	0.95	1.33	1.62	1.55	1.42
1988	1.54	1.88	1.58	1.61	1.35	1.22	1.18	1.00	1.03	1.43	1.63	1.53	1.42
1989	1.65	1.61	1.77	1.45	1.49	1.03	0.92	1.14	1.93	1.28	2.06	1.64	1.49
1990	1.69	2.02	1.52	1.60	1.38	1.47	1.26	1.11	1.32	1.66	1.66	1.94	1.55
1991	1.60	1.65	2.07	1.40	1.08	1.00	0.95	1.21	1.40	1.63	1.58	1.68	1.44
1992	1.94	1.72	2.11	1.17	1.24	1.10	0.91	0.96	1.12	1.23	1.38	2.06	1.41
1993	2.19	2.26	2.08	2.33	1.40	1.17	0.91	0.94	1.41	1.58	1.91	2.03	1.68
MEAN	2.11	1.99	2.06	1.78	1.45	1.25	1.05	1.01	1.29	1.51	1.80	1.95	

STATION: 88

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	521121	751320	541221	36 9 4	501123	33 923	261019	491118	271513	501219	45 926	45 926	751320
1977	631221	511216	471115	511319	31 824	4110 5	371021	23 823	421022	441021	581312	6614 8	6614 8
1978	791418	6413 9	501122	5713 8	531220	351021	32 912	29 718	321319	491120	441116	581221	791418
1979	631216	641215	591221	531317	361119	28 7 4	21 628	291019	38 919	461024	511120	42 832	641215
1980	9619 6	7515 6	751318	431016	36 9 7	33 922	23 823	3611 8	28 728	781317	54 932	5111 6	9619 6
1981	49 831	771420	681218	511321	4711 4	36 921	29 921	20 917	401617	39 827	4410 7	5812 19	771420
1982	591322	421123	45 926	451121	19 822	471118	16 626	19 719	381314	4310 5	35 918	2810 5	591322
1983	4711 7	4812 5	421011	391218	461221	28 820	29 732	25 918	28 8 3	451023	581221	571313	581221
1984	491212	441017	661314	561217	411319	351315	331021	15 715	231220	581719	34 733	38 825	661314
1985	511220	591216	471020	571320	381022	3210 5	29 821	18 613	611119	25 725	421112	44 927	611119
1986	531414	34 8 6	571222	6414 6	6013 5	34 822	231219	42 918	431121	31 8 3	39 8 5	701317	701317
1987	6012 4	5311 4	621319	571319	27 727	19 721	21 623	16 622	32 9 7	29 727	5613 4	4910 4	621319
1988	34 828	581313	361018	35 8 2	25 8 6	27 725	28 921	26 720	261615	4310 5	401022	3910 7	581313
1989	36 732	531112	38 9 4	371016	31 817	19 817	21 722	371215	612017	34 8 5	46 830	39 926	612017
1990	431020	521619	361119	411020	371019	31 920	31 922	341617	251412	36 9 4	501120	391117	521619
1991	41 914	371317	491319	321013	24 726	26 7 3	19 919	681220	561817	5114 6	32 9 5	441023	681220
1992	611515	371219	441122	31 826	31 810	25 813	21 724	23 719	31 8 5	28 727	34 819	601213	611515
1993	661320	621311	961520	441018	311313	24 722	21 718	221219	391320	431212	721318	5913 7	961520
MAX	9619 6	771420	961520	6414 6	6013 5	471118	371021	681220	612017	781317	721318	701317	

MAX Hmo(m): 9.6 MAX Tp(sec): 15. MAX Dp(deg): 198. DATE(gmt): 93031418

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 315. DATE(gmt): 81031712

MEAN Hmo(m): 1.6 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 69.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 89

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	46	43	58	46	44	80	212	430	286	168	74	62	1549
0.50 - 0.99	716	545	663	993	1197	1689	2338	2160	1545	1192	820	833	14691
1.00 - 1.49	1039	937	948	959	1622	1540	1322	1331	1154	1428	1137	1081	14498
1.50 - 1.99	851	842	838	877	850	596	400	313	667	782	924	870	8810
2.00 - 2.49	629	580	650	572	398	275	115	112	398	438	638	567	5372
2.50 - 2.99	398	399	464	367	137	75	52	52	152	235	345	400	3076
3.00 - 3.49	251	258	316	225	82	41	21	36	57	98	180	291	1856
3.50 - 3.99	174	157	193	132	61	22	4	16	25	51	85	154	1074
4.00 - 4.49	121	90	122	64	40	2	.	8	12	32	47	68	606
4.50 - 4.99	92	58	101	44	21	.	.	3	10	18	31	48	426
5.00 - 5.49	56	60	51	23	6	.	.	1	7	4	15	34	257
5.50 - 5.99	32	45	20	11	1	.	.	1	6	6	14	36	172
6.00 - 6.49	23	19	12	6	2	.	.	1	1	3	4	12	83
6.50 - 6.99	16	21	13	1	1	.	.	.	.	5	5	5	67
7.00 - 7.49	5	8	9	.	2	.	.	.	.	2	1	3	30
7.50 - 7.99	5	3	3	.	.	.	.	.	.	2	.	.	13
8.00 - 8.49	.	4	2	.	.	.	.	.	.	.	.	.	6
8.50 - 8.99	2	3	.	.	.	.	.	.	.	.	.	.	5
9.00 - 9.49	2	.	1	.	.	.	.	.	.	.	.	.	3
9.50 - 9.99	1	.	.	.	.	.	.	.	.	.	.	.	1
10.00 - GREATER	5	.	.	.	.	.	.	.	.	.	.	.	5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 89

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	48	47	45	48	26	59	147	132	125	102	66	68	913
4.0 - 4.9	277	234	217	200	169	249	363	392	291	347	304	337	3380
5.0 - 5.9	365	315	290	267	400	526	629	803	412	418	478	385	5288
6.0 - 6.9	418	425	409	443	657	738	921	940	654	674	485	432	7196
7.0 - 7.9	556	646	530	598	978	985	1001	957	761	742	591	572	8917
8.0 - 8.9	633	608	629	723	938	873	832	543	582	636	755	656	8408
9.0 - 9.9	522	490	576	704	580	509	341	214	358	527	530	613	5964
10.0 - 10.9	472	416	528	519	343	235	128	149	284	435	495	506	4510
11.0 - 11.9	403	339	447	381	169	75	71	99	166	255	263	325	2993
12.0 - 12.9	327	231	412	291	112	40	27	72	147	150	125	241	2175
13.0 - 13.9	218	142	208	117	45	25	4	45	146	95	81	198	1324
14.0 - 14.9	125	75	92	22	31	4	.	33	121	27	53	80	663
15.0 - 15.9	48	53	30	7	10	2	.	24	83	33	31	27	348
16.0 - 16.9	21	8	16	.	5	.	.	20	78	7	10	12	177
17.0 - 17.9	11	5	5	.	1	.	.	15	48	13	12	8	118
18.0 - 18.9	11	17	1	.	.	.	.	13	23	1	10	4	80
19.0 - 19.9	6	7	9	.	.	.	.	7	16	2	14	.	61
20.0 - LONGER	3	14	20	.	.	.	.	6	25	.	17	.	85
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 89

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	625	778	417	283	144	90	119	123	171	279	475	635	4139
11.25 - 33.74 (22.5)	202	249	213	154	109	97	40	96	155	200	195	182	1892
33.75 - 56.24 (45.0)	229	213	291	251	236	97	37	76	125	283	228	179	2245
56.25 - 78.74 (67.5)	281	288	376	369	283	146	52	194	235	339	257	318	3138
78.75 - 101.24 (90.0)	223	171	241	239	274	210	42	221	381	307	209	161	2679
101.25 - 123.74 (112.5)	269	224	289	402	415	175	197	364	434	507	327	248	3851
123.75 - 146.24 (135.0)	386	285	435	512	594	405	314	513	602	526	482	385	5439
146.25 - 168.74 (157.5)	416	343	440	448	526	430	432	598	595	533	325	340	5426
168.75 - 191.24 (180.0)	695	598	857	869	983	1244	1478	1067	780	506	666	633	10376
191.25 - 213.74 (202.5)	391	379	432	387	591	922	1171	740	420	340	393	544	6710
213.75 - 236.24 (225.0)	284	215	148	164	194	319	307	263	213	264	316	306	2993
236.25 - 258.74 (247.5)	68	55	62	47	22	72	81	78	58	92	107	106	848
258.75 - 281.24 (270.0)	30	38	24	27	17	26	55	26	30	33	50	49	405
281.25 - 303.74 (292.5)	110	53	62	53	17	33	55	37	33	96	85	104	738
303.75 - 326.24 (315.0)	141	99	114	67	32	23	48	40	52	89	119	165	989
326.25 - 348.74 (337.5)	114	84	63	48	27	31	36	28	36	70	86	109	732
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 69.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 89 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	264	575	124	.	.	.	.	.	.	.	963
1.00 - 1.99	132	964	1198	8	.	.	.	.	.	.	2302
2.00 - 2.99	.	180	960	231	.	.	.	.	.	.	1371
3.00 - 3.99	.	1	168	364	1	.	.	.	.	.	534
4.00 - 4.99	.	.	5	172	28	.	.	.	.	.	205
5.00 - 5.99	.	.	.	5	45	.	.	.	.	.	50
6.00 - 6.99	.	.	.	1	4	1	.	.	.	.	6
7.00 - 7.99	.	.	.	.	1	2	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	396	1720	2455	781	79	4	0	0	0	0	5435

STATION: 89 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	168	209	60	169	238	139	50	27	22	3	1085
1.00 - 1.99	62	744	459	112	120	147	68	38	34	.	1784
2.00 - 2.99	.	104	649	326	27	24	10	9	24	.	1173
3.00 - 3.99	.	.	113	397	77	7	3	4	6	.	607
4.00 - 4.99	.	.	5	96	152	13	.	1	.	.	267
5.00 - 5.99	.	.	.	5	93	38	.	.	.	.	136
6.00 - 6.99	.	.	.	.	21	34	8	.	.	.	63
7.00 - 7.99	.	.	.	.	2	12	4	.	.	.	18
8.00 - 8.99	.	.	.	.	.	3	4	.	.	.	7
9.00 - GREATER	.	.	.	.	.	.	3	4	1	.	8
TOTAL	230	1057	1286	1105	730	417	150	83	87	3	5148

STATION: 89 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	185	353	584	588	449	74	8	.	.	.	2241
1.00 - 1.99	49	756	689	371	259	86	8	7	.	.	2225
2.00 - 2.99	.	89	366	157	40	5	10	.	.	.	667
3.00 - 3.99	.	.	73	119	8	4	1	.	.	.	205
4.00 - 4.99	.	.	.	39	34	1	2	.	.	.	76
5.00 - 5.99	.	.	.	3	28	13	.	.	.	.	44
6.00 - 6.99	.	.	.	.	5	18	1	.	.	.	24
7.00 - 7.99	.	.	.	.	.	7	3	.	.	.	10
8.00 - 8.99	.	.	.	.	.	.	1	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	234	1198	1712	1277	823	208	34	7	0	0	5493

STATION: 89 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	203	574	1467	1057	406	91	18	5	1	2	3824
1.00 - 1.99	74	802	1180	1302	802	456	100	33	11	.	4760
2.00 - 2.99	.	94	292	317	269	178	83	16	.	.	1249
3.00 - 3.99	.	.	78	133	112	66	23	2	.	.	414
4.00 - 4.99	.	.	4	50	67	20	2	4	.	.	147
5.00 - 5.99	.	.	.	4	34	26	4	.	.	.	68
6.00 - 6.99	.	.	.	.	6	9	2	.	.	.	17
7.00 - 7.99	.	.	.	.	.	3	1	.	.	.	4
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	277	1470	3021	2863	1696	849	233	60	12	2	10483

STATION: 89 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	454	1787	2545	505	75	11	7	1	3	2	5390
1.00 - 1.99	151	1781	3232	1920	482	91	16	15	12	1	7701
2.00 - 2.99	.	200	784	1054	587	113	40	13	6	.	2797
3.00 - 3.99	.	.	122	304	388	107	21	8	5	.	955
4.00 - 4.99	.	.	.	53	141	85	11	4	5	2	301
5.00 - 5.99	.	.	.	3	38	66	7	5	5	.	124
6.00 - 6.99	.	.	.	.	5	27	5	2	1	.	40
7.00 - 7.99	.	.	.	.	1	7	.	.	.	.	8
8.00 - 8.99	.	.	.	.	.	1	1	.	.	.	2
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	605	3768	6683	3839	1717	509	108	48	37	5	17319

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 69.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 89 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	601	789	355	7	1	.	.	.	.	.	1753
1.00 - 1.99	179	1615	1021	250	.	.	.	.	.	.	3065
2.00 - 2.99	.	143	513	224	68	.	.	.	.	.	948
3.00 - 3.99	.	.	74	92	31	.	.	.	.	.	197
4.00 - 4.99	.	.	3	14	18	.	.	.	.	.	35
5.00 - 5.99	.	.	.	2	5	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	780	2547	1966	589	123	0	0	0	0	0	6005

STATION: 89 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	478	29	18	.	.	.	.	.	.	.	525
1.00 - 1.99	177	105	77	1	.	.	.	.	.	.	360
2.00 - 2.99	.	8	14	10	.	.	.	.	.	.	32
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	655	142	109	11	0	0	0	0	0	0	917

STATION: 89 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	422	25	12	.	.	.	.	.	.	.	459
1.00 - 1.99	694	353	64	.	.	.	.	.	.	.	1111
2.00 - 2.99	.	189	15	7	.	.	.	.	.	.	211
3.00 - 3.99	.	15	1	2	.	.	.	.	.	.	18
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1116	582	93	9	0	0	0	0	0	0	1800

STATION: 89 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2775	4341	5165	2326	1169	315	83	33	26	7	16240
1.00 - 1.99	1518	7120	7920	3964	1663	780	192	93	57	1	23308
2.00 - 2.99	.	1007	3593	2326	991	320	143	38	30	.	8448
3.00 - 3.99	.	16	629	1411	617	184	48	14	11	.	2930
4.00 - 4.99	.	.	18	424	440	119	15	9	5	2	1032
5.00 - 5.99	.	.	.	22	243	143	11	5	5	.	429
6.00 - 6.99	.	.	.	1	41	89	16	2	1	.	150
7.00 - 7.99	.	.	.	.	4	31	8	.	.	.	43
8.00 - 8.99	.	.	.	.	.	5	6	.	.	.	11
9.00 - GREATER	.	.	.	.	.	1	3	4	1	.	9
TOTAL	4293	12484	17325	10474	5168	1987	525	198	136	10	52600

STATION: 89

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	95	73	111	174	304	303	479	565	447	204	97	96	2948
2.50 - 4.99	783	630	898	1182	1683	1827	2260	2251	1885	1342	837	730	16308
5.00 - 7.49	656	686	751	929	1077	1127	1079	1056	916	932	868	743	10820
7.50 - 9.99	1104	1104	1165	1080	984	820	538	484	785	1236	1272	1205	11777
10.00 - 12.49	599	644	617	437	245	178	79	68	191	440	569	664	4731
12.50 - 14.99	666	546	524	366	121	62	28	32	89	215	466	570	3685
15.00 - 17.49	278	166	171	97	36	2	1	4	5	58	108	185	1111
17.50 - 19.99	167	129	149	48	12	1	.	1	1	26	66	184	784
20.00 - GREATER	116	94	78	7	2	.	.	3	1	11	37	87	436
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.25 N, LONG: 69.75 W, DEPTH: 18 M

STATION: 89

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	626	722	732	555	403	358	287	446	617	537	491	577	6351
22.50 - 67.49 (45.0)	346	363	423	446	477	226	211	323	491	577	430	291	4604
67.50 - 112.49 (90.0)	274	232	339	315	355	228	195	286	412	309	299	230	3474
112.50 - 157.49 (135.0)	249	266	300	399	407	213	326	353	296	378	299	247	3733
157.50 - 202.49 (180.0)	349	268	482	570	697	670	700	653	528	538	447	392	6294
202.50 - 247.49 (225.0)	467	497	550	610	860	1234	1330	1185	795	629	634	544	9335
247.50 - 292.49 (270.0)	920	601	657	695	731	861	879	667	580	799	814	915	9119
292.50 - 337.49 (315.0)	1233	1123	981	730	534	530	536	551	601	697	906	1268	9690
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 89

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.40	2.32	2.15	1.54	1.87	1.41	1.02	1.42	1.02	1.87	1.71	2.11	1.74
1977	2.22	1.92	2.19	1.73	1.18	1.30	1.05	0.94	1.24	1.78	2.03	2.36	1.66
1978	2.81	1.91	2.13	1.95	1.78	1.24	1.16	0.96	1.42	1.50	1.80	2.08	1.73
1979	2.66	3.02	2.42	1.75	1.52	0.97	1.03	1.03	1.48	1.32	1.58	2.28	1.75
1980	2.84	2.06	2.87	2.01	1.21	1.31	1.23	1.31	1.37	1.69	2.37	2.25	1.88
1981	1.89	2.93	2.42	2.14	1.97	1.17	1.06	0.85	1.57	1.38	1.80	1.78	1.74
1982	1.79	1.70	1.22	1.62	1.06	1.37	0.70	0.79	1.09	1.20	1.39	1.44	1.28
1983	1.55	1.97	1.80	1.57	1.53	1.03	0.96	0.86	1.00	1.60	1.65	2.09	1.47
1984	1.69	2.04	2.64	2.13	1.64	1.28	1.30	0.71	0.93	1.27	1.71	1.44	1.56
1985	1.91	2.13	1.84	1.35	1.35	1.26	1.00	0.82	1.19	1.00	1.76	1.51	1.42
1986	2.44	1.69	1.96	2.05	1.71	1.34	0.86	1.01	1.21	1.34	1.57	2.12	1.61
1987	2.09	2.16	2.21	2.07	1.00	0.89	0.67	0.76	0.95	1.22	1.53	1.46	1.41
1988	1.34	1.76	1.46	1.64	1.35	1.15	1.06	0.92	0.98	1.36	1.45	1.45	1.32
1989	1.59	1.56	1.74	1.39	1.41	0.93	0.87	1.07	1.84	1.17	1.85	1.41	1.40
1990	1.47	1.99	1.45	1.55	1.38	1.42	1.17	1.07	1.23	1.63	1.58	1.79	1.47
1991	1.47	1.48	2.07	1.30	1.01	0.96	0.87	1.13	1.41	1.66	1.49	1.55	1.37
1992	1.72	1.78	1.96	1.14	1.21	1.05	0.83	0.89	1.08	1.20	1.37	1.94	1.35
1993	2.11	2.33	2.11	2.29	1.29	1.09	0.83	0.92	1.39	1.50	1.82	2.11	1.64
MEAN	2.00	2.04	2.04	1.74	1.41	1.18	0.98	0.97	1.24	1.43	1.69	1.84	

STATION: 89

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	6413 2	621319	511220	4811 6	471021	32 921	241019	491118	241513	4810 1	4310 0	4410 3	6413 2
1977	7113 4	571212	501113	481219	4310 2	3810 5	361018	22 722	391021	41 9 7	611310	7213 7	7213 7
1978	771515	7213 8	511211	5912 7	511118	35 919	32 810	28 718	33 8 0	361021	5111 1	441220	771515
1979	651312	641316	571219	561316	361118	26 7 3	22 715	271018	38 918	441022	471119	461036	651312
1980	11319 5	8814 5	7615 7	431114	36 9 6	301219	21 723	3710 7	271515	761316	6012 2	6312 4	11319 5
1981	6212 4	8514 4	7813 2	491320	5712 5	35 821	28 920	20 917	421617	25 7 5	5011 5	6612 3	8514 4
1982	511221	391021	29 817	411019	25 9 4	431016	15 623	18 817	371314	4910 5	361017	37 9 4	511221
1983	4711 8	5512 4	401011	401217	441219	25 719	35 9 0	28 8 4	281218	39 923	391219	561312	561312
1984	4911 6	431014	7615 4	591214	381218	381315	321019	15 715	23 817	621718	4310 1	33 8 4	7615 4
1985	5912 1	611214	5011 5	541319	4210 3	3610 4	30 819	24 6 3	581118	38 836	461110	38 9 4	611214
1986	551415	4410 2	521121	6614 6	7213 5	33 820	211218	421018	421220	3410 4	5511 3	7213 4	7213 4
1987	6913 4	8513 2	611317	551318	22 7 4	20 720	20 721	16 620	30 9 6	25 713	6913 4	5712 3	8513 2
1988	37 836	601112	371017	3510 4	26 8 5	36 9 4	25 920	24 715	251414	4811 6	35 921	4711 5	601112
1989	5311 1	5312 7	42 9 3	431015	31 816	17 817	20 622	351215	602016	3710 5	411319	26 8 4	602016
1990	35 919	531618	331118	401018	36 917	31 819	311315	361617	27 7 2	4710 2	4610 2	401114	531618
1991	40 912	381217	471318	3510 8	23 7 2	25 8 3	181018	641218	591817	7513 5	34 9 4	40 9 3	7513 5
1992	6015 15	5011 3	421013	31 8 3	29 8 8	25 813	20 619	22 718	34 9 5	35 9 3	34 818	5913 6	601515
1993	611418	6814 6	911419	421017	311313	23 722	21 717	221218	371319	441213	721317	6112 4	911419
MAX	11319 5	8814 5	911419	6614 6	7213 5	431016	361018	641218	602016	761316	721317	7213 4	

MAX Hmo(m): 11.3 MAX Tp(sec): 19. MAX Dp(deg): 50. DATE(gmt): 80011612

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 325. DATE(gmt): 81031712

MEAN Hmo(m): 1.5 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.50 N, LONG: 69.75 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 90

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	65	58	82	75	58	162	325	542	342	201	103	96	2109
0.50 - 0.99	810	611	727	1102	1433	1965	2580	2350	1704	1327	962	950	16521
1.00 - 1.49	1114	1029	1008	961	1600	1381	1121	1128	1133	1456	1182	1101	14214
1.50 - 1.99	860	820	848	865	736	537	312	257	652	732	904	862	8385
2.00 - 2.49	537	501	624	523	332	168	68	86	285	376	556	526	4582
2.50 - 2.99	344	402	441	328	124	55	41	49	117	194	279	355	2729
3.00 - 3.49	254	230	270	219	81	31	12	33	46	78	152	252	1658
3.50 - 3.99	160	124	170	127	48	19	5	11	14	41	74	135	928
4.00 - 4.49	131	82	121	57	24	2	.	4	8	26	42	59	556
4.50 - 4.99	70	77	80	33	18	.	.	1	10	13	29	51	382
5.00 - 5.49	45	54	41	18	4	.	.	2	6	5	11	34	220
5.50 - 5.99	27	36	16	7	2	.	.	.	3	5	14	25	135
6.00 - 6.49	16	17	13	4	2	.	.	1	.	5	7	12	77
6.50 - 6.99	13	14	11	1	.	.	.	.	.	.	5	5	49
7.00 - 7.49	4	5	8	.	2	.	.	.	.	5	.	.	24
7.50 - 7.99	3	5	3	.	.	.	.	.	.	.	.	1	12
8.00 - 8.49	2	2	.	.	.	.	.	.	.	.	.	.	4
8.50 - 8.99	1	4	1	.	.	.	.	.	.	.	.	.	6
9.00 - 9.49	2	1	.	.	.	.	.	.	.	.	.	.	3
9.50 - 9.99	1	.	.	.	.	.	.	.	.	.	.	.	1
10.00 - GREATER	5	.	.	.	.	.	.	.	.	.	.	.	5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 90

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	75	82	65	61	38	106	248	226	164	126	107	91	1389
4.0 - 4.9	422	319	286	275	260	398	492	550	353	490	467	481	4793
5.0 - 5.9	345	306	274	241	365	385	508	660	381	407	436	359	4667
6.0 - 6.9	401	388	356	416	592	602	775	809	586	612	406	385	6328
7.0 - 7.9	492	593	527	510	919	891	959	879	661	664	577	517	8189
8.0 - 8.9	578	584	536	665	916	953	842	587	589	577	659	583	8069
9.0 - 9.9	475	464	590	672	572	545	374	237	364	477	519	585	5874
10.0 - 10.9	439	379	485	512	381	258	148	139	294	409	458	467	4369
11.0 - 11.9	372	348	438	417	183	94	70	103	215	292	252	318	3102
12.0 - 12.9	357	232	460	361	123	54	41	91	146	183	147	288	2483
13.0 - 13.9	244	153	231	149	53	27	7	55	153	126	103	229	1530
14.0 - 14.9	138	87	112	31	42	4	.	44	136	38	66	95	793
15.0 - 15.9	62	64	32	8	15	3	.	24	83	40	45	34	410
16.0 - 16.9	25	18	31	1	5	.	.	20	82	14	16	17	229
17.0 - 17.9	16	8	6	.	.	.	.	12	47	7	17	10	123
18.0 - 18.9	9	19	3	.	.	.	.	14	24	1	13	5	88
19.0 - 19.9	8	9	8	1	.	.	.	7	16	1	15	.	65
20.0 - LONGER	6	19	24	.	.	.	.	7	26	.	17	.	99
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 90

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	698	830	432	314	147	102	131	135	186	309	514	697	4495
11.25 - 33.74 (22.5)	209	248	235	165	130	95	51	91	154	196	206	176	1956
33.75 - 56.24 (45.0)	210	211	275	227	236	84	31	84	127	279	214	174	2152
56.25 - 78.74 (67.5)	340	330	395	443	315	140	78	233	263	378	296	334	3545
78.75 - 101.24 (90.0)	244	200	348	350	338	316	56	270	416	364	257	279	3438
101.25 - 123.74 (112.5)	208	156	194	273	323	130	130	250	271	328	240	142	2645
123.75 - 146.24 (135.0)	288	244	368	458	565	341	286	487	548	492	427	305	4809
146.25 - 168.74 (157.5)	539	420	543	583	663	577	532	674	768	655	436	460	6850
168.75 - 191.24 (180.0)	891	755	1059	1014	1181	1670	2020	1330	969	671	844	901	13305
191.25 - 213.74 (202.5)	291	287	255	204	367	524	695	542	321	274	316	375	4451
213.75 - 236.24 (225.0)	70	78	43	59	63	130	146	143	82	105	116	80	1115
236.25 - 258.74 (247.5)	32	42	26	24	24	67	91	77	55	70	62	71	641
258.75 - 281.24 (270.0)	99	53	54	49	27	45	68	28	38	77	94	104	736
281.25 - 303.74 (292.5)	130	64	82	57	30	37	53	45	38	112	114	133	895
303.75 - 326.24 (315.0)	126	80	98	60	29	36	54	46	56	89	96	133	903
326.25 - 348.74 (337.5)	89	74	57	40	26	26	42	29	28	65	88	100	664
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.50 N, LONG: 69.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 90 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	335	629	91	.	.	.	.	.	.	.	1055
1.00 - 1.99	132	1130	1201	7	.	.	.	.	.	.	2470
2.00 - 2.99	.	169	1120	175	.	.	.	.	.	.	1464
3.00 - 3.99	.	4	185	410	2	.	.	.	.	.	601
4.00 - 4.99	.	.	5	205	10	.	.	.	.	.	220
5.00 - 5.99	.	.	1	11	51	.	.	.	.	.	63
6.00 - 6.99	.	.	.	1	6	1	.	.	.	.	8
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	467	1932	2603	809	70	2	0	0	0	0	5883

STATION: 90 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	206	215	48	133	270	222	70	25	27	4	1220
1.00 - 1.99	63	788	432	90	104	156	70	33	38	2	1776
2.00 - 2.99	.	96	613	257	28	30	17	17	17	.	1075
3.00 - 3.99	.	.	115	360	60	7	2	1	8	.	553
4.00 - 4.99	.	.	4	109	143	5	.	3	.	.	264
5.00 - 5.99	.	.	.	9	99	27	.	.	.	.	135
6.00 - 6.99	.	.	.	.	27	33	11	.	.	.	71
7.00 - 7.99	.	.	.	.	1	17	4	.	.	.	22
8.00 - 8.99	.	.	.	.	.	6	4	.	.	.	10
9.00 - GREATER	.	.	.	.	.	.	4	3	1	.	8
TOTAL	269	1099	1212	958	732	503	182	82	91	6	5134

STATION: 90 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	227	352	583	714	729	175	17	3	1	.	2801
1.00 - 1.99	57	666	621	393	462	235	72	8	.	.	2514
2.00 - 2.99	.	81	288	142	77	49	27	4	4	.	672
3.00 - 3.99	.	.	66	79	19	18	10	7	5	.	204
4.00 - 4.99	.	.	.	31	21	2	2	3	.	.	59
5.00 - 5.99	.	.	.	2	17	5	1	.	.	.	25
6.00 - 6.99	.	.	.	.	2	7	.	.	.	.	9
7.00 - 7.99	.	.	.	.	.	4	1	.	.	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	284	1099	1558	1361	1327	495	130	25	10	0	6289

STATION: 90 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	249	617	1509	1095	463	125	5	.	2	2	4067
1.00 - 1.99	75	770	972	1087	655	424	112	24	4	.	4123
2.00 - 2.99	.	107	279	246	139	112	37	8	.	.	928
3.00 - 3.99	.	.	84	99	72	23	6	4	.	.	288
4.00 - 4.99	.	.	5	54	48	19	3	.	.	.	129
5.00 - 5.99	.	.	.	11	25	14	.	.	.	.	50
6.00 - 6.99	.	.	.	.	2	3	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	1	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	324	1494	2849	2592	1404	721	163	36	6	2	9591

STATION: 90 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	574	2083	3322	760	116	28	22	7	8	2	6922
1.00 - 1.99	229	1945	3268	2330	721	122	29	28	14	1	8687
2.00 - 2.99	.	209	787	1005	659	139	62	15	8	.	2884
3.00 - 3.99	.	.	123	244	384	140	26	9	3	1	930
4.00 - 4.99	.	.	.	36	107	99	11	4	7	1	265
5.00 - 5.99	.	.	.	1	16	48	9	4	4	.	82
6.00 - 6.99	.	.	.	.	8	21	3	1	.	.	33
7.00 - 7.99	.	.	.	.	.	5	2	.	.	.	7
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	803	4237	7500	4376	2011	602	164	68	44	5	19810

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.50 N, LONG: 69.75 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 90 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	814	275	190	12	.	.	.	.	.	.	1291
1.00 - 1.99	727	308	269	115	13	.	.	.	.	.	1432
2.00 - 2.99	.	22	46	17	28	.	.	.	.	.	113
3.00 - 3.99	.	.	1	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1541	605	506	144	41	0	0	0	0	0	2837

STATION: 90 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	798	2	3	.	.	.	.	.	.	.	803
1.00 - 1.99	539	22	6	2	.	.	.	.	.	.	569
2.00 - 2.99	.	10	.	.	.	.	.	.	.	.	10
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1337	34	9	2	0	0	0	0	0	0	1382

STATION: 90 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	454	14	3	.	.	.	.	.	.	.	471
1.00 - 1.99	703	312	13	.	.	.	.	.	.	.	1028
2.00 - 2.99	.	161	3	1	.	.	.	.	.	.	165
3.00 - 3.99	.	8	1	.	.	.	.	.	.	.	9
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1157	495	21	1	0	0	0	0	0	0	1674

STATION: 90 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3657	4187	5749	2714	1578	550	114	35	38	8	18630
1.00 - 1.99	2525	5941	6782	4024	1955	937	283	93	56	3	22599
2.00 - 2.99	.	855	3136	1843	931	330	143	44	29	.	7311
3.00 - 3.99	.	12	575	1192	537	188	44	21	16	1	2586
4.00 - 4.99	.	.	15	435	329	125	16	10	7	1	938
5.00 - 5.99	.	.	1	34	208	94	10	4	4	.	355
6.00 - 6.99	.	.	.	1	45	65	14	1	.	.	126
7.00 - 7.99	.	.	.	.	2	27	7	.	.	.	36
8.00 - 8.99	.	.	.	.	.	6	4	.	.	.	10
9.00 - GREATER	.	.	.	.	.	1	4	3	1	.	9
TOTAL	6182	10995	16258	10243	5585	2323	639	211	151	13	52600

STATION: 90

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	104	73	110	187	308	304	478	576	452	198	93	91	2974
2.50 - 4.99	787	637	912	1199	1703	1840	2268	2251	1896	1350	859	753	16455
5.00 - 7.49	633	707	770	904	1059	1106	1079	1032	898	939	875	760	10762
7.50 - 9.99	1145	1090	1146	1083	983	829	534	495	795	1251	1262	1177	11790
10.00 - 12.49	584	643	610	420	235	176	77	73	186	408	557	675	4644
12.50 - 14.99	658	538	519	384	128	62	27	29	88	221	468	549	3671
15.00 - 17.49	262	160	168	85	33	3	1	4	3	62	102	191	1074
17.50 - 19.99	177	130	149	54	13	.	.	2	1	26	67	179	798
20.00 - GREATER	114	94	80	4	2	.	.	2	1	9	37	89	432
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.50 N, LONG: 69.75 W, DEPTH: 18 M

STATION: 90

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	616	703	743	551	397	368	276	442	591	535	483	566	6271
22.50 - 67.49 (45.0)	340	372	416	451	456	219	202	308	447	553	424	283	4471
67.50 - 112.49 (90.0)	267	228	323	322	358	224	186	283	403	291	287	229	3401
112.50 - 157.49 (135.0)	254	262	305	396	434	207	337	368	301	401	297	255	3817
157.50 - 202.49 (180.0)	357	270	497	578	684	678	693	659	538	536	451	404	6345
202.50 - 247.49 (225.0)	467	507	547	607	863	1224	1325	1168	803	641	643	551	9346
247.50 - 292.49 (270.0)	928	590	659	682	712	862	892	680	611	802	814	918	9150
292.50 - 337.49 (315.0)	1235	1140	974	733	560	538	553	556	626	705	921	1258	9799
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 90

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.32	2.09	2.01	1.49	1.73	1.22	0.94	1.34	0.96	1.73	1.60	2.06	1.62
1977	2.12	1.81	2.11	1.65	1.12	1.26	0.99	0.83	1.17	1.70	1.88	2.29	1.58
1978	2.64	1.92	2.03	1.89	1.71	1.18	1.06	0.87	1.33	1.42	1.72	1.95	1.64
1979	2.57	3.02	2.34	1.72	1.42	0.93	0.99	0.98	1.38	1.21	1.49	2.15	1.68
1980	2.77	2.04	2.75	1.97	1.15	1.17	1.08	1.24	1.24	1.54	2.34	2.12	1.78
1981	1.80	2.81	2.29	1.92	1.87	1.05	1.00	0.81	1.46	1.27	1.68	1.69	1.63
1982	1.64	1.60	1.14	1.51	1.00	1.30	0.66	0.73	1.03	1.18	1.29	1.34	1.20
1983	1.49	1.94	1.72	1.51	1.45	0.94	0.91	0.82	0.96	1.51	1.58	1.97	1.40
1984	1.64	1.98	2.58	2.09	1.50	1.20	1.18	0.68	0.86	1.21	1.65	1.34	1.49
1985	1.84	2.01	1.73	1.27	1.24	1.22	0.92	0.78	1.13	0.98	1.70	1.42	1.35
1986	2.27	1.65	1.78	2.00	1.64	1.21	0.80	0.96	1.10	1.25	1.50	2.04	1.52
1987	2.06	2.17	2.18	2.01	0.94	0.80	0.60	0.71	0.93	1.14	1.46	1.40	1.36
1988	1.24	1.64	1.40	1.59	1.29	1.06	0.95	0.84	0.90	1.31	1.38	1.38	1.25
1989	1.51	1.49	1.62	1.33	1.31	0.87	0.79	0.99	1.72	1.11	1.68	1.37	1.31
1990	1.35	1.85	1.37	1.47	1.34	1.32	1.04	1.00	1.14	1.54	1.48	1.68	1.38
1991	1.38	1.34	1.99	1.22	0.91	0.87	0.79	1.05	1.31	1.63	1.40	1.48	1.28
1992	1.63	1.72	1.80	1.09	1.14	1.00	0.76	0.83	1.01	1.11	1.27	1.87	1.27
1993	1.99	2.22	2.03	2.17	1.19	1.01	0.79	0.85	1.28	1.42	1.70	2.01	1.55
MEAN	1.90	1.96	1.94	1.66	1.33	1.09	0.90	0.91	1.16	1.35	1.60	1.75	

STATION: 90

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	6513 2	561517	4510 8	45 9 1	381218	25 818	231018	471117	20 617	5110 1	4510 1	4410 4	6513 2
1977	7013 5	571212	5111 3	451219	4410 3	3811 4	38 919	21 719	34 815	42 9 6	571311	6713 6	7013 5
1978	751516	7014 7	501112	5612 4	491118	36 919	31 8 5	29 718	33 9 1	31 8 1	5011 3	44 9 1	751516
1979	641312	591317	551218	541316	341118	24 7 3	23 814	261018	38 918	32 918	451017	4810 0	641312
1980	11319 5	8915 5	7215 7	421115	35 9 5	281218	22 8 0	3310 6	251516	701417	6111 1	6112 4	11319 5
1981	5912 4	8814 4	7813 3	411319	5511 4	31 819	28 818	20 719	401617	25 716	4611 5	6412 3	8814 4
1982	441018	38 9 2	29 817	39 918	24 9 4	401117	13 618	17 717	331315	4610 4	351017	36 9 4	4610 4
1983	4210 6	5612 4	37 9 4	381217	371219	24 718	37 9 0	27 9 5	281218	37 9 4	361013	501314	5612 4
1984	4511 5	42 913	8515 4	561215	341318	361316	32 818	14 715	22 635	611718	4410 1	32 8 4	8515 4
1985	6012 1	581215	48 9 2	501218	42 9 2	3710 4	35 819	25 7 3	561117	38 9 1	451010	37 9 4	6012 1
1986	521316	4510 1	46 920	6913 6	7213 4	28 916	191218	381018	351219	3410 4	5511 3	7613 4	7613 4
1987	7113 3	9013 2	611216	521317	23 7 4	17 719	16 619	16 619	31 9 5	26 713	6813 3	5711 3	9013 2
1988	38 9 1	511113	361017	3410 4	28 8 5	35 8 0	23 719	24 715	231516	4711 5	331018	4410 5	511113
1989	5511 2	5212 7	42 9 3	421015	32 816	17 817	17 621	311216	552017	3710 4	411318	26 934	552017
1990	341018	521618	321218	39 819	36 917	31 818	281316	341617	26 7 2	4610 3	4710 3	391115	521618
1991	38 912	351317	451318	36 9 8	23 7 2	25 8 3	171018	601218	551817	7413 5	3510 4	40 9 3	7413 5
1992	541516	4910 1	391014	30 8 3	27 8 8	24 814	20 618	22 718	33 9 5	34 8 2	34 818	6113 5	6113 5
1993	531418	6814 6	791418	41 916	271314	23 8 0	21 717	221218	34 819	411214	681317	5912 4	791418
MAX	11319 5	9013 2	8515 4	6913 6	7213 4	401117	38 919	601218	561117	7413 5	681317	7613 4	

MAX Hmo(m): 11.3 MAX Tp(sec): 19. MAX Dp(deg): 47. DATE(gmt): 80011612

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 325. DATE(gmt): 81031712

MEAN Hmo(m): 1.5 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.75 N, LONG: 69.75 W, DEPTH: 91 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 91

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	72	72	85	81	71	196	365	550	328	193	111	98	2222
0.50 - 0.99	824	588	709	1009	1321	1895	2587	2278	1612	1227	899	932	15881
1.00 - 1.49	1026	1000	968	966	1590	1426	1112	1196	1240	1434	1200	1059	14217
1.50 - 1.99	851	786	843	830	787	496	279	256	662	810	846	811	8257
2.00 - 2.49	502	485	608	524	352	156	66	90	279	374	539	553	4528
2.50 - 2.99	356	340	390	352	139	86	22	46	111	193	302	297	2634
3.00 - 3.49	252	286	306	227	88	33	21	27	54	96	163	261	1814
3.50 - 3.99	185	150	169	144	37	14	7	11	25	53	97	159	1051
4.00 - 4.49	118	82	122	83	24	16	3	3	3	33	49	89	625
4.50 - 4.99	96	72	77	39	17	2	2	2	4	16	35	66	428
5.00 - 5.49	55	44	61	22	15	.	.	3	.	16	27	32	275
5.50 - 5.99	38	42	40	14	11	.	.	.	1	4	12	35	197
6.00 - 6.49	20	40	34	8	5	.	.	1	.	6	17	24	155
6.50 - 6.99	16	24	15	11	4	.	.	.	1	1	10	15	97
7.00 - 7.49	13	9	6	6	.	.	.	.	.	2	6	19	61
7.50 - 7.99	10	12	6	3	1	.	.	1	.	2	3	5	43
8.00 - 8.49	6	12	7	1	2	.	.	.	.	3	3	5	39
8.50 - 8.99	6	9	8	.	.	.	.	.	.	1	1	3	28
9.00 - 9.49	3	7	3	.	.	.	.	.	.	.	.	1	14
9.50 - 9.99	2	2	5	.	.	.	.	.	.	.	.	.	9
10.00 - GREATER	13	10	2	.	.	.	.	.	.	.	.	.	25
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 91

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	77	89	54	52	51	99	238	234	149	119	100	93	1355
4.0 - 4.9	376	299	231	231	252	427	554	575	357	409	434	429	4574
5.0 - 5.9	335	293	239	228	309	329	388	472	325	379	366	350	4013
6.0 - 6.9	413	423	380	409	471	527	697	735	523	558	376	404	5916
7.0 - 7.9	527	605	545	519	868	871	1006	940	690	648	586	568	8373
8.0 - 8.9	585	556	540	603	979	945	869	710	637	568	699	580	8271
9.0 - 9.9	493	490	628	683	645	607	428	253	414	558	542	570	6311
10.0 - 10.9	430	376	520	541	420	296	150	156	323	481	477	465	4635
11.0 - 11.9	361	346	430	492	203	105	83	123	222	308	302	355	3330
12.0 - 12.9	368	251	469	384	144	82	50	95	192	221	172	287	2715
13.0 - 13.9	250	134	236	146	66	25	1	61	157	119	105	233	1533
14.0 - 14.9	128	99	98	31	44	7	.	40	118	48	52	73	738
15.0 - 15.9	65	54	36	1	12	.	.	17	68	29	41	29	352
16.0 - 16.9	21	7	18	.	.	.	.	19	60	11	18	17	171
17.0 - 17.9	16	10	7	.	.	.	.	14	37	8	14	7	113
18.0 - 18.9	10	21	3	.	.	.	.	10	15	.	7	4	70
19.0 - 19.9	4	5	16	.	.	.	.	4	15	.	13	.	57
20.0 - LONGER	5	14	14	.	.	.	.	6	18	.	16	.	73
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 91

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	539	676	345	242	117	92	119	125	171	232	369	518	3545
11.25 - 33.74 (22.5)	154	166	195	126	98	78	48	85	130	165	147	134	1526
33.75 - 56.24 (45.0)	148	179	213	182	196	69	26	73	103	243	174	114	1720
56.25 - 78.74 (67.5)	368	256	373	371	298	157	57	221	244	312	275	333	3265
78.75 - 101.24 (90.0)	439	412	577	666	532	470	156	377	601	605	450	468	5753
101.25 - 123.74 (112.5)	392	286	407	475	614	259	227	453	598	628	511	339	5189
123.75 - 146.24 (135.0)	245	262	325	402	501	389	361	510	450	437	354	284	4520
146.25 - 168.74 (157.5)	399	309	391	460	534	458	481	539	548	486	308	341	5254
168.75 - 191.24 (180.0)	866	730	1027	922	1160	1698	2155	1380	1003	679	839	888	13347
191.25 - 213.74 (202.5)	155	151	104	83	155	260	336	292	131	113	159	146	2085
213.75 - 236.24 (225.0)	55	84	49	54	67	132	176	159	99	96	97	76	1144
236.25 - 258.74 (247.5)	30	59	32	30	30	70	94	72	47	77	73	81	695
258.75 - 281.24 (270.0)	108	64	54	49	30	47	61	32	37	80	95	109	766
281.25 - 303.74 (292.5)	106	50	54	34	20	35	45	38	33	85	89	116	705
303.75 - 326.24 (315.0)	105	63	77	50	35	41	52	45	50	81	83	123	805
326.25 - 348.74 (337.5)	355	325	241	174	77	65	70	63	75	145	297	394	2281
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.75 N, LONG: 69.75 W, DEPTH: 91 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 91 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	311	581	29	.	.	.	.	.	.	.	921
1.00 - 1.99	106	1196	778	2	.	.	.	.	.	.	2082
2.00 - 2.99	.	172	1187	10	.	.	.	.	.	.	1369
3.00 - 3.99	.	1	570	234	.	.	.	.	.	.	805
4.00 - 4.99	.	.	44	316	1	.	.	.	.	.	361
5.00 - 5.99	.	.	1	155	5	.	.	.	.	.	161
6.00 - 6.99	.	.	.	66	24	.	.	.	.	.	90
7.00 - 7.99	.	.	.	2	5	.	.	.	.	.	7
8.00 - 8.99	.	.	.	.	5	.	.	.	.	.	5
9.00 - GREATER	.	.	.	.	2	.	.	.	.	.	2
TOTAL	417	1950	2609	785	42	0	0	0	0	0	5803

STATION: 91 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	182	160	35	6	3	.	.	.	.	.	386
1.00 - 1.99	54	676	326	50	1	2	.	.	.	.	1109
2.00 - 2.99	.	99	539	119	3	.	.	.	.	.	760
3.00 - 3.99	.	1	165	253	20	.	.	.	.	.	439
4.00 - 4.99	.	.	25	138	47	.	.	.	.	.	210
5.00 - 5.99	.	.	.	62	62	3	.	.	.	.	127
6.00 - 6.99	.	.	.	21	50	5	.	.	.	.	76
7.00 - 7.99	.	.	.	1	30	15	.	.	.	.	46
8.00 - 8.99	.	.	.	.	15	14	4	.	.	.	33
9.00 - GREATER	.	.	.	.	1	16	7	3	.	.	27
TOTAL	236	936	1090	650	232	55	11	3	0	0	3213

STATION: 91 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	187	263	685	1120	1335	496	84	29	31	2	4232
1.00 - 1.99	53	610	1004	976	1172	687	155	44	24	.	4725
2.00 - 2.99	.	86	380	264	240	185	49	21	19	.	1244
3.00 - 3.99	.	1	107	212	75	58	13	6	11	.	483
4.00 - 4.99	.	.	15	66	32	15	4	4	.	.	136
5.00 - 5.99	.	.	.	34	27	4	1	1	.	.	67
6.00 - 6.99	.	.	.	5	15	5	1	1	.	.	27
7.00 - 7.99	.	.	.	1	14	5	2	.	.	.	22
8.00 - 8.99	.	.	.	.	7	4	2	.	.	.	13
9.00 - GREATER	.	.	.	.	.	11	1	.	.	.	12
TOTAL	240	960	2191	2678	2917	1470	312	106	85	2	10961

STATION: 91 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	211	571	1587	1105	266	64	6	4	3	.	3817
1.00 - 1.99	64	728	1174	1197	581	162	60	21	3	.	3990
2.00 - 2.99	.	120	286	311	178	65	34	4	.	.	998
3.00 - 3.99	.	.	131	107	81	15	9	2	.	.	345
4.00 - 4.99	.	.	24	50	33	18	2	.	.	.	127
5.00 - 5.99	.	.	1	37	27	3	.	.	.	.	68
6.00 - 6.99	.	.	.	16	16	3	.	.	.	.	35
7.00 - 7.99	.	.	.	1	14	3	1	.	.	.	19
8.00 - 8.99	.	.	.	.	5	5	.	.	.	.	10
9.00 - GREATER	.	.	.	.	.	3	1	.	.	.	4
TOTAL	275	1419	3203	2824	1201	341	113	31	6	0	9413

STATION: 91 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	576	1769	3299	802	115	22	5	5	7	2	6602
1.00 - 1.99	255	1641	2872	2136	668	89	26	18	10	.	7715
2.00 - 2.99	.	228	656	772	547	93	29	12	5	2	2344
3.00 - 3.99	.	1	174	162	247	111	15	7	11	.	728
4.00 - 4.99	.	.	22	65	44	63	8	1	.	.	203
5.00 - 5.99	.	.	.	25	10	11	3	.	.	.	49
6.00 - 6.99	.	.	.	7	10	7	.	.	.	.	24
7.00 - 7.99	.	.	.	.	5	5	.	.	.	.	10
8.00 - 8.99	.	.	.	.	4	1	1	.	.	.	6
9.00 - GREATER	.	.	.	.	.	3	.	.	.	.	3
TOTAL	831	3639	7023	3969	1650	405	87	43	33	4	17684

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.75 N, LONG: 69.75 W, DEPTH: 91 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 91 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	860	25	37	3	.	.	.	.	.	.	925
1.00 - 1.99	953	195	21	4	3	.	.	.	.	.	1176
2.00 - 2.99	.	44	11	.	.	.	.	.	.	.	55
3.00 - 3.99	.	2	3	.	.	.	.	.	.	.	5
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1813	266	72	7	3	0	0	0	0	0	2161

STATION: 91 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	743	5	1	.	.	.	.	.	.	.	749
1.00 - 1.99	575	40	4	.	.	.	.	.	.	.	619
2.00 - 2.99	.	18	3	.	.	.	.	.	.	.	21
3.00 - 3.99	.	.	.	1	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1318	63	8	1	0	0	0	0	0	0	1390

STATION: 91 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	364	105	2	.	.	.	.	.	.	.	471
1.00 - 1.99	435	470	152	1	.	.	.	.	.	.	1058
2.00 - 2.99	.	111	259	1	.	.	.	.	.	.	371
3.00 - 3.99	.	10	33	16	.	.	.	.	.	.	59
4.00 - 4.99	.	.	2	14	.	.	.	.	.	.	16
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	799	696	448	32	0	0	0	0	0	0	1975

STATION: 91 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3434	3479	5675	3036	1719	582	95	38	41	4	18103
1.00 - 1.99	2495	5556	6331	4366	2425	940	241	83	37	.	22474
2.00 - 2.99	.	878	3321	1477	968	343	112	37	24	2	7162
3.00 - 3.99	.	16	1183	985	423	184	37	15	22	.	2865
4.00 - 4.99	.	.	132	649	157	96	14	5	.	.	1053
5.00 - 5.99	.	.	2	313	131	21	4	1	.	.	472
6.00 - 6.99	.	.	.	115	115	20	1	1	.	.	252
7.00 - 7.99	.	.	.	5	68	28	3	.	.	.	104
8.00 - 8.99	.	.	.	.	36	24	7	.	.	.	67
9.00 - GREATER	.	.	.	.	3	33	9	3	.	.	48
TOTAL	5929	9929	16644	10946	6045	2271	523	183	124	6	52600

STATION: 91

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	115	83	119	212	320	311	499	602	477	207	101	98	3144
2.50 - 4.99	780	647	922	1215	1720	1834	2239	2238	1866	1361	875	759	16456
5.00 - 7.49	635	696	786	892	1034	1087	1062	993	907	928	882	759	10661
7.50 - 9.99	1167	1091	1105	1048	965	846	555	517	794	1258	1241	1183	11770
10.00 - 12.49	571	640	614	425	248	175	77	80	178	389	536	661	4594
12.50 - 14.99	667	529	525	377	126	65	28	26	91	221	475	553	3683
15.00 - 17.49	238	156	170	93	36	2	4	4	5	61	106	195	1070
17.50 - 19.99	172	139	142	57	14	.	.	2	1	24	67	157	775
20.00 - GREATER	119	91	81	1	1	.	.	2	1	15	37	99	447
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 41.75 N, LONG: 69.75 W, DEPTH: 91 M

STATION: 91

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	610	698	736	547	396	374	266	427	561	521	489	562	6187
22.50 - 67.49 (45.0)	335	367	430	463	459	222	197	295	422	528	405	268	4391
67.50 - 112.49 (90.0)	267	240	310	343	354	223	174	275	367	308	279	252	3392
112.50 - 157.49 (135.0)	245	263	315	391	458	208	335	361	307	391	312	247	3833
157.50 - 202.49 (180.0)	374	257	494	579	686	696	699	674	552	545	443	394	6393
202.50 - 247.49 (225.0)	474	516	567	611	863	1198	1309	1149	833	648	658	574	9400
247.50 - 292.49 (270.0)	943	598	646	682	690	856	895	707	653	820	808	921	9219
292.50 - 337.49 (315.0)	1216	1133	966	704	558	543	589	576	625	703	926	1246	9785
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 91

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.46	2.07	2.10	1.64	1.72	1.16	0.93	1.34	0.98	1.82	1.70	2.22	1.68
1977	2.29	1.93	2.30	1.70	1.16	1.34	1.00	0.82	1.23	1.77	2.01	2.53	1.67
1978	2.81	2.15	2.20	2.01	1.84	1.23	1.06	0.85	1.33	1.51	1.84	2.04	1.74
1979	2.80	3.36	2.53	1.87	1.47	0.95	1.00	1.01	1.40	1.21	1.53	2.28	1.78
1980	3.11	2.22	3.01	2.15	1.19	1.12	1.04	1.23	1.23	1.59	2.53	2.27	1.89
1981	1.94	3.18	2.34	1.90	2.02	1.05	1.01	0.83	1.45	1.28	1.74	1.73	1.70
1982	1.63	1.62	1.16	1.56	1.05	1.36	0.65	0.73	1.05	1.25	1.35	1.38	1.23
1983	1.57	2.10	1.86	1.62	1.50	0.93	0.91	0.82	0.99	1.59	1.73	2.11	1.47
1984	1.78	2.09	2.90	2.19	1.49	1.22	1.15	0.69	0.85	1.22	1.73	1.41	1.56
1985	1.99	2.12	1.80	1.30	1.23	1.28	0.91	0.80	1.15	1.01	1.80	1.46	1.40
1986	2.34	1.74	1.76	2.18	1.73	1.21	0.80	0.97	1.11	1.29	1.61	2.17	1.58
1987	2.22	2.43	2.39	2.19	0.96	0.80	0.59	0.73	0.99	1.23	1.55	1.46	1.46
1988	1.27	1.68	1.46	1.69	1.35	1.04	0.91	0.82	0.87	1.40	1.42	1.43	1.28
1989	1.56	1.55	1.67	1.34	1.34	0.89	0.78	1.02	1.63	1.19	1.75	1.46	1.35
1990	1.35	1.84	1.40	1.56	1.39	1.31	0.99	1.00	1.21	1.60	1.54	1.78	1.41
1991	1.40	1.34	2.05	1.26	0.94	0.86	0.77	1.06	1.22	1.76	1.47	1.57	1.31
1992	1.66	1.84	1.81	1.11	1.17	1.02	0.74	0.81	1.03	1.15	1.26	2.07	1.31
1993	2.01	2.39	2.16	2.29	1.23	1.00	0.80	0.84	1.27	1.48	1.70	2.19	1.61
MEAN	2.01	2.09	2.05	1.75	1.38	1.10	0.89	0.91	1.17	1.41	1.68	1.86	

STATION: 91

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	8312 2	641017	5210 7	5410 4	47 917	28 818	211018	511117	22 617	6210 1	5310 0	50 9 1	8312 2
1977	8013 6	811211	631035	501016	4910 4	4510 4	45 918	23 718	40 815	541015	791310	901310	901310
1978	1211414	10014 8	691112	6912 8	681217	46 919	34 8 6	33 817	38 9 0	36 810	631035	551012	1211414
1979	941310	6811 0	781214	791416	331017	24 7 3	27 814	26 8 8	481016	36 817	561017	571035	941310
1980	14417 7	10513 4	10014 9	561113	40 9 6	291218	26 835	3710 8	28 834	881214	7411 2	7311 3	14417 7
1981	7311 3	1141417	9012 1	511018	6211 5	35 819	31 818	22 719	291617	30 815	5011 6	8011 3	1141417
1982	50 919	47 919	34 817	47 918	24 9 5	43 911	14 7 7	16 718	321213	5110 5	421016	39 8 2	5110 5
1983	4610 8	7312 6	41 8 4	41 8 1	341218	24 718	45 936	28 9 5	29 8 4	41 9 5	461012	641112	7312 6
1984	5010 5	561013	10013 3	771214	32 816	341315	36 819	14 715	24 635	481618	521036	36 8 4	10013 3
1985	681135	831213	591017	601218	48 9 4	4210 5	38 918	29 7 3	661017	43 9 0	591011	461034	831213
1986	6210 0	5310 1	591018	8212 6	8412 4	28 7 3	18 7 8	371018	311218	3810 4	6811 3	8513 6	8513 6
1987	9013 4	10613 3	891313	601216	25 8 5	16 719	15 619	17 619	36 9 6	30 713	8512 3	6710 2	10613 3
1988	43 9 1	621112	421017	39 9 3	33 8 5	39 9 4	22 719	26 714	221514	5910 5	37 818	52 9 4	621112
1989	6810 0	6211 4	50 9 3	45 8 1	37 816	19 8 8	15 717	301214	42 819	4310 4	491117	31 933	6810 0
1990	35 918	46 9 1	34 8 2	40 819	42 917	34 818	251216	261314	28 7 2	52 9 1	5310 3	491114	5310 3
1991	43 912	311217	5210 5	45 9 9	25 7 2	27 7 4	161018	751116	391817	8211 4	4010 5	47 9 2	8211 4
1992	541017	5910 1	45 913	33 8 4	27 8 8	28 812	21 618	24 717	35 8 3	38 8 2	39 818	7413 6	7413 6
1993	6110 5	8712 5	791118	511016	291212	27 836	22 717	211218	36 818	45 835	811216	7611 4	8712 5
MAX	14417 7	1141417	10013 3	8212 6	8412 4	46 919	45 936	751116	661017	881214	8512 3	901310	

MAX Hmo(m): 14.4 MAX Tp(sec): 17. MAX Dp(deg): 65. DATE(gmt): 80011606

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 160. DATE(gmt): 78010912

MEAN Hmo(m): 1.5 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.1 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 69.75 W, DEPTH: 137 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 92

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	76	83	102	100	86	227	413	582	331	206	115	103	2424
0.50 - 0.99	817	569	704	986	1295	1823	2520	2237	1598	1175	871	913	15508
1.00 - 1.49	960	994	924	954	1541	1432	1129	1197	1253	1396	1169	1028	13977
1.50 - 1.99	824	721	822	798	804	507	281	261	655	817	827	745	8062
2.00 - 2.49	496	454	591	500	377	157	61	80	282	392	512	533	4435
2.50 - 2.99	330	357	382	351	155	93	25	57	114	222	322	329	2737
3.00 - 3.49	283	296	315	254	89	47	22	34	56	102	195	260	1953
3.50 - 3.99	205	186	209	168	36	14	7	6	22	69	121	155	1198
4.00 - 4.49	171	113	131	100	20	13	4	3	3	38	60	139	795
4.50 - 4.99	88	67	85	44	28	7	2	2	4	14	36	67	444
5.00 - 5.49	67	55	71	19	11	.	.	2	.	12	28	63	328
5.50 - 5.99	46	55	38	17	7	.	.	1	1	7	24	47	243
6.00 - 6.49	25	36	34	10	9	.	.	1	.	5	15	26	161
6.50 - 6.99	17	19	17	11	3	.	.	.	1	3	8	17	96
7.00 - 7.49	12	13	9	4	1	.	.	.	.	2	9	20	70
7.50 - 7.99	15	7	4	3	.	.	.	1	.	2	3	9	44
8.00 - 8.49	7	11	5	1	2	.	.	.	.	.	4	7	37
8.50 - 8.99	7	12	6	.	.	.	.	.	.	2	1	1	29
9.00 - 9.49	1	7	4	.	.	.	.	.	.	.	.	2	14
9.50 - 9.99	2	3	4	.	.	.	.	.	.	.	.	.	9
10.00 - GREATER	15	14	7	.	.	.	.	.	.	.	.	.	36
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 92

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	76	76	68	50	54	93	211	234	133	119	103	87	1304
4.0 - 4.9	282	247	196	214	244	416	607	583	347	345	394	347	4222
5.0 - 5.9	381	391	294	274	355	378	421	474	362	472	430	456	4688
6.0 - 6.9	571	550	480	439	479	504	642	676	548	659	482	552	6582
7.0 - 7.9	601	586	531	556	809	849	965	962	678	622	580	595	8334
8.0 - 8.9	568	506	578	613	1001	945	873	743	645	546	676	572	8266
9.0 - 9.9	465	458	589	684	671	654	460	288	431	605	570	523	6398
10.0 - 10.9	388	368	524	562	420	292	166	153	332	444	439	439	4527
11.0 - 11.9	334	311	433	436	191	94	74	108	201	292	283	326	3083
12.0 - 12.9	350	255	419	357	142	68	43	90	187	179	147	274	2511
13.0 - 13.9	230	134	200	112	55	22	2	56	144	104	76	190	1325
14.0 - 14.9	119	84	68	23	30	5	.	34	112	34	45	62	616
15.0 - 15.9	52	48	31	.	9	.	.	17	77	26	29	17	306
16.0 - 16.9	12	8	17	.	4	.	.	15	48	7	17	13	141
17.0 - 17.9	16	10	6	.	.	.	.	12	32	10	14	7	107
18.0 - 18.9	10	21	2	.	.	.	.	10	15	.	7	4	69
19.0 - 19.9	5	6	17	.	.	.	.	4	11	.	15	.	58
20.0 - LONGER	4	13	11	.	.	.	.	5	17	.	13	.	63
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 92

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	337	419	247	161	93	75	84	103	152	176	219	294	2360
11.25 - 33.74 (22.5)	126	134	166	105	85	76	36	72	108	136	136	108	1288
33.75 - 56.24 (45.0)	121	153	189	150	158	64	23	68	94	220	142	102	1484
56.25 - 78.74 (67.5)	354	297	374	363	296	133	47	198	213	318	279	312	3184
78.75 - 101.24 (90.0)	336	324	416	513	473	450	155	349	517	463	340	375	4711
101.25 - 123.74 (112.5)	401	292	426	527	597	254	215	452	632	644	498	346	5284
123.75 - 146.24 (135.0)	336	314	410	497	625	477	436	614	559	513	459	370	5610
146.25 - 168.74 (157.5)	422	319	413	514	575	506	558	564	551	525	330	370	5647
168.75 - 191.24 (180.0)	790	704	986	874	1096	1657	2072	1342	963	615	788	814	12701
191.25 - 213.74 (202.5)	90	105	62	53	115	151	238	221	110	90	104	75	1414
213.75 - 236.24 (225.0)	71	91	57	53	66	153	193	162	111	113	104	86	1260
236.25 - 258.74 (247.5)	36	66	43	38	33	73	90	78	50	89	82	93	771
258.75 - 281.24 (270.0)	84	51	35	34	30	34	58	26	32	68	86	80	618
281.25 - 303.74 (292.5)	95	78	62	46	29	54	54	39	42	75	82	122	778
303.75 - 326.24 (315.0)	439	253	336	184	105	103	104	80	81	237	357	473	2752
326.25 - 348.74 (337.5)	426	472	242	208	88	60	101	96	105	182	314	444	2738
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N LONG: 69.75 W DEPTH: 137 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 92 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	346	463									809
1.00 - 1.99	76	1138	240								1454
2.00 - 2.99		150	732								882
3.00 - 3.99		2	622	26							650
4.00 - 4.99			101	210	1						312
5.00 - 5.99			1	168	3						172
6.00 - 6.99				81	2						83
7.00 - 7.99				5	9						14
8.00 - 8.99					6						6
9.00 - GREATER											0
TOTAL	422	1753	1696	490	21	0	0	0	0	0	4382

STATION: 92 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	172	151	23	5	1	3					355
1.00 - 1.99	54	622	300	40	1	2					1019
2.00 - 2.99		99	438	96	1						634
3.00 - 3.99		1	168	188	15						372
4.00 - 4.99			22	151	33						206
5.00 - 5.99				82	52	1					135
6.00 - 6.99				25	36	2					63
7.00 - 7.99				2	17	13					32
8.00 - 8.99					13	6	2				21
9.00 - GREATER					2	10	6				18
TOTAL	226	873	951	589	171	37	8	0	0	0	2855

STATION: 92 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	188	230	711	1046	1043	355	75	34	30	2	3714
1.00 - 1.99	54	603	1023	871	722	342	101	40	26		3782
2.00 - 2.99		90	400	249	161	96	21	19	19		1055
3.00 - 3.99		1	117	230	43	28	7	6	7		439
4.00 - 4.99			18	80	30	2	4	3			137
5.00 - 5.99				20	16	5					41
6.00 - 6.99				5	32	7					44
7.00 - 7.99				1	14	11					26
8.00 - 8.99					10	7	2				19
9.00 - GREATER					1	13	9	3			26
TOTAL	242	924	2269	2502	2072	866	219	105	82	2	9283

STATION: 92 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	216	554	1808	1315	461	104	6	5	2		4471
1.00 - 1.99	69	730	1355	1491	842	340	76	19	1		4923
2.00 - 2.99		123	303	389	270	102	47	3			1237
3.00 - 3.99			143	131	95	35	9	1			414
4.00 - 4.99			22	50	49	14	2				137
5.00 - 5.99				45	31	12					88
6.00 - 6.99				13	19	4					36
7.00 - 7.99				2	16	3					21
8.00 - 8.99					10	1	1				12
9.00 - GREATER					1	7	1				9
TOTAL	285	1407	3631	3436	1794	622	142	28	3	0	11348

STATION: 92 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	566	1519	3179	880	125	22	4	4	7	1	6307
1.00 - 1.99	273	1576	2443	1976	620	89	27	20	10		7034
2.00 - 2.99		244	632	671	506	92	24	12	9	1	2191
3.00 - 3.99		1	185	145	219	108	13	6	6		683
4.00 - 4.99			23	66	35	70	7	1			202
5.00 - 5.99				23	11	16	2				52
6.00 - 6.99				10	8	5					23
7.00 - 7.99					8	5					13
8.00 - 8.99					2	5	1				8
9.00 - GREATER					2	4					6
TOTAL	839	3340	6462	3771	1536	416	78	43	32	2	16519

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 69.75 W, DEPTH: 137 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 92 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	965	6	1	.	.	.	.	.	.	.	972
1.00 - 1.99	1030	326	4	.	.	.	.	.	.	.	1360
2.00 - 2.99	.	58	9	.	.	.	.	.	.	.	67
3.00 - 3.99	.	4	1	.	.	.	.	.	.	.	5
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1995	394	15	0	0	0	0	0	0	0	2404

STATION: 92 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	602	14	.	.	.	.	.	.	.	.	616
1.00 - 1.99	395	57	1	.	.	.	.	.	.	.	453
2.00 - 2.99	.	18	19	.	.	.	.	.	.	.	37
3.00 - 3.99	.	.	2	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	997	89	22	0	0	0	0	0	0	0	1108

STATION: 92 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	354	333	1	.	.	.	.	.	.	.	688
1.00 - 1.99	166	1706	142	.	.	.	.	.	.	.	2014
2.00 - 2.99	.	440	629	.	.	.	.	.	.	.	1069
3.00 - 3.99	.	11	567	8	.	.	.	.	.	.	586
4.00 - 4.99	.	.	211	34	.	.	.	.	.	.	245
5.00 - 5.99	.	.	4	79	.	.	.	.	.	.	83
6.00 - 6.99	.	.	.	8	.	.	.	.	.	.	8
7.00 - 7.99	.	.	.	8	.	.	.	.	.	.	8
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	520	2490	1554	137	0	0	0	0	0	0	4701

STATION: 92 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3409	3270	5723	3246	1630	484	85	43	39	3	17932
1.00 - 1.99	2117	6758	5508	4378	2185	773	204	79	37	.	22039
2.00 - 2.99	.	1222	3162	1405	938	290	92	34	28	1	7172
3.00 - 3.99	.	20	1805	728	372	171	29	13	13	.	3151
4.00 - 4.99	.	.	397	591	148	86	13	4	.	.	1239
5.00 - 5.99	.	.	5	417	113	34	2	.	.	.	571
6.00 - 6.99	.	.	.	142	97	18	.	.	.	.	257
7.00 - 7.99	.	.	.	18	64	32	.	.	.	.	114
8.00 - 8.99	.	.	.	.	41	19	6	.	.	.	66
9.00 - GREATER	.	.	.	.	6	34	16	3	.	.	59
TOTAL	5526	11270	16600	10925	5594	1941	447	176	117	4	52600

STATION: 92

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	131	100	149	239	351	345	537	633	511	250	126	110	3482
2.50 - 4.99	763	652	909	1213	1734	1803	2185	2213	1842	1329	865	760	16268
5.00 - 7.49	653	695	791	880	990	1060	1052	975	891	920	919	767	10593
7.50 - 9.99	1157	1067	1082	1034	956	857	575	531	793	1262	1195	1170	11679
10.00 - 12.49	584	633	630	418	247	178	83	80	184	369	542	656	4604
12.50 - 14.99	656	528	510	377	136	75	26	23	87	231	462	558	3669
15.00 - 17.49	226	163	166	99	35	2	6	7	10	61	104	189	1068
17.50 - 19.99	172	142	141	58	14	.	.	.	.	26	70	151	774
20.00 - GREATER	122	92	86	2	1	.	.	2	2	16	37	103	463
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 69.75 W, DEPTH: 137 M

STATION: 92

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	611	701	722	542	397	380	264	431	546	493	493	547	6127
22.50 - 67.49 (45.0)	346	379	443	471	462	234	194	304	411	523	390	265	4422
67.50 - 112.49 (90.0)	270	232	308	351	342	212	164	266	357	294	279	263	3338
112.50 - 157.49 (135.0)	232	263	309	377	461	226	302	338	286	372	311	252	3729
157.50 - 202.49 (180.0)	373	258	498	592	708	677	730	695	557	570	458	376	6492
202.50 - 247.49 (225.0)	494	523	580	612	855	1200	1309	1151	875	675	656	602	9532
247.50 - 292.49 (270.0)	937	609	647	658	670	848	879	716	667	833	807	932	9203
292.50 - 337.49 (315.0)	1201	1107	957	717	569	543	622	563	621	704	926	1227	9757
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 92

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.57	2.11	2.17	1.71	1.75	1.13	0.93	1.35	0.99	1.85	1.86	2.47	1.74
1977	2.47	2.07	2.40	1.76	1.20	1.38	1.01	0.82	1.26	1.82	2.07	2.67	1.74
1978	2.93	2.30	2.32	2.09	1.90	1.30	1.06	0.84	1.31	1.53	1.84	2.23	1.80
1979	2.92	3.46	2.61	1.95	1.49	0.98	1.04	1.04	1.41	1.26	1.55	2.41	1.83
1980	3.25	2.29	3.07	2.17	1.20	1.11	1.03	1.23	1.25	1.63	2.66	2.39	1.94
1981	2.04	3.27	2.33	1.96	2.02	1.08	1.01	0.85	1.45	1.28	1.78	1.77	1.73
1982	1.66	1.63	1.18	1.62	1.03	1.34	0.66	0.72	1.03	1.22	1.37	1.38	1.23
1983	1.62	2.13	1.92	1.62	1.53	0.94	0.93	0.82	1.00	1.58	1.85	2.18	1.51
1984	1.78	2.14	2.97	2.22	1.48	1.25	1.14	0.70	0.86	1.23	1.80	1.47	1.58
1985	2.12	2.20	1.84	1.32	1.23	1.30	0.89	0.83	1.14	1.07	1.82	1.53	1.43
1986	2.42	1.79	1.79	2.16	1.70	1.22	0.82	0.97	1.10	1.28	1.66	2.19	1.59
1987	2.32	2.58	2.32	2.20	0.97	0.80	0.58	0.73	1.01	1.25	1.59	1.51	1.48
1988	1.30	1.71	1.53	1.72	1.35	1.04	0.88	0.81	0.89	1.43	1.47	1.47	1.30
1989	1.60	1.57	1.64	1.36	1.36	0.89	0.77	1.02	1.61	1.21	1.81	1.63	1.37
1990	1.39	1.85	1.42	1.58	1.40	1.32	0.97	1.01	1.22	1.65	1.61	1.81	1.43
1991	1.43	1.37	2.11	1.26	0.95	0.86	0.75	1.06	1.22	1.77	1.49	1.64	1.33
1992	1.77	1.88	1.86	1.14	1.14	1.03	0.72	0.81	1.02	1.16	1.25	2.15	1.33
1993	2.05	2.40	2.19	2.28	1.26	1.02	0.81	0.82	1.27	1.52	1.70	2.21	1.62
MEAN	2.09	2.15	2.09	1.78	1.39	1.11	0.89	0.91	1.17	1.43	1.73	1.95	

STATION: 92

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	8411 2	651116	6110 6	4910 7	47 917	28 818	211018	511016	22 617	6310 1	50 935	57 932	8411 2
1977	7913 7	851212	641035	511016	5010 3	4611 7	47 918	26 718	41 815	551015	811311	941310	941310
1978	1301516	11214 9	691113	6711 6	691217	471018	34 8 6	33 817	38 936	36 819	621017	591034	1301516
1979	1041311	791135	811215	821417	34 916	22 7 3	28 814	271018	491017	37 918	551017	681034	1041311
1980	15317 8	10813 5	10614 9	581114	38 9 6	37 832	31 732	3610 8	35 832	871215	7411 3	751033	15317 8
1981	751032	1201417	8611 0	531018	6111 6	38 818	30 818	22 719	32 732	32 816	5510 4	7411 4	1201417
1982	48 918	49 919	35 817	501018	23 9 6	45 9 3	15 7 8	15 816	321213	5110 6	411016	38 8 3	5110 6
1983	43 915	7411 4	44 9 5	4311 9	33 818	22 618	46 936	28 9 5	28 7 2	41 9 5	50 830	601112	7411 4
1984	48 9 4	591013	1071410	781215	33 816	351215	37 818	14 715	24 635	461718	621035	41 831	1071410
1985	801135	851214	601017	591118	48 9 4	4410 5	38 819	31 8 4	671017	44 936	591012	591033	851214
1986	611113	52 9 1	601018	7711 5	8012 4	29 734	19 7 8	361018	31 8 1	40 8 2	6610 2	8414 8	8414 8
1987	8912 3	10713 3	931315	621316	26 8 5	16 718	14 718	18 619	36 9 7	30 713	8512 4	6410 3	10713 3
1988	44 9 0	611012	421017	39 8 1	34 8 6	39 835	20 719	26 714	241414	6010 6	39 834	51 9 4	611012
1989	6610 0	5911 4	50 9 3	44 9 7	37 816	21 8 8	15 717	311214	42 819	4310 5	55 933	43 830	6610 0
1990	37 730	43 9 2	33 817	39 819	42 917	35 818	251216	271314	27 7 2	51 9 2	50 9 2	501013	51 9 2
1991	41 912	31 733	5310 5	48 9 9	31 731	27 7 4	15 918	761116	371817	7913 6	4010 5	45 9 3	7913 6
1992	541017	5510 2	45 913	34 831	24 8 8	28 812	22 618	24 717	34 8 4	35 8 3	39 818	8114 7	8114 7
1993	5710 6	8413 8	741118	521016	31 731	32 733	22 717	221218	35 818	44 836	811216	7512 7	8413 8
MAX	15317 8	1201417	1071410	821417	8012 4	471018	47 918	761116	671017	871215	8512 4	941310	

MAX Hmo(m): 15.3 MAX Tp(sec): 17. MAX Dp(deg): 79. DATE(gmt): 80011606

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 160. DATE(gmt): 78010912

MEAN Hmo(m): 1.6 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.1 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 70.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 93

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	544	435	632	912	1520	1743	2313	2358	1837	1166	655	537	14652
0.50 - 0.99	1374	1299	1459	1690	1875	1836	1743	1683	1625	1795	1657	1557	19593
1.00 - 1.49	1333	1165	1240	996	750	587	354	339	633	1014	1289	1307	11007
1.50 - 1.99	602	484	453	389	180	97	35	57	166	258	377	515	3613
2.00 - 2.49	257	261	286	176	61	27	7	23	43	105	160	252	1658
2.50 - 2.99	130	173	161	85	31	15	8	3	15	55	86	138	900
3.00 - 3.49	91	81	102	48	25	10	2	.	1	37	32	67	496
3.50 - 3.99	59	64	70	15	17	5	2	1	.	21	35	41	330
4.00 - 4.49	29	54	28	7	3	.	.	.	.	8	19	28	176
4.50 - 4.99	20	29	20	2	2	.	.	.	.	5	6	16	100
5.00 - 5.49	10	8	7	.	.	.	.	.	.	.	3	6	34
5.50 - 5.99	6	8	3	.	.	.	.	.	.	.	1	.	18
6.00 - 6.49	3	7	1	.	.	.	.	.	.	.	.	.	11
6.50 - 6.99	2	4	1	.	.	.	.	.	.	.	.	.	7
7.00 - 7.49	3	.	.	.	.	.	.	.	.	.	.	.	3
7.50 - 7.99	1	.	1	.	.	.	.	.	.	.	.	.	2
8.00 - 8.49	.	.	.	.	.	.	.	.	.	.	.	.	0
8.50 - 8.99	.	.	.	.	.	.	.	.	.	.	.	.	0
9.00 - 9.49	.	.	.	.	.	.	.	.	.	.	.	.	0
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 93

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	775	666	768	1020	1634	1953	2630	2318	1742	1326	1002	942	16776
4.0 - 4.9	1608	1415	1524	1430	1319	1429	1258	1206	1217	1635	1834	1782	17657
5.0 - 5.9	924	821	818	641	460	228	142	282	363	558	703	791	6731
6.0 - 6.9	331	332	356	260	259	116	53	88	236	253	207	311	2802
7.0 - 7.9	194	236	241	190	127	80	32	62	107	145	144	167	1725
8.0 - 8.9	168	185	192	172	86	63	37	97	70	97	126	110	1403
9.0 - 9.9	104	120	102	76	105	131	73	117	58	65	78	79	1108
10.0 - 10.9	61	46	70	92	120	82	73	97	91	73	25	56	886
11.0 - 11.9	54	35	60	105	141	132	61	56	79	80	29	27	859
12.0 - 12.9	62	38	61	127	83	44	59	44	62	73	13	43	709
13.0 - 13.9	46	55	85	93	50	36	35	41	68	46	32	74	661
14.0 - 14.9	61	38	79	55	54	18	8	32	80	69	33	40	567
15.0 - 15.9	31	33	38	38	16	4	3	13	58	25	14	18	291
16.0 - 16.9	18	9	35	19	5	3	.	6	24	4	14	13	150
17.0 - 17.9	15	3	4	1	5	1	.	1	11	12	19	9	81
18.0 - 18.9	8	18	3	1	.	.	.	2	14	3	15	2	66
19.0 - 19.9	4	14	9	.	.	.	.	2	15	.	17	.	61
20.0 - LONGER	.	8	19	.	.	.	.	.	25	.	15	.	67
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 93

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	618	747	669	466	342	404	443	435	515	393	514	531	6077
11.25 - 33.74 (22.5)	268	312	373	307	292	262	199	271	269	352	239	213	3357
33.75 - 56.24 (45.0)	552	493	715	964	883	557	377	630	828	736	489	421	7645
56.25 - 78.74 (67.5)	62	52	93	90	239	93	77	229	202	133	92	45	1407
78.75 - 101.24 (90.0)	76	69	94	83	98	57	34	76	87	88	55	78	895
101.25 - 123.74 (112.5)	92	80	97	146	111	62	63	52	66	100	115	92	1076
123.75 - 146.24 (135.0)	95	110	79	111	115	67	67	115	79	126	106	91	1161
146.25 - 168.74 (157.5)	113	96	142	180	228	91	155	130	109	143	120	125	1632
168.75 - 191.24 (180.0)	185	115	287	284	339	289	339	290	256	326	251	206	3167
191.25 - 213.74 (202.5)	198	219	281	311	406	484	586	496	340	264	286	239	4110
213.75 - 236.24 (225.0)	213	221	204	218	324	533	527	460	382	261	276	283	3902
236.25 - 258.74 (247.5)	212	231	187	165	239	395	434	358	270	299	284	258	3332
258.75 - 281.24 (270.0)	478	249	248	254	252	374	373	258	246	335	434	462	3963
281.25 - 303.74 (292.5)	478	295	339	235	215	239	276	223	205	375	361	457	3698
303.75 - 326.24 (315.0)	489	407	432	248	229	244	259	224	240	292	396	562	4022
326.25 - 348.74 (337.5)	335	376	224	258	152	169	255	217	226	241	302	401	3156
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 70.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 93 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3999	713	5	56	46	31	3	2	.	.	4855
1.00 - 1.99	270	2034	167	.	.	.	.	.	.	.	2471
2.00 - 2.99	.	248	918	6	.	.	.	.	.	.	1172
3.00 - 3.99	.	2	444	135	.	.	.	.	.	.	581
4.00 - 4.99	.	.	9	186	4	1	.	.	.	.	200
5.00 - 5.99	.	.	.	16	10	1	.	.	.	.	27
6.00 - 6.99	.	.	.	.	4	1	.	.	.	.	5
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4269	2997	1543	399	64	34	3	2	0	0	9311

STATION: 93 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1597	1215	802	1056	1324	1077	375	92	90	4	7632
1.00 - 1.99	149	823	351	222	64	77	44	32	25	.	1787
2.00 - 2.99	.	102	311	68	33	12	3	15	9	.	553
3.00 - 3.99	.	.	60	104	17	8	.	4	.	.	193
4.00 - 4.99	.	.	4	48	15	5	4	.	.	.	76
5.00 - 5.99	.	.	.	3	13	5	4	.	.	.	25
6.00 - 6.99	.	.	.	.	8	1	3	1	.	.	13
7.00 - 7.99	.	.	.	.	1	2	1	1	.	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1746	2140	1528	1501	1475	1187	434	145	124	4	10284

STATION: 93 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1341	3	.	.	.	.	.	.	.	.	1344
1.00 - 1.99	275	76	.	.	.	.	.	.	.	.	351
2.00 - 2.99	.	24	.	.	.	.	.	.	.	.	24
3.00 - 3.99	.	4	.	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1616	107	0	0	0	0	0	0	0	0	1723

STATION: 93 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1478	.	.	.	.	.	.	.	.	.	1478
1.00 - 1.99	416	370	.	.	.	.	.	.	.	.	786
2.00 - 2.99	.	151	.	.	.	.	.	.	.	.	151
3.00 - 3.99	.	6	9	.	.	.	.	.	.	.	15
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1894	527	9	0	0	0	0	0	0	0	2430

STATION: 93 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4427	.	.	.	.	.	.	.	.	.	4427
1.00 - 1.99	1174	481	.	.	.	.	.	.	.	.	1655
2.00 - 2.99	.	97	.	.	.	.	.	.	.	.	97
3.00 - 3.99	.	3	2	.	.	.	.	.	.	.	5
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5601	581	2	0	0	0	0	0	0	0	6184

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 70.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 93 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	4917	.	.	.	.	.	.	.	.	.	4917
1.00 - 1.99	1740	814	.	.	.	.	.	.	.	.	2554
2.00 - 2.99	.	85	.	.	.	.	.	.	.	.	85
3.00 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6657	899	0	0	0	0	0	0	0	0	7556

STATION: 93 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5653	.	17	57	15	2	1	.	.	.	5745
1.00 - 1.99	1463	233	.	.	.	.	.	.	.	.	1696
2.00 - 2.99	.	61	.	.	.	.	.	.	.	.	61
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	7116	295	17	57	15	2	1	0	0	0	7503

STATION: 93 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3765	5	18	37	14	5	3	.	.	.	3847
1.00 - 1.99	1769	1551	.	.	.	.	.	.	.	.	3320
2.00 - 2.99	.	415	.	.	.	.	.	.	.	.	415
3.00 - 3.99	.	16	11	.	.	.	.	.	.	.	27
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5534	1987	29	37	14	5	3	0	0	0	7609

STATION: 93 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	27177	1936	842	1206	1399	1115	382	94	90	4	34245
1.00 - 1.99	7256	6382	518	222	64	77	44	32	25	.	14620
2.00 - 2.99	.	1183	1229	74	33	12	3	15	9	.	2558
3.00 - 3.99	.	32	526	239	17	8	.	4	.	.	826
4.00 - 4.99	.	.	13	234	19	6	4	.	.	.	276
5.00 - 5.99	.	.	.	19	23	6	4	.	.	.	52
6.00 - 6.99	.	.	.	.	12	2	3	1	.	.	18
7.00 - 7.99	.	.	.	.	1	2	1	1	.	.	5
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	34433	9533	3128	1994	1568	1228	441	147	124	4	52600

STATION: 93

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	118	96	144	231	342	360	556	675	515	261	124	100	3522
2.50 - 4.99	807	704	926	1226	1767	1857	2223	2207	1829	1337	903	792	16578
5.00 - 7.49	678	705	814	897	1019	1066	1068	959	932	983	920	786	10827
7.50 - 9.99	1173	1096	1102	1052	914	808	515	519	783	1224	1199	1226	11611
10.00 - 12.49	577	612	633	424	258	162	73	78	178	356	568	640	4559
12.50 - 14.99	636	479	474	347	132	63	24	21	78	216	418	534	3422
15.00 - 17.49	200	162	168	90	15	4	5	2	3	50	93	152	944
17.50 - 19.99	171	131	129	50	16	.	.	1	1	24	65	149	737
20.00 - GREATER	104	87	74	3	1	.	.	2	1	13	30	85	400
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.00 N, LONG: 70.50 W, DEPTH: 18 M

STATION: 93

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	595	703	753	534	410	400	285	450	531	471	462	540	6134
22.50 - 67.49 (45.0)	337	362	403	462	442	233	199	307	422	514	374	229	4284
67.50 - 112.49 (90.0)	275	231	310	355	323	186	159	272	333	286	272	270	3272
112.50 - 157.49 (135.0)	222	261	310	391	453	244	289	328	302	372	311	248	3731
157.50 - 202.49 (180.0)	362	262	507	594	698	609	704	649	571	569	470	394	6389
202.50 - 247.49 (225.0)	524	543	574	604	871	1194	1303	1158	878	674	680	615	9618
247.50 - 292.49 (270.0)	959	632	670	639	676	873	864	696	649	844	832	948	9282
292.50 - 337.49 (315.0)	1190	1078	937	741	591	581	661	604	634	734	919	1220	9890
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 93

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.53	1.39	1.31	1.02	0.86	0.73	0.56	0.67	0.52	1.12	1.12	1.34	1.01
1977	1.51	1.27	1.47	0.93	0.92	0.80	0.68	0.56	0.76	1.08	1.04	1.38	1.03
1978	1.46	1.44	1.32	1.29	0.81	0.74	0.70	0.53	0.85	0.94	1.11	1.29	1.04
1979	1.60	2.22	1.30	0.96	0.69	0.66	0.50	0.58	0.71	0.78	0.91	1.35	1.01
1980	1.76	1.49	1.67	1.03	0.66	0.60	0.58	0.70	0.74	0.91	1.55	1.41	1.09
1981	1.27	1.51	1.44	1.21	1.12	0.67	0.58	0.46	0.64	0.78	1.09	0.98	0.97
1982	1.10	1.00	0.63	0.98	0.46	0.63	0.41	0.38	0.46	0.67	0.65	0.86	0.68
1983	0.91	1.26	1.01	0.68	0.78	0.38	0.64	0.53	0.55	0.99	1.01	1.28	0.83
1984	1.17	1.15	1.80	1.14	0.75	0.62	0.56	0.41	0.55	0.69	1.15	0.88	0.91
1985	1.42	1.29	1.23	0.73	0.71	0.72	0.44	0.50	0.62	0.69	1.11	0.98	0.87
1986	1.37	1.20	0.97	1.16	0.98	0.77	0.43	0.54	0.60	0.84	1.04	1.30	0.93
1987	1.44	1.67	1.47	0.98	0.55	0.45	0.30	0.38	0.58	0.64	1.05	1.01	0.87
1988	0.82	0.95	0.77	1.02	0.64	0.60	0.41	0.50	0.49	0.96	0.88	1.00	0.75
1989	0.97	1.04	1.04	0.68	0.55	0.40	0.40	0.44	0.58	0.75	1.00	1.05	0.74
1990	0.82	1.13	0.80	0.75	0.70	0.55	0.49	0.45	0.55	0.87	1.08	1.02	0.77
1991	0.93	0.82	1.16	0.71	0.58	0.60	0.41	0.59	0.67	0.99	1.00	1.06	0.79
1992	0.95	1.16	0.96	0.67	0.61	0.54	0.44	0.44	0.66	0.71	0.73	1.26	0.76
1993	1.13	1.40	1.17	1.13	0.58	0.63	0.49	0.43	0.68	0.88	0.91	1.33	0.89
MEAN	1.23	1.30	1.20	0.95	0.72	0.62	0.50	0.50	0.62	0.85	1.02	1.15	

STATION: 93

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	5711 1	34 836	36 835	34 835	26 623	22 6 2	18 636	18 522	17 6 0	46 9 1	38 9 0	32 8 1	5711 1
1977	48 9 0	4710 0	45 935	25 613	39 9 2	37 9 2	27 736	15 636	21 6 0	41 9 5	35 835	42 9 4	48 9 0
1978	4510 3	6215 3	37 9 0	4610 3	23 612	17 535	26 7 2	19 6 2	32 8 0	30 8 1	42 935	38 835	6215 3
1979	5110 1	47 936	36 8 1	25 632	22 634	21 6 0	14 6 0	16 5 5	24 8 3	19 524	30 8 0	40 835	5110 1
1980	7516 4	6012 3	5514 4	34 8 1	27 8 4	18 530	17 534	26 8 5	19 530	34 714	4910 1	4910 1	7516 4
1981	45 9 0	6615 4	531036	35 835	4010 3	18 522	15 535	15 5 4	14 530	21 6 2	4110 3	5110 0	6615 4
1982	31 8 0	31 8 2	15 527	25 8 1	17 6 1	32 8 1	11 424	12 421	17 6 4	32 8 3	14 524	28 7 1	32 8 3
1983	31 8 3	5311 3	39 9 2	30 8 0	29 736	11 4 2	36 835	24 7 2	24 7 2	35 8 3	32 732	36 8 0	5311 3
1984	38 9 1	37 9 0	7517 3	33 836	20 7 1	27 8 1	14 519	15 6 1	19 635	30 9 4	39 9 0	27 7 3	7517 3
1985	5511 0	44 935	34 836	20 636	34 8 1	34 9 3	15 520	26 6 2	28 612	28 8 0	33 8 0	28 7 1	5511 0
1986	41 9 0	39 936	29 621	4210 3	4810 2	25 7 0	13 5 5	19 530	26 735	28 7 2	45 9 1	5212 3	5212 3
1987	5912 3	6811 1	4910 2	37 9 3	24 8 3	11 423	12 423	12 420	25 7 4	19 6 1	5512 3	43 9 1	6811 1
1988	34 836	34 735	21 6 1	30 9 2	29 8 4	28 736	11 421	14 514	16 5 1	4210 3	25 736	31 7 1	4210 3
1989	4710 1	4710 3	41 9 2	29 7 0	18 516	11 430	12 423	10 423	20 635	36 9 4	29 8 1	21 631	4710 3
1990	20 530	34 835	30 8 1	17 6 0	26 8 0	20 6 1	17 6 2	18 7 5	24 7 1	38 9 2	37 9 2	26 736	38 9 2
1991	27 7 2	17 530	4010 3	33 8 5	23 7 1	26 7 3	10 423	35 718	22 7 0	4810 2	33 9 3	36 8 1	4810 2
1992	32 8 5	40 9 1	27 7 3	25 7 2	19 7 5	15 5 1	12 419	13 418	28 7 2	27 7 1	20 6 0	5211 3	5211 3
1993	41 9 4	4910 2	45 9 1	35 8 2	14 532	21 635	12 418	15 5 1	16 636	29 735	31 8 3	4910 2	4910 2
MAX	7516 4	6811 1	7517 3	4610 3	4810 2	37 9 2	36 835	35 718	32 8 0	4810 2	5512 3	5211 3	

MAX Hmo(m): 7.5 MAX Tp(sec): 17. MAX Dp(deg): 32. DATE(gmt): 84033012

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 165. DATE(gmt): 78010912

MEAN Hmo(m): 0.9 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.7 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.25 N, LONG: 70.50 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 94

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	304	233	343	350	619	1025	1849	1587	944	525	363	319	8461
0.50 - 0.99	1194	1080	1117	1355	1898	2043	2011	2101	1852	1658	1362	1311	18982
1.00 - 1.49	1275	1129	1180	1177	1267	887	494	568	1050	1377	1346	1236	12986
1.50 - 1.99	691	634	696	633	399	229	74	130	314	517	640	691	5648
2.00 - 2.49	386	356	436	369	131	83	15	57	97	175	260	349	2714
2.50 - 2.99	209	221	255	194	53	23	17	18	46	87	136	225	1484
3.00 - 3.49	140	138	176	143	31	14	1	1	15	62	80	123	924
3.50 - 3.99	96	79	92	42	30	11	3	1	2	34	51	80	521
4.00 - 4.49	56	68	72	29	19	5	.	.	.	11	32	47	339
4.50 - 4.99	33	56	42	17	9	.	.	.	.	8	29	34	228
5.00 - 5.49	25	23	23	7	4	.	.	.	.	5	11	23	121
5.50 - 5.99	17	14	11	2	1	.	.	1	.	2	4	9	61
6.00 - 6.49	12	8	3	2	1	.	.	.	.	3	5	10	44
6.50 - 6.99	7	5	3	.	2	.	.	.	.	.	1	7	25
7.00 - 7.49	5	6	3	.	.	.	.	.	.	.	.	.	14
7.50 - 7.99	2	7	2	.	.	.	.	.	.	.	.	.	11
8.00 - 8.49	2	5	7	.	.	.	.	.	.	.	.	.	14
8.50 - 8.99	2	7	2	.	.	.	.	.	.	.	.	.	11
9.00 - 9.49	1	3	.	.	.	.	.	.	.	.	.	.	4
9.50 - 9.99	2	.	1	.	.	.	.	.	.	.	.	.	3
10.00 - GREATER	5	.	.	.	.	.	.	.	.	.	.	.	5
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 94

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	311	247	210	277	427	827	1346	1073	614	371	327	410	6440
4.0 - 4.9	1086	906	817	788	887	1123	1237	1100	909	1034	1112	1147	12146
5.0 - 5.9	773	724	724	567	562	344	235	328	405	574	716	737	6689
6.0 - 6.9	365	349	345	305	370	200	302	308	297	319	255	342	3757
7.0 - 7.9	235	314	305	310	388	236	280	398	330	302	239	192	3529
8.0 - 8.9	210	264	233	242	319	335	354	465	374	261	239	168	3464
9.0 - 9.9	219	252	197	271	442	431	309	246	317	349	260	184	3477
10.0 - 10.9	169	166	258	328	400	379	167	180	280	406	276	251	3260
11.0 - 11.9	227	218	329	387	299	224	111	120	209	315	212	235	2886
12.0 - 12.9	261	220	345	401	196	135	83	97	162	271	263	263	2697
13.0 - 13.9	218	162	341	231	87	56	29	58	158	124	176	255	1895
14.0 - 14.9	211	98	185	159	58	27	9	38	117	87	100	149	1238
15.0 - 15.9	84	74	95	41	18	2	2	13	58	30	43	90	550
16.0 - 16.9	45	20	37	10	11	1	.	11	33	8	31	27	234
17.0 - 17.9	32	14	10	2	.	.	.	14	25	13	32	10	152
18.0 - 18.9	9	22	6	1	.	.	.	4	15	.	10	4	71
19.0 - 19.9	5	16	8	.	.	.	.	4	4	.	16	.	53
20.0 - LONGER	4	6	19	.	.	.	.	7	13	.	13	.	62
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 94

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	364	451	306	239	139	194	211	185	247	204	258	307	3105
11.25 - 33.74 (22.5)	175	199	213	131	105	127	81	108	157	155	141	135	1727
33.75 - 56.24 (45.0)	129	191	172	162	156	104	93	95	130	251	154	107	1744
56.25 - 78.74 (67.5)	322	281	390	351	346	214	125	289	259	283	314	265	3439
78.75 - 101.24 (90.0)	1227	1049	1461	1685	1603	1244	711	1132	1423	1491	1229	1234	15489
101.25 - 123.74 (112.5)	220	217	284	299	453	319	585	542	455	390	308	234	4306
123.75 - 146.24 (135.0)	100	97	114	117	202	234	353	294	226	175	99	94	2105
146.25 - 168.74 (157.5)	66	53	81	79	149	52	110	83	72	69	65	72	951
168.75 - 191.24 (180.0)	145	120	222	254	262	247	253	229	195	228	221	173	2549
191.25 - 213.74 (202.5)	169	206	207	199	272	382	503	397	251	175	222	171	3154
213.75 - 236.24 (225.0)	159	172	139	140	189	366	442	361	257	171	222	205	2823
236.25 - 258.74 (247.5)	157	155	122	84	124	229	263	232	146	166	170	172	2020
258.75 - 281.24 (270.0)	306	139	122	133	101	215	219	117	127	192	212	314	2197
281.25 - 303.74 (292.5)	326	169	176	138	107	121	167	122	104	209	208	329	2176
303.75 - 326.24 (315.0)	342	278	300	157	154	170	187	146	135	158	294	401	2722
326.25 - 348.74 (337.5)	257	295	155	152	102	102	161	132	136	147	203	251	2093
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.25 N, LONG: 70.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 94 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1526	298									1824
1.00 - 1.99	230	1381	27								1638
2.00 - 2.99	.	285	467								752
3.00 - 3.99	.	1	412								413
4.00 - 4.99	.	.	94	84							178
5.00 - 5.99	.	.	1	34							35
6.00 - 6.99	.	.	.	3							3
7.00 - 7.99	.	.	.	.							0
8.00 - 8.99	.	.	.	.							0
9.00 - GREATER	.	.	.	.							0
TOTAL	1756	1965	1001	121	0	0	0	0	0	0	4843

STATION: 94 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	633	354	80	53	198	150	73	4	.	.	1545
1.00 - 1.99	72	816	286	49	4	12	7	.	.	.	1246
2.00 - 2.99	.	102	473	57	8	1	.	.	.	.	641
3.00 - 3.99	.	.	234	92	7	.	.	.	.	.	333
4.00 - 4.99	.	.	17	113	10	.	.	.	.	.	140
5.00 - 5.99	.	.	.	38	16	2	.	.	.	.	56
6.00 - 6.99	.	.	.	3	9	7	1	.	.	.	20
7.00 - 7.99	.	.	.	.	4	2	3	.	.	.	9
8.00 - 8.99	.	.	.	.	1	2	1	1	.	.	5
9.00 - GREATER	.	.	.	.	.	1	.	1	.	.	2
TOTAL	705	1272	1090	405	257	177	85	6	0	0	3997

STATION: 94 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	487	1058	1969	2956	2643	1254	222	80	60	4	10733
1.00 - 1.99	81	702	1045	1435	1670	1119	235	68	17	1	6373
2.00 - 2.99	.	107	372	443	351	306	155	20	8	.	1762
3.00 - 3.99	.	1	94	150	152	124	31	17	11	.	580
4.00 - 4.99	.	.	11	56	67	55	23	8	14	.	234
5.00 - 5.99	.	.	.	16	33	24	6	12	.	.	91
6.00 - 6.99	.	.	.	3	13	21	6	3	.	.	46
7.00 - 7.99	.	.	.	.	3	6	5	2	.	.	16
8.00 - 8.99	.	.	.	.	.	7	12	1	.	.	20
9.00 - GREATER	.	.	.	.	.	.	4	6	.	.	10
TOTAL	568	1868	3491	5059	4932	2916	699	217	110	5	19865

STATION: 94 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	668	307	1226	1038	332	32	.	.	.	.	3603
1.00 - 1.99	306	226	69	80	48	8	.	.	.	.	737
2.00 - 2.99	.	64	42	18	8	.	.	.	.	.	132
3.00 - 3.99	.	3	7	13	6	.	.	.	.	.	29
4.00 - 4.99	.	.	.	3	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	974	600	1344	1152	394	40	0	0	0	0	4504

STATION: 94 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1798	2	.	.	.	.	.	.	.	.	1800
1.00 - 1.99	761	1769	.	.	.	.	.	.	.	.	2530
2.00 - 2.99	.	312	5	.	.	.	.	.	.	.	317
3.00 - 3.99	.	3	45	.	.	.	.	.	.	.	48
4.00 - 4.99	.	.	9	.	.	.	.	.	.	.	9
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2559	2086	59	0	0	0	0	0	0	0	4704

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.25 N, LONG: 70.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 94 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3077	.	.	.	.	.	.	.	.	.	3077
1.00 - 1.99	1521	676	.	.	.	.	.	.	.	.	2197
2.00 - 2.99	.	101	.	.	.	.	.	.	.	.	101
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4598	778	0	0	0	0	0	0	0	0	5376

STATION: 94 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2871	.	.	.	.	.	.	.	.	.	2871
1.00 - 1.99	1146	164	.	.	.	.	.	.	.	.	1310
2.00 - 2.99	.	48	.	.	.	.	.	.	.	.	48
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4017	213	0	0	0	0	0	0	0	0	4230

STATION: 94 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1986	4	.	.	.	.	.	.	.	.	1990
1.00 - 1.99	1423	1180	.	.	.	.	.	.	.	.	2603
2.00 - 2.99	.	445	.	.	.	.	.	.	.	.	445
3.00 - 3.99	.	35	5	.	.	.	.	.	.	.	40
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3409	1664	8	0	0	0	0	0	0	0	5081

STATION: 94 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	13046	2023	3275	4047	3173	1436	295	84	60	4	27443
1.00 - 1.99	5540	6914	1427	1564	1722	1139	242	68	17	1	18634
2.00 - 2.99	.	1464	1359	518	367	307	155	20	8	.	4198
3.00 - 3.99	.	45	797	255	165	124	31	17	11	.	1445
4.00 - 4.99	.	.	134	256	77	55	23	8	14	.	567
5.00 - 5.99	.	.	1	88	49	26	6	12	.	.	182
6.00 - 6.99	.	.	.	9	22	28	7	3	.	.	69
7.00 - 7.99	.	.	.	.	7	8	8	2	.	.	25
8.00 - 8.99	.	.	.	.	1	9	13	2	.	.	25
9.00 - GREATER	.	.	.	.	.	1	4	7	.	.	12
TOTAL	18586	10446	6993	6737	5583	3133	784	223	110	5	52600

STATION: 94

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	125	100	149	234	352	363	559	667	498	262	121	98	3528
2.50 - 4.99	799	716	923	1229	1764	1876	2214	2224	1828	1328	920	806	16627
5.00 - 7.49	695	702	831	917	1012	1044	1062	948	944	1008	918	795	10876
7.50 - 9.99	1166	1090	1104	1014	914	801	538	522	784	1219	1203	1220	11575
10.00 - 12.49	581	604	620	429	252	165	62	76	191	339	564	635	4518
12.50 - 14.99	622	474	476	354	140	66	24	22	69	222	410	528	3407
15.00 - 17.49	197	171	158	91	16	5	5	2	4	51	86	153	939
17.50 - 19.99	168	127	127	47	13	.	.	1	.	23	69	144	719
20.00 - GREATER	111	88	76	5	1	.	.	2	2	12	29	85	411
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.25 N, LONG: 70.50 W, DEPTH: 27 M

STATION: 94

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	614	712	742	535	408	392	291	442	511	468	474	535	6124
22.50 - 67.49 (45.0)	335	360	409	477	448	221	198	302	398	487	354	218	4207
67.50 - 112.49 (90.0)	253	217	298	353	315	177	145	252	318	272	262	265	3127
112.50 - 157.49 (135.0)	243	267	317	378	440	259	265	339	301	362	316	263	3750
157.50 - 202.49 (180.0)	370	264	514	622	732	600	714	661	580	599	484	391	6531
202.50 - 247.49 (225.0)	533	549	574	588	855	1188	1301	1147	894	679	685	630	9623
247.50 - 292.49 (270.0)	953	639	650	632	657	879	879	707	675	862	830	929	9292
292.50 - 337.49 (315.0)	1163	1064	960	735	609	604	671	614	643	735	915	1233	9946
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 94

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.80	1.51	1.64	1.37	1.09	0.78	0.64	0.92	0.74	1.37	1.30	1.59	1.23
1977	1.73	1.47	1.78	1.18	1.04	1.07	0.75	0.62	1.03	1.31	1.56	1.92	1.29
1978	2.03	1.84	1.60	1.50	1.27	0.91	0.81	0.62	1.02	1.29	1.38	1.43	1.31
1979	2.10	2.60	1.74	1.42	1.04	0.82	0.60	0.75	0.96	0.90	1.12	1.68	1.30
1980	2.38	1.83	2.20	1.75	0.88	0.67	0.61	0.90	0.94	1.16	2.08	1.70	1.42
1981	1.47	2.22	1.68	1.33	1.48	0.83	0.70	0.63	1.05	0.97	1.31	1.25	1.24
1982	1.24	1.14	0.82	1.14	0.83	1.04	0.47	0.46	0.71	1.09	0.93	1.06	0.91
1983	1.18	1.68	1.51	1.24	1.06	0.53	0.70	0.62	0.72	1.21	1.43	1.68	1.13
1984	1.50	1.53	2.62	1.59	0.97	0.84	0.67	0.51	0.63	0.94	1.34	1.12	1.19
1985	1.55	1.52	1.37	0.89	0.84	0.99	0.53	0.59	0.79	0.77	1.52	1.11	1.03
1986	1.62	1.35	1.12	1.80	1.35	0.93	0.56	0.69	0.89	1.01	1.29	1.63	1.19
1987	1.89	1.84	2.00	1.85	0.84	0.60	0.40	0.53	0.81	0.94	1.21	1.12	1.16
1988	0.99	1.21	0.98	1.35	0.98	0.66	0.47	0.62	0.59	1.21	1.05	1.21	0.94
1989	1.14	1.17	1.30	0.89	0.90	0.72	0.48	0.68	1.08	1.03	1.20	1.12	0.97
1990	0.95	1.28	1.00	1.18	1.01	0.76	0.57	0.73	0.94	1.16	1.22	1.43	1.02
1991	1.07	0.98	1.41	1.02	0.73	0.67	0.49	0.72	0.78	1.38	1.16	1.30	0.98
1992	1.16	1.41	1.21	0.81	0.85	0.75	0.48	0.50	0.78	0.83	0.84	1.66	0.94
1993	1.33	1.77	1.67	1.57	0.83	0.69	0.59	0.57	0.84	1.09	1.11	1.59	1.13
MEAN	1.51	1.57	1.54	1.33	1.00	0.79	0.59	0.65	0.85	1.09	1.28	1.42	

STATION: 94

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	6210 2	37 8 1	44 9 4	3714 9	2812 9	24 6 3	20 636	2413 9	17 636	52 9 2	39 835	40 9 5	6210 2
1977	6213 8	6013 9	49 935	35 717	44 9 3	44 9 4	29 7 0	19 618	35 8 9	45 9 7	6413 9	6813 9	6813 9
1978	701410	9016 8	441110	5210 5	5112 9	25 620	28 7 3	24 618	32 8 1	32 7 0	47 9 0	45 910	9016 8
1979	8314 9	5712 7	39 9 3	32 716	23 634	22 7 1	17 713	25 7 7	26 619	22 624	30 735	43 835	8314 9
1980	11817 8	8215 8	8715 8	4915 9	29 9 7	18 529	18 534	29 8 7	24 9 9	461211	53 9 0	5710 3	11817 8
1981	49 9 1	9216 7	5510 2	37 8 0	4612 8	24 619	18 518	16 519	2913 9	22 6 2	4811 7	55 9 1	9216 7
1982	31 735	33 8 3	2010 9	32 716	2011 9	39 8 2	14 519	12 421	2110 9	3813 9	20 910	3012 8	39 8 2
1983	3410 8	5811 7	44 9 4	36 8 9	31 7 0	15 519	38 836	26 8 4	24 7 4	36 8 4	34 732	531011	5811 7
1984	42 8 2	401010	9517 5	441111	21 6 0	31 8 2	20 619	15 6 1	20 635	33 9 6	45 9 0	31 7 3	9517 5
1985	601036	511210	34 8 1	27 619	38 9 5	38 9 5	21 619	30 8 4	35 714	30 736	521010	31 8 4	601036
1986	43 9 1	42 9 3	36 720	6414 9	6614 8	27 7 0	16 7 6	24 710	28 735	32 7 2	5210 4	6812 6	6812 6
1987	7212 6	8113 4	5510 3	4512 7	2914 9	1510 9	1310 9	15 519	33 9 7	23 710	6512 6	45 9 3	8113 4
1988	34 8 1	42 910	21 6 2	33 8 3	31 8 6	28 7 0	15 520	19 711	18 6 1	4610 6	30 8 9	4716 8	4716 8
1989	51 9 1	48 9 3	43 9 5	34 8 4	21 610	1910 9	14 519	1911 9	24 620	39 9 5	29 7 1	22 631	51 9 1
1990	27 710	36 8 5	30 7 2	29 7 8	28 736	20 6 3	15 518	2112 9	24 7 3	42 8 2	39 8 1	40 9 9	42 8 2
1991	38 810	30 710	45 9 4	43 9 8	25 7 3	27 7 4	11 418	551010	24 7 0	6010 5	41 9 4	40 8 2	6010 5
1992	35 8 7	41 836	32 910	25 7 4	18 6 2	23 810	17 519	18 617	27 7 3	26 7 3	23 619	6414 7	6414 7
1993	43 9 6	6212 8	5614 9	4214 9	19 9 9	21 7 1	17 518	16 5 1	21 616	32 7 0	38 716	5410 3	6212 8
MAX	11817 8	9216 7	9517 5	6414 9	6614 8	44 9 4	38 836	551010	35 714	6010 5	6512 6	6812 6	

MAX Hmo(m): 11.8 MAX Tp(sec): 17. MAX Dp(deg): 79. DATE(gmt): 80011609

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 300. DATE(gmt): 77012912

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.50 N, LONG: 70.50 W, DEPTH: 55 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 95

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	270	196	271	317	474	883	1635	1349	787	438	319	280	7219
0.50 - 0.99	1138	1023	1091	1248	1798	2054	2145	2207	1811	1553	1285	1291	18644
1.00 - 1.49	1219	1131	1117	1063	1314	921	530	638	1106	1375	1284	1134	12832
1.50 - 1.99	723	637	656	687	489	282	94	142	385	605	657	715	6072
2.00 - 2.49	419	379	528	422	199	104	35	89	147	243	356	403	3324
2.50 - 2.99	230	234	307	256	81	39	18	30	48	108	162	245	1758
3.00 - 3.49	149	168	183	152	30	14	5	6	30	63	80	151	1031
3.50 - 3.99	114	78	109	74	35	15	2	1	5	43	67	84	627
4.00 - 4.49	60	62	68	49	18	3	.	1	.	12	36	56	365
4.50 - 4.99	44	53	44	26	11	5	.	.	1	11	40	33	268
5.00 - 5.49	22	32	36	15	4	.	.	.	.	3	15	35	162
5.50 - 5.99	21	19	26	7	6	.	.	.	.	5	11	14	109
6.00 - 6.49	15	18	7	4	3	.	.	.	.	4	1	8	60
6.50 - 6.99	6	6	3	.	2	.	.	.	.	1	3	5	26
7.00 - 7.49	8	7	1	.	.	.	.	1	.	.	2	7	26
7.50 - 7.99	8	8	3	.	.	.	.	.	.	.	5	1	22
8.00 - 8.49	1	5	3	.	.	.	.	.	.	.	.	2	11
8.50 - 8.99	3	4	1	.	.	.	.	.	.	.	.	.	8
9.00 - 9.49	3	7	4	.	.	.	.	.	.	.	.	.	14
9.50 - 9.99	5	2	2	.	.	.	.	.	.	.	.	.	9
10.00 - GREATER	6	3	4	.	.	.	.	.	.	.	.	.	13
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 95

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	242	189	174	194	304	669	1086	832	426	284	256	340	4996
4.0 - 4.9	932	771	647	594	656	987	1103	993	742	801	916	966	10108
5.0 - 5.9	700	681	592	554	538	349	291	413	437	565	584	658	6362
6.0 - 6.9	388	389	437	336	408	267	306	260	321	337	345	382	4176
7.0 - 7.9	234	315	320	304	379	250	392	473	363	273	235	209	3747
8.0 - 8.9	250	257	250	287	464	423	465	615	433	338	292	188	4262
9.0 - 9.9	255	283	256	364	570	533	387	309	422	465	334	237	4415
10.0 - 10.9	229	256	308	396	450	428	217	182	309	482	389	317	3963
11.0 - 11.9	314	288	401	433	361	212	102	135	236	377	286	306	3451
12.0 - 12.9	292	247	384	431	187	133	80	106	189	292	292	313	2946
13.0 - 13.9	252	161	355	212	81	50	27	63	167	117	169	285	1939
14.0 - 14.9	195	91	177	159	40	18	8	29	112	76	97	130	1132
15.0 - 15.9	90	73	81	41	10	1	.	12	57	33	38	91	527
16.0 - 16.9	44	17	38	12	15	.	.	13	44	14	23	24	244
17.0 - 17.9	33	18	11	2	1	.	.	12	25	7	28	13	150
18.0 - 18.9	9	17	5	1	.	.	.	6	15	3	9	5	70
19.0 - 19.9	2	13	6	.	.	.	.	5	8	.	19	.	53
20.0 - LONGER	3	6	22	.	.	.	.	6	14	.	8	.	59
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 95

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	298	416	258	201	117	149	164	160	184	166	200	268	2581
11.25 - 33.74 (22.5)	147	151	174	112	91	107	59	87	129	109	107	102	1375
33.75 - 56.24 (45.0)	88	153	140	105	120	89	63	68	90	215	104	83	1318
56.25 - 78.74 (67.5)	174	159	213	224	196	102	51	167	138	163	146	160	1893
78.75 - 101.24 (90.0)	1303	1038	1529	1700	1387	1216	600	993	1286	1386	1233	1294	14965
101.25 - 123.74 (112.5)	544	552	584	633	919	541	764	847	863	847	687	531	8312
123.75 - 146.24 (135.0)	171	131	195	166	395	372	631	493	359	247	197	169	3526
146.25 - 168.74 (157.5)	64	62	74	77	110	52	114	74	71	64	66	53	881
168.75 - 191.24 (180.0)	146	127	235	285	274	271	271	254	240	256	240	191	2790
191.25 - 213.74 (202.5)	154	200	178	147	220	347	439	357	186	127	190	143	2688
213.75 - 236.24 (225.0)	151	158	117	111	153	317	402	304	244	154	177	185	2473
236.25 - 258.74 (247.5)	129	138	104	71	87	190	226	167	111	145	146	136	1650
258.75 - 281.24 (270.0)	255	113	107	92	86	193	195	114	89	152	172	264	1832
281.25 - 303.74 (292.5)	293	136	144	114	79	113	142	110	96	173	176	274	1850
303.75 - 326.24 (315.0)	295	234	255	141	131	160	192	138	121	123	270	380	2440
326.25 - 348.74 (337.5)	252	304	157	141	99	101	151	131	113	137	209	231	2026
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.50 N, LONG: 70.50 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 95 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1211	191									1402
1.00 - 1.99	205	1174	1								1380
2.00 - 2.99		477	294								771
3.00 - 3.99		1	379								380
4.00 - 4.99			131	23							154
5.00 - 5.99			3	23							26
6.00 - 6.99				3							3
7.00 - 7.99				1							1
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1416	1843	808	50	0	0	0	0	0	0	4117

STATION: 95 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	450	235	45	2							732
1.00 - 1.99	73	713	162	24							972
2.00 - 2.99		110	404	24							538
3.00 - 3.99			253	24	1						278
4.00 - 4.99			40	71	2						113
5.00 - 5.99				60	3						63
6.00 - 6.99				13	2	3					18
7.00 - 7.99				1	4		1				6
8.00 - 8.99					4		1				5
9.00 - GREATER							1	2			3
TOTAL	523	1058	904	219	16	3	3	2	0	0	2728

STATION: 95 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	387	666	1612	2969	2607	1114	232	71	48	4	9710
1.00 - 1.99	51	637	1149	1711	2052	1179	256	64	20		7119
2.00 - 2.99		114	383	591	502	407	175	19	10		2201
3.00 - 3.99			132	207	188	139	41	19	6		732
4.00 - 4.99			19	84	87	57	17	16	15		295
5.00 - 5.99				44	46	30	17	11	9		157
6.00 - 6.99				4	21	21	6	7			59
7.00 - 7.99				3	20	9	5	4			41
8.00 - 8.99					4	5	5				14
9.00 - GREATER					1	11	14	7			33
TOTAL	438	1417	3295	5613	5528	2972	768	218	108	4	20361

STATION: 95 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	502	564	2298	1879	535	55					5833
1.00 - 1.99	86	515	273	501	273	32					1680
2.00 - 2.99		132	127	48	18	6					331
3.00 - 3.99			68	29	10	1					108
4.00 - 4.99			5	27	6	1					39
5.00 - 5.99			1	8	7						16
6.00 - 6.99				1	4	1					6
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	588	1211	2772	2493	853	96	0	0	0	0	8013

STATION: 95 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1454	110									1564
1.00 - 1.99	330	1861									2191
2.00 - 2.99		568	83								651
3.00 - 3.99		1	103								104
4.00 - 4.99			28								28
5.00 - 5.99			6	3							9
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1784	2540	220	3	0	0	0	0	0	0	4547

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.50 N, LONG: 70.50 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 95 (202.50 - 247.49) 225.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2593	.	.	.	.	.	.	.	.	.	2593
1.00 - 1.99	1453	592	.	.	.	.	.	.	.	.	2045
2.00 - 2.99	.	125	.	.	.	.	.	.	.	.	125
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4046	719	0	0	0	0	0	0	0	0	4765

STATION: 95 (247.50 - 292.49) 270.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2315	.	.	.	.	.	.	.	.	.	2315
1.00 - 1.99	981	130	.	.	.	.	.	.	.	.	1111
2.00 - 2.99	.	35	.	.	.	.	.	.	.	.	35
3.00 - 3.99	.	2	.	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3296	167	0	0	0	0	0	0	0	0	3463

STATION: 95 (292.50 - 337.49) 315.0 DEG

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1714	.	.	.	.	.	.	.	.	.	1714
1.00 - 1.99	1299	1107	.	.	.	.	.	.	.	.	2406
2.00 - 2.99	.	430	.	.	.	.	.	.	.	.	430
3.00 - 3.99	.	46	6	.	.	.	.	.	.	.	52
4.00 - 4.99	.	.	4	.	.	.	.	.	.	.	4
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3013	1583	10	0	0	0	0	0	0	0	4606

STATION: 95 ALL DIRECTIONS

Hmo(m)	Tp(sec) 3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	10626	1766	3955	4850	3142	1169	232	71	48	4	25863
1.00 - 1.99	4478	6729	1585	2236	2325	1211	256	64	20	.	18904
2.00 - 2.99	.	1991	1291	663	520	413	175	19	10	.	5082
3.00 - 3.99	.	52	941	260	199	140	41	19	6	.	1658
4.00 - 4.99	.	.	227	205	95	58	17	16	15	.	633
5.00 - 5.99	.	.	10	138	56	30	17	11	9	.	271
6.00 - 6.99	.	.	.	21	27	25	6	7	.	.	86
7.00 - 7.99	.	.	.	5	24	9	6	4	.	.	48
8.00 - 8.99	.	.	.	.	8	5	6	9	.	.	19
9.00 - GREATER	.	.	.	.	1	11	15	.	.	.	36
TOTAL	15104	10538	8009	8378	6397	3071	771	220	108	4	52600

STATION: 95

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	121	96	158	238	358	379	562	662	503	269	120	102	3568
2.50 - 4.99	799	725	923	1229	1772	1851	2209	2233	1815	1327	932	809	16624
5.00 - 7.49	715	697	817	948	1000	1038	1046	947	952	998	922	804	10884
7.50 - 9.99	1150	1113	1127	972	899	796	551	523	790	1235	1199	1230	11585
10.00 - 12.49	596	559	602	427	258	178	68	71	188	334	562	621	4464
12.50 - 14.99	615	495	476	358	145	73	22	22	65	217	393	512	3393
15.00 - 17.49	193	175	151	91	18	5	6	2	5	51	90	160	947
17.50 - 19.99	158	126	132	50	12	.	.	3	2	23	74	141	719
20.00 - GREATER	117	86	78	7	2	.	.	1	.	10	28	85	416
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.50 N, LONG: 70.50 W, DEPTH: 55 M

STATION: 95

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	621	728	732	538	414	401	309	443	499	459	475	533	6152
22.50 - 67.49 (45.0)	324	361	412	484	444	220	182	284	390	463	346	228	4138
67.50 - 112.49 (90.0)	250	201	290	354	295	170	145	230	295	254	245	251	2980
112.50 - 157.49 (135.0)	244	268	319	371	443	273	249	331	295	358	313	265	3729
157.50 - 202.49 (180.0)	385	280	516	625	760	593	719	687	583	629	499	403	6679
202.50 - 247.49 (225.0)	540	555	580	598	829	1180	1281	1138	917	693	696	639	9646
247.50 - 292.49 (270.0)	943	638	644	616	645	881	886	714	677	858	826	926	9254
292.50 - 337.49 (315.0)	1157	1041	971	734	634	602	693	637	664	750	920	1219	10022
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 95

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.89	1.58	1.73	1.49	1.20	0.79	0.68	1.03	0.81	1.47	1.36	1.70	1.31
1977	1.81	1.57	1.89	1.29	1.07	1.19	0.80	0.66	1.12	1.42	1.74	2.13	1.39
1978	2.26	1.90	1.71	1.60	1.44	0.98	0.83	0.66	1.05	1.41	1.48	1.48	1.40
1979	2.30	2.65	1.97	1.59	1.18	0.88	0.70	0.82	1.05	0.97	1.19	1.75	1.41
1980	2.50	1.88	2.35	1.99	0.95	0.72	0.64	0.93	1.02	1.26	2.25	1.82	1.52
1981	1.51	2.53	1.69	1.39	1.62	0.88	0.76	0.68	1.18	0.99	1.34	1.31	1.31
1982	1.29	1.17	0.90	1.22	0.87	1.07	0.50	0.49	0.76	1.11	1.03	1.09	0.95
1983	1.28	1.74	1.64	1.39	1.20	0.60	0.74	0.64	0.78	1.27	1.61	1.78	1.22
1984	1.55	1.69	2.82	1.73	1.09	0.98	0.73	0.55	0.67	0.98	1.38	1.22	1.28
1985	1.55	1.64	1.41	0.96	0.88	1.08	0.58	0.63	0.85	0.81	1.61	1.14	1.09
1986	1.76	1.37	1.23	1.94	1.41	0.95	0.60	0.72	0.96	1.05	1.37	1.75	1.26
1987	1.99	1.86	2.07	2.06	0.92	0.64	0.44	0.58	0.86	1.04	1.23	1.13	1.23
1988	1.04	1.31	1.05	1.39	1.07	0.69	0.51	0.65	0.66	1.29	1.14	1.26	1.00
1989	1.19	1.22	1.35	0.97	1.02	0.77	0.52	0.78	1.23	1.12	1.31	1.13	1.05
1990	1.02	1.31	1.08	1.34	1.10	0.86	0.62	0.82	1.05	1.29	1.25	1.56	1.11
1991	1.11	1.02	1.49	1.08	0.79	0.67	0.52	0.80	0.85	1.54	1.22	1.36	1.04
1992	1.26	1.45	1.36	0.84	0.87	0.80	0.49	0.52	0.79	0.87	0.86	1.70	0.98
1993	1.36	1.82	1.77	1.74	0.92	0.71	0.63	0.61	0.90	1.16	1.22	1.69	1.21
MEAN	1.59	1.65	1.64	1.44	1.09	0.85	0.63	0.70	0.92	1.17	1.37	1.50	

STATION: 95

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	6510 3	40 717	47 910	42 910	33 717	25 7 3	21 636	33 913	2013 9	53 9 2	38 8 0	4011 7	6510 3
1977	771110	781210	571011	45 817	46 9 5	48 9 5	32 719	24 618	39 9 8	47 9 8	771310	8313 9	8313 9
1978	951510	10415 8	591111	53 9 4	601210	30 719	28 7 4	29 718	32 735	36 810	47 835	541010	10415 8
1979	9914 9	6812 8	531112	42 716	29 912	22 6 1	24 713	25 7 8	32 718	26 617	35 718	41 835	9914 9
1980	11517 8	8014 9	9214 9	5515 9	29 9 7	19 530	18 534	29 9 8	24 910	661112	5820 9	6410 3	11517 8
1981	48 836	9514 8	5518 9	41 818	47 9 5	28 718	23 618	19 618	3113 9	24 618	53 9 4	55 9 3	9514 8
1982	34 719	35 8 4	23 619	37 716	2011 9	41 8 2	16 520	13 519	241211	3910 7	23 620	3213 9	41 8 2
1983	3710 8	5810 5	45 9 4	37 810	30 7 0	17 618	38 8 0	25 8 4	25 619	37 8 5	43 911	591012	591012
1984	44 8 2	541011	10117 7	621211	26 712	35 8 3	25 619	15 6 2	19 6 0	35 8 5	45 835	33 7 3	10117 7
1985	631036	701211	38 817	34 719	39 8 4	3913 9	25 619	30 8 5	49 913	29 736	581010	34 911	701211
1986	521012	43 8 1	45 820	6414 9	6814 9	25 7 0	17 7 6	28 711	27 736	32 7 3	55 9 3	7112 8	7112 8
1987	7611 5	8812 4	6013 9	571110	3214 9	1610 9	1410 9	17 619	34 9 7	29 711	6510 3	44 8 1	8812 4
1988	36 736	50 911	24 617	34 8 4	34 8 6	25 7 2	16 619	25 712	191411	49 9 5	36 810	5216 9	5216 9
1989	50 9 3	50 9 4	42 8 3	35 7 1	29 616	2110 9	15 519	231010	291610	4010 9	30 717	24 713	50 9 4
1990	31 711	38 9 7	27 7 3	31 8 8	27 7 1	25 619	17 618	2212 9	24 7 3	40 8 3	36 8 3	471010	471010
1991	40 810	31 711	47 9 5	49 9 8	27 7 2	27 7 4	13 518	711011	23 618	6210 5	4312 9	40 8 3	711011
1992	3810 9	40 8 1	41 912	24 7 4	19 6 3	24 811	18 618	23 617	25 7 3	23 6 1	27 718	7014 8	7014 8
1993	42 9 7	701110	6211 9	44 9 6	221211	24 713	20 618	17 5 1	26 716	32 9 7	521113	5710 5	701110
MAX	11517 8	10415 8	10117 7	6414 9	6814 9	48 9 5	38 8 0	711011	49 913	661112	771310	8313 9	

MAX Hmo(m): 11.5 MAX Tp(sec): 17. MAX Dp(deg): 83. DATE(gmt): 80011609

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 165. DATE(gmt): 78010912

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.4

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.75 N, LONG: 70.50 W, DEPTH: 55 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 96

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	304	229	320	341	461	866	1529	1270	779	447	324	308	7178
0.50 - 0.99	1159	1019	1103	1275	1827	2056	2200	2301	1823	1576	1321	1303	18963
1.00 - 1.49	1225	1153	1128	1090	1309	949	584	633	1125	1362	1286	1147	12991
1.50 - 1.99	748	667	698	647	462	250	83	142	390	623	627	731	6068
2.00 - 2.49	375	379	482	463	195	121	42	77	137	232	367	386	3256
2.50 - 2.99	217	219	325	242	93	38	17	28	32	105	166	239	1721
3.00 - 3.49	162	152	163	110	52	19	8	7	22	61	100	142	998
3.50 - 3.99	108	78	78	53	30	14	1	2	7	22	60	75	528
4.00 - 4.49	46	54	58	55	14	6	.	3	4	14	31	46	331
4.50 - 4.99	37	31	41	24	8	1	.	.	.	9	19	38	208
5.00 - 5.49	14	20	23	9	5	.	.	.	.	7	5	18	101
5.50 - 5.99	21	18	13	6	5	.	.	.	.	2	7	14	86
6.00 - 6.49	15	12	10	2	3	.	.	1	1	1	1	5	51
6.50 - 6.99	3	11	4	2	.	.	.	.	.	1	2	8	31
7.00 - 7.49	7	7	3	.	.	.	.	.	.	.	2	1	20
7.50 - 7.99	4	6	1	1	.	.	.	.	.	2	2	.	16
8.00 - 8.49	6	9	5	.	.	.	.	.	.	.	.	2	22
8.50 - 8.99	4	2	3	.	.	.	.	.	.	.	.	1	10
9.00 - 9.49	4	4	1	.	.	.	.	.	.	.	.	.	9
9.50 - 9.99	.	.	1	.	.	.	.	.	.	.	.	.	1
10.00 - GREATER	5	2	4	.	.	.	.	.	.	.	.	.	11
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 96

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	274	191	200	208	299	661	1000	778	416	296	272	379	4974
4.0 - 4.9	959	791	674	590	629	953	1089	972	713	806	917	986	10079
5.0 - 5.9	743	737	611	545	489	356	280	407	445	562	586	664	6425
6.0 - 6.9	375	438	470	428	442	320	374	334	374	428	381	437	4801
7.0 - 7.9	291	325	358	342	497	315	480	558	414	302	304	238	4424
8.0 - 8.9	234	219	289	334	546	546	519	640	466	371	296	197	4657
9.0 - 9.9	286	301	303	396	583	518	366	303	440	488	377	252	4613
10.0 - 10.9	263	258	307	443	436	377	181	152	296	454	417	353	3937
11.0 - 11.9	300	289	405	406	280	154	102	109	216	362	286	291	3200
12.0 - 12.9	299	218	362	366	159	83	65	103	174	251	236	292	2608
13.0 - 13.9	174	134	250	150	66	28	7	36	129	71	112	226	1383
14.0 - 14.9	139	80	130	98	21	9	1	16	82	35	45	100	756
15.0 - 15.9	68	47	53	13	8	.	.	13	56	22	31	27	338
16.0 - 16.9	34	13	16	1	9	.	.	18	40	11	17	14	173
17.0 - 17.9	20	5	9	.	.	.	.	9	28	5	14	5	95
18.0 - 18.9	3	11	2	.	.	.	.	5	11	.	7	3	42
19.0 - 19.9	1	9	3	.	.	.	.	5	9	.	20	.	47
20.0 - LONGER	1	6	22	.	.	.	.	6	11	.	2	.	48
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 96

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	273	347	252	199	109	116	142	137	167	136	196	247	2321
11.25 - 33.74 (22.5)	139	142	176	95	88	102	58	71	106	123	89	96	1285
33.75 - 56.24 (45.0)	76	148	134	117	103	84	45	60	79	174	100	79	1199
56.25 - 78.74 (67.5)	179	180	221	166	151	55	32	119	108	149	187	133	1680
78.75 - 101.24 (90.0)	1172	942	1371	1551	1256	1109	496	930	1311	1244	1024	1160	13566
101.25 - 123.74 (112.5)	526	561	562	689	1002	598	764	861	842	916	744	535	8600
123.75 - 146.24 (135.0)	234	155	266	229	483	432	726	591	389	281	253	225	4264
146.25 - 168.74 (157.5)	99	84	104	125	144	124	216	137	114	116	89	79	1431
168.75 - 191.24 (180.0)	176	158	285	322	302	287	312	274	267	253	288	228	3152
191.25 - 213.74 (202.5)	145	195	163	128	208	337	403	330	175	136	179	135	2534
213.75 - 236.24 (225.0)	161	157	119	106	134	310	389	302	237	157	179	178	2429
236.25 - 258.74 (247.5)	124	136	111	68	90	173	215	162	107	142	133	164	1625
258.75 - 281.24 (270.0)	263	110	94	94	76	205	180	111	84	166	175	270	1828
281.25 - 303.74 (292.5)	311	136	174	121	86	114	145	113	103	191	197	266	1957
303.75 - 326.24 (315.0)	302	255	252	138	128	158	190	136	118	127	276	388	2468
326.25 - 348.74 (337.5)	284	366	180	172	104	116	151	130	113	153	211	281	2261
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.75 N, LONG: 70.50 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 96 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1202	120	.	.	.	.	.	.	.	.	1322
1.00 - 1.99	208	1264	.	.	.	.	.	.	.	.	1472
2.00 - 2.99	.	634	157	.	.	.	.	.	.	.	791
3.00 - 3.99	.	1	288	1	.	.	.	.	.	.	290
4.00 - 4.99	.	.	77	1	.	.	.	.	.	.	78
5.00 - 5.99	.	.	4	7	.	.	.	.	.	.	11
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1410	2019	526	10	0	0	0	0	0	0	3965

STATION: 96 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	428	219	30	2	.	.	.	.	.	.	679
1.00 - 1.99	74	731	98	10	.	.	.	.	.	.	913
2.00 - 2.99	.	148	303	15	1	.	.	.	.	.	467
3.00 - 3.99	.	1	246	4	.	.	.	.	.	.	251
4.00 - 4.99	.	.	79	36	2	.	.	.	.	.	117
5.00 - 5.99	.	.	1	33	6	.	.	.	.	.	40
6.00 - 6.99	.	.	.	8	.	3	.	.	.	.	11
7.00 - 7.99	.	.	.	1	2	.	1	.	.	.	4
8.00 - 8.99	.	.	.	.	2	.	1	.	.	.	3
9.00 - GREATER	.	.	.	.	.	.	1	1	.	.	2
TOTAL	502	1099	757	109	13	3	3	1	0	0	2487

STATION: 96 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	384	588	1696	3173	2631	821	161	44	47	4	9549
1.00 - 1.99	46	643	1284	1866	1921	904	214	44	14	.	6936
2.00 - 2.99	.	99	436	584	396	240	73	24	20	.	1872
3.00 - 3.99	.	1	127	190	141	66	26	11	9	.	571
4.00 - 4.99	.	.	16	78	64	39	6	3	1	.	207
5.00 - 5.99	.	.	.	34	29	17	4	2	.	.	86
6.00 - 6.99	.	.	.	7	21	11	2	1	.	.	42
7.00 - 7.99	.	.	.	3	6	3	6	3	.	.	21
8.00 - 8.99	.	.	.	.	7	9	7	3	.	.	26
9.00 - GREATER	.	.	.	.	1	7	7	1	.	.	16
TOTAL	430	1331	3559	5935	5217	2117	506	136	91	4	19326

STATION: 96 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	517	892	2841	1787	348	14	.	.	.	.	6399
1.00 - 1.99	78	599	510	514	166	3	.	.	.	.	1870
2.00 - 2.99	.	113	206	37	16	.	.	.	.	.	372
3.00 - 3.99	.	.	126	43	5	.	.	.	.	.	174
4.00 - 4.99	.	.	25	54	7	1	.	.	.	.	87
5.00 - 5.99	.	.	.	26	12	.	.	.	.	.	38
6.00 - 6.99	.	.	.	12	10	.	.	.	.	.	22
7.00 - 7.99	.	.	.	.	11	.	.	.	.	.	11
8.00 - 8.99	.	.	.	.	3	.	.	.	.	.	3
9.00 - GREATER	.	.	.	.	.	1	2	.	.	.	3
TOTAL	595	1604	3708	2473	578	19	2	0	0	0	8979

STATION: 96 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1450	170	8	.	.	.	.	.	.	.	1628
1.00 - 1.99	315	1848	6	.	.	.	.	.	.	.	2169
2.00 - 2.99	.	581	283	.	.	.	.	.	.	.	864
3.00 - 3.99	.	.	177	1	.	.	.	.	.	.	178
4.00 - 4.99	.	.	44	4	.	.	.	.	.	.	48
5.00 - 5.99	.	.	.	12	.	.	.	.	.	.	12
6.00 - 6.99	.	.	.	6	.	.	.	.	.	.	6
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1765	2599	518	23	0	0	0	0	0	0	4905

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.75 N, LONG: 70.50 W, DEPTH: 55 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 96 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2495	3	.	.	.	.	.	.	.	.	2498
1.00 - 1.99	1414	624	.	.	.	.	.	.	.	.	2038
2.00 - 2.99	.	119	.	.	.	.	.	.	.	.	119
3.00 - 3.99	.	4	.	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3909	750	0	0	0	0	0	0	0	0	4659

STATION: 96 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2317		.	.	.	.	.	.	.	.	2317
1.00 - 1.99	990	138	.	.	.	.	.	.	.	.	1128
2.00 - 2.99	.	38	.	.	.	.	.	.	.	.	38
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3307	177	0	0	0	0	0	0	0	0	3484

STATION: 96 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1749		.	.	.	.	.	.	.	.	1749
1.00 - 1.99	1386	1147	.	.	.	.	.	.	.	.	2533
2.00 - 2.99	.	454	.	.	.	.	.	.	.	.	454
3.00 - 3.99	.	46	11	.	.	.	.	.	.	.	57
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3135	1647	13	0	0	0	0	0	0	0	4795

STATION: 96 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	10542	1992	4575	4962	2979	835	161	44	47	4	26141
1.00 - 1.99	4511	6994	1898	2390	2087	907	214	44	14	.	19059
2.00 - 2.99	.	2186	1385	636	413	240	73	24	20	.	4977
3.00 - 3.99	.	54	975	239	146	66	26	11	9	.	1526
4.00 - 4.99	.	.	243	173	73	40	6	3	1	.	539
5.00 - 5.99	.	.	5	112	47	17	4	2	.	.	187
6.00 - 6.99	.	.	.	34	31	14	2	1	.	.	82
7.00 - 7.99	.	.	.	4	19	3	7	3	.	.	36
8.00 - 8.99	.	.	.	.	12	9	8	3	.	.	32
9.00 - GREATER	.	.	.	.	1	8	10	2	.	.	21
TOTAL	15053	11226	9081	8550	5808	2139	511	137	91	4	52600

STATION: 96

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	124	96	175	255	380	401	580	657	513	277	132	104	3694
2.50 - 4.99	804	745	934	1223	1761	1836	2180	2239	1805	1327	945	828	16627
5.00 - 7.49	735	687	814	945	990	1024	1050	945	944	997	914	809	10854
7.50 - 9.99	1141	1114	1117	969	893	783	549	522	785	1202	1172	1230	11477
10.00 - 12.49	588	547	579	419	253	193	76	74	202	357	563	589	4440
12.50 - 14.99	614	490	489	360	153	77	23	21	61	217	399	521	3425
15.00 - 17.49	185	183	139	92	20	6	5	4	7	51	96	163	951
17.50 - 19.99	158	124	139	50	12	.	1	2	2	26	70	134	718
20.00 - GREATER	115	86	78	7	2	.	.	.	1	10	29	86	414
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 42.75 N, LONG: 70.50 W, DEPTH: 55 M

STATION: 96

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND	WD(deg) CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49	(0.0)	641	713	745	538	404	383	318	439	492	444	470	528	6115
22.50 - 67.49	(45.0)	308	355	402	493	449	226	183	277	375	438	346	230	4082
67.50 - 112.49	(90.0)	259	202	279	361	299	168	128	212	286	239	239	252	2924
112.50 - 157.49	(135.0)	245	262	321	357	409	274	247	325	278	361	304	261	3644
157.50 - 202.49	(180.0)	387	287	524	636	778	598	704	715	599	642	518	424	6812
202.50 - 247.49	(225.0)	549	565	581	595	848	1181	1289	1124	942	716	698	632	9720
247.50 - 292.49	(270.0)	937	640	634	598	629	871	882	729	688	871	831	941	9251
292.50 - 337.49	(315.0)	1138	1048	978	742	648	619	713	643	660	753	914	1196	10052
TOTAL		4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 96

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.86	1.60	1.72	1.44	1.24	0.80	0.70	1.04	0.80	1.48	1.34	1.72	1.31
1977	1.76	1.60	1.83	1.30	1.06	1.20	0.82	0.68	1.12	1.43	1.73	2.13	1.39
1978	2.31	1.75	1.71	1.56	1.49	1.01	0.83	0.67	1.01	1.36	1.45	1.47	1.38
1979	2.23	2.46	1.98	1.55	1.21	0.90	0.75	0.84	1.06	1.01	1.18	1.68	1.40
1980	2.24	1.64	2.20	1.89	0.95	0.75	0.65	0.89	1.03	1.24	1.87	1.72	1.42
1981	1.41	2.50	1.48	1.40	1.59	0.86	0.77	0.68	1.14	0.97	1.26	1.25	1.27
1982	1.27	1.14	0.90	1.24	0.82	1.01	0.51	0.50	0.74	0.96	1.04	1.04	0.93
1983	1.25	1.60	1.57	1.34	1.25	0.63	0.74	0.64	0.78	1.24	1.58	1.74	1.19
1984	1.45	1.68	2.56	1.68	1.10	1.02	0.76	0.57	0.68	0.96	1.36	1.22	1.25
1985	1.47	1.62	1.38	0.99	0.89	1.08	0.61	0.63	0.84	0.81	1.54	1.14	1.08
1986	1.76	1.31	1.25	1.79	1.29	0.94	0.61	0.71	0.91	1.01	1.35	1.69	1.22
1987	1.80	1.74	1.85	1.93	0.87	0.64	0.45	0.59	0.87	1.05	1.19	1.08	1.17
1988	1.04	1.28	1.02	1.34	1.07	0.71	0.54	0.65	0.69	1.27	1.17	1.18	0.99
1989	1.17	1.18	1.31	0.96	1.06	0.75	0.53	0.77	1.20	1.09	1.34	1.10	1.04
1990	1.04	1.30	1.06	1.32	1.12	0.90	0.64	0.82	1.04	1.31	1.22	1.48	1.10
1991	1.10	1.02	1.47	1.05	0.80	0.65	0.53	0.83	0.86	1.49	1.20	1.31	1.03
1992	1.24	1.39	1.37	0.83	0.85	0.79	0.50	0.54	0.78	0.85	0.84	1.59	0.96
1993	1.31	1.69	1.63	1.69	0.91	0.72	0.63	0.62	0.92	1.16	1.25	1.62	1.17
MEAN	1.54	1.58	1.57	1.41	1.09	0.85	0.64	0.71	0.92	1.15	1.33	1.45	

STATION: 96

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	57 9 2	47 914	47 910	47 912	38 817	26 7 4	21 614	37 913	22 617	601012	33 735	501012	601012
1977	851111	881310	581011	571014	42 8 4	45 9 8	35 818	27 718	44 913	591014	771310	891310	891310
1978	1191512	10215 8	671111	621113	631110	34 719	27 712	33 718	27 7 1	39 910	45 817	581011	1191512
1979	10214 9	7112 8	671113	49 913	35 913	23 6 3	29 813	25 7 8	35 719	32 814	42 815	38 836	10214 9
1980	9117 8	6810 5	881310	551212	28 718	22 619	19 534	27 9 9	24 810	771113	54 914	56 9 3	9117 8
1981	4212 9	8215 8	46 835	48 918	43 8 5	32 719	25 717	22 618	2412 9	26 717	49 9 5	48 8 1	8215 8
1982	36 817	38 814	26 718	41 817	18 619	38 8 4	16 619	14 519	231211	3510 8	25 718	2612 8	41 817
1983	40 912	52 9 3	42 8 3	36 810	31 719	18 618	34 735	25 7 4	25 716	36 8 6	481011	571112	571112
1984	40 8 3	601011	10217 7	751212	30 713	38 814	30 718	15 5 1	17 534	34 8 6	40 835	34 813	10217 7
1985	57 935	821212	44 817	38 818	38 8 5	38 8 5	30 719	30 8 6	60 914	27 736	561011	41 912	821212
1986	621112	38 8 4	51 918	5013 9	55 8 2	23 8 9	17 7 7	30 711	26 634	29 7 3	55 9 4	6712 7	6712 7
1987	6710 4	8212 5	63 917	601011	24 7 5	1510 9	1310 9	19 618	33 9 8	31 712	5910 6	37 735	8212 5
1988	34 736	481011	27 716	32 8 5	33 8 7	24 618	17 618	29 713	20 617	44 910	38 810	35 8 6	481011
1989	43 8 1	44 9 5	38 8 4	34 7 3	38 814	2010 9	15 519	23 910	32 720	4010 9	33 718	27 715	44 9 5
1990	32 712	37 8 7	27 718	31 8 9	29 716	30 719	17 618	201310	23 6 2	34 7 2	33 812	551011	551011
1991	38 810	32 810	41 8 4	49 9 9	26 714	26 7 4	13 518	611011	24 618	55 9 5	40 8 5	41 8 3	611011
1992	42 915	35 735	46 912	23 6 2	19 6 3	24 811	20 618	23 617	25 718	21 635	31 719	6613 7	6613 7
1993	38 8 6	671110	6212 8	43 910	221210	27 714	23 618	19 618	29 716	35 813	671114	52 9 4	671114
MAX	1191512	10215 8	10217 7	751212	631110	45 9 8	35 818	611011	60 914	771113	771310	891310	

MAX Hmo(m): 11.9 MAX Tp(sec): 15. MAX Dp(deg): 119. DATE(gmt): 78010912

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 125. DATE(gmt): 77011018

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.00 N, LONG: 70.50 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 97

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	292	219	297	317	419	818	1426	1194	730	432	316	303	6763
0.50 - 0.99	1125	993	1061	1197	1755	1988	2257	2299	1829	1502	1273	1261	18540
1.00 - 1.49	1212	1160	1115	1078	1340	1010	621	710	1148	1382	1278	1144	13198
1.50 - 1.99	793	736	742	696	524	293	100	142	404	652	681	762	6525
2.00 - 2.49	401	385	521	475	200	115	34	81	133	274	350	402	3371
2.50 - 2.99	235	229	305	250	93	46	18	25	42	114	169	234	1760
3.00 - 3.49	153	115	183	118	67	31	7	8	18	59	102	159	1020
3.50 - 3.99	91	76	76	85	28	16	1	2	8	21	70	71	545
4.00 - 4.49	46	35	53	45	12	3	.	1	7	8	35	60	305
4.50 - 4.99	35	30	44	32	12	.	.	.	.	7	25	27	212
5.00 - 5.49	20	22	25	20	7	.	.	1	.	8	12	19	134
5.50 - 5.99	12	17	12	4	7	.	.	.	.	2	3	9	66
6.00 - 6.49	14	17	8	1	.	.	.	1	1	1	2	7	52
6.50 - 6.99	8	14	7	1	.	.	.	.	.	.	3	3	36
7.00 - 7.49	4	3	1	1	.	.	.	.	.	2	1	1	13
7.50 - 7.99	6	7	3	.	.	.	.	.	.	.	.	.	16
8.00 - 8.49	8	4	5	.	.	.	.	.	.	.	.	2	19
8.50 - 8.99	4	4	1	.	.	.	.	.	.	.	.	.	9
9.00 - 9.49	1	3	1	.	.	.	.	.	.	.	.	.	5
9.50 - 9.99	2	1	1	.	.	.	.	.	.	.	.	.	4
10.00 - GREATER	2	2	3	.	.	.	.	.	.	.	.	.	7
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 97

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	235	187	161	187	271	608	919	717	385	278	247	334	4529
4.0 - 4.9	864	754	622	533	592	889	1066	917	726	757	843	899	9462
5.0 - 5.9	718	775	605	522	428	356	284	378	396	516	552	663	6193
6.0 - 6.9	375	435	407	356	407	306	361	372	333	412	351	384	4499
7.0 - 7.9	254	228	333	312	542	377	536	607	429	313	302	216	4449
8.0 - 8.9	217	186	254	332	543	554	541	672	464	355	281	175	4574
9.0 - 9.9	273	294	305	379	584	509	374	287	434	500	409	241	4589
10.0 - 10.9	289	262	313	448	435	374	182	150	306	458	403	387	4007
11.0 - 11.9	300	330	394	428	348	183	92	123	237	374	314	314	3437
12.0 - 12.9	328	240	402	390	182	96	78	111	185	277	263	299	2851
13.0 - 13.9	244	154	343	221	62	50	25	45	151	105	160	298	1858
14.0 - 14.9	176	93	162	154	35	18	6	20	98	62	84	131	1039
15.0 - 15.9	92	64	83	38	15	.	.	22	64	27	30	77	512
16.0 - 16.9	56	21	38	17	18	.	.	17	41	18	23	25	274
17.0 - 17.9	32	14	11	2	2	.	.	8	36	11	24	14	154
18.0 - 18.9	6	12	4	1	.	.	.	6	12	1	8	7	57
19.0 - 19.9	2	17	7	.	.	.	.	4	11	.	22	.	63
20.0 - LONGER	3	6	20	.	.	.	.	8	12	.	4	.	53
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 97

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	226	305	210	122	86	98	120	106	136	105	175	211	1900
11.25 - 33.74 (22.5)	109	130	127	76	75	83	37	65	88	103	77	58	1028
33.75 - 56.24 (45.0)	67	115	100	86	83	62	38	40	73	134	77	51	926
56.25 - 78.74 (67.5)	82	99	106	98	100	40	32	71	70	102	94	61	955
78.75 - 101.24 (90.0)	1149	896	1356	1487	1222	1048	427	784	923	1066	1011	1126	12495
101.25 - 123.74 (112.5)	732	676	765	817	966	553	707	886	1154	1104	844	725	9929
123.75 - 146.24 (135.0)	355	291	404	394	677	602	890	804	560	447	405	362	6191
146.25 - 168.74 (157.5)	115	94	123	160	201	200	290	206	157	158	126	103	1933
168.75 - 191.24 (180.0)	190	170	293	318	310	310	324	286	276	265	286	237	3265
191.25 - 213.74 (202.5)	133	182	148	112	175	301	391	312	158	121	155	118	2306
213.75 - 236.24 (225.0)	144	149	111	91	116	301	363	283	225	142	174	164	2263
236.25 - 258.74 (247.5)	129	129	97	53	77	144	190	143	105	121	118	148	1454
258.75 - 281.24 (270.0)	209	103	82	86	71	206	184	99	81	153	146	236	1656
281.25 - 303.74 (292.5)	277	126	144	107	81	112	130	110	87	172	187	261	1794
303.75 - 326.24 (315.0)	267	240	226	135	113	141	190	131	110	115	259	339	2266
326.25 - 348.74 (337.5)	280	367	172	178	111	119	151	138	117	156	186	264	2239
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.00 N, LONG: 70.50 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 97 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1087	3	.	.	.	.	.	.	.	.	1090
1.00 - 1.99	413	1137	.	.	.	.	.	.	.	.	1550
2.00 - 2.99	.	574	25	.	.	.	.	.	.	.	599
3.00 - 3.99	.	29	135	.	.	.	.	.	.	.	164
4.00 - 4.99	.	.	20	.	.	.	.	.	.	.	20
5.00 - 5.99	.	.	2	.	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1500	1743	182	0	0	0	0	0	0	0	3425

STATION: 97 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	375	154	13	.	.	.	.	.	.	.	542
1.00 - 1.99	70	666	15	.	.	.	.	.	.	.	751
2.00 - 2.99	.	306	118	1	.	.	.	.	.	.	425
3.00 - 3.99	.	1	145	4	.	.	.	.	.	.	150
4.00 - 4.99	.	.	34	.	.	.	.	.	.	.	34
5.00 - 5.99	.	.	2	3	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	4	.	.	.	.	.	.	4
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	445	1127	327	12	0	0	0	0	0	0	1911

STATION: 97 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	348	524	1423	2426	2122	895	229	48	41	2	8058
1.00 - 1.99	46	570	1195	1677	1883	1053	206	51	12	.	6693
2.00 - 2.99	.	95	375	609	464	330	137	19	11	.	2040
3.00 - 3.99	.	.	123	189	210	128	43	18	5	.	716
4.00 - 4.99	.	.	17	61	88	59	21	18	18	.	282
5.00 - 5.99	.	.	.	23	21	37	17	8	5	.	111
6.00 - 6.99	.	.	.	8	15	13	6	4	.	.	46
7.00 - 7.99	.	.	.	.	5	3	8	2	.	.	18
8.00 - 8.99	.	.	.	.	3	7	10	5	.	.	25
9.00 - GREATER	.	.	.	.	.	5	6	2	.	.	13
TOTAL	394	1189	3133	4993	4811	2530	683	175	92	2	18002

STATION: 97 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	481	983	3317	2358	729	157	34	21	11	3	8094
1.00 - 1.99	76	647	820	875	599	157	56	15	7	.	3252
2.00 - 2.99	.	95	255	123	80	35	9	.	1	.	598
3.00 - 3.99	.	.	137	55	12	6	1	.	.	.	211
4.00 - 4.99	.	.	26	75	13	2	.	.	.	.	116
5.00 - 5.99	.	.	.	39	19	3	.	.	.	.	61
6.00 - 6.99	.	.	.	11	16	2	1	.	.	.	30
7.00 - 7.99	.	.	.	1	9	1	.	.	.	.	11
8.00 - 8.99	.	.	.	.	.	3	.	.	.	.	3
9.00 - GREATER	.	.	.	.	.	1	2	.	.	.	3
TOTAL	557	1725	4555	3537	1477	367	103	36	19	3	12379

STATION: 97 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1341	225	10	.	.	.	.	.	.	.	1576
1.00 - 1.99	325	1833	30	.	.	.	.	.	.	.	2188
2.00 - 2.99	.	354	483	.	.	.	.	.	.	.	837
3.00 - 3.99	.	1	249	3	.	.	.	.	.	.	253
4.00 - 4.99	.	.	40	22	.	.	.	.	.	.	62
5.00 - 5.99	.	.	.	21	.	.	.	.	.	.	21
6.00 - 6.99	.	.	.	8	.	.	.	.	.	.	8
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1666	2413	812	54	0	0	0	0	0	0	4945

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.00 N, LONG: 70.50 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 97 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2281	3	.	.	.	.	.	.	.	.	2284
1.00 - 1.99	1327	612	.	.	.	.	.	.	.	.	1939
2.00 - 2.99	.	121	.	.	.	.	.	.	.	.	121
3.00 - 3.99	.	8	.	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3608	744	0	0	0	0	0	0	0	0	4352

STATION: 97 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2070	.	.	.	.	.	.	.	.	.	2070
1.00 - 1.99	872	123	.	.	.	.	.	.	.	.	995
2.00 - 2.99	.	32	.	.	.	.	.	.	.	.	32
3.00 - 3.99	.	1	1	.	.	.	.	.	.	.	2
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2942	156	1	0	0	0	0	0	0	0	3099

STATION: 97 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1589	.	.	.	.	.	.	.	.	.	1589
1.00 - 1.99	1290	1065	.	.	.	.	.	.	.	.	2355
2.00 - 2.99	.	479	.	.	.	.	.	.	.	.	479
3.00 - 3.99	.	51	10	.	.	.	.	.	.	.	61
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2879	1595	13	0	0	0	0	0	0	0	4487

STATION: 97 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	9572	1892	4763	4784	2851	1052	263	69	52	5	25303
1.00 - 1.99	4419	6653	2060	2552	2482	1210	262	66	19	.	19723
2.00 - 2.99	.	2056	1256	733	544	365	146	19	12	.	5131
3.00 - 3.99	.	91	800	251	222	134	44	18	5	.	1565
4.00 - 4.99	.	.	140	158	101	61	21	18	18	.	517
5.00 - 5.99	.	.	4	86	40	40	17	8	5	.	200
6.00 - 6.99	.	.	.	31	31	15	7	4	.	.	88
7.00 - 7.99	.	.	.	1	14	4	8	2	.	.	29
8.00 - 8.99	.	.	.	.	3	10	10	5	.	.	28
9.00 - GREATER	.	.	.	.	.	6	8	2	.	.	16
TOTAL	13991	10692	9023	8596	6288	2897	786	211	111	5	52600

STATION: 97

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	133	106	190	267	398	438	591	670	519	289	148	108	3857
2.50 - 4.99	815	756	939	1238	1776	1821	2157	2230	1789	1343	951	840	16655
5.00 - 7.49	742	707	807	932	958	1000	1047	934	945	976	913	808	10769
7.50 - 9.99	1110	1079	1097	946	880	764	557	530	790	1178	1155	1221	11307
10.00 - 12.49	602	539	582	421	254	201	82	72	194	367	553	577	4444
12.50 - 14.99	603	488	493	361	162	90	22	22	72	222	395	528	3458
15.00 - 17.49	184	181	134	94	21	6	7	4	9	54	106	169	969
17.50 - 19.99	158	128	139	54	12	.	1	.	1	23	71	124	711
20.00 - GREATER	117	88	83	7	3	.	.	.	1	12	28	89	430
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.00 N, LONG: 70.50 W, DEPTH: 37 M

STATION: 97

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	646	716	725	557	414	378	338	430	489	435	485	515	6128
22.50 - 67.49 (45.0)	306	349	419	498	451	234	180	282	362	433	334	238	4086
67.50 - 112.49 (90.0)	249	199	270	376	290	165	122	213	276	224	240	253	2877
112.50 - 157.49 (135.0)	259	259	322	336	413	274	234	301	263	358	288	252	3559
157.50 - 202.49 (180.0)	398	290	532	654	779	587	696	719	583	645	535	426	6844
202.50 - 247.49 (225.0)	556	581	585	596	859	1189	1302	1133	986	750	717	652	9906
247.50 - 292.49 (270.0)	942	628	624	587	616	864	872	732	701	879	817	952	9214
292.50 - 337.49 (315.0)	1108	1050	987	716	642	629	720	654	660	740	904	1176	9986
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 97

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.83	1.61	1.71	1.50	1.31	0.79	0.72	1.07	0.83	1.46	1.34	1.76	1.33
1977	1.75	1.59	1.80	1.36	1.04	1.25	0.83	0.69	1.13	1.43	1.76	2.15	1.40
1978	2.31	1.79	1.68	1.55	1.54	1.05	0.81	0.69	0.98	1.43	1.45	1.46	1.39
1979	2.22	2.28	2.04	1.67	1.29	0.94	0.80	0.87	1.08	1.03	1.19	1.69	1.42
1980	2.32	1.71	2.26	2.03	1.01	0.77	0.66	0.89	1.06	1.28	2.16	1.71	1.49
1981	1.43	2.61	1.53	1.40	1.61	0.90	0.79	0.70	1.20	0.96	1.24	1.28	1.30
1982	1.29	1.12	0.93	1.28	0.84	1.03	0.52	0.52	0.75	1.02	1.06	1.06	0.95
1983	1.28	1.62	1.59	1.42	1.30	0.65	0.74	0.64	0.80	1.22	1.67	1.73	1.22
1984	1.43	1.71	2.61	1.67	1.17	1.06	0.79	0.59	0.69	0.95	1.32	1.23	1.27
1985	1.42	1.58	1.37	1.01	0.89	1.13	0.63	0.65	0.83	0.83	1.55	1.13	1.08
1986	1.75	1.27	1.27	1.88	1.35	0.95	0.64	0.73	0.94	1.00	1.35	1.68	1.23
1987	1.86	1.63	1.88	2.06	0.93	0.67	0.47	0.60	0.89	1.07	1.16	1.06	1.19
1988	1.05	1.30	1.07	1.35	1.10	0.71	0.56	0.65	0.71	1.28	1.19	1.22	1.02
1989	1.17	1.15	1.27	0.99	1.11	0.79	0.55	0.81	1.25	1.11	1.38	1.09	1.05
1990	1.06	1.28	1.09	1.40	1.15	0.94	0.65	0.84	1.07	1.36	1.22	1.55	1.13
1991	1.09	1.02	1.46	1.07	0.81	0.65	0.54	0.85	0.88	1.55	1.18	1.32	1.04
1992	1.27	1.37	1.40	0.83	0.83	0.82	0.50	0.54	0.77	0.86	0.82	1.58	0.97
1993	1.30	1.64	1.70	1.71	0.95	0.72	0.66	0.62	0.93	1.17	1.25	1.58	1.18
MEAN	1.55	1.57	1.59	1.46	1.12	0.88	0.66	0.72	0.93	1.17	1.35	1.46	

STATION: 97

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	50 916	491013	471012	48 913	42 816	23 718	22 714	39 914	22 717	571013	311011	501013	571013
1977	811111	851411	561011	551014	40 8 7	4210 9	36 818	30 718	44 914	571015	701211	841311	851411
1978	1101513	1071510	621112	581013	591112	36 818	25 712	33 718	24 6 1	39 911	50 916	561012	1101513
1979	971410	6812 9	671114	51 916	35 912	27 718	30 814	25 7 8	39 817	33 815	42 817	36 735	971410
1980	871710	621310	841411	5415 9	32 718	24 718	19 533	26 8 8	28 717	721214	56 914	50 8 2	871710
1981	431210	8616 9	5117 9	51 918	4111 9	33 719	29 718	23 717	271210	29 718	4611 9	41 7 0	8616 9
1982	40 818	38 817	30 719	44 916	18 618	32 8 7	17 618	15 519	221212	3711 9	26 718	3213 9	44 916
1983	39 913	44 8 4	39 9 8	36 810	33 818	18 618	27 635	23 6 3	28 717	31 7 5	47 912	531013	531013
1984	40 8 4	571012	10316 9	701113	30 719	38 815	32 719	13 5 3	17 535	33 8 8	34 735	34 814	10316 9
1985	49 834	761213	48 917	41 818	31 7 4	3713 9	28 719	29 8 8	631013	22 635	511012	41 913	761213
1986	581113	35 7 3	53 919	5514 9	5613 9	24 810	18 7 7	27 712	23 635	27 9 8	47 8 3	6112 9	6112 9
1987	60 9 5	6710 4	671016	561011	3114 9	161010	1310 9	20 618	32 8 8	31 712	48 8 3	31 7 2	671016
1988	28 635	461112	28 716	3111 9	29 7 7	26 717	18 618	29 713	21 617	44 910	38 910	5116 9	5116 9
1989	37 7 1	36 7 3	30 7 5	32 7 5	38 815	2210 9	15 519	24 910	35 818	39 910	37 817	27 715	39 910
1990	32 712	32 7 5	30 718	34 8 9	31 716	32 818	17 617	221210	20 6 4	32 719	34 911	501013	501013
1991	35 811	33 810	38 8 7	48 910	25 715	23 6 4	14 618	631011	24 617	5414 9	3812 9	39 8 9	631011
1992	40 915	29 635	43 912	21 6 4	18 6 4	24 812	20 618	23 717	26 717	19 534	33 817	6313 9	6313 9
1993	36 8 8	611010	6112 9	42 911	221212	28 714	23 618	20 618	28 716	38 815	621016	47 913	621016
MAX	1101513	1071510	10316 9	701113	591112	4210 9	36 818	631011	631013	721214	701211	841311	

MAX Hmo(m): 11.0 MAX Tp(sec): 15. MAX Dp(deg): 126. DATE(gmt): 78010912

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 120. DATE(gmt): 77011018

MEAN Hmo(m): 1.2 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.25 N, LONG: 70.50 W, DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 98

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	309	248	345	352	447	876	1401	1253	764	477	341	334	7147
0.50 - 0.99	1211	1108	1168	1355	1934	2078	2314	2331	1902	1656	1398	1325	19780
1.00 - 1.49	1270	1242	1201	1100	1232	961	620	645	1088	1305	1254	1268	13186
1.50 - 1.99	763	737	767	691	491	226	83	136	381	637	680	679	6271
2.00 - 2.49	410	338	452	409	188	94	28	64	114	233	340	400	3070
2.50 - 2.99	205	148	241	202	88	64	14	20	46	89	162	213	1492
3.00 - 3.49	105	75	114	87	45	15	3	12	13	39	70	114	692
3.50 - 3.99	71	54	60	69	18	6	1	1	9	12	39	73	413
4.00 - 4.49	38	23	47	27	13	.	.	.	1	8	21	24	202
4.50 - 4.99	23	31	28	18	6	.	.	.	1	3	7	17	134
5.00 - 5.49	19	25	13	8	2	.	.	2	.	2	4	10	85
5.50 - 5.99	11	11	6	.	.	.	.	.	1	1	3	3	36
6.00 - 6.49	6	5	8	2	.	.	.	.	.	2	1	1	25
6.50 - 6.99	6	8	4	.	.	.	.	.	.	.	.	1	19
7.00 - 7.49	5	2	3	.	.	.	.	.	.	.	.	.	10
7.50 - 7.99	3	7	2	.	.	.	.	.	.	.	.	2	14
8.00 - 8.49	3	3	1	.	.	.	.	.	.	.	.	.	7
8.50 - 8.99	3	3	1	.	.	.	.	.	.	.	.	.	7
9.00 - 9.49	2	1	3	.	.	.	.	.	.	.	.	.	6
9.50 - 9.99	1	2	.	.	.	.	.	.	.	.	.	.	3
10.00 - GREATER	.	1	.	.	.	.	.	.	.	.	.	.	1
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 98

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	301	248	212	241	299	658	968	802	457	357	326	418	5287
4.0 - 4.9	925	857	730	587	626	883	1044	859	751	837	879	965	9943
5.0 - 5.9	696	787	589	545	420	338	278	362	343	502	609	640	6109
6.0 - 6.9	310	291	335	279	366	311	372	379	320	339	283	335	3920
7.0 - 7.9	203	168	251	285	509	402	529	629	445	281	260	157	4119
8.0 - 8.9	201	175	282	360	619	596	551	669	469	351	285	189	4747
9.0 - 9.9	282	298	310	452	658	514	396	278	406	525	392	257	4768
10.0 - 10.9	325	277	360	456	425	353	160	143	298	477	460	370	4104
11.0 - 11.9	347	339	447	445	250	142	96	126	215	386	361	341	3495
12.0 - 12.9	341	243	401	351	155	78	50	100	182	235	212	343	2691
13.0 - 13.9	242	184	275	192	86	39	15	41	149	75	113	273	1684
14.0 - 14.9	140	89	144	101	25	6	5	12	102	51	50	121	846
15.0 - 15.9	89	61	66	15	9	.	.	16	49	22	30	28	385
16.0 - 16.9	35	21	26	11	15	.	.	18	53	16	12	15	222
17.0 - 17.9	20	7	7	.	2	.	.	10	39	10	16	9	120
18.0 - 18.9	3	12	2	.	.	.	.	7	12	.	8	3	47
19.0 - 19.9	2	8	2	.	.	.	.	4	12	.	22	.	50
20.0 - LONGER	2	7	25	.	.	.	.	9	18	.	2	.	63
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 98

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	169	209	161	87	70	81	94	76	98	74	114	153	1386
11.25 - 33.74 (22.5)	52	77	72	44	41	53	36	50	65	71	52	35	648
33.75 - 56.24 (45.0)	71	107	109	79	72	47	28	27	61	131	76	50	858
56.25 - 78.74 (67.5)	56	78	62	60	72	27	20	42	47	76	86	47	673
78.75 - 101.24 (90.0)	430	414	542	625	619	558	194	468	491	438	392	546	5717
101.25 - 123.74 (112.5)	1274	1056	1402	1466	1322	824	705	1023	1376	1524	1290	1164	14426
123.75 - 146.24 (135.0)	611	505	666	653	1010	848	1133	1025	786	632	551	504	8924
146.25 - 168.74 (157.5)	99	95	130	188	197	190	275	207	181	178	146	120	2006
168.75 - 191.24 (180.0)	199	169	277	309	301	335	351	294	284	277	313	235	3344
191.25 - 213.74 (202.5)	147	177	159	129	183	305	403	305	177	130	175	130	2420
213.75 - 236.24 (225.0)	136	140	108	88	106	325	371	284	222	159	169	181	2289
236.25 - 258.74 (247.5)	138	121	97	56	75	129	186	159	106	136	119	152	1474
258.75 - 281.24 (270.0)	220	115	92	83	79	200	188	111	87	152	160	237	1724
281.25 - 303.74 (292.5)	296	148	168	131	84	149	151	138	116	195	221	285	2082
303.75 - 326.24 (315.0)	276	254	250	129	125	129	203	124	108	138	268	359	2363
326.25 - 348.74 (337.5)	290	407	169	193	108	120	126	131	115	153	188	266	2266
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.25 N, LONG: 70.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 98 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1269	.	.	.	.	.	.	.	.	.	1269
1.00 - 1.99	716	465	.	.	.	.	.	.	.	.	1181
2.00 - 2.99	.	313	.	.	.	.	.	.	.	.	313
3.00 - 3.99	.	17	9	.	.	.	.	.	.	.	26
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1985	795	9	0	0	0	0	0	0	0	2789

STATION: 98 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	446	72	.	.	.	.	.	.	.	.	518
1.00 - 1.99	116	593	.	.	.	.	.	.	.	.	709
2.00 - 2.99	.	234	24	.	.	.	.	.	.	.	258
3.00 - 3.99	.	4	27	.	.	.	.	.	.	.	31
4.00 - 4.99	.	.	5	.	.	.	.	.	.	.	5
5.00 - 5.99	.	.	2	.	.	.	.	.	.	.	2
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	562	903	58	0	0	0	0	0	0	0	1523

STATION: 98 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	379	556	1402	1593	1443	533	116	21	28	2	6073
1.00 - 1.99	49	580	1017	934	795	428	138	23	5	.	3969
2.00 - 2.99	.	123	304	369	199	123	18	25	16	.	1177
3.00 - 3.99	.	.	74	137	108	34	23	8	11	.	395
4.00 - 4.99	.	.	1	30	58	22	5	5	.	.	121
5.00 - 5.99	.	.	.	5	15	17	2	2	.	.	41
6.00 - 6.99	.	.	.	.	3	9	7	1	.	.	20
7.00 - 7.99	.	.	.	.	1	6	7	1	.	.	15
8.00 - 8.99	.	.	.	.	.	1	5	4	.	.	10
9.00 - GREATER	.	.	.	.	.	1	6	1	.	.	8
TOTAL	428	1259	2798	3068	2622	1174	327	91	60	2	11829

STATION: 98 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	514	1149	3689	3635	1546	376	35	27	23	5	10999
1.00 - 1.99	78	758	995	1612	1525	657	155	33	10	.	5823
2.00 - 2.99	.	107	339	301	317	177	56	15	12	.	1324
3.00 - 3.99	.	.	131	113	83	64	24	.	1	.	416
4.00 - 4.99	.	.	3	77	52	39	2	.	.	.	173
5.00 - 5.99	.	.	.	15	32	21	2	.	.	.	70
6.00 - 6.99	.	.	.	.	7	14	2	.	.	.	23
7.00 - 7.99	.	.	.	.	2	6	1	.	.	.	9
8.00 - 8.99	.	.	.	.	.	2	2	.	.	.	4
9.00 - GREATER	.	.	.	.	.	.	1	1	.	.	2
TOTAL	592	2014	5157	5753	3564	1356	280	76	46	5	18843

STATION: 98 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1468	302	.	.	.	.	.	.	.	.	1770
1.00 - 1.99	359	1892	86	.	.	.	.	.	.	.	2337
2.00 - 2.99	.	284	569	1	.	.	.	.	.	.	854
3.00 - 3.99	.	.	172	8	.	.	.	.	.	.	180
4.00 - 4.99	.	.	3	33	.	.	.	.	.	.	36
5.00 - 5.99	.	.	.	8	.	.	.	.	.	.	8
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1827	2478	830	51	0	0	0	0	0	0	5186

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.25 N, LONG: 70.50 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 98 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2327	5	.	.	.	.	.	.	.	.	2332
1.00 - 1.99	1328	618	.	.	.	.	.	.	.	.	1946
2.00 - 2.99	.	112	.	.	.	.	.	.	.	.	112
3.00 - 3.99	.	4	.	.	.	.	.	.	.	.	4
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3655	739	0	0	0	0	0	0	0	0	4394

STATION: 98 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2323	.	.	.	.	.	.	.	.	.	2323
1.00 - 1.99	876	149	.	.	.	.	.	.	.	.	1025
2.00 - 2.99	.	39	.	.	.	.	.	.	.	.	39
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3199	189	1	0	0	0	0	0	0	0	3389

STATION: 98 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1643	.	.	.	.	.	.	.	.	.	1643
1.00 - 1.99	1339	1128	.	.	.	.	.	.	.	.	2467
2.00 - 2.99	.	485	.	.	.	.	.	.	.	.	485
3.00 - 3.99	.	39	13	.	.	.	.	.	.	.	52
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2982	1652	13	0	0	0	0	0	0	0	4647

STATION: 98 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	10369	2084	5091	5228	2989	909	151	48	51	7	26927
1.00 - 1.99	4861	6183	2098	2546	2320	1085	293	56	15	.	19457
2.00 - 2.99	.	1697	1236	671	516	300	74	40	28	.	4562
3.00 - 3.99	.	65	426	258	191	98	47	8	12	.	1105
4.00 - 4.99	.	.	13	140	110	61	7	5	.	.	336
5.00 - 5.99	.	.	2	28	47	38	4	2	.	.	121
6.00 - 6.99	.	.	.	1	10	23	9	1	.	.	44
7.00 - 7.99	.	.	.	.	3	12	8	1	.	.	24
8.00 - 8.99	.	.	.	.	.	3	7	4	.	.	14
9.00 - GREATER	.	.	.	.	.	1	7	2	.	.	10
TOTAL	15230	10029	8866	8872	6186	2530	607	167	106	7	52600

STATION: 98

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	124	92	177	251	363	418	560	628	471	263	134	105	3586
2.50 - 4.99	838	774	958	1252	1806	1822	2186	2259	1836	1370	971	865	16937
5.00 - 7.49	707	717	803	949	962	1009	1037	948	935	985	925	797	10774
7.50 - 9.99	1127	1077	1111	927	877	755	564	530	806	1176	1137	1209	11296
10.00 - 12.49	598	514	576	429	254	212	85	69	186	366	548	594	4431
12.50 - 14.99	603	498	481	351	167	96	24	24	74	216	399	516	3449
15.00 - 17.49	181	182	142	96	21	8	7	4	8	52	109	167	977
17.50 - 19.99	171	126	130	57	11	.	1	.	3	24	67	114	704
20.00 - GREATER	115	92	86	8	3	.	.	2	1	12	30	97	446
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.25 N, LONG: 70.50 W, DEPTH: 18 M

STATION: 98

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	652	725	734	554	441	378	348	411	495	457	483	538	6216
22.50 - 67.49 (45.0)	294	332	416	495	431	235	178	282	344	400	324	229	3960
67.50 - 112.49 (90.0)	234	191	264	386	294	155	108	183	256	212	235	253	2771
112.50 - 157.49 (135.0)	265	260	322	344	398	248	214	292	249	371	282	256	3501
157.50 - 202.49 (180.0)	399	306	543	661	804	630	699	741	591	638	551	431	6994
202.50 - 247.49 (225.0)	570	582	584	574	847	1176	1303	1128	1013	758	714	656	9905
247.50 - 292.49 (270.0)	929	613	609	569	611	864	875	742	696	884	820	932	9144
292.50 - 337.49 (315.0)	1121	1063	992	737	638	634	739	685	676	744	911	1169	10109
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 98

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.70	1.54	1.59	1.35	1.28	0.77	0.72	1.05	0.78	1.42	1.28	1.69	1.27
1977	1.63	1.53	1.63	1.28	0.94	1.16	0.81	0.69	1.07	1.35	1.67	2.03	1.32
1978	2.22	1.57	1.59	1.41	1.45	1.04	0.78	0.69	0.91	1.30	1.33	1.39	1.31
1979	2.02	1.91	1.95	1.54	1.25	0.90	0.81	0.85	1.07	1.03	1.15	1.59	1.34
1980	2.04	1.45	1.99	1.77	0.93	0.79	0.66	0.83	1.06	1.21	1.74	1.55	1.34
1981	1.32	2.51	1.27	1.36	1.48	0.84	0.76	0.67	1.14	0.91	1.16	1.14	1.20
1982	1.23	1.03	0.90	1.23	0.71	0.90	0.52	0.52	0.71	0.84	1.05	0.95	0.88
1983	1.21	1.38	1.44	1.29	1.24	0.65	0.71	0.62	0.78	1.13	1.58	1.61	1.14
1984	1.26	1.58	2.24	1.49	1.13	1.07	0.79	0.57	0.69	0.89	1.23	1.21	1.18
1985	1.28	1.49	1.27	0.98	0.88	1.04	0.65	0.63	0.76	0.80	1.37	1.09	1.02
1986	1.72	1.14	1.27	1.61	1.17	0.91	0.62	0.70	0.88	0.91	1.27	1.54	1.14
1987	1.56	1.40	1.51	1.81	0.82	0.64	0.47	0.59	0.83	1.03	1.06	0.95	1.05
1988	1.05	1.25	1.02	1.18	1.02	0.70	0.57	0.63	0.74	1.21	1.16	1.10	0.97
1989	1.11	1.06	1.16	0.94	1.09	0.69	0.54	0.80	1.27	1.02	1.36	1.04	1.01
1990	1.05	1.22	1.02	1.31	1.07	0.94	0.65	0.82	1.04	1.33	1.13	1.40	1.08
1991	1.05	1.02	1.36	1.00	0.77	0.61	0.54	0.84	0.90	1.38	1.09	1.17	0.98
1992	1.24	1.24	1.37	0.81	0.78	0.75	0.50	0.53	0.72	0.80	0.76	1.39	0.91
1993	1.21	1.46	1.49	1.58	0.92	0.71	0.64	0.61	0.90	1.12	1.20	1.47	1.11
MEAN	1.44	1.43	1.45	1.33	1.05	0.84	0.65	0.70	0.90	1.09	1.26	1.35	

STATION: 98

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	48 917	481014	441012	42 913	39 916	23 718	22 713	33 719	20 617	511013	301112	451013	511013
1977	751311	811412	501112	501114	36 9 9	371010	35 818	29 718	40 914	491114	611312	771312	811412
1978	961613	1031510	561212	501114	501312	35 819	21 713	32 817	201512	36 912	45 916	501012	1031510
1979	851512	581210	601313	541413	331012	28 719	28 814	21 7 7	37 817	32 815	40 915	32 735	851512
1980	901611	541311	761412	481213	31 817	24 719	19 533	23 7 9	29 718	631313	45 914	401011	901611
1981	401111	861610	331710	46 918	341110	30 718	26 717	22 717	231412	27 717	411010	311210	861610
1982	37 916	35 818	29 817	39 916	17 618	27 811	16 520	15 519	241212	301010	25 717	22 718	39 916
1983	37 913	351112	311212	30 7 9	33 818	17 618	20 536	22 7 8	28 718	28 813	421012	461013	461013
1984	32 7 3	511012	941510	631312	29 818	34 815	31 818	12 4 2	16 520	29 8 9	29 814	32 814	941510
1985	36 734	691312	43 916	39 917	25 6 4	30 818	27 718	26 8 9	571013	22 718	431012	38 913	691312
1986	521213	28 7 5	46 919	391411	411410	23 522	17 6 7	23 712	23 619	22 8 9	41 912	531210	531210
1987	45 9 7	52 8 3	651311	511412	211410	151010	12 423	19 618	28 8 9	29 712	38 9 8	25 632	651311
1988	24 719	481312	26 716	30 810	24 717	25 718	18 618	27 713	21 617	40 911	36 810	311610	481312
1989	33 634	29 7 5	29 717	29 912	34 814	20 6 9	15 519	261112	34 819	34 911	36 818	25 713	36 818
1990	29 712	26 6 2	28 817	29 7 9	30 815	31 817	17 619	231312	201412	30 818	34 912	441112	441112
1991	31 810	32 811	36 911	43 910	24 715	18 5 4	14 617	541112	261812	401411	301210	35 910	541112
1992	391312	26 713	39 912	19 618	17 5 3	23 812	19 618	22 716	25 717	17 617	29 719	531310	531310
1993	32 8 9	531111	561210	37 912	231212	26 715	22 618	20 619	26 715	34 815	531114	43 913	561210
MAX	961613	1031510	941510	631312	501312	371010	35 818	541112	571013	631313	611312	771312	

MAX Hmo(m): 10.3 MAX Tp(sec): 15. MAX Dp(deg): 104. DATE(gmt): 78020709

MAX WIND SPEED(m/sec): 35. MAX WIND DIRECTION(deg): 120. DATE(gmt): 77011018

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.3

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N LONG: 70.25 W DEPTH: 18 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 99

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	335	260	345	389	530	929	1268	1239	817	509	357	370	7348
0.50 - 0.99	1176	1089	1173	1334	1832	1917	2228	2245	1791	1580	1306	1240	18911
1.00 - 1.49	1176	1184	1189	1084	1195	922	693	643	962	1228	1244	1220	12740
1.50 - 1.99	777	736	783	708	508	337	220	234	498	735	743	720	6999
2.00 - 2.49	493	415	450	394	212	138	31	58	159	255	365	456	3426
2.50 - 2.99	221	146	209	201	107	54	16	26	52	101	166	208	1507
3.00 - 3.49	111	71	129	100	44	19	6	14	25	28	64	128	739
3.50 - 3.99	59	54	83	53	19	4	2	3	12	11	35	65	400
4.00 - 4.49	29	34	37	24	10	.	.	.	2	7	22	32	197
4.50 - 4.99	26	27	28	17	7	.	.	1	.	2	10	13	131
5.00 - 5.49	21	19	15	6	.	.	.	.	1	5	4	7	78
5.50 - 5.99	9	13	4	6	.	.	.	.	1	.	4	.	37
6.00 - 6.49	10	6	7	2	.	.	.	1	.	1	.	2	29
6.50 - 6.99	8	4	3	2	.	.	.	.	.	2	.	.	19
7.00 - 7.49	4	3	4	.	.	.	.	.	.	.	.	1	12
7.50 - 7.99	3	5	2	.	.	.	.	.	.	.	.	2	12
8.00 - 8.49	2	2	3	.	.	.	.	.	.	.	.	.	7
8.50 - 8.99	2	1	.	.	.	.	.	.	.	.	.	.	3
9.00 - 9.49	.	3	.	.	.	.	.	.	.	.	.	.	3
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	2	.	.	.	.	.	.	.	.	.	.	.	2
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 99

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	287	240	232	248	344	587	746	677	457	389	307	433	4947
4.0 - 4.9	848	784	698	556	574	731	803	775	668	708	779	911	8835
5.0 - 5.9	730	862	604	587	527	582	636	570	447	625	775	699	7644
6.0 - 6.9	384	349	386	289	356	409	408	385	388	349	336	433	4472
7.0 - 7.9	184	168	253	312	542	417	546	611	426	297	221	170	4147
8.0 - 8.9	166	163	284	378	613	595	567	645	451	378	290	181	4711
9.0 - 9.9	256	268	330	498	640	509	427	342	418	563	421	248	4920
10.0 - 10.9	390	283	372	476	394	287	182	146	244	502	476	346	4098
11.0 - 11.9	391	332	420	429	244	110	99	113	217	305	375	346	3381
12.0 - 12.9	340	261	384	284	131	67	34	63	142	190	160	303	2359
13.0 - 13.9	255	174	255	178	50	22	11	50	149	72	86	257	1559
14.0 - 14.9	115	84	129	59	25	4	5	21	111	36	40	98	727
15.0 - 15.9	66	59	55	9	10	.	.	16	55	25	18	23	336
16.0 - 16.9	25	18	28	12	12	.	.	18	60	11	2	4	190
17.0 - 17.9	15	8	2	2	2	.	.	11	41	13	7	9	110
18.0 - 18.9	8	13	5	3	.	.	.	8	15	1	6	2	61
19.0 - 19.9	2	1	1	.	.	.	.	4	12	.	10	1	31
20.0 - LONGER	2	5	26	.	.	.	.	9	19	.	11	.	72
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 99

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	194	254	169	95	78	103	91	91	102	109	112	171	1569
11.25 - 33.74 (22.5)	59	114	113	68	66	59	24	49	65	70	65	61	813
33.75 - 56.24 (45.0)	42	55	62	51	39	35	17	17	20	76	49	38	501
56.25 - 78.74 (67.5)	36	41	59	55	71	21	9	25	33	63	51	34	498
78.75 - 101.24 (90.0)	100	98	131	132	89	56	20	103	61	84	85	111	1070
101.25 - 123.74 (112.5)	522	430	615	739	652	467	281	519	559	855	601	508	6748
123.75 - 146.24 (135.0)	1283	1149	1419	1504	1608	1071	1255	1384	1528	1355	1221	1238	16015
146.25 - 168.74 (157.5)	484	347	496	513	660	730	810	713	642	422	395	363	6575
168.75 - 191.24 (180.0)	196	181	309	293	337	373	360	307	275	275	324	216	3446
191.25 - 213.74 (202.5)	213	245	220	211	248	411	461	375	268	230	261	208	3351
213.75 - 236.24 (225.0)	147	139	105	89	117	270	329	267	219	186	159	196	2223
236.25 - 258.74 (247.5)	106	93	80	43	80	135	160	138	110	119	89	158	1311
258.75 - 281.24 (270.0)	217	96	93	64	77	178	166	93	69	136	170	217	1576
281.25 - 303.74 (292.5)	270	142	165	138	89	147	154	134	131	198	236	289	2093
303.75 - 326.24 (315.0)	300	264	244	136	131	149	209	113	114	140	279	374	2453
326.25 - 348.74 (337.5)	295	424	184	189	122	115	118	136	124	146	223	282	2358
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 70.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 99 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1394	.	.	.	.	.	.	.	.	.	1394
1.00 - 1.99	813	557	.	.	.	.	.	.	.	.	1370
2.00 - 2.99	.	325	.	.	.	.	.	.	.	.	325
3.00 - 3.99	.	20	9	.	.	.	.	.	.	.	29
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2207	902	9	0	0	0	0	0	0	0	3118

STATION: 99 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	445	50	5	.	.	.	.	.	.	.	500
1.00 - 1.99	310	214	.	.	.	.	.	.	.	.	524
2.00 - 2.99	.	71	5	.	.	.	.	.	.	.	76
3.00 - 3.99	.	8	1	.	.	.	.	.	.	.	9
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	755	343	14	0	0	0	0	0	0	0	1112

STATION: 99 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	417	239	59	15	.	.	.	.	.	.	730
1.00 - 1.99	69	458	286	41	5	.	.	.	.	.	859
2.00 - 2.99	.	91	168	88	2	.	.	.	.	.	349
3.00 - 3.99	.	.	44	45	7	.	.	.	.	.	96
4.00 - 4.99	.	.	4	14	10	.	.	.	.	.	28
5.00 - 5.99	.	.	.	3	5	.	.	.	.	.	8
6.00 - 6.99	.	.	.	.	1	1	.	.	.	.	2
7.00 - 7.99	.	.	.	.	1	2	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	486	788	561	206	31	4	0	0	0	0	2076

STATION: 99 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	524	1489	5063	5251	2536	730	176	60	52	7	15888
1.00 - 1.99	79	799	1607	2635	2239	908	175	74	18	2	8536
2.00 - 2.99	.	117	373	597	620	366	107	20	18	.	2218
3.00 - 3.99	.	.	136	169	161	138	37	11	6	.	658
4.00 - 4.99	.	.	4	83	90	60	12	2	.	.	251
5.00 - 5.99	.	.	.	16	42	38	4	.	.	.	100
6.00 - 6.99	.	.	.	.	18	22	4	1	.	.	45
7.00 - 7.99	.	.	.	.	1	14	5	1	.	.	21
8.00 - 8.99	.	.	.	.	.	5	3	1	.	.	9
9.00 - GREATER	.	.	.	.	.	1	3	1	.	.	5
TOTAL	603	2405	7183	8751	5707	2282	526	171	94	9	27731

STATION: 99 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1355	603	19	.	.	.	.	.	.	.	1977
1.00 - 1.99	212	2377	114	.	.	.	.	.	.	.	2703
2.00 - 2.99	.	454	659	1	.	.	.	.	.	.	1114
3.00 - 3.99	.	.	240	17	.	.	.	.	.	.	257
4.00 - 4.99	.	.	7	37	.	.	.	.	.	.	44
5.00 - 5.99	.	.	.	6	1	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	1	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1567	3434	1039	61	2	0	0	0	0	0	6103

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 70.25 W, DEPTH: 18 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 99 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1890	91	.	.	.	.	.	.	.	.	1981
1.00 - 1.99	272	1977	.	.	.	.	.	.	.	.	2249
2.00 - 2.99	.	311	9	.	.	.	.	.	.	.	320
3.00 - 3.99	.	1	27	.	.	.	.	.	.	.	28
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2162	2380	36	0	0	0	0	0	0	0	4578

STATION: 99 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2051	1	.	.	.	.	.	.	.	.	2052
1.00 - 1.99	821	174	.	.	.	.	.	.	.	.	995
2.00 - 2.99	.	36	.	.	.	.	.	.	.	.	36
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2872	212	1	0	0	0	0	0	0	0	3085

STATION: 99 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1737	.	.	.	.	.	.	.	.	.	1737
1.00 - 1.99	1393	1110	.	.	.	.	.	.	.	.	2503
2.00 - 2.99	.	495	.	.	.	.	.	.	.	.	495
3.00 - 3.99	.	47	14	.	.	.	.	.	.	.	61
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3130	1652	15	0	0	0	0	0	0	0	4797

STATION: 99 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	9813	2473	5146	5266	2536	730	176	60	52	7	26259
1.00 - 1.99	3969	7666	2007	2676	2244	908	175	74	18	2	19739
2.00 - 2.99	.	1900	1214	686	622	366	107	20	18	.	4933
3.00 - 3.99	.	77	471	231	168	138	37	11	6	.	1139
4.00 - 4.99	.	.	20	134	100	60	12	2	.	.	328
5.00 - 5.99	.	.	.	25	48	38	4	.	.	.	115
6.00 - 6.99	.	.	.	.	20	23	4	1	.	.	48
7.00 - 7.99	.	.	.	.	2	16	5	1	.	.	24
8.00 - 8.99	.	.	.	.	.	6	3	1	.	.	10
9.00 - GREATER	.	.	.	.	.	1	3	1	.	.	5
TOTAL	13782	12116	8858	9018	5740	2286	526	171	94	9	52600

STATION: 99

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	137	100	189	259	364	395	542	605	439	259	134	105	3528
2.50 - 4.99	825	774	963	1268	1789	1835	2170	2247	1839	1351	974	853	16888
5.00 - 7.49	705	692	774	934	962	1006	1042	956	916	1016	928	804	10735
7.50 - 9.99	1106	1074	1117	916	866	753	589	552	838	1139	1121	1202	11273
10.00 - 12.49	590	508	564	401	271	215	88	72	198	375	536	584	4402
12.50 - 14.99	607	515	475	368	176	106	24	26	75	236	408	528	3544
15.00 - 17.49	188	178	152	104	23	9	7	2	11	52	112	170	1008
17.50 - 19.99	184	135	138	54	10	1	2	3	3	23	71	114	738
20.00 - GREATER	122	96	92	16	3	.	.	1	1	13	36	104	484
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 70.25 W, DEPTH: 18 M

STATION: 99

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	654	735	737	537	451	384	353	434	505	472	494	554	6310
22.50 - 67.49 (45.0)	296	336	420	503	422	224	154	245	318	385	320	229	3852
67.50 - 112.49 (90.0)	227	182	264	393	287	163	107	170	231	196	224	239	2683
112.50 - 157.49 (135.0)	269	267	325	357	403	225	203	260	240	365	285	271	3470
157.50 - 202.49 (180.0)	411	322	520	665	823	669	703	779	616	662	566	438	7174
202.50 - 247.49 (225.0)	553	574	606	576	841	1182	1303	1123	1009	756	702	653	9878
247.50 - 292.49 (270.0)	918	578	591	542	613	828	875	750	711	871	803	915	8995
292.50 - 337.49 (315.0)	1136	1078	1001	747	624	645	766	703	690	757	926	1165	10238
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 99

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.75	1.69	1.63	1.35	1.39	0.86	0.79	1.10	0.82	1.47	1.31	1.75	1.33
1977	1.62	1.59	1.66	1.35	0.96	1.19	0.90	0.79	1.08	1.38	1.73	2.08	1.36
1978	2.28	1.38	1.64	1.40	1.47	1.18	0.84	0.75	0.95	1.32	1.30	1.44	1.33
1979	2.03	1.90	2.09	1.54	1.30	0.94	0.92	0.90	1.18	1.13	1.21	1.67	1.40
1980	1.92	1.37	1.87	1.73	0.89	0.88	0.74	0.84	1.16	1.28	1.66	1.60	1.33
1981	1.34	2.52	1.22	1.53	1.47	0.89	0.80	0.67	1.18	0.95	1.15	1.12	1.23
1982	1.29	1.05	0.93	1.30	0.60	0.78	0.57	0.56	0.71	0.77	1.11	0.97	0.88
1983	1.25	1.26	1.36	1.25	1.28	0.70	0.79	0.63	0.82	1.09	1.61	1.62	1.14
1984	1.19	1.59	2.01	1.48	1.24	1.17	0.89	0.61	0.79	0.88	1.26	1.27	1.20
1985	1.26	1.55	1.32	1.02	0.96	1.03	0.74	0.64	0.74	0.86	1.29	1.13	1.04
1986	1.88	1.11	1.43	1.47	1.06	0.95	0.66	0.72	0.90	0.94	1.30	1.55	1.16
1987	1.45	1.35	1.32	1.68	0.81	0.66	0.48	0.60	0.79	1.04	1.04	0.93	1.01
1988	1.13	1.34	1.07	1.06	0.99	0.78	0.62	0.65	0.79	1.22	1.19	1.08	0.99
1989	1.16	1.08	1.16	0.95	1.13	0.58	0.57	0.84	1.33	0.99	1.46	1.06	1.03
1990	1.12	1.28	1.06	1.34	1.03	1.01	0.71	0.81	1.04	1.39	1.18	1.43	1.12
1991	1.12	1.09	1.36	0.98	0.81	0.65	0.58	0.89	1.02	1.35	1.07	1.15	1.01
1992	1.29	1.26	1.46	0.81	0.76	0.74	0.52	0.58	0.73	0.82	0.77	1.28	0.92
1993	1.21	1.43	1.46	1.57	0.96	0.77	0.66	0.61	1.00	1.17	1.29	1.49	1.13
MEAN	1.46	1.44	1.45	1.32	1.06	0.88	0.71	0.73	0.95	1.11	1.27	1.37	

STATION: 99

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	511214	491014	441013	441115	41 916	23 718	23 714	35 915	22 621	541114	301113	471014	541114
1977	761313	821414	521214	501116	34 910	321012	38 917	30 817	43 916	521115	591314	771414	821414
1978	1041615	931613	581214	521115	491313	36 819	19 619	33 818	26 621	36 918	47 917	521013	1041615
1979	881413	551111	641314	651414	35 913	29 719	29 914	20 7 8	38 818	33 816	42 916	33 633	881413
1980	711713	451212	781413	481315	33 817	25 719	20 533	211313	30 718	651315	461014	401012	781413
1981	40 733	771515	361415	46 918	291313	32 818	27 717	22 717	23 718	27 718	311112	29 716	771515
1982	38 916	35 818	29 817	38 916	16 619	25 814	18 618	17 521	271314	21 8 9	27 718	23 718	38 916
1983	37 914	35 911	331213	30 810	33 818	18 619	20 5 0	23 810	28 718	28 914	461013	441114	461013
1984	30 817	501013	841513	661314	32 816	35 916	32 817	13 619	18 619	22 8 9	32 914	32 714	841513
1985	36 734	711314	45 915	39 916	26 624	31 818	30 817	25 8 9	561014	24 715	411013	38 914	711314
1986	581114	25 910	521017	301413	291412	27 719	18 7 8	23 619	25 621	211113	421013	531115	581114
1987	471011	42 7 3	671414	571414	161112	17 619	16 522	20 619	27 7 8	28 712	29 6 3	24 632	671414
1988	24 719	531313	281014	32 811	26 718	27 717	19 618	25 714	21 617	401012	36 810	26 719	531313
1989	31 734	26 717	30 816	26 913	35 915	21 6 9	14 520	291214	362014	361013	38 817	27 714	38 817
1990	29 712	26 719	29 718	29 712	34 815	31 817	17 619	261314	211413	31 816	35 912	471114	471114
1991	30 812	33 812	36 912	43 911	25 715	15 522	15 618	601114	331714	32 914	25 716	34 810	601114
1992	401414	27 814	391013	20 618	15 523	23 913	19 618	23 716	26 717	171212	29 719	431110	431110
1993	28 810	541113	531212	38 816	251313	26 716	22 618	21 619	28 716	35 915	561116	43 914	561116
MAX	1041615	931613	841513	661314	491313	36 819	38 917	601114	561014	651315	591314	771414	

MAX Hmo(m): 10.4 MAX Tp(sec): 16. MAX Dp(deg): 151. DATE(gmt): 78010912

MAX WIND SPEED(m/sec): 37. MAX WIND DIRECTION(deg): 120. DATE(gmt): 77011018

MEAN Hmo(m): 1.1 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.8 STANDARD DEVIATION Tp(sec): 3.2

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 69.75 W, DEPTH: 110 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 100

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	155	141	195	224	243	360	476	689	474	328	206	206	3697
0.50 - 0.99	861	728	840	1035	1380	1654	2214	2189	1569	1190	988	901	15549
1.00 - 1.49	1014	1129	942	953	1383	1293	1251	1043	1081	1249	1054	1032	13424
1.50 - 1.99	824	781	890	798	726	581	350	324	664	839	850	873	8500
2.00 - 2.49	556	525	639	513	333	203	118	135	301	473	589	592	4977
2.50 - 2.99	421	277	370	333	188	143	28	47	126	217	332	365	2847
3.00 - 3.49	240	200	203	177	104	47	16	19	56	84	150	227	1523
3.50 - 3.99	121	75	120	108	54	27	6	8	26	46	57	112	760
4.00 - 4.49	94	52	93	71	22	8	2	7	13	18	36	71	487
4.50 - 4.99	60	47	53	47	10	2	1	.	7	4	26	41	298
5.00 - 5.49	30	25	45	28	10	2	2	1	1	5	12	22	183
5.50 - 5.99	18	24	21	10	7	.	.	.	.	.	10	8	98
6.00 - 6.49	18	21	12	8	2	.	.	1	2	4	5	7	80
6.50 - 6.99	13	12	13	3	1	.	.	.	.	3	2	2	49
7.00 - 7.49	7	5	7	2	1	.	.	.	.	1	3	2	28
7.50 - 7.99	9	3	4	2	.	.	.	1	.	2	.	.	21
8.00 - 8.49	7	6	2	4	.	.	.	.	.	.	.	.	19
8.50 - 8.99	5	3	3	2	.	.	.	.	.	1	.	1	15
9.00 - 9.49	1	4	4	1	.	.	.	.	.	.	.	.	10
9.50 - 9.99	2	2	2	.	.	.	.	.	.	.	.	2	8
10.00 - GREATER	8	12	6	1	.	.	.	.	.	.	.	.	27
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 100

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	106	92	88	108	110	102	168	304	202	174	128	166	1748
4.0 - 4.9	517	566	412	339	405	426	542	585	526	496	524	612	5950
5.0 - 5.9	770	782	515	487	446	510	569	549	406	699	685	721	7139
6.0 - 6.9	522	399	387	347	386	601	714	641	494	521	499	508	6019
7.0 - 7.9	335	330	340	426	656	799	846	875	590	460	352	371	6380
8.0 - 8.9	294	241	437	542	893	795	822	753	525	481	438	313	6534
9.0 - 9.9	331	357	471	584	768	613	493	288	457	574	525	360	5821
10.0 - 10.9	397	340	502	551	415	305	183	146	278	477	483	443	4520
11.0 - 11.9	394	365	458	474	215	102	93	102	209	262	370	330	3374
12.0 - 12.9	362	297	447	291	104	48	27	88	186	177	175	319	2521
13.0 - 13.9	268	158	217	126	40	17	2	49	137	59	78	250	1401
14.0 - 14.9	95	76	101	31	20	2	5	20	111	34	25	53	573
15.0 - 15.9	41	45	36	4	6	.	.	13	68	27	11	12	263
16.0 - 16.9	12	8	23	7	.	.	.	19	52	14	1	2	138
17.0 - 17.9	17	5	1	1	.	.	.	12	35	9	8	2	90
18.0 - 18.9	1	11	3	2	.	.	.	8	14	.	3	2	44
19.0 - 19.9	2	.	2	.	.	.	.	5	13	.	7	.	29
20.0 - LONGER	.	.	24	.	.	.	.	7	17	.	8	.	56
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 100

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	105	159	100	59	43	29	45	54	57	86	64	115	916
11.25 - 33.74 (22.5)	25	58	58	38	31	33	11	26	42	54	39	30	445
33.75 - 56.24 (45.0)	54	86	66	65	63	33	7	20	18	90	66	43	611
56.25 - 78.74 (67.5)	42	55	99	80	100	18	4	21	48	81	61	45	654
78.75 - 101.24 (90.0)	144	113	113	136	76	64	10	70	66	66	87	156	1101
101.25 - 123.74 (112.5)	514	399	602	675	535	354	159	330	527	860	625	542	6122
123.75 - 146.24 (135.0)	619	625	763	802	944	519	486	789	871	710	729	635	8492
146.25 - 168.74 (157.5)	719	525	696	801	854	760	803	815	845	699	494	566	8577
168.75 - 191.24 (180.0)	652	646	969	879	1011	1440	1718	1249	881	579	749	693	11466
191.25 - 213.74 (202.5)	200	214	220	196	253	300	350	316	241	252	289	225	3056
213.75 - 236.24 (225.0)	158	171	120	107	128	284	309	269	228	202	189	191	2356
236.25 - 258.74 (247.5)	166	117	86	75	92	157	160	152	135	173	122	200	1635
258.75 - 281.24 (270.0)	306	150	142	98	90	130	136	78	98	248	239	282	1997
281.25 - 303.74 (292.5)	272	156	160	104	77	87	104	116	113	172	192	282	1835
303.75 - 326.24 (315.0)	284	280	165	114	94	70	95	84	74	102	234	285	1881
326.25 - 348.74 (337.5)	204	318	105	91	73	42	67	75	76	90	141	174	1456
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 69.75 W, DEPTH: 110 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 100 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	701										701
1.00 - 1.99	546	283									829
2.00 - 2.99		210									210
3.00 - 3.99		11	3								14
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1247	504	3	0	0	0	0	0	0	0	1754

STATION: 100 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	243	61	18								322
1.00 - 1.99	89	467	12	2							570
2.00 - 2.99		210	16								226
3.00 - 3.99		7	34	1							42
4.00 - 4.99			13								13
5.00 - 5.99			4	2							6
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	332	745	97	5	0	0	0	0	0	0	1179

STATION: 100 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	289	141	32	7							469
1.00 - 1.99	37	392	211	50	6						696
2.00 - 2.99		114	329	66	22	1					532
3.00 - 3.99		1	95	87	7	1					191
4.00 - 4.99			21	72	17						110
5.00 - 5.99				24	10						34
6.00 - 6.99				6	12						18
7.00 - 7.99				1	4						5
8.00 - 8.99					6						6
9.00 - GREATER					1	9					10
TOTAL	326	648	688	313	85	11	0	0	0	0	2071

STATION: 100 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	305	583	2334	2473	1275	400	108	28	34	2	7542
1.00 - 1.99	73	684	1729	2192	1694	543	79	44	11		7049
2.00 - 2.99		113	416	774	693	260	71	10	10		2347
3.00 - 3.99			145	227	221	111	27	10	1		742
4.00 - 4.99			32	93	115	54	7	2	2		305
5.00 - 5.99				48	40	43	2	2			135
6.00 - 6.99				21	25	23	4	1			74
7.00 - 7.99					14	7	3	1			25
8.00 - 8.99					12	2	2				16
9.00 - GREATER					5	11					16
TOTAL	378	1380	4656	5828	4094	1454	303	98	58	2	18251

STATION: 100 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	667	1411	3256	1377	234	27	2	2	4	1	6981
1.00 - 1.99	158	1692	2011	1803	634	121	33	14	6	2	6474
2.00 - 2.99		229	972	612	540	148	23	10	4		2538
3.00 - 3.99		1	314	208	195	101	17	6	7		849
4.00 - 4.99			38	112	66	59	9	4	1		289
5.00 - 5.99				59	16	22	4				101
6.00 - 6.99				15	12	9	1				37
7.00 - 7.99					11	6	2				19
8.00 - 8.99					5	6	1				12
9.00 - GREATER					3	10	6				19
TOTAL	825	3333	6591	4186	1716	509	98	36	22	3	17319

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 69.75 W, DEPTH: 110 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 100 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	988	231	.	.	.	.	.	.	.	.	1219
1.00 - 1.99	131	2186	14	.	.	.	.	.	.	.	2331
2.00 - 2.99	.	445	466	.	.	.	.	.	.	.	911
3.00 - 3.99	.	.	259	.	.	.	.	.	.	.	259
4.00 - 4.99	.	.	36	4	.	.	.	.	.	.	40
5.00 - 5.99	.	.	.	5	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1119	2862	775	9	0	0	0	0	0	0	4765

STATION: 100 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	991	12	.	.	.	.	.	.	.	.	1003
1.00 - 1.99	353	1651	.	.	.	.	.	.	.	.	2004
2.00 - 2.99	.	545	5	.	.	.	.	.	.	.	550
3.00 - 3.99	.	15	53	.	.	.	.	.	.	.	68
4.00 - 4.99	.	.	17	.	.	.	.	.	.	.	17
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1344	2223	75	0	0	0	0	0	0	0	3642

STATION: 100 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1009	.	.	.	.	.	.	.	.	.	1009
1.00 - 1.99	1118	853	.	.	.	.	.	.	.	.	1971
2.00 - 2.99	.	510	.	.	.	.	.	.	.	.	510
3.00 - 3.99	.	100	18	.	.	.	.	.	.	.	118
4.00 - 4.99	.	.	11	.	.	.	.	.	.	.	11
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2127	1463	29	0	0	0	0	0	0	0	3619

STATION: 100 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5193	2439	5640	3857	1509	427	110	30	38	3	19246
1.00 - 1.99	2505	8208	3977	4047	2334	664	112	58	17	2	21924
2.00 - 2.99	.	2376	2204	1452	1255	409	94	20	14	.	7824
3.00 - 3.99	.	135	921	523	423	213	44	16	8	.	2283
4.00 - 4.99	.	.	168	281	198	113	16	6	3	.	785
5.00 - 5.99	.	.	4	138	66	65	6	2	.	.	281
6.00 - 6.99	.	.	.	42	49	32	5	1	.	.	129
7.00 - 7.99	.	.	.	1	29	13	5	1	.	.	49
8.00 - 8.99	.	.	.	.	23	8	3	.	.	.	34
9.00 - GREATER	.	.	.	.	9	30	6	.	.	.	45
TOTAL	7698	13158	12914	10341	5895	1974	401	134	80	5	52600

STATION: 100

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	134	91	175	235	339	386	507	581	425	225	113	96	3307
2.50 - 4.99	807	759	959	1264	1766	1785	2159	2231	1821	1318	950	822	16641
5.00 - 7.49	683	669	758	938	961	1044	1058	990	947	1040	905	805	10798
7.50 - 9.99	1103	1092	1095	897	897	765	618	553	839	1155	1140	1170	11324
10.00 - 12.49	599	502	590	431	289	223	86	73	191	390	559	593	4526
12.50 - 14.99	622	538	482	369	177	105	27	30	79	238	429	560	3656
15.00 - 17.49	207	180	163	112	20	11	8	2	13	56	103	185	1060
17.50 - 19.99	179	140	146	60	12	1	1	2	3	29	75	127	775
20.00 - GREATER	130	101	96	14	3	.	.	2	2	13	46	106	513
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.50 N, LONG: 69.75 W, DEPTH: 110 M

STATION: 100

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	665	732	728	528	439	372	322	399	497	474	508	530	6194
22.50 - 67.49 (45.0)	301	340	446	546	423	224	158	247	322	392	322	245	3966
67.50 - 112.49 (90.0)	241	188	253	367	298	176	109	165	239	198	232	257	2723
112.50 - 157.49 (135.0)	257	262	327	356	403	258	200	279	241	368	283	263	3497
157.50 - 202.49 (180.0)	405	318	528	654	845	672	728	772	603	641	552	430	7148
202.50 - 247.49 (225.0)	537	560	592	575	828	1172	1324	1142	1004	759	682	627	9802
247.50 - 292.49 (270.0)	917	567	610	559	613	810	883	746	708	869	800	898	8980
292.50 - 337.49 (315.0)	1141	1105	980	735	615	636	740	714	706	763	941	1214	10290
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 100

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.25	2.24	2.08	1.56	1.95	1.21	1.08	1.35	1.03	1.83	1.73	2.09	1.70
1977	2.01	1.92	2.07	1.75	1.21	1.49	1.15	0.99	1.21	1.75	2.05	2.56	1.68
1978	2.99	1.58	1.99	1.68	1.85	1.48	1.05	0.90	1.18	1.55	1.55	1.82	1.64
1979	2.60	2.22	2.62	1.89	1.57	1.17	1.16	1.10	1.51	1.41	1.58	2.07	1.74
1980	2.47	1.61	2.41	2.11	1.13	1.21	1.03	1.07	1.40	1.61	1.98	1.91	1.66
1981	1.65	3.35	1.63	2.11	1.78	1.15	1.00	0.79	1.45	1.20	1.45	1.53	1.58
1982	1.73	1.45	1.22	1.72	0.71	1.01	0.72	0.76	0.91	0.93	1.38	1.23	1.14
1983	1.53	1.52	1.61	1.50	1.59	0.95	0.97	0.77	1.03	1.32	1.89	2.04	1.39
1984	1.43	1.96	2.47	1.89	1.65	1.42	1.25	0.71	0.93	1.11	1.49	1.55	1.49
1985	1.53	1.88	1.62	1.27	1.26	1.36	0.99	0.75	0.93	1.06	1.54	1.40	1.30
1986	2.38	1.28	1.91	1.79	1.29	1.23	0.86	0.91	1.09	1.15	1.54	1.99	1.45
1987	1.77	1.52	1.64	2.04	0.94	0.82	0.58	0.71	0.97	1.23	1.27	1.14	1.22
1988	1.42	1.73	1.41	1.33	1.23	1.00	0.90	0.78	0.96	1.46	1.45	1.31	1.25
1989	1.45	1.42	1.41	1.25	1.39	0.77	0.76	1.03	1.62	1.20	1.84	1.27	1.28
1990	1.50	1.81	1.39	1.66	1.32	1.35	0.95	0.95	1.17	1.70	1.46	1.78	1.42
1991	1.41	1.40	1.76	1.19	0.94	0.80	0.76	1.12	1.28	1.63	1.34	1.40	1.25
1992	1.66	1.54	1.86	0.99	0.91	0.97	0.68	0.80	0.86	1.01	1.03	1.58	1.16
1993	1.66	1.80	1.83	1.98	1.21	0.99	0.80	0.76	1.33	1.43	1.66	1.85	1.44
MEAN	1.86	1.79	1.83	1.65	1.33	1.13	0.93	0.90	1.16	1.37	1.57	1.69	

STATION: 100

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	801216	691116	54 919	551016	531018	32 820	25 714	441018	30 721	661114	34 728	541014	801216
1977	961312	1081313	711115	601016	40 9 9	42 910	541017	36 819	45 916	631016	711113	981314	1081313
1978	1481516	1211411	751213	631116	731118	501118	26 720	38 818	33 721	43 919	641018	601013	1481516
1979	1091312	661111	891316	1011416	45 918	36 819	33 815	30 722	52 918	44 918	581017	38 820	1091312
1980	971318	571211	1021416	611216	40 918	31 722	24 721	251817	34 917	851215	551015	491012	1021416
1981	46 732	1331517	471416	671118	381213	38 819	30 818	23 718	321517	32 917	41 9 9	451217	1331517
1982	51 919	46 822	35 819	521118	17 620	32 813	21 620	21 621	321314	30 8 8	351017	26 720	521118
1983	45 915	431011	391213	411216	42 918	21 719	26 721	25 810	37 819	36 821	581113	511111	581113
1984	35 818	611113	1021310	861214	36 819	421315	401018	15 620	23 721	421718	39 916	35 814	1021310
1985	44 912	891214	681117	571018	37 821	391017	39 918	28 8 9	631117	28 715	471112	48 918	891214
1986	691214	31 9 8	691019	371312	42 7 3	40 821	221118	29 721	38 819	29 721	50 912	651116	691019
1987	581011	58 9 5	1031316	791416	23 626	19 621	17 622	21 619	26 6 7	30 813	41 7 3	321115	1031316
1988	30 721	641113	371115	38 811	29 719	28 718	20 619	24 713	221615	511012	42 810	31 720	641113
1989	35 733	341217	35 818	37 724	40 916	23 6 9	16 817	351215	43 918	411013	501117	29 813	501117
1990	341117	421518	36 821	33 8 9	46 916	39 918	231117	311315	221313	421017	40 912	591014	591014
1991	33 911	38 811	43 912	501011	26 716	18 621	15 618	791116	441716	40 915	291112	40 810	791116
1992	531016	31 714	461016	211014	17 5 3	26 913	21 618	24 721	29 719	21 624	34 819	5410 8	5410 8
1993	41 821	631112	691110	511017	291213	29 716	23 618	261318	35 820	39 816	721217	52 914	721217
MAX	1481516	1331517	1031316	1011416	731118	501118	541017	791116	631117	851215	721217	981314	

MAX Hmo(m): 14.8 MAX Tp(sec): 15. MAX Dp(deg): 162. DATE(gmt): 78010912

MAX WIND SPEED(m/sec): 37. MAX WIND DIRECTION(deg): 120. DATE(gmt): 77011018

MEAN Hmo(m): 1.4 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.50 W, DEPTH: 27 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 101

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	196	165	237	260	306	420	543	792	524	385	254	263	4345
0.50 - 0.99	1030	916	988	1222	1576	1860	2372	2307	1730	1425	1155	1052	17633
1.00 - 1.49	1146	1154	1083	1022	1387	1226	1106	900	1097	1284	1163	1199	13767
1.50 - 1.99	780	757	871	747	603	430	295	293	571	747	794	759	7647
2.00 - 2.49	544	460	550	468	283	220	92	109	230	362	488	541	4347
2.50 - 2.99	296	276	269	254	164	91	33	37	85	158	252	276	2191
3.00 - 3.49	184	111	176	141	67	52	13	15	45	44	101	178	1127
3.50 - 3.99	98	80	112	75	46	15	6	8	20	32	49	101	642
4.00 - 4.49	71	44	65	58	13	5	2	.	15	7	31	53	364
4.50 - 4.99	35	29	36	36	12	1	2	1	1	8	17	24	202
5.00 - 5.49	19	24	29	16	5	.	.	.	1	3	9	11	117
5.50 - 5.99	21	18	19	8	.	.	.	1	1	3	5	3	79
6.00 - 6.49	15	9	10	3	2	.	.	1	.	3	2	.	45
6.50 - 6.99	11	5	5	4	.	.	.	.	.	2	.	2	29
7.00 - 7.49	4	4	5	4	.	.	.	.	.	1	.	1	19
7.50 - 7.99	5	4	3	1	.	.	.	.	.	.	.	.	13
8.00 - 8.49	3	5	5	1	.	.	.	.	.	.	.	1	15
8.50 - 8.99	2	2	1	.	.	.	.	.	.	.	.	.	5
9.00 - 9.49	1	4	.	.	.	.	.	.	.	.	.	.	5
9.50 - 9.99	1	3	.	.	.	.	.	.	.	.	.	.	4
10.00 - GREATER	2	2	.	.	.	.	.	.	.	.	.	.	4
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 101

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	185	160	157	204	185	185	292	384	307	279	231	292	2861
4.0 - 4.9	604	622	452	412	450	386	459	539	493	569	571	654	6211
5.0 - 5.9	629	683	495	409	329	440	519	541	315	516	608	505	5989
6.0 - 6.9	355	351	322	293	419	574	758	686	513	463	385	443	5562
7.0 - 7.9	352	314	297	452	746	888	921	949	658	507	384	385	6853
8.0 - 8.9	318	260	447	535	853	803	784	651	511	534	487	399	6582
9.0 - 9.9	381	373	500	598	719	569	449	275	431	561	524	394	5774
10.0 - 10.9	418	356	474	518	379	300	169	138	267	467	447	422	4355
11.0 - 11.9	384	344	439	416	192	106	76	92	191	246	364	329	3179
12.0 - 12.9	362	266	440	274	105	47	29	70	161	163	159	275	2351
13.0 - 13.9	279	180	216	152	45	18	3	48	146	69	79	255	1490
14.0 - 14.9	109	67	110	28	21	4	5	26	112	35	36	82	635
15.0 - 15.9	41	59	53	15	9	.	.	13	69	27	12	20	318
16.0 - 16.9	20	15	28	9	10	.	.	19	55	16	1	4	177
17.0 - 17.9	20	7	1	2	2	.	.	12	41	11	8	3	107
18.0 - 18.9	4	12	4	2	.	.	.	7	17	1	4	2	53
19.0 - 19.9	1	.	2	1	.	.	.	5	11	.	10	.	30
20.0 - LONGER	2	3	27	.	.	.	.	9	22	.	10	.	73
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 101

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	148	219	138	86	56	41	51	65	70	115	106	150	1245
11.25 - 33.74 (22.5)	48	91	92	54	54	34	11	32	36	67	52	54	625
33.75 - 56.24 (45.0)	33	47	61	57	47	27	5	16	14	85	57	32	481
56.25 - 78.74 (67.5)	34	28	65	56	60	20	2	26	36	47	43	35	452
78.75 - 101.24 (90.0)	71	61	81	88	35	31	11	39	36	29	50	92	624
101.25 - 123.74 (112.5)	144	119	96	135	137	156	35	86	143	114	122	122	1409
123.75 - 146.24 (135.0)	833	710	987	1089	1097	585	471	852	971	1265	1068	830	10758
146.25 - 168.74 (157.5)	967	803	974	1100	1110	900	895	954	1113	949	643	862	11270
168.75 - 191.24 (180.0)	847	736	1119	905	1139	1592	1824	1368	1004	728	940	892	13094
191.25 - 213.74 (202.5)	247	236	234	208	281	331	435	367	274	269	312	256	3450
213.75 - 236.24 (225.0)	164	163	119	113	118	269	276	243	236	241	184	209	2335
236.25 - 258.74 (247.5)	61	56	36	33	37	72	84	80	61	75	53	66	714
258.75 - 281.24 (270.0)	108	58	30	46	32	62	82	46	48	79	91	88	770
281.25 - 303.74 (292.5)	195	117	95	87	67	63	96	92	98	141	150	189	1390
303.75 - 326.24 (315.0)	275	236	195	130	105	75	115	103	80	138	242	321	2015
326.25 - 348.74 (337.5)	289	392	142	133	89	62	71	95	100	122	207	266	1968
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N LONG: 69.50 W DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 101 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	994	.	.	.	.	.	.	.	.	.	994
1.00 - 1.99	684	493	.	.	.	.	.	.	.	.	1177
2.00 - 2.99	.	324	.	.	.	.	.	.	.	.	324
3.00 - 3.99	.	27	7	.	.	.	.	.	.	.	34
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1678	844	8	0	0	0	0	0	0	0	2530

STATION: 101 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	289	34	6	.	.	.	.	.	.	.	329
1.00 - 1.99	325	205	5	.	.	.	.	.	.	.	535
2.00 - 2.99	.	95	4	.	.	.	.	.	.	.	99
3.00 - 3.99	.	7	1	.	.	.	.	.	.	.	8
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	614	341	18	0	0	0	0	0	0	0	973

STATION: 101 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	320	116	6	3	.	.	.	.	.	.	445
1.00 - 1.99	65	382	52	.	.	.	.	.	.	.	499
2.00 - 2.99	.	97	105	2	.	.	.	.	.	.	204
3.00 - 3.99	.	1	55	33	.	.	.	.	.	.	89
4.00 - 4.99	.	.	5	26	.	.	.	.	.	.	31
5.00 - 5.99	.	.	.	8	2	.	.	.	.	.	10
6.00 - 6.99	.	.	.	.	3	.	.	.	.	.	3
7.00 - 7.99	.	.	.	.	2	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	385	596	223	72	7	0	0	0	0	0	1283

STATION: 101 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	346	712	2285	2448	1402	471	132	32	37	2	7867
1.00 - 1.99	83	762	1651	1983	1473	582	103	47	7	.	6691
2.00 - 2.99	.	124	375	592	532	213	69	13	12	.	1930
3.00 - 3.99	.	1	151	147	159	100	27	5	.	.	590
4.00 - 4.99	.	.	17	87	71	47	8	3	.	.	233
5.00 - 5.99	.	.	.	37	27	30	3	.	.	.	97
6.00 - 6.99	.	.	.	6	13	10	4	1	.	.	34
7.00 - 7.99	.	.	.	.	6	6	1	1	.	.	14
8.00 - 8.99	.	.	.	.	.	8	1	1	.	.	10
9.00 - GREATER	.	.	.	.	.	1	2	1	.	.	4
TOTAL	429	1599	4479	5300	3683	1468	350	104	56	2	17470

STATION: 101 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	848	1794	3921	1803	322	58	6	10	11	2	8775
1.00 - 1.99	197	2067	2519	1930	818	231	38	25	8	4	7837
2.00 - 2.99	.	289	1024	616	477	195	61	10	8	.	2680
3.00 - 3.99	.	.	344	198	122	88	13	7	9	.	781
4.00 - 4.99	.	.	16	144	49	42	11	2	3	.	267
5.00 - 5.99	.	.	.	42	24	15	3	.	.	.	84
6.00 - 6.99	.	.	.	1	21	14	1	.	.	.	37
7.00 - 7.99	.	.	.	.	7	5	4	.	.	.	16
8.00 - 8.99	.	.	.	.	.	7	3	.	.	.	10
9.00 - GREATER	.	.	.	.	.	2	2	2	.	.	6
TOTAL	1045	4150	7824	4734	1840	657	145	56	39	6	20496

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.50 W, DEPTH: 27 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 101 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	978	403	.	.	.	.	.	.	.	.	1381
1.00 - 1.99	224	1751	135	.	.	.	.	.	.	.	2110
2.00 - 2.99	.	204	541	3	.	.	.	.	.	.	748
3.00 - 3.99	.	.	171	.	.	.	.	.	.	.	171
4.00 - 4.99	.	.	12	13	.	.	.	.	.	.	25
5.00 - 5.99	.	.	.	5	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1202	2358	859	21	0	0	0	0	0	0	4440

STATION: 101 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1032	5	.	.	.	.	.	.	.	.	1037
1.00 - 1.99	345	126	.	.	.	.	.	.	.	.	471
2.00 - 2.99	.	24	2	2	.	.	.	.	.	.	28
3.00 - 3.99	.	1	.	.	.	.	.	.	.	.	1
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1377	156	3	2	0	0	0	0	0	0	1538

STATION: 101 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1150	.	.	.	.	.	.	.	.	.	1150
1.00 - 1.99	1192	901	1	.	.	.	.	.	.	.	2094
2.00 - 2.99	.	524	1	.	.	.	.	.	.	.	525
3.00 - 3.99	.	82	13	.	.	.	.	.	.	.	95
4.00 - 4.99	.	.	6	.	.	.	.	.	.	.	6
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2342	1507	21	0	0	0	0	0	0	0	3870

STATION: 101 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5957	3064	6218	4254	1724	529	138	42	48	4	21978
1.00 - 1.99	3115	6687	4363	3913	2291	813	141	72	15	4	21414
2.00 - 2.99	.	1681	2052	1215	1009	408	130	23	20	.	6538
3.00 - 3.99	.	119	742	378	281	188	40	12	9	.	1769
4.00 - 4.99	.	.	60	270	120	89	19	5	3	.	566
5.00 - 5.99	.	.	.	92	53	45	6	.	.	.	196
6.00 - 6.99	.	.	.	7	37	24	5	1	.	.	74
7.00 - 7.99	.	.	.	.	15	11	5	1	.	.	32
8.00 - 8.99	.	.	.	.	.	15	4	1	.	.	20
9.00 - GREATER	.	.	.	.	.	3	7	3	.	.	13
TOTAL	9072	11551	13435	10129	5530	2125	495	160	95	8	52600

STATION: 101

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	118	86	127	201	305	338	458	535	361	195	86	84	2894
2.50 - 4.99	794	724	985	1279	1768	1815	2168	2229	1838	1308	975	796	16679
5.00 - 7.49	682	697	746	933	971	1028	1076	1024	978	1055	868	807	10865
7.50 - 9.99	1108	1089	1116	920	911	781	632	557	840	1174	1144	1188	11460
10.00 - 12.49	600	507	578	420	290	230	92	84	193	396	583	594	4567
12.50 - 14.99	632	552	489	374	178	115	30	29	95	241	435	577	3747
15.00 - 17.49	215	175	177	119	26	12	7	3	10	47	103	175	1069
17.50 - 19.99	178	140	148	59	15	1	1	2	3	36	78	139	800
20.00 - GREATER	137	102	98	15	.	.	.	1	2	12	48	104	519
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.50 W, DEPTH: 27 M

STATION: 101

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	663	739	709	514	444	359	315	392	484	481	508	545	6153
22.50 - 67.49 (45.0)	305	331	475	575	427	236	149	235	317	376	312	251	3989
67.50 - 112.49 (90.0)	231	193	257	373	297	171	104	166	228	197	227	250	2694
112.50 - 157.49 (135.0)	272	260	305	351	411	260	184	257	216	369	288	269	3442
157.50 - 202.49 (180.0)	408	321	527	630	824	656	721	744	583	635	537	417	7003
202.50 - 247.49 (225.0)	546	561	590	601	851	1184	1349	1196	1063	791	699	644	10075
247.50 - 292.49 (270.0)	890	554	610	548	600	819	900	752	703	871	794	890	8931
292.50 - 337.49 (315.0)	1149	1113	991	728	610	635	742	722	726	744	955	1198	10313
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 101

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.03	2.02	1.88	1.42	1.79	1.13	1.01	1.25	0.94	1.61	1.48	1.97	1.54
1977	1.77	1.74	1.83	1.62	1.06	1.38	1.09	0.96	1.13	1.56	1.85	2.29	1.52
1978	2.55	1.41	1.82	1.54	1.68	1.43	0.99	0.85	1.06	1.42	1.40	1.66	1.49
1979	2.32	2.07	2.39	1.72	1.49	1.09	1.10	1.03	1.39	1.31	1.41	1.91	1.60
1980	2.14	1.47	2.10	1.89	1.05	1.13	0.98	0.97	1.30	1.48	1.87	1.74	1.51
1981	1.47	2.96	1.44	2.00	1.59	1.08	0.95	0.75	1.28	1.06	1.26	1.35	1.42
1982	1.51	1.25	1.12	1.53	0.65	0.91	0.69	0.75	0.86	0.83	1.26	1.12	1.04
1983	1.37	1.36	1.44	1.37	1.50	0.89	0.95	0.73	0.96	1.16	1.75	1.77	1.27
1984	1.28	1.79	2.10	1.71	1.56	1.34	1.18	0.69	0.91	0.99	1.39	1.38	1.36
1985	1.39	1.72	1.51	1.18	1.18	1.21	0.97	0.72	0.84	1.00	1.35	1.28	1.19
1986	2.20	1.19	1.79	1.56	1.15	1.14	0.82	0.85	1.03	1.05	1.47	1.75	1.33
1987	1.60	1.46	1.41	1.84	0.86	0.78	0.57	0.68	0.88	1.11	1.15	1.03	1.11
1988	1.28	1.57	1.32	1.17	1.12	0.96	0.87	0.76	0.91	1.32	1.35	1.22	1.15
1989	1.34	1.28	1.28	1.16	1.31	0.71	0.74	0.98	1.51	1.06	1.68	1.17	1.18
1990	1.37	1.63	1.29	1.52	1.21	1.27	0.90	0.87	1.08	1.55	1.30	1.62	1.30
1991	1.28	1.26	1.58	1.10	0.89	0.76	0.72	1.06	1.23	1.48	1.22	1.26	1.15
1992	1.47	1.41	1.66	0.91	0.82	0.90	0.64	0.73	0.80	0.91	0.93	1.37	1.05
1993	1.48	1.57	1.64	1.75	1.11	0.91	0.75	0.72	1.23	1.31	1.50	1.64	1.30
MEAN	1.66	1.62	1.64	1.50	1.22	1.06	0.88	0.85	1.07	1.23	1.42	1.53	

STATION: 101

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	651217	611216	52 920	491016	501019	35 820	25 714	37 918	28 722	591115	301114	481015	651217
1977	751214	861315	601116	521016	37 8 8	34 818	491018	33 819	41 916	541117	561114	801416	861315
1978	1171717	981614	671215	551015	611118	451118	28 721	35 818	32 721	41 919	561118	521013	1171717
1979	871415	551011	721317	801517	41 918	36 819	31 816	26 623	47 918	45 920	511018	39 820	871415
1980	801318	421314	831416	531316	37 918	29 819	25 721	231817	34 818	711216	501016	45 911	831416
1981	44 732	1101617	451417	581118	29 815	36 819	29 818	23 718	271517	31 819	301113	391116	1101617
1982	45 921	42 919	33 817	48 919	17 619	27 816	20 620	20 621	291316	22 5 4	331017	26 721	48 919
1983	42 915	42 910	341214	371216	39 918	21 719	28 722	26 810	36 819	35 822	531014	471113	531014
1984	35 818	541013	821514	721316	38 918	361316	371018	15 619	25 720	321618	36 916	36 815	821514
1985	43 913	751315	581117	481018	39 823	371018	37 918	27 810	581117	29 814	421114	42 919	751315
1986	631415	27 6 2	581019	29 817	311413	40 919	24 720	27 720	40 821	30 721	45 913	561116	631415
1987	501013	43 7 3	861417	701517	191114	19 720	17 622	21 619	21 612	29 713	32 817	30 710	861417
1988	30 820	571114	361116	36 913	29 718	28 818	20 618	23 714	21 719	47 912	39 913	31 819	571114
1989	34 734	30 722	34 818	39 820	38 916	23 711	16 717	311216	412016	37 914	461117	31 814	461117
1990	32 819	33 819	37 821	33 810	41 917	36 918	22 622	291316	211314	38 822	37 814	521015	521015
1991	32 812	35 812	39 914	44 912	25 717	18 720	16 621	601116	411816	37 916	26 717	34 811	601116
1992	471017	32 820	42 914	20 618	17 521	24 813	20 618	23 617	28 718	22 722	31 719	451011	471017
1993	42 919	551114	571112	451117	261214	27 716	22 618	24 619	37 821	36 916	631217	47 919	631217
MAX	1171717	1101617	861417	801517	611118	451118	491018	601116	581117	711216	631217	801416	

MAX Hmo(m): 11.7 MAX Tp(sec): 17. MAX Dp(deg): 169. DATE(gmt): 78010915

MAX WIND SPEED(m/sec): 37. MAX WIND DIRECTION(deg): 115. DATE(gmt): 77011018

MEAN Hmo(m): 1.3 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.9

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N LONG: 69.00 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 102

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	124	114	180	209	214	294	364	619	414	271	174	177	3154
0.50 - 0.99	850	745	842	1079	1369	1617	2115	2231	1596	1181	979	864	15468
1.00 - 1.49	1048	1148	949	939	1415	1315	1424	1026	1135	1305	1099	1121	13924
1.50 - 1.99	809	784	906	806	723	613	369	360	658	864	793	802	8487
2.00 - 2.49	603	524	661	544	343	231	122	146	299	491	613	629	5206
2.50 - 2.99	399	288	364	323	192	136	39	46	116	186	344	408	2841
3.00 - 3.49	242	193	176	163	109	69	15	30	53	90	167	190	1497
3.50 - 3.99	118	72	128	89	47	31	7	2	28	34	61	127	744
4.00 - 4.49	98	58	94	66	28	10	5	1	13	18	37	79	507
4.50 - 4.99	60	38	63	44	14	4	1	1	6	5	29	35	300
5.00 - 5.49	32	34	31	22	3	.	2	.	1	8	18	19	170
5.50 - 5.99	16	16	20	10	3	.	1	.	1	1	2	6	76
6.00 - 6.49	23	17	23	12	4	.	.	.	.	3	3	3	88
6.50 - 6.99	12	14	10	7	.	.	.	2	.	4	1	1	51
7.00 - 7.49	13	4	5	2	.	.	.	.	.	3	.	2	29
7.50 - 7.99	3	6	4	4	.	.	.	.	.	.	.	.	17
8.00 - 8.49	7	1	4	1	.	.	.	.	.	.	.	1	14
8.50 - 8.99	2	6	4	.	.	.	.	.	.	.	.	.	12
9.00 - 9.49	1	1	.	.	.	.	.	.	.	.	.	.	2
9.50 - 9.99	.	3	.	.	.	.	.	.	.	.	.	.	3
10.00 - GREATER	4	6	.	.	.	.	.	.	.	.	.	.	10
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 102

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	121	99	116	141	120	101	140	302	212	191	141	178	1862
4.0 - 4.9	548	588	432	379	409	401	516	550	564	549	575	700	6211
5.0 - 5.9	795	751	574	488	424	540	615	611	407	709	724	740	7378
6.0 - 6.9	511	408	405	345	449	618	759	724	500	519	503	541	6282
7.0 - 7.9	373	327	347	473	791	859	938	967	641	523	391	386	7016
8.0 - 8.9	309	297	442	556	863	829	795	626	554	545	503	371	6690
9.0 - 9.9	390	362	511	584	714	559	421	261	433	558	482	367	5642
10.0 - 10.9	345	325	455	493	331	268	172	133	244	407	418	374	3965
11.0 - 11.9	347	336	389	416	201	85	75	92	168	198	308	233	2848
12.0 - 12.9	316	250	384	256	95	40	25	66	151	137	134	263	2117
13.0 - 13.9	226	162	198	129	38	16	3	44	138	54	67	222	1297
14.0 - 14.9	109	84	105	35	20	4	5	21	104	30	24	67	608
15.0 - 15.9	38	48	45	12	7	.	.	15	67	21	14	17	284
16.0 - 16.9	14	15	26	10	2	.	.	21	55	12	2	2	159
17.0 - 17.9	20	8	3	.	.	.	.	13	36	10	8	2	100
18.0 - 18.9	2	12	4	3	.	.	.	5	15	1	4	1	47
19.0 - 19.9	.	.	2	.	.	.	.	5	10	.	12	.	29
20.0 - LONGER	.	.	26	.	.	.	.	8	21	.	10	.	65
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 102

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	102	146	120	77	42	34	35	48	69	99	75	120	967
11.25 - 33.74 (22.5)	26	56	56	34	34	20	7	20	23	45	44	40	405
33.75 - 56.24 (45.0)	23	40	40	38	27	13	3	15	12	49	29	30	319
56.25 - 78.74 (67.5)	67	60	124	99	120	46	5	29	43	97	87	66	843
78.75 - 101.24 (90.0)	106	110	134	121	69	53	8	51	67	59	79	134	991
101.25 - 123.74 (112.5)	292	228	266	439	368	274	115	210	279	446	311	244	3472
123.75 - 146.24 (135.0)	739	734	920	922	985	489	432	767	937	945	874	775	9519
146.25 - 168.74 (157.5)	687	532	677	846	837	736	711	750	848	701	462	529	8316
168.75 - 191.24 (180.0)	668	655	935	814	1054	1412	1776	1316	918	581	726	653	11508
191.25 - 213.74 (202.5)	243	257	294	229	316	432	450	408	298	311	326	292	3856
213.75 - 236.24 (225.0)	191	202	161	150	167	324	368	306	306	273	249	224	2921
236.25 - 258.74 (247.5)	136	93	80	69	81	130	161	160	138	149	116	170	1483
258.75 - 281.24 (270.0)	318	135	151	109	106	158	135	108	91	274	249	299	2133
281.25 - 303.74 (292.5)	316	177	174	134	93	87	117	115	122	189	234	298	2056
303.75 - 326.24 (315.0)	342	313	217	149	93	66	82	87	97	127	277	379	2229
326.25 - 348.74 (337.5)	208	334	115	90	72	46	59	74	72	119	182	211	1582
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.00 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 102 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	754										754
1.00 - 1.99	580	334									914
2.00 - 2.99		232									232
3.00 - 3.99		17	3								20
4.00 - 4.99											0
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1334	583	3	0	0	0	0	0	0	0	1920

STATION: 102 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	232	57	15								304
1.00 - 1.99	118	261	37	2							418
2.00 - 2.99		29	80								109
3.00 - 3.99		1	10								11
4.00 - 4.99			1								1
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	350	348	143	2	0	0	0	0	0	0	843

STATION: 102 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	281	107	6								394
1.00 - 1.99	58	533	147	22							760
2.00 - 2.99		137	352	18	3						510
3.00 - 3.99			122	57							179
4.00 - 4.99			14	69	1						84
5.00 - 5.99			1	22							23
6.00 - 6.99				8	6						14
7.00 - 7.99					7						7
8.00 - 8.99					4						4
9.00 - GREATER											0
TOTAL	339	777	642	196	21	0	0	0	0	0	1975

STATION: 102 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	302	568	2123	2142	1141	384	119	30	36	1	6846
1.00 - 1.99	78	701	1764	2080	1456	573	86	52	11		6801
2.00 - 2.99		127	440	715	582	219	86	13	16		2198
3.00 - 3.99			162	195	189	124	23	11	2		706
4.00 - 4.99			36	90	107	71	9	2			315
5.00 - 5.99				46	26	31	5	3			111
6.00 - 6.99				12	17	23	1	1			54
7.00 - 7.99				1	11	7	2				21
8.00 - 8.99					3	6	1	1			11
9.00 - GREATER						1	2	1			4
TOTAL	380	1396	4525	5281	3532	1439	334	114	65	1	17067

STATION: 102 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	660	1533	3230	1158	170	37	6	1	2	1	6798
1.00 - 1.99	153	1802	2293	1673	522	99	33	14	5	4	6598
2.00 - 2.99		223	994	653	450	156	32	7	3	1	2519
3.00 - 3.99		1	240	291	154	68	10	8	10		782
4.00 - 4.99			21	136	65	51	7	1	2		283
5.00 - 5.99				57	17	17	5				96
6.00 - 6.99				14	27	18	5				64
7.00 - 7.99					7	6	5				18
8.00 - 8.99						11					11
9.00 - GREATER						3	6	2			11
TOTAL	813	3559	6778	3982	1412	466	109	33	22	6	17180

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.00 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 102 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	964	450									1414
1.00 - 1.99	136	2223	226								2585
2.00 - 2.99		277	933	1							1211
3.00 - 3.99			279	44							323
4.00 - 4.99			19	78							97
5.00 - 5.99				16							16
6.00 - 6.99				7							7
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1100	2950	1457	146	0	0	0	0	0	0	5653

STATION: 102 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1028	9									1037
1.00 - 1.99	390	1620	3								2013
2.00 - 2.99		625	27								652
3.00 - 3.99		29	69								98
4.00 - 4.99			22								22
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	1418	2283	121	0	0	0	0	0	0	0	3822

STATION: 102 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1071	4									1075
1.00 - 1.99	1268	1053	1								2322
2.00 - 2.99		614	2								616
3.00 - 3.99		93	29								122
4.00 - 4.99			5								5
5.00 - 5.99											0
6.00 - 6.99											0
7.00 - 7.99											0
8.00 - 8.99											0
9.00 - GREATER											0
TOTAL	2339	1764	37	0	0	0	0	0	0	0	4140

STATION: 102 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5292	2728	5374	3300	1311	421	125	31	38	2	18622
1.00 - 1.99	2781	8527	4471	3777	1978	672	119	66	16	4	22411
2.00 - 2.99		2264	2828	1387	1035	375	118	20	19	1	8047
3.00 - 3.99		141	914	587	343	192	33	19	12		2241
4.00 - 4.99			118	373	173	122	16	3	2		807
5.00 - 5.99			1	141	43	48	10	3			246
6.00 - 6.99				41	50	41	6	1			139
7.00 - 7.99				1	25	13	7				46
8.00 - 8.99					7	17	1	1			26
9.00 - GREATER						4	8	3			15
TOTAL	8073	13660	13706	9607	4965	1905	443	147	87	7	52600

STATION: 102

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	88	64	97	157	263	298	393	468	310	148	66	67	2419
2.50 - 4.99	756	707	931	1266	1774	1816	2186	2247	1828	1297	942	770	16520
5.00 - 7.49	697	674	767	912	961	1024	1090	1021	999	1061	863	768	10837
7.50 - 9.99	1079	1106	1147	960	943	817	658	596	849	1195	1133	1197	11680
10.00 - 12.49	636	533	545	452	296	236	100	98	218	416	613	627	4770
12.50 - 14.99	661	585	553	361	176	117	28	28	100	248	463	592	3912
15.00 - 17.49	226	149	166	138	37	11	7	2	13	50	109	191	1099
17.50 - 19.99	176	154	155	60	13	1	2	3	1	37	81	152	835
20.00 - GREATER	145	100	103	14	1			1	2	12	50	100	528
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 43.75 N, LONG: 69.00 W, DEPTH: 37 M

STATION: 102

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	639	716	702	511	409	343	285	383	470	479	492	538	5967
22.50 - 67.49 (45.0)	316	345	474	561	461	244	146	239	325	381	331	264	4087
67.50 - 112.49 (90.0)	244	202	261	383	299	175	109	164	236	208	222	255	2758
112.50 - 157.49 (135.0)	279	259	304	359	424	274	191	273	217	367	282	261	3490
157.50 - 202.49 (180.0)	388	319	511	620	786	653	715	714	570	622	530	424	6852
202.50 - 247.49 (225.0)	527	553	592	611	872	1201	1389	1241	1061	788	683	604	10122
247.50 - 292.49 (270.0)	898	547	608	563	619	837	947	752	720	869	802	892	9054
292.50 - 337.49 (315.0)	1173	1131	1012	712	594	593	682	698	721	750	978	1226	10270
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 102

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.15	2.23	2.10	1.51	1.98	1.30	1.14	1.31	1.04	1.79	1.73	2.08	1.70
1977	1.98	1.85	2.02	1.73	1.23	1.52	1.23	1.04	1.21	1.71	1.95	2.44	1.66
1978	2.79	1.48	1.99	1.61	1.75	1.53	1.07	0.91	1.13	1.55	1.53	1.76	1.59
1979	2.50	2.13	2.54	1.79	1.57	1.23	1.20	1.11	1.50	1.45	1.59	2.11	1.72
1980	2.45	1.61	2.27	2.00	1.12	1.25	1.09	1.10	1.42	1.63	2.04	1.89	1.66
1981	1.68	3.20	1.63	2.25	1.75	1.19	1.04	0.81	1.40	1.22	1.49	1.56	1.59
1982	1.80	1.47	1.27	1.72	0.73	1.03	0.80	0.84	0.93	0.97	1.46	1.29	1.19
1983	1.55	1.52	1.61	1.50	1.62	0.97	1.04	0.81	1.05	1.30	1.94	2.00	1.41
1984	1.43	1.94	2.37	1.90	1.71	1.45	1.32	0.75	0.97	1.11	1.49	1.56	1.50
1985	1.57	1.84	1.65	1.27	1.32	1.42	1.08	0.77	0.92	1.11	1.51	1.44	1.32
1986	2.44	1.29	1.91	1.75	1.30	1.31	0.91	0.94	1.12	1.20	1.60	1.97	1.48
1987	1.77	1.54	1.56	1.97	0.95	0.88	0.62	0.74	1.00	1.23	1.29	1.17	1.22
1988	1.46	1.75	1.44	1.37	1.23	1.05	0.94	0.82	1.00	1.48	1.52	1.39	1.28
1989	1.50	1.45	1.41	1.26	1.40	0.79	0.80	1.04	1.57	1.20	1.84	1.33	1.30
1990	1.57	1.79	1.44	1.66	1.32	1.38	0.98	0.91	1.13	1.65	1.48	1.80	1.42
1991	1.43	1.43	1.71	1.18	0.96	0.83	0.80	1.14	1.30	1.61	1.39	1.42	1.27
1992	1.67	1.55	1.84	0.98	0.89	0.98	0.70	0.81	0.87	1.01	1.00	1.55	1.15
1993	1.65	1.72	1.78	1.90	1.23	1.00	0.82	0.78	1.33	1.45	1.63	1.82	1.42
MEAN	1.85	1.77	1.81	1.63	1.34	1.17	0.97	0.92	1.16	1.37	1.58	1.70	

STATION: 102

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	681217	721316	641020	521014	601022	38 921	25 723	361018	30 722	631114	36 914	511015	721316
1977	811213	881414	671114	531016	39 910	44 910	551019	31 719	42 916	571016	531013	821315	881414
1978	1201717	1071614	711214	591116	631118	471118	30 821	34 819	33 822	41 920	611118	551013	1201717
1979	871212	561012	711316	801417	431018	35 820	31 816	29 722	451018	521020	541018	46 921	871212
1980	831318	5310 9	831416	541216	36 819	31 722	26 723	331817	33 818	731115	531015	501013	831416
1981	46 921	1141617	481417	661119	371214	41 919	33 818	23 718	311515	33 920	391112	421317	1141617
1982	49 924	44 922	38 824	491020	19 618	30 813	20 621	19 622	301315	291011	351017	31 821	491020
1983	461014	47 9 9	371214	401216	40 919	24 719	32 822	27 810	36 820	38 921	571013	521112	571013
1984	36 819	581013	861210	771315	43 919	401315	401019	16 619	25 721	361418	37 815	41 921	861210
1985	46 912	821315	621016	491118	46 922	401018	39 919	28 810	581017	31 813	461113	47 920	821315
1986	711415	33 8 9	641119	351313	391412	46 921	26 821	31 819	49 921	33 821	47 913	6310 8	711415
1987	571012	491114	891417	771517	24 626	23 721	18 721	22 719	24 722	30 713	36 818	32 810	891417
1988	31 722	621113	411116	41 912	28 719	28 718	20 619	22 713	25 720	50 911	45 912	33 820	621113
1989	37 919	32 817	36 917	47 919	41 916	24 7 9	16 817	321215	41 819	37 913	491117	35 813	491117
1990	36 820	38 919	43 919	32 8 9	41 917	38 919	22 721	301315	211313	41 921	39 813	561014	561014
1991	34 8 9	36 811	40 912	45 911	28 716	20 721	17 622	671118	401716	39 815	32 725	37 912	671118
1992	521017	34 821	46 921	22 915	17 914	26 813	20 619	23 721	29 719	23 723	33 819	52 9 8	52 9 8
1993	541417	601012	601019	531117	291214	24 717	20 619	241318	41 921	40 920	661117	54 922	661117
MAX	1201717	1141617	891417	801417	631118	471118	551019	671118	581017	731115	661117	821315	

MAX Hmo(m): 12.0 MAX Tp(sec): 17. MAX Dp(deg): 169. DATE(gmt): 78010915

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 115. DATE(gmt): 77011018

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.00 N, LONG: 68.50 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 103

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	150	145	210	246	230	302	356	630	453	289	211	197	3419
0.50 - 0.99	956	835	899	1148	1467	1752	2169	2287	1659	1390	1079	1012	16653
1.00 - 1.49	1117	1120	1018	937	1371	1229	1366	967	1127	1276	1153	1177	13858
1.50 - 1.99	815	796	883	784	702	568	354	371	616	764	800	749	8202
2.00 - 2.49	576	483	616	499	304	220	134	130	257	434	509	555	4717
2.50 - 2.99	308	275	305	301	177	125	47	57	110	167	285	354	2511
3.00 - 3.49	182	145	183	160	110	67	20	17	51	81	126	171	1313
3.50 - 3.99	114	88	124	91	48	36	7	2	30	22	70	127	759
4.00 - 4.49	74	44	77	51	33	16	6	.	7	17	37	65	427
4.50 - 4.99	60	48	52	42	14	5	2	1	7	4	28	25	288
5.00 - 5.49	28	25	30	23	1	.	.	1	3	5	14	17	147
5.50 - 5.99	21	14	13	14	4	.	3	.	.	5	5	7	86
6.00 - 6.49	15	13	22	8	3	.	.	1	.	3	3	4	72
6.50 - 6.99	22	12	18	8	.	.	.	.	.	2	.	2	64
7.00 - 7.49	7	3	8	4	.	.	.	.	.	5	.	.	27
7.50 - 7.99	8	6	2	2	.	.	.	.	.	.	.	2	20
8.00 - 8.49	6	7	3	2	.	.	.	.	.	.	.	.	18
8.50 - 8.99	.	4	1	.	.	.	.	.	.	.	.	.	5
9.00 - 9.49	1	1	.	.	.	.	.	.	.	.	.	.	2
9.50 - 9.99	1	3	.	.	.	.	.	.	.	.	.	.	4
10.00 - GREATER	3	5	.	.	.	.	.	.	.	.	.	.	8
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 103

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	171	167	188	209	159	156	189	323	291	274	231	268	2626
4.0 - 4.9	562	555	421	362	369	318	380	471	508	535	573	663	5717
5.0 - 5.9	623	679	528	421	379	432	517	544	340	518	609	545	6135
6.0 - 6.9	393	356	364	346	440	587	819	796	531	516	432	457	6037
7.0 - 7.9	325	295	300	463	790	896	980	1017	646	515	330	360	6917
8.0 - 8.9	361	331	429	578	888	870	855	623	587	615	545	466	7148
9.0 - 9.9	467	412	559	613	770	628	432	294	419	616	572	442	6224
10.0 - 10.9	460	362	474	517	347	281	174	113	245	427	483	410	4293
11.0 - 11.9	369	347	454	372	171	87	80	94	158	196	296	288	2912
12.0 - 12.9	330	260	363	267	83	44	30	64	155	114	124	249	2083
13.0 - 13.9	222	152	181	110	39	17	3	40	135	55	67	216	1237
14.0 - 14.9	111	78	104	34	17	4	5	20	100	31	19	74	597
15.0 - 15.9	34	48	40	15	10	.	.	15	71	24	11	18	286
16.0 - 16.9	14	12	23	8	2	.	.	23	50	16	2	3	153
17.0 - 17.9	18	6	3	2	.	.	.	9	38	10	7	3	96
18.0 - 18.9	4	12	5	2	.	.	.	6	15	2	4	2	52
19.0 - 19.9	.	.	3	1	.	.	.	3	13	.	5	.	25
20.0 - LONGER	.	.	25	.	.	.	.	9	18	.	10	.	62
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 103

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	137	183	155	88	48	30	36	59	71	120	107	172	1206
11.25 - 33.74 (22.5)	25	59	66	50	45	26	11	16	23	51	52	47	471
33.75 - 56.24 (45.0)	25	49	54	63	40	28	2	13	12	69	48	36	439
56.25 - 78.74 (67.5)	67	47	101	73	80	36	8	27	47	79	80	58	703
78.75 - 101.24 (90.0)	100	93	92	117	79	47	6	46	61	50	54	130	875
101.25 - 123.74 (112.5)	193	169	195	295	267	200	60	135	150	275	221	148	2308
123.75 - 146.24 (135.0)	742	684	919	937	946	479	386	716	964	1028	885	804	9490
146.25 - 168.74 (157.5)	811	662	743	941	944	775	756	744	859	828	566	644	9273
168.75 - 191.24 (180.0)	906	786	1095	924	1186	1608	1934	1486	1080	757	874	827	13463
191.25 - 213.74 (202.5)	339	277	322	244	350	545	592	553	355	379	427	391	4774
213.75 - 236.24 (225.0)	178	164	141	123	142	248	315	260	278	223	195	218	2485
236.25 - 258.74 (247.5)	59	39	47	44	47	75	75	103	78	94	68	63	792
258.75 - 281.24 (270.0)	75	47	30	48	42	54	52	41	43	95	80	76	683
281.25 - 303.74 (292.5)	195	119	112	98	66	50	99	95	102	148	164	193	1441
303.75 - 326.24 (315.0)	316	262	232	154	94	64	76	93	104	146	249	346	2136
326.25 - 348.74 (337.5)	296	432	160	121	88	55	56	77	93	122	250	311	2061
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.00 N, LONG: 68.50 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 103 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	881	.	.	.	.	.	.	.	.	.	881
1.00 - 1.99	709	480	.	.	.	.	.	.	.	.	1189
2.00 - 2.99	.	351	1	.	.	.	.	.	.	.	352
3.00 - 3.99	.	39	4	.	.	.	.	.	.	.	43
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1590	870	7	0	0	0	0	0	0	0	2467

STATION: 103 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	245	38	7	.	.	.	.	.	.	.	290
1.00 - 1.99	111	358	1	.	.	.	.	.	.	.	470
2.00 - 2.99	.	115	27	.	.	.	.	.	.	.	142
3.00 - 3.99	.	11	13	.	.	.	.	.	.	.	24
4.00 - 4.99	.	.	3	.	.	.	.	.	.	.	3
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	356	522	51	0	0	0	0	0	0	0	929

STATION: 103 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	264	87	2	.	.	.	.	.	.	.	353
1.00 - 1.99	69	541	74	4	.	.	.	.	.	.	688
2.00 - 2.99	.	157	208	10	.	.	.	.	.	.	375
3.00 - 3.99	.	.	138	8	.	.	.	.	.	.	146
4.00 - 4.99	.	.	36	48	.	.	.	.	.	.	84
5.00 - 5.99	.	.	.	19	.	.	.	.	.	.	19
6.00 - 6.99	.	.	.	9	1	.	.	.	.	.	10
7.00 - 7.99	.	.	.	1	1	.	.	.	.	.	2
8.00 - 8.99	.	.	.	.	2	.	.	.	.	.	2
9.00 - GREATER	.	.	.	.	1	.	.	.	.	.	1
TOTAL	333	785	458	99	5	0	0	0	0	0	1680

STATION: 103 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	319	515	1978	2272	1169	399	120	38	41	2	6853
1.00 - 1.99	72	676	1560	1991	1289	563	104	59	12	.	6326
2.00 - 2.99	.	144	451	652	469	182	87	19	9	.	2013
3.00 - 3.99	.	.	172	182	176	122	18	12	11	.	693
4.00 - 4.99	.	.	29	86	83	51	8	1	.	.	258
5.00 - 5.99	.	.	.	51	23	25	5	2	.	.	106
6.00 - 6.99	.	.	.	12	24	26	3	1	.	.	66
7.00 - 7.99	.	.	.	1	11	7	2	.	.	.	21
8.00 - 8.99	.	.	.	.	3	6	.	2	.	.	11
9.00 - GREATER	.	.	.	.	.	.	1	1	.	.	2
TOTAL	391	1335	4190	5247	3247	1381	348	135	73	2	16349

STATION: 103 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	734	1900	3776	1445	252	32	3	.	.	2	8144
1.00 - 1.99	181	2063	2955	2152	696	130	24	3	2	4	8210
2.00 - 2.99	.	280	1082	853	511	152	27	5	4	.	2914
3.00 - 3.99	.	.	301	323	157	69	8	3	.	.	861
4.00 - 4.99	.	.	32	203	55	32	7	.	.	.	329
5.00 - 5.99	.	.	.	61	24	10	6	.	.	.	101
6.00 - 6.99	.	.	.	11	35	11	3	.	.	.	60
7.00 - 7.99	.	.	.	.	9	9	5	.	.	.	23
8.00 - 8.99	.	.	.	.	3	4	3	.	.	.	10
9.00 - GREATER	.	.	.	.	.	4	5	2	.	.	11
TOTAL	915	4243	8146	5048	1742	453	91	13	6	6	20663

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.00 N, LONG: 68.50 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 103 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	913	553	45	.	.	.	.	.	.	.	1511
1.00 - 1.99	251	1730	367	30	.	.	.	.	.	.	2378
2.00 - 2.99	.	213	588	8	.	.	.	.	.	.	809
3.00 - 3.99	.	1	141	53	.	.	.	.	.	.	195
4.00 - 4.99	.	.	11	23	.	.	.	.	.	.	34
5.00 - 5.99	.	.	.	7	.	.	.	.	.	.	7
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	1	.	.	.	.	.	1
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1164	2497	1152	121	1	0	0	0	0	0	4935

STATION: 103 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	983	3	.	.	.	.	.	.	.	.	986
1.00 - 1.99	269	128	5	.	.	.	.	.	.	.	402
2.00 - 2.99	.	27	23	.	.	.	.	.	.	.	50
3.00 - 3.99	.	1	.	2	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1252	159	28	2	0	0	0	0	0	0	1441

STATION: 103 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1053	1	.	.	.	.	.	.	.	.	1054
1.00 - 1.99	1289	1106	2	.	.	.	.	.	.	.	2397
2.00 - 2.99	.	571	2	.	.	.	.	.	.	.	573
3.00 - 3.99	.	83	24	.	.	.	.	.	.	.	107
4.00 - 4.99	.	.	5	.	.	.	.	.	.	.	5
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2342	1761	33	0	0	0	0	0	0	0	4136

STATION: 103 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5392	3097	5808	3717	1421	431	123	38	41	4	20072
1.00 - 1.99	2951	7082	4964	4177	1985	693	128	62	14	4	22060
2.00 - 2.99	.	1858	2382	1523	980	334	114	24	13	.	7228
3.00 - 3.99	.	135	793	568	333	191	26	15	11	.	2072
4.00 - 4.99	.	.	118	360	138	83	15	1	.	.	715
5.00 - 5.99	.	.	.	138	47	35	11	2	.	.	233
6.00 - 6.99	.	.	.	32	60	37	6	1	.	.	136
7.00 - 7.99	.	.	.	2	22	16	7	.	.	.	47
8.00 - 8.99	.	.	.	.	8	10	3	2	.	.	23
9.00 - GREATER	.	.	.	.	1	4	6	3	.	.	14
TOTAL	8343	12172	14065	10517	4995	1834	439	148	79	8	52600

STATION: 103

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	78	63	76	140	245	277	369	450	295	125	77	60	2255
2.50 - 4.99	750	688	930	1251	1718	1792	2130	2191	1759	1284	903	733	16129
5.00 - 7.49	680	674	758	904	980	1037	1105	1032	1019	1051	824	761	10825
7.50 - 9.99	1052	1092	1135	982	972	821	704	651	861	1183	1155	1190	11798
10.00 - 12.49	642	559	536	446	309	234	112	106	253	450	598	636	4881
12.50 - 14.99	684	570	578	357	182	141	35	29	113	262	507	603	4061
15.00 - 17.49	231	169	173	154	40	16	7	3	16	61	107	219	1196
17.50 - 19.99	201	150	178	68	17	2	2	.	4	36	94	149	901
20.00 - GREATER	146	107	100	18	1	.	.	2	.	12	55	113	554
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.00 N, LONG: 68.50 W, DEPTH: 37 M

STATION: 103

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	646	714	687	512	383	316	258	340	464	483	497	541	5841
22.50 - 67.49 (45.0)	305	337	484	570	460	241	139	232	301	369	320	280	4038
67.50 - 112.49 (90.0)	252	221	267	394	325	196	121	170	244	213	231	237	2871
112.50 - 157.49 (135.0)	272	251	291	383	422	274	167	264	212	381	265	268	3450
157.50 - 202.49 (180.0)	389	304	498	583	744	633	734	700	541	609	531	424	6690
202.50 - 247.49 (225.0)	534	564	618	620	929	1227	1391	1270	1104	798	694	601	10350
247.50 - 292.49 (270.0)	864	531	622	559	619	840	981	780	726	873	794	876	9065
292.50 - 337.49 (315.0)	1202	1150	997	699	582	593	673	708	728	738	988	1237	10295
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 103

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.07	2.06	2.01	1.42	1.93	1.26	1.12	1.23	1.00	1.63	1.52	2.05	1.61
1977	1.83	1.75	1.88	1.66	1.11	1.51	1.21	1.02	1.18	1.60	1.84	2.32	1.57
1978	2.62	1.42	1.91	1.56	1.68	1.53	1.05	0.90	1.10	1.48	1.44	1.66	1.53
1979	2.40	2.07	2.49	1.74	1.56	1.17	1.19	1.07	1.46	1.39	1.48	1.99	1.66
1980	2.29	1.52	2.11	1.91	1.11	1.24	1.10	1.03	1.33	1.55	1.99	1.80	1.58
1981	1.56	3.07	1.52	2.17	1.69	1.16	1.04	0.81	1.32	1.11	1.39	1.46	1.51
1982	1.59	1.34	1.20	1.62	0.72	1.00	0.81	0.87	0.92	0.92	1.36	1.24	1.13
1983	1.48	1.50	1.56	1.49	1.64	0.96	1.06	0.82	1.02	1.22	1.89	1.83	1.37
1984	1.37	1.93	2.26	1.92	1.72	1.45	1.33	0.75	0.99	1.05	1.41	1.44	1.47
1985	1.46	1.78	1.62	1.24	1.31	1.37	1.11	0.76	0.85	1.09	1.44	1.37	1.28
1986	2.36	1.29	1.89	1.71	1.26	1.25	0.92	0.91	1.09	1.15	1.57	1.82	1.44
1987	1.74	1.55	1.50	1.91	0.93	0.87	0.63	0.74	0.97	1.18	1.24	1.14	1.20
1988	1.37	1.69	1.45	1.36	1.21	1.06	0.96	0.83	0.98	1.43	1.49	1.34	1.26
1989	1.48	1.42	1.38	1.26	1.38	0.76	0.81	1.04	1.52	1.15	1.76	1.26	1.27
1990	1.53	1.74	1.43	1.62	1.31	1.40	0.97	0.86	1.08	1.59	1.39	1.72	1.39
1991	1.37	1.36	1.69	1.14	0.95	0.81	0.78	1.12	1.30	1.57	1.36	1.34	1.23
1992	1.56	1.49	1.75	0.94	0.86	0.95	0.69	0.78	0.82	0.96	0.95	1.44	1.10
1993	1.57	1.64	1.70	1.85	1.20	0.96	0.79	0.77	1.30	1.39	1.56	1.77	1.37
MEAN	1.76	1.70	1.74	1.58	1.31	1.15	0.98	0.91	1.12	1.30	1.50	1.61	

STATION: 103

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	671217	791316	681119	541014	621119	391020	26 820	31 917	29 721	641114	33 629	511014	791316
1977	821313	891314	691114	551017	37 8 8	43 912	591118	29 719	40 916	561016	461113	781315	891314
1978	1181616	1041614	711113	591116	621118	481118	32 821	36 818	34 820	42 920	611117	541013	1181616
1979	791416	51 910	761119	761417	461018	37 920	29 815	26 721	47 919	571119	531017	45 919	791416
1980	831318	521011	721417	531116	36 919	31 918	27 722	291817	34 917	741216	571015	511012	831318
1981	46 732	1121517	491417	711219	351114	42 920	34 818	24 718	251515	32 821	351113	411116	1121517
1982	481120	41 920	40 918	481019	19 618	30 816	21 721	22 916	291315	29 912	381018	34 821	481019
1983	48 9 9	49 910	351214	401216	411018	26 719	35 920	29 812	37 819	37 822	591114	571112	591114
1984	39 917	581013	811414	811315	451019	411315	421018	17 619	28 819	321417	40 918	451019	811315
1985	47 912	821315	641116	491018	471019	411018	401018	28 7 9	541017	33 814	461113	47 916	821315
1986	781415	34 6 2	681119	32 913	371413	47 920	31 821	34 819	511019	33 821	47 911	611113	781415
1987	621012	45 8 4	871417	831517	19 721	26 819	18 721	24 719	25 623	31 713	40 917	37 811	871417
1988	30 821	631113	431116	45 912	27 718	30 818	22 619	22 714	28 720	51 912	481013	33 819	631113
1989	41 919	34 817	40 917	531017	46 916	27 710	18 817	311215	41 819	36 914	491017	37 814	531017
1990	38 820	39 919	441019	33 811	41 917	38 919	22 719	291316	23 613	43 916	38 813	561114	561114
1991	36 8 9	351217	39 810	43 912	28 716	22 721	18 621	641117	381716	38 815	30 722	39 918	641117
1992	531016	34 820	511114	19 914	17 620	25 914	18 718	22 622	29 719	23 723	32 818	47 910	531016
1993	521417	551013	631019	571116	281314	23 623	19 816	24 720	43 920	38 821	641116	561021	641116
MAX	1181616	1121517	871417	831517	621118	481118	591118	641117	541017	741216	641116	781315	

MAX Hmo(m): 11.8 MAX Tp(sec): 16. MAX Dp(deg): 162. DATE(gmt): 78010915

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 115. DATE(gmt): 77011018

MEAN Hmo(m): 1.4 MEAN Tp(sec): 8.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 68.00 W, DEPTH: 37 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 104

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	170	166	244	267	254	299	321	644	488	295	237	216	3601
0.50 - 0.99	967	887	906	1191	1502	1731	2130	2227	1676	1471	1090	1043	16821
1.00 - 1.49	1139	1100	1056	982	1383	1248	1392	1011	1135	1295	1166	1164	14071
1.50 - 1.99	808	776	867	746	652	555	380	359	561	695	804	758	7961
2.00 - 2.49	582	500	579	487	296	230	146	146	241	395	473	560	4635
2.50 - 2.99	275	237	299	274	173	117	46	63	112	169	272	321	2358
3.00 - 3.49	182	156	182	160	98	65	26	9	65	77	130	189	1339
3.50 - 3.99	104	79	118	69	54	47	10	2	26	26	65	107	707
4.00 - 4.49	85	48	63	50	25	21	8	1	9	18	38	48	414
4.50 - 4.99	48	38	54	30	17	5	.	.	5	4	24	29	254
5.00 - 5.49	30	21	25	20	4	2	2	1	2	4	10	15	136
5.50 - 5.99	19	17	18	19	2	.	1	.	.	5	7	7	95
6.00 - 6.49	11	13	22	10	3	.	2	1	.	1	4	4	71
6.50 - 6.99	20	3	15	8	1	.	.	.	.	4	.	.	51
7.00 - 7.49	6	6	11	3	.	.	.	.	.	5	.	2	33
7.50 - 7.99	8	6	3	2	.	.	.	.	.	.	.	1	20
8.00 - 8.49	4	7	1	1	.	.	.	.	.	.	.	.	13
8.50 - 8.99	1	3	1	1	.	.	.	.	.	.	.	.	6
9.00 - 9.49	1	4	.	.	.	.	.	.	.	.	.	.	5
9.50 - 9.99	1	1	.	.	.	.	.	.	.	.	.	.	2
10.00 - GREATER	3	4	.	.	.	.	.	.	.	.	.	.	7
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 104

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	161	195	207	246	172	175	186	324	338	301	278	308	2891
4.0 - 4.9	640	587	525	430	429	363	413	484	553	643	664	700	6431
5.0 - 5.9	674	700	556	423	365	423	547	564	351	563	635	628	6429
6.0 - 6.9	376	356	336	311	449	572	767	838	527	435	384	430	5781
7.0 - 7.9	327	311	294	524	831	907	1019	978	676	535	369	374	7145
8.0 - 8.9	330	321	430	584	882	852	823	650	545	636	534	413	7000
9.0 - 9.9	455	412	554	558	712	605	435	287	396	570	526	438	5948
10.0 - 10.9	462	349	446	514	339	283	163	106	232	380	473	413	4160
11.0 - 11.9	356	322	450	340	145	84	72	68	137	170	258	271	2673
12.0 - 12.9	316	236	332	244	87	37	30	47	131	100	102	211	1873
13.0 - 13.9	199	133	150	90	30	16	4	37	131	58	49	191	1088
14.0 - 14.9	102	78	105	35	13	3	5	18	101	19	21	60	560
15.0 - 15.9	37	40	28	15	7	.	.	13	68	23	8	18	257
16.0 - 16.9	13	16	21	3	3	.	.	22	48	17	2	6	151
17.0 - 17.9	16	5	1	.	.	.	.	11	37	10	5	2	87
18.0 - 18.9	.	11	5	3	.	.	.	6	15	4	4	1	49
19.0 - 19.9	.	.	3	.	.	.	.	3	17	.	3	.	26
20.0 - LONGER	.	.	21	.	.	.	.	8	17	.	5	.	51
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 104

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	125	187	171	102	50	38	34	50	78	146	137	191	1309
11.25 - 33.74 (22.5)	38	72	91	89	72	42	11	17	25	80	82	64	683
33.75 - 56.24 (45.0)	48	48	59	53	46	20	4	14	16	74	47	44	473
56.25 - 78.74 (67.5)	38	25	66	57	48	26	3	18	28	33	49	53	444
78.75 - 101.24 (90.0)	101	103	122	137	80	63	7	35	79	67	67	112	973
101.25 - 123.74 (112.5)	118	86	110	144	149	82	14	43	66	80	105	97	1094
123.75 - 146.24 (135.0)	552	524	674	760	795	418	261	540	758	878	684	619	7463
146.25 - 168.74 (157.5)	952	819	890	1087	1046	809	751	748	962	947	687	730	10428
168.75 - 191.24 (180.0)	987	807	1158	1012	1287	1645	1975	1621	1101	860	950	899	14302
191.25 - 213.74 (202.5)	298	279	328	285	384	661	733	676	425	445	419	386	5319
213.75 - 236.24 (225.0)	153	143	129	110	168	214	303	271	295	203	197	178	2364
236.25 - 258.74 (247.5)	56	38	42	40	41	73	74	99	98	78	72	61	772
258.75 - 281.24 (270.0)	101	56	52	59	55	66	80	51	61	134	105	103	923
281.25 - 303.74 (292.5)	217	132	137	109	72	46	95	97	112	167	178	218	1580
303.75 - 326.24 (315.0)	358	301	253	157	81	71	66	102	124	164	278	358	2313
326.25 - 348.74 (337.5)	322	452	182	119	90	46	53	82	92	108	263	351	2160
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 68.00 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 104 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	981	.	.	.	.	.	.	.	.	.	981
1.00 - 1.99	722	568	.	.	.	.	.	.	.	.	1290
2.00 - 2.99	.	385	.	.	.	.	.	.	.	.	385
3.00 - 3.99	.	38	6	.	.	.	.	.	.	.	44
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1703	991	7	0	0	0	0	0	0	0	2701

STATION: 104 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	317	3	5	.	.	.	.	.	.	.	325
1.00 - 1.99	300	194	2	.	.	.	.	.	.	.	496
2.00 - 2.99	.	123	.	.	.	.	.	.	.	.	123
3.00 - 3.99	.	26	.	.	.	.	.	.	.	.	26
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	617	346	8	0	0	0	0	0	0	0	971

STATION: 104 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	304	62	2	.	.	.	.	.	.	.	368
1.00 - 1.99	84	449	166	.	.	.	.	.	.	.	699
2.00 - 2.99	.	114	205	12	.	.	.	.	.	.	331
3.00 - 3.99	.	2	152	8	.	.	.	.	.	.	162
4.00 - 4.99	.	.	50	23	.	.	.	.	.	.	73
5.00 - 5.99	.	.	.	25	.	.	.	.	.	.	25
6.00 - 6.99	.	.	.	8	.	.	.	.	.	.	8
7.00 - 7.99	.	.	.	4	1	.	.	.	.	.	5
8.00 - 8.99	.	.	.	.	2	.	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	388	627	575	80	3	0	0	0	0	0	1673

STATION: 104 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	339	417	1631	1935	987	397	114	46	38	.	5904
1.00 - 1.99	78	657	1142	1602	983	468	100	48	13	.	5091
2.00 - 2.99	.	144	409	505	357	131	70	18	6	.	1640
3.00 - 3.99	.	.	185	140	132	93	14	6	10	.	580
4.00 - 4.99	.	.	35	72	52	53	8	2	.	.	222
5.00 - 5.99	.	.	.	47	24	19	3	1	.	.	94
6.00 - 6.99	.	.	.	16	17	22	2	1	.	.	58
7.00 - 7.99	.	.	.	.	13	7	2	1	.	.	23
8.00 - 8.99	.	.	.	.	3	4	.	.	.	.	7
9.00 - GREATER	.	.	.	.	.	1	2	.	.	.	3
TOTAL	417	1218	3402	4317	2568	1195	315	123	67	0	13622

STATION: 104 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	800	2155	4135	1643	326	39	4	.	1	1	9104
1.00 - 1.99	189	2063	3388	2475	779	167	27	3	3	3	9097
2.00 - 2.99	.	321	1079	849	558	140	25	4	2	.	2978
3.00 - 3.99	.	1	339	335	176	55	14	4	.	.	924
4.00 - 4.99	.	.	28	226	49	20	7	.	.	.	330
5.00 - 5.99	.	.	.	63	34	6	5	.	.	.	108
6.00 - 6.99	.	.	.	10	38	8	.	.	.	.	56
7.00 - 7.99	.	.	.	.	14	7	4	.	.	.	25
8.00 - 8.99	.	.	.	.	1	7	2	.	.	.	10
9.00 - GREATER	.	.	.	.	.	4	5	2	.	.	11
TOTAL	989	4540	8969	5601	1975	453	93	13	6	4	22643

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 68.00 W, DEPTH: 37 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 104 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	958	452	88	.	.	.	.	.	.	.	1498
1.00 - 1.99	287	1638	287	13	.	.	.	.	.	.	2225
2.00 - 2.99	.	227	603	4	.	.	.	.	.	.	834
3.00 - 3.99	.	.	134	63	.	.	.	.	.	.	197
4.00 - 4.99	.	.	9	24	.	.	.	.	.	.	33
5.00 - 5.99	.	.	.	4	.	.	.	.	.	.	4
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1245	2317	1121	108	0	0	0	0	0	0	4791

STATION: 104 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1155	6	.	.	.	.	.	.	.	.	1161
1.00 - 1.99	436	163	3	.	.	.	.	.	.	.	602
2.00 - 2.99	.	28	25	.	.	.	.	.	.	.	53
3.00 - 3.99	.	.	1	2	.	.	.	.	.	.	3
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1591	197	29	2	0	0	0	0	0	0	1819

STATION: 104 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1081	.	.	.	.	.	.	.	.	.	1081
1.00 - 1.99	1291	1240	1	.	.	.	.	.	.	.	2532
2.00 - 2.99	.	647	2	.	.	.	.	.	.	.	649
3.00 - 3.99	.	87	23	.	.	.	.	.	.	.	110
4.00 - 4.99	.	.	8	.	.	.	.	.	.	.	8
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2372	1974	34	0	0	0	0	0	0	0	4380

STATION: 104 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5935	3095	5861	3578	1313	436	118	46	39	1	20422
1.00 - 1.99	3387	6972	4989	4090	1762	635	127	51	16	3	22032
2.00 - 2.99	.	1989	2323	1370	915	271	95	22	8	.	6993
3.00 - 3.99	.	154	840	548	308	148	28	10	10	.	2046
4.00 - 4.99	.	.	132	345	101	73	15	2	.	.	668
5.00 - 5.99	.	.	.	139	58	25	8	1	.	.	231
6.00 - 6.99	.	.	.	34	55	30	2	1	.	.	122
7.00 - 7.99	.	.	.	4	28	14	6	1	.	.	53
8.00 - 8.99	.	.	.	.	6	11	2	.	.	.	19
9.00 - GREATER	.	.	.	.	.	5	7	2	.	.	14
TOTAL	9322	12210	14145	10108	4546	1648	408	136	73	4	52600

STATION: 104

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	89	83	82	169	283	282	383	465	310	138	89	72	2445
2.50 - 4.99	738	657	912	1202	1657	1747	2004	2072	1648	1231	866	726	15460
5.00 - 7.49	643	691	742	893	962	1016	1135	1089	1027	1033	827	723	10781
7.50 - 9.99	1038	1054	1107	976	962	838	756	667	892	1186	1105	1149	11730
10.00 - 12.49	646	559	544	442	333	249	126	133	280	465	607	635	5019
12.50 - 14.99	696	561	598	374	196	166	50	33	139	301	538	639	4291
15.00 - 17.49	237	201	172	155	51	19	7	3	21	58	124	231	1279
17.50 - 19.99	226	149	196	87	15	3	3	1	3	38	100	168	989
20.00 - GREATER	151	117	111	22	5	.	.	1	.	14	64	121	606
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 68.00 W, DEPTH: 37 M

STATION: 104

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

WD(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	623	707	665	521	385	290	238	312	466	488	499	538	5732
22.50 - 67.49 (45.0)	301	328	494	576	455	245	135	215	288	365	316	304	4022
67.50 - 112.49 (90.0)	269	230	277	401	324	205	129	171	230	216	226	225	2903
112.50 - 157.49 (135.0)	274	249	278	374	421	273	167	267	209	379	263	273	3427
157.50 - 202.49 (180.0)	385	308	513	590	748	633	734	697	535	605	533	417	6698
202.50 - 247.49 (225.0)	531	561	620	620	931	1251	1424	1281	1131	814	690	589	10443
247.50 - 292.49 (270.0)	841	503	625	549	639	837	986	808	743	878	796	875	9080
292.50 - 337.49 (315.0)	1240	1186	992	689	561	586	651	713	718	719	997	1243	10295
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 104

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.02	2.02	2.00	1.36	1.93	1.31	1.15	1.20	1.00	1.56	1.48	2.05	1.59
1977	1.77	1.72	1.83	1.64	1.09	1.50	1.26	1.05	1.14	1.56	1.75	2.23	1.54
1978	2.48	1.34	1.88	1.50	1.62	1.55	1.06	0.92	1.08	1.43	1.39	1.63	1.49
1979	2.31	1.98	2.42	1.68	1.52	1.20	1.19	1.06	1.45	1.39	1.44	1.91	1.63
1980	2.20	1.44	2.03	1.81	1.10	1.28	1.12	0.98	1.32	1.53	1.97	1.77	1.55
1981	1.53	2.96	1.47	2.17	1.63	1.20	1.07	0.83	1.25	1.09	1.36	1.42	1.49
1982	1.54	1.29	1.22	1.60	0.70	0.95	0.84	0.93	0.92	0.90	1.35	1.23	1.12
1983	1.44	1.45	1.47	1.43	1.64	0.97	1.10	0.84	1.02	1.18	1.88	1.79	1.35
1984	1.32	1.91	2.18	1.87	1.73	1.45	1.37	0.76	1.03	1.02	1.40	1.40	1.45
1985	1.47	1.74	1.64	1.24	1.33	1.38	1.17	0.76	0.83	1.12	1.39	1.37	1.28
1986	2.37	1.27	1.89	1.61	1.23	1.25	0.95	0.92	1.06	1.14	1.55	1.76	1.42
1987	1.72	1.58	1.43	1.77	0.92	0.88	0.65	0.74	0.98	1.14	1.24	1.16	1.18
1988	1.38	1.67	1.46	1.35	1.17	1.11	0.99	0.86	1.00	1.43	1.55	1.37	1.28
1989	1.50	1.43	1.38	1.27	1.38	0.77	0.84	1.05	1.48	1.13	1.73	1.29	1.27
1990	1.57	1.75	1.48	1.59	1.28	1.41	0.98	0.82	1.03	1.56	1.41	1.71	1.38
1991	1.36	1.35	1.64	1.12	0.95	0.83	0.79	1.12	1.33	1.56	1.34	1.33	1.23
1992	1.54	1.46	1.71	0.92	0.81	0.93	0.71	0.79	0.82	0.94	0.92	1.37	1.08
1993	1.49	1.56	1.63	1.76	1.17	0.96	0.79	0.75	1.29	1.37	1.53	1.71	1.33
MEAN	1.72	1.66	1.71	1.54	1.29	1.16	1.00	0.91	1.11	1.28	1.48	1.58	

STATION: 104

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	661118	831316	701119	571014	621119	401019	27 721	29 822	28 721	701214	33 630	541015	831316
1977	861313	921414	741214	551017	39 821	40 8 9	631118	29 821	38 816	571016	48 911	771214	921414
1978	1171716	941614	731214	591015	651118	501018	34 821	34 818	35 821	43 919	611018	531012	1171716
1979	791315	45 8 9	841317	771416	491018	41 919	31 815	26 721	491018	611119	511020	45 920	841317
1980	831318	49 9 9	641118	521214	40 919	33 918	28 722	26 722	36 917	741219	581015	50 911	831318
1981	45 733	1081517	461317	691119	33 916	431019	35 818	25 818	261516	32 816	33 821	391116	1081517
1982	471119	39 919	431020	471019	20 718	27 6 4	24 721	26 817	261316	26 912	481117	38 821	481117
1983	46 911	46 911	331214	401015	421018	29 719	38 920	29 7 9	38 819	37 821	611114	601112	611114
1984	41 917	581114	7410 9	821315	491019	431316	441118	19 719	32 819	31 820	42 919	481019	821315
1985	43 913	821314	671116	511018	491020	431018	411019	29 710	49 916	34 814	461013	47 920	821314
1986	831415	31 6 3	701218	38 914	35 6 4	501019	36 920	36 819	521019	35 821	44 913	611016	831415
1987	671213	431113	851317	881416	23 624	28 820	19 721	27 719	26 724	32 813	45 918	40 810	881416
1988	33 919	631214	461016	43 912	26 718	35 819	23 719	21 713	30 720	52 912	551014	36 820	631214
1989	441018	36 818	43 917	581019	47 916	29 710	19 618	301216	42 918	42 914	491017	39 814	581019
1990	41 913	411019	461019	33 818	42 917	38 919	23 719	281316	27 714	441018	38 812	581014	581014
1991	35 820	36 921	38 813	40 811	27 719	26 721	19 621	611017	371716	38 815	30 822	42 918	611017
1992	541016	35 814	561014	19 610	19 620	24 915	18 618	22 622	30 719	23 722	32 818	40 8 9	561014
1993	481417	47 912	631019	591017	28 719	29 716	19 817	25 720	44 920	38 820	601116	611119	631019
MAX	1171716	1081517	851317	881416	651118	501019	631118	611017	521019	741219	611114	771214	

MAX Hmo(m): 11.7 MAX Tp(sec): 17. MAX Dp(deg): 162. DATE(gmt): 78010918

MAX WIND SPEED(m/sec): 36. MAX WIND DIRECTION(deg): 110. DATE(gmt): 77011018

MEAN Hmo(m): 1.4 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.8

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 67.50 W, DEPTH: 91 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 105

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	125	131	203	220	182	180	194	457	417	235	182	135	2661
0.50 - 0.99	778	729	738	1061	1242	1451	1768	2088	1528	1214	910	839	14346
1.00 - 1.49	1014	1033	945	952	1460	1320	1592	1182	1142	1287	1087	1061	14075
1.50 - 1.99	781	809	885	743	758	736	585	461	662	831	790	797	8838
2.00 - 2.49	666	536	642	554	369	314	192	182	305	481	585	649	5475
2.50 - 2.99	389	313	415	327	209	136	70	72	141	210	360	456	3098
3.00 - 3.49	240	194	232	207	111	84	32	15	68	108	201	240	1732
3.50 - 3.99	173	114	119	86	60	60	13	3	32	39	97	143	939
4.00 - 4.49	102	69	96	54	31	23	6	1	12	23	47	59	523
4.50 - 4.99	69	45	62	34	21	9	7	.	7	15	21	38	328
5.00 - 5.49	37	24	38	24	8	6	.	1	3	4	18	23	186
5.50 - 5.99	21	18	27	15	6	1	2	1	3	4	14	10	122
6.00 - 6.49	15	10	15	13	3	.	.	1	.	1	4	4	66
6.50 - 6.99	14	13	12	12	.	.	1	.	.	3	4	6	65
7.00 - 7.49	12	4	8	9	4	.	2	.	.	2	.	1	42
7.50 - 7.99	9	5	16	1	.	.	.	.	.	4	.	1	36
8.00 - 8.49	3	5	6	5	.	.	.	.	.	3	.	2	24
8.50 - 8.99	4	4	3	1	.	.	.	.	.	.	.	.	12
9.00 - 9.49	3	4	.	1	.	.	.	.	.	.	.	.	8
9.50 - 9.99	4	4	2	.	.	.	.	.	.	.	.	.	10
10.00 - GREATER	5	8	.	1	.	.	.	.	.	.	.	.	14
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 105

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	97	132	142	178	94	108	76	219	239	193	207	164	1849
4.0 - 4.9	501	563	493	434	466	329	419	549	630	661	608	633	6286
5.0 - 5.9	754	740	634	484	436	488	609	666	473	772	741	798	7595
6.0 - 6.9	489	380	396	364	486	632	803	855	562	530	477	534	6508
7.0 - 7.9	401	299	315	527	800	905	1007	924	635	527	425	393	7158
8.0 - 8.9	361	380	450	567	891	846	835	638	522	593	516	385	6984
9.0 - 9.9	449	409	541	567	672	597	455	268	362	518	500	461	5799
10.0 - 10.9	453	362	437	512	369	273	168	110	213	342	458	410	4107
11.0 - 11.9	341	331	442	345	147	95	58	71	144	149	221	252	2596
12.0 - 12.9	325	261	370	247	66	37	26	53	153	92	94	236	1960
13.0 - 13.9	181	113	124	62	23	9	5	40	132	38	43	154	924
14.0 - 14.9	69	55	71	25	8	1	3	13	102	12	12	31	402
15.0 - 15.9	21	26	16	5	5	.	.	12	46	14	5	9	159
16.0 - 16.9	10	7	8	.	1	.	.	24	38	14	2	3	107
17.0 - 17.9	12	3	3	2	.	.	.	5	26	8	2	1	62
18.0 - 18.9	.	11	3	1	.	.	.	5	16	1	2	.	39
19.0 - 19.9	.	.	1	.	.	.	.	4	14	.	4	.	23
20.0 - LONGER	.	.	18	.	.	.	.	8	13	.	3	.	42
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 105

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	93	131	138	97	53	21	24	38	59	114	118	149	1035
11.25 - 33.74 (22.5)	30	59	79	73	56	41	9	13	25	76	71	52	584
33.75 - 56.24 (45.0)	39	35	48	47	42	15	4	16	19	55	31	40	391
56.25 - 78.74 (67.5)	58	49	130	103	61	40	5	16	42	55	69	66	694
78.75 - 101.24 (90.0)	95	104	94	126	68	59	6	30	72	67	74	118	913
101.25 - 123.74 (112.5)	94	69	90	116	92	54	10	41	28	60	80	67	801
123.75 - 146.24 (135.0)	398	337	453	514	532	271	145	351	589	603	453	403	5049
146.25 - 168.74 (157.5)	638	540	649	788	889	636	553	610	757	723	532	546	7861
168.75 - 191.24 (180.0)	1055	986	1197	1201	1258	1440	1705	1419	1006	869	888	837	13861
191.25 - 213.74 (202.5)	489	447	573	507	727	999	1135	998	652	549	592	626	8294
213.75 - 236.24 (225.0)	257	209	206	189	254	381	412	393	429	371	322	280	3703
236.25 - 258.74 (247.5)	128	91	107	65	107	122	154	162	170	159	126	133	1524
258.75 - 281.24 (270.0)	244	120	160	131	104	128	122	104	151	292	268	241	2065
281.25 - 303.74 (292.5)	258	226	178	145	93	37	86	126	140	215	217	276	1997
303.75 - 326.24 (315.0)	392	321	237	126	87	45	52	85	104	148	279	395	2271
326.25 - 348.74 (337.5)	196	348	125	92	41	31	42	62	77	108	200	235	1557
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 67.50 W, DEPTH: 91 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 105 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	819	1	.	.	.	.	.	.	.	.	820
1.00 - 1.99	608	352	.	.	.	.	.	.	.	.	960
2.00 - 2.99	.	253	.	.	.	.	.	.	.	.	253
3.00 - 3.99	.	23	1	.	.	.	.	.	.	.	24
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1427	629	1	0	0	0	0	0	0	0	2057

STATION: 105 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	281	12	.	.	.	.	.	.	.	.	293
1.00 - 1.99	276	126	97	.	.	.	.	.	.	.	499
2.00 - 2.99	.	78	23	17	.	.	.	.	.	.	118
3.00 - 3.99	.	18	1	5	.	.	.	.	.	.	24
4.00 - 4.99	.	.	1	.	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	557	234	122	22	0	0	0	0	0	0	935

STATION: 105 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	289	52	.	.	.	.	.	.	.	.	341
1.00 - 1.99	67	483	113	.	.	.	.	.	.	.	663
2.00 - 2.99	.	212	230	9	.	.	.	.	.	.	451
3.00 - 3.99	.	1	132	28	1	.	.	.	.	.	162
4.00 - 4.99	.	.	39	10	2	.	.	.	.	.	51
5.00 - 5.99	.	.	5	7	.	.	.	.	.	.	12
6.00 - 6.99	.	.	.	7	.	.	.	.	.	.	7
7.00 - 7.99	.	.	.	2	.	.	.	.	.	.	2
8.00 - 8.99	.	.	.	2	.	.	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	356	748	519	65	3	0	0	0	0	0	1691

STATION: 105 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	315	269	1158	1365	741	275	62	40	28	.	4253
1.00 - 1.99	71	557	723	1109	695	279	57	19	3	.	3513
2.00 - 2.99	.	172	359	312	213	49	33	3	.	.	1141
3.00 - 3.99	.	.	161	112	73	20	2	5	.	.	373
4.00 - 4.99	.	.	44	62	25	16	1	2	.	.	150
5.00 - 5.99	.	.	.	47	24	12	1	2	.	.	86
6.00 - 6.99	.	.	.	19	11	9	2	.	.	.	41
7.00 - 7.99	.	.	.	2	14	9	1	.	.	.	26
8.00 - 8.99	.	.	.	.	9	4	1	.	.	.	14
9.00 - GREATER	.	.	.	.	2	4	.	.	.	.	6
TOTAL	386	998	2445	3028	1807	677	160	71	31	0	9603

STATION: 105 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	629	1958	3363	1307	293	47	2	2	3	2	7606
1.00 - 1.99	143	1868	4074	2710	806	180	35	14	9	3	9842
2.00 - 2.99	.	229	1023	1418	821	155	30	10	14	1	3701
3.00 - 3.99	.	.	263	487	465	110	4	3	2	.	1334
4.00 - 4.99	.	.	27	143	169	89	10	.	.	.	438
5.00 - 5.99	.	.	.	57	59	23	7	.	.	.	146
6.00 - 6.99	.	.	.	17	23	12	8	.	.	.	60
7.00 - 7.99	.	.	.	1	20	14	1	.	.	.	35
8.00 - 8.99	.	.	.	.	9	4	3	.	.	.	16
9.00 - GREATER	.	.	.	.	2	14	7	1	.	.	24
TOTAL	772	4055	8750	6140	2667	648	106	30	28	6	23202

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N LONG: 67.50 W DEPTH: 91 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 105 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	943	703	113	17	.	.	.	.	.	.	1776
1.00 - 1.99	145	2291	637	40	4	.	.	.	.	.	3117
2.00 - 2.99	.	326	1090	128	2	.	.	.	.	.	1546
3.00 - 3.99	.	.	282	251	12	.	.	.	.	.	545
4.00 - 4.99	.	.	26	147	14	.	.	.	.	.	187
5.00 - 5.99	.	.	.	54	10	.	.	.	.	.	64
6.00 - 6.99	.	.	.	6	16	1	.	.	.	.	23
7.00 - 7.99	.	.	.	.	15	.	.	.	.	.	15
8.00 - 8.99	.	.	.	.	4	.	.	.	.	.	4
9.00 - GREATER	.	.	.	.	2	.	.	.	.	.	2
TOTAL	1088	3320	2148	643	79	1	0	0	0	0	7279

STATION: 105 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	901	2	.	.	.	.	.	.	.	.	903
1.00 - 1.99	436	1511	6	.	.	.	.	.	.	.	1953
2.00 - 2.99	.	616	47	2	.	.	.	.	.	.	665
3.00 - 3.99	.	42	57	5	.	.	.	.	.	.	104
4.00 - 4.99	.	.	14	1	.	.	.	.	.	.	15
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1337	2171	124	8	0	0	0	0	0	0	3640

STATION: 105 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1015	.	.	.	.	.	.	.	.	.	1015
1.00 - 1.99	1197	1168	1	.	.	.	.	.	.	.	2366
2.00 - 2.99	.	697	1	.	.	.	.	.	.	.	698
3.00 - 3.99	.	83	22	.	.	.	.	.	.	.	105
4.00 - 4.99	.	.	9	.	.	.	.	.	.	.	9
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2212	1948	33	0	0	0	0	0	0	0	4193

STATION: 105 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5192	2997	4634	2689	1034	322	64	42	31	2	17007
1.00 - 1.99	2943	8356	5651	3859	1505	459	92	33	12	3	22913
2.00 - 2.99	.	2583	2773	1886	1036	204	63	13	14	1	8573
3.00 - 3.99	.	167	919	888	551	130	6	8	2	.	2671
4.00 - 4.99	.	.	160	363	210	105	11	2	.	.	851
5.00 - 5.99	.	.	5	165	93	35	8	2	.	.	308
6.00 - 6.99	.	.	.	49	50	22	10	.	.	.	131
7.00 - 7.99	.	.	.	5	49	23	1	.	.	.	78
8.00 - 8.99	.	.	.	2	22	8	4	.	.	.	36
9.00 - GREATER	.	.	.	.	6	18	7	1	.	.	32
TOTAL	8135	14103	14142	9906	4556	1326	266	101	59	6	52600

STATION: 105

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	81	82	73	150	264	254	353	449	284	122	78	67	2257
2.50 - 4.99	712	651	879	1165	1639	1739	1998	2030	1627	1192	844	715	15191
5.00 - 7.49	639	677	741	904	975	1015	1130	1114	1023	1025	813	699	10755
7.50 - 9.99	1036	1038	1110	1016	965	855	796	689	932	1212	1117	1121	11887
10.00 - 12.49	653	589	561	438	335	261	124	148	280	476	622	663	5150
12.50 - 14.99	713	573	610	384	211	172	58	29	148	315	544	670	4427
15.00 - 17.49	255	197	179	139	49	20	2	2	23	71	133	237	1307
17.50 - 19.99	233	146	202	104	21	4	3	2	3	36	103	174	1031
20.00 - GREATER	142	119	109	20	5	.	.	1	.	15	66	118	595
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 67.50 W, DEPTH: 91 M

STATION: 105

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	607	694	640	508	378	278	221	297	454	485	481	522	5565
22.50 - 67.49 (45.0)	307	327	478	586	457	253	128	209	297	358	314	311	4025
67.50 - 112.49 (90.0)	273	231	294	394	328	225	134	186	223	228	241	217	2974
112.50 - 157.49 (135.0)	274	258	273	389	434	279	172	263	218	379	257	281	3477
157.50 - 202.49 (180.0)	384	297	509	564	712	600	715	706	520	590	525	402	6524
202.50 - 247.49 (225.0)	531	549	619	639	963	1275	1462	1285	1133	825	677	583	10541
247.50 - 292.49 (270.0)	839	513	643	567	646	858	1018	818	764	883	814	895	9258
292.50 - 337.49 (315.0)	1249	1203	1008	673	546	552	614	700	711	716	1011	1253	10236
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 105

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.22	2.37	2.23	1.45	2.22	1.53	1.32	1.28	1.10	1.74	1.80	2.21	1.79
1977	2.02	1.89	2.03	1.85	1.26	1.57	1.45	1.17	1.17	1.72	1.82	2.38	1.69
1978	2.74	1.37	2.06	1.62	1.76	1.69	1.17	1.01	1.16	1.54	1.48	1.89	1.63
1979	2.53	2.04	2.57	1.77	1.57	1.36	1.30	1.13	1.56	1.54	1.62	2.10	1.76
1980	2.50	1.54	2.31	1.90	1.17	1.49	1.30	1.08	1.45	1.72	2.15	1.89	1.71
1981	1.72	3.21	1.74	2.54	1.72	1.38	1.20	0.91	1.33	1.23	1.53	1.65	1.67
1982	1.88	1.51	1.37	1.80	0.74	1.03	0.95	1.02	0.96	1.00	1.52	1.39	1.26
1983	1.56	1.53	1.56	1.48	1.77	1.07	1.20	0.93	1.11	1.32	2.04	2.08	1.47
1984	1.43	2.02	2.35	2.01	1.93	1.53	1.55	0.80	1.10	1.14	1.50	1.57	1.58
1985	1.67	1.89	1.85	1.37	1.47	1.56	1.30	0.78	0.93	1.26	1.48	1.54	1.42
1986	2.67	1.36	2.11	1.68	1.32	1.49	1.08	1.05	1.12	1.29	1.67	1.98	1.57
1987	1.86	1.65	1.52	1.74	0.99	0.98	0.71	0.81	1.08	1.22	1.40	1.31	1.27
1988	1.58	1.86	1.64	1.48	1.21	1.24	1.10	0.96	1.10	1.55	1.76	1.54	1.42
1989	1.66	1.63	1.49	1.44	1.44	0.86	0.93	1.10	1.48	1.23	1.95	1.50	1.39
1990	1.81	2.01	1.64	1.71	1.36	1.51	1.12	0.81	1.02	1.67	1.62	1.91	1.51
1991	1.52	1.51	1.83	1.23	1.03	0.92	0.91	1.25	1.41	1.67	1.48	1.51	1.36
1992	1.73	1.60	1.91	0.99	0.85	1.01	0.80	0.91	0.89	1.04	1.06	1.50	1.19
1993	1.71	1.71	1.74	1.86	1.26	1.07	0.85	0.83	1.46	1.51	1.73	1.87	1.46
MEAN	1.93	1.82	1.88	1.66	1.39	1.29	1.12	0.99	1.19	1.41	1.64	1.77	

STATION: 105

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	701119	991317	831220	601014	741122	421022	29 723	32 919	30 722	791215	38 728	551015	991317
1977	971314	1041315	841215	611017	38 922	38 920	721120	30 822	37 923	611017	44 810	821215	1041315
1978	1371618	8710 9	831214	641116	721219	541120	33 822	35 819	36 822	471021	671119	591014	1371618
1979	901215	41 810	961319	891417	511020	43 921	31 816	301018	541019	651122	561121	48 921	961319
1980	1001320	471023	741113	581215	43 920	35 821	29 723	291818	38 924	831222	621016	541017	1001320
1981	47 918	1311519	541022	801221	35 917	471021	38 819	28 819	31 628	34 817	42 825	471417	1311519
1982	491023	40 825	45 924	46 922	21 719	27 6 4	25 821	27 917	241316	27 912	571119	41 921	571119
1983	48 914	45 811	311115	421116	441019	29 719	41 922	27 721	38 920	41 921	691114	671113	691114
1984	42 918	651115	801214	911316	561021	451018	481119	19 719	32 822	32 822	46 921	50 923	911316
1985	421121	941316	771216	561019	551121	501118	451021	24 6 8	521019	34 815	481013	521021	941316
1986	951416	30 6 3	791220	44 914	3910 7	581021	39 922	39 820	591120	37 822	42 812	661016	951416
1987	761214	501113	981318	1041418	28 724	32 920	21 722	26 720	30 723	34 813	48 919	37 811	1041418
1988	36 727	701113	511017	38 812	25 719	36 820	25 720	23 714	32 820	49 913	591014	38 921	701113
1989	481020	41 918	47 918	671119	491017	25 712	20 619	281216	47 919	42 915	521017	41 920	671119
1990	44 914	461021	521022	381018	42 917	41 920	24 720	281316	28 714	511022	42 728	661116	661116
1991	34 821	391217	38 7 9	34 710	29 717	28 821	20 622	611020	331117	451318	40 824	45 919	611020
1992	571018	36 823	571016	22 917	18 622	24 915	19 618	25 722	30 719	24 723	33 819	39 922	571016
1993	611319	49 915	691121	621017	29 721	31 716	20 716	25 723	48 922	42 822	641117	761221	761221
MAX	1371618	1311519	981318	1041418	741122	581021	721120	611020	591120	831222	691114	821215	

MAX Hmo(m): 13.7 MAX Tp(sec): 16. MAX Dp(deg): 176. DATE(gmt): 78010918

MAX WIND SPEED(m/sec): 34. MAX WIND DIRECTION(deg): 110. DATE(gmt): 77011018

MEAN Hmo(m): 1.5 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 1.0 STANDARD DEVIATION Tp(sec): 2.7

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 66.75 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 106

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	118	130	206	225	223	196	190	524	467	246	187	117	2829
0.50 - 0.99	760	733	769	1098	1302	1408	1744	1966	1546	1199	891	828	14244
1.00 - 1.49	984	997	902	990	1389	1323	1504	1219	1084	1205	1060	1004	13661
1.50 - 1.99	762	794	837	619	728	686	660	473	609	832	746	780	8526
2.00 - 2.49	600	517	623	583	346	333	209	172	316	470	536	610	5315
2.50 - 2.99	453	336	395	318	212	163	73	87	146	225	398	457	3263
3.00 - 3.49	247	197	278	205	108	105	48	14	76	131	239	319	1967
3.50 - 3.99	183	127	140	109	49	52	15	5	41	61	115	164	1061
4.00 - 4.49	125	89	93	76	47	28	6	1	18	40	60	78	661
4.50 - 4.99	77	48	77	21	25	16	9	1	9	23	37	54	397
5.00 - 5.49	52	29	46	23	15	8	1	1	5	8	26	27	241
5.50 - 5.99	29	23	29	14	7	2	1	1	1	7	10	9	133
6.00 - 6.49	22	16	22	10	6	.	1	.	2	7	10	9	105
6.50 - 6.99	11	4	20	7	3	.	1	.	.	1	1	3	51
7.00 - 7.49	11	6	6	14	1	.	1	.	.	3	4	2	48
7.50 - 7.99	7	6	7	2	3	.	1	.	.	2	.	1	29
8.00 - 8.49	7	5	5	4	.	.	.	.	.	4	.	2	27
8.50 - 8.99	2	.	4	.	.	.	.	.	.	.	.	.	6
9.00 - 9.49	4	3	2	1	.	.	.	.	.	.	.	.	10
9.50 - 9.99	2	2	1	.	.	.	.	.	.	.	.	.	5
10.00 - GREATER	8	10	2	1	.	.	.	.	.	.	.	.	21
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 106

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	100	145	178	187	149	128	85	242	291	252	244	153	2154
4.0 - 4.9	554	618	521	530	515	346	399	615	703	671	628	632	6732
5.0 - 5.9	698	759	654	514	545	527	645	728	559	735	805	812	7981
6.0 - 6.9	583	425	493	578	689	799	953	943	679	753	563	604	8062
7.0 - 7.9	588	365	456	642	844	972	1024	899	636	638	568	562	8194
8.0 - 8.9	408	397	441	576	745	755	777	564	442	548	509	437	6599
9.0 - 9.9	451	362	472	431	468	474	355	211	249	355	432	435	4695
10.0 - 10.9	360	370	400	341	262	181	144	70	178	267	308	305	3186
11.0 - 11.9	264	248	354	255	138	110	60	45	104	96	142	185	2001
12.0 - 12.9	223	187	291	174	73	23	15	46	109	73	75	174	1463
13.0 - 13.9	140	106	116	80	22	2	4	33	118	30	27	123	801
14.0 - 14.9	69	51	52	10	8	3	2	11	97	19	8	32	362
15.0 - 15.9	13	16	15	.	4	.	1	14	46	9	.	8	126
16.0 - 16.9	11	8	4	.	2	.	.	21	42	8	1	2	99
17.0 - 17.9	2	3	.	2	.	.	.	9	25	6	3	.	50
18.0 - 18.9	.	11	.	.	.	.	.	5	13	4	2	.	35
19.0 - 19.9	.	1	3	.	.	.	.	2	13	.	4	.	23
20.0 - LONGER	.	.	14	.	.	.	.	6	16	.	1	.	37
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 106

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	107	140	145	118	62	21	24	45	68	143	144	154	1171
11.25 - 33.74 (22.5)	44	96	141	139	95	32	8	29	38	125	81	76	904
33.75 - 56.24 (45.0)	97	103	157	147	115	58	8	27	57	87	100	109	1065
56.25 - 78.74 (67.5)	89	79	106	132	81	50	8	25	71	69	78	97	885
78.75 - 101.24 (90.0)	89	87	86	121	56	40	3	30	32	56	59	74	733
101.25 - 123.74 (112.5)	80	50	55	72	53	41	10	28	23	45	66	44	567
123.75 - 146.24 (135.0)	114	88	116	133	122	92	50	128	128	209	136	125	1441
146.25 - 168.74 (157.5)	376	339	431	445	608	379	231	443	675	486	384	364	5161
168.75 - 191.24 (180.0)	1086	978	1245	1315	1308	1231	1524	1263	921	994	802	839	13506
191.25 - 213.74 (202.5)	551	573	691	718	1023	1344	1517	1246	911	638	664	694	10570
213.75 - 236.24 (225.0)	335	265	274	265	364	557	553	542	537	487	407	338	4924
236.25 - 258.74 (247.5)	245	145	166	129	187	203	214	246	277	272	242	239	2565
258.75 - 281.24 (270.0)	407	203	278	206	144	156	157	137	211	373	385	389	3046
281.25 - 303.74 (292.5)	243	237	208	148	104	57	77	129	144	208	243	284	2082
303.75 - 326.24 (315.0)	413	367	226	133	87	33	50	93	128	150	314	409	2403
326.25 - 348.74 (337.5)	188	322	139	99	55	26	30	53	99	122	215	229	1577
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 66.75 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 106 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	912	2	.	.	.	.	.	.	.	.	914
1.00 - 1.99	658	353	.	.	.	.	.	.	.	.	1011
2.00 - 2.99	.	271	.	.	.	.	.	.	.	.	271
3.00 - 3.99	.	16	4	.	.	.	.	.	.	.	20
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1570	642	4	1	0	0	0	0	0	0	2217

STATION: 106 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	342	48	.	.	.	.	.	.	.	.	390
1.00 - 1.99	84	608	20	.	.	.	.	.	.	.	712
2.00 - 2.99	.	200	304	.	.	.	.	.	.	.	504
3.00 - 3.99	.	1	324	10	.	.	.	.	.	.	335
4.00 - 4.99	.	.	83	51	.	.	.	.	.	.	134
5.00 - 5.99	.	.	1	44	.	.	.	.	.	.	45
6.00 - 6.99	.	.	.	24	.	.	.	.	.	.	24
7.00 - 7.99	.	.	.	4	.	.	.	.	.	.	4
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	426	857	732	133	0	0	0	0	0	0	2148

STATION: 106 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	346	3	.	.	.	.	.	.	.	.	349
1.00 - 1.99	333	369	2	.	.	.	.	.	.	.	704
2.00 - 2.99	.	210	49	.	.	.	.	.	.	.	259
3.00 - 3.99	.	22	45	2	.	.	.	.	.	.	69
4.00 - 4.99	.	.	15	6	.	.	.	.	.	.	21
5.00 - 5.99	.	.	1	4	.	.	.	.	.	.	5
6.00 - 6.99	.	.	.	1	.	.	.	.	.	.	1
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	679	604	112	13	0	0	0	0	0	0	1408

STATION: 106 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	364	111	631	626	481	246	58	34	24	.	2575
1.00 - 1.99	108	495	117	235	209	141	49	10	1	.	1365
2.00 - 2.99	.	249	77	20	14	27	3	1	.	.	391
3.00 - 3.99	.	1	92	16	7	3	.	.	.	.	119
4.00 - 4.99	.	.	28	9	2	1	.	.	.	.	40
5.00 - 5.99	.	.	3	12	.	.	.	.	.	.	15
6.00 - 6.99	.	.	.	7	2	.	.	.	.	.	9
7.00 - 7.99	.	.	.	3	.	.	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	472	856	948	928	715	418	110	45	25	0	4517

STATION: 106 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	809	2113	3101	1196	340	80	4	5	9	1	7658
1.00 - 1.99	175	1881	3888	2474	797	183	60	21	9	3	9491
2.00 - 2.99	.	231	945	1237	676	147	15	13	12	.	3276
3.00 - 3.99	.	.	258	391	385	106	1	.	1	.	1142
4.00 - 4.99	.	.	39	151	139	90	4	1	.	.	424
5.00 - 5.99	.	.	.	65	62	42	8	.	.	.	177
6.00 - 6.99	.	.	.	11	40	22	5	.	.	.	78
7.00 - 7.99	.	.	.	3	21	14	6	.	.	.	44
8.00 - 8.99	.	.	.	.	9	12	3	.	.	.	24
9.00 - GREATER	.	.	.	.	6	18	9	.	.	.	33
TOTAL	984	4225	8231	5528	2475	714	115	40	31	4	22347

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 66.75 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 106 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1116	1108	567	144	11	4	.	.	.	.	2950
1.00 - 1.99	139	2758	1150	216	53	3	.	.	.	.	4319
2.00 - 2.99	.	268	1491	215	59	1	.	.	.	.	2034
3.00 - 3.99	.	.	330	364	21	1	.	.	.	.	716
4.00 - 4.99	.	.	27	224	43	4	.	.	.	.	298
5.00 - 5.99	.	.	.	53	42	2	.	.	.	.	97
6.00 - 6.99	.	.	.	7	19	4	.	.	.	.	30
7.00 - 7.99	.	.	.	.	17	6	.	.	.	.	23
8.00 - 8.99	.	.	.	.	6	3	.	.	.	.	9
9.00 - GREATER	.	.	.	.	.	3	.	.	.	.	3
TOTAL	1255	4134	3565	1223	271	31	0	0	0	0	10479

STATION: 106 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	943	146	.	.	.	.	.	.	.	.	1089
1.00 - 1.99	198	1878	9	.	.	.	.	.	.	.	2085
2.00 - 2.99	.	636	504	1	.	.	.	.	.	.	1141
3.00 - 3.99	.	1	521	10	.	.	.	.	.	.	532
4.00 - 4.99	.	.	128	7	.	.	.	.	.	.	135
5.00 - 5.99	.	.	11	21	2	.	.	.	.	.	34
6.00 - 6.99	.	.	.	13	1	.	.	.	.	.	14
7.00 - 7.99	.	.	.	3	.	.	.	.	.	.	3
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1141	2661	1173	55	3	0	0	0	0	0	5033

STATION: 106 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1148	.	.	.	.	.	.	.	.	.	1148
1.00 - 1.99	1211	1288	1	.	.	.	.	.	.	.	2500
2.00 - 2.99	.	701	1	.	.	.	.	.	.	.	702
3.00 - 3.99	.	75	20	.	.	.	.	.	.	.	95
4.00 - 4.99	.	.	6	.	.	.	.	.	.	.	6
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2359	2064	28	0	0	0	0	0	0	0	4451

STATION: 106 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	5980	3531	4299	1966	832	330	62	39	33	1	17073
1.00 - 1.99	2906	9630	5187	2925	1059	327	109	31	10	3	22187
2.00 - 2.99	.	2766	3371	1473	749	175	18	14	12	.	8578
3.00 - 3.99	.	116	1594	793	413	110	1	.	1	.	3028
4.00 - 4.99	.	.	326	448	184	95	4	1	.	.	1058
5.00 - 5.99	.	.	16	200	106	44	8	.	.	.	374
6.00 - 6.99	.	.	.	63	62	26	5	.	.	.	156
7.00 - 7.99	.	.	.	13	38	20	6	.	.	.	77
8.00 - 8.99	.	.	.	.	15	15	3	.	.	.	33
9.00 - GREATER	.	.	.	.	6	21	9	.	.	.	36
TOTAL	8886	16043	14793	7881	3464	1163	225	85	56	4	52600

STATION: 106

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	72	74	65	136	234	222	328	410	276	99	66	55	2037
2.50 - 4.99	675	626	835	1107	1594	1677	1927	2007	1560	1165	805	693	14671
5.00 - 7.49	650	677	751	907	1019	1065	1148	1120	1035	1016	827	674	10889
7.50 - 9.99	999	1030	1102	1012	961	875	844	722	980	1216	1081	1109	11931
10.00 - 12.49	698	612	580	490	363	273	153	170	268	506	687	653	5453
12.50 - 14.99	715	587	618	388	213	177	59	29	172	323	521	720	4522
15.00 - 17.49	270	211	207	137	43	26	2	4	26	82	153	277	1438
17.50 - 19.99	237	132	186	120	31	5	3	2	3	44	118	169	1050
20.00 - GREATER	148	123	120	23	6	.	.	.	.	13	62	114	609
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.25 N, LONG: 66.75 W, DEPTH: 183 M

STATION: 106

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	586	662	634	526	350	264	211	277	436	481	473	494	5394
22.50 - 67.49 (45.0)	314	336	457	557	462	254	89	209	312	347	333	321	3991
67.50 - 112.49 (90.0)	284	238	310	420	347	231	130	213	230	233	231	200	3067
112.50 - 157.49 (135.0)	263	260	264	373	435	296	197	247	217	383	263	297	3495
157.50 - 202.49 (180.0)	384	299	498	556	695	576	720	714	514	581	497	398	6432
202.50 - 247.49 (225.0)	516	536	629	654	961	1312	1509	1292	1102	823	681	577	10592
247.50 - 292.49 (270.0)	856	537	687	573	694	860	1047	863	811	890	825	900	9543
292.50 - 337.49 (315.0)	1261	1204	985	661	520	527	561	649	698	726	1017	1277	10086
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 106

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	2.26	2.45	2.27	1.41	2.33	1.65	1.36	1.25	1.10	1.80	1.95	2.19	1.83
1977	2.09	1.83	1.96	1.85	1.35	1.46	1.52	1.21	1.16	1.71	1.75	2.36	1.69
1978	2.73	1.38	2.08	1.62	1.67	1.69	1.18	1.03	1.18	1.50	1.47	1.97	1.63
1979	2.52	1.98	2.58	1.72	1.47	1.42	1.29	1.13	1.57	1.59	1.69	2.16	1.76
1980	2.67	1.59	2.45	1.78	1.12	1.53	1.34	1.05	1.50	1.77	2.18	1.86	1.74
1981	1.88	3.12	2.01	2.63	1.75	1.44	1.22	0.92	1.32	1.31	1.56	1.73	1.73
1982	2.07	1.69	1.40	1.90	0.76	1.08	1.00	1.04	0.93	1.06	1.59	1.55	1.34
1983	1.51	1.53	1.53	1.37	1.75	1.06	1.24	0.98	1.13	1.46	2.02	2.15	1.48
1984	1.48	1.96	2.34	2.13	1.94	1.45	1.58	0.78	1.08	1.15	1.49	1.61	1.58
1985	1.77	1.87	1.96	1.39	1.51	1.57	1.37	0.77	0.98	1.32	1.56	1.61	1.47
1986	2.72	1.43	2.11	1.67	1.45	1.62	1.09	1.07	1.13	1.38	1.69	2.07	1.62
1987	1.84	1.72	1.62	1.46	0.97	1.00	0.71	0.80	1.19	1.23	1.56	1.44	1.29
1988	1.69	1.91	1.69	1.67	1.20	1.27	1.11	0.99	1.14	1.61	1.87	1.68	1.48
1989	1.74	1.75	1.49	1.48	1.34	0.87	0.93	1.07	1.41	1.31	2.00	1.66	1.42
1990	1.94	2.12	1.68	1.65	1.34	1.47	1.15	0.75	0.93	1.68	1.77	1.93	1.53
1991	1.57	1.55	1.90	1.20	1.07	1.00	0.97	1.27	1.40	1.72	1.60	1.62	1.40
1992	1.74	1.66	1.87	1.01	0.82	0.99	0.82	0.94	0.92	1.08	1.08	1.57	1.21
1993	1.83	1.73	1.68	1.82	1.21	1.12	0.86	0.82	1.50	1.56	1.80	1.96	1.49
MEAN	2.00	1.85	1.92	1.65	1.39	1.32	1.15	0.99	1.20	1.46	1.70	1.84	

STATION: 106

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	691221	1071318	961320	471016	791222	451023	31 823	30 920	29 822	741217	44 827	531318	1071318
1977	781014	841217	681219	611118	44 8 7	36 821	761221	30 823	401019	571018	51 924	701116	841217
1978	1361519	6610 5	701216	591017	761220	561121	29 822	35 819	35 823	481022	701119	461017	1361519
1979	861419	42 8 7	1041320	841318	481021	451022	29 716	31 723	531021	601024	561024	49 922	1041320
1980	1011320	56 9 4	751119	571019	44 921	38 921	30 822	30 727	421023	831223	611121	581018	1011320
1981	6310 6	1421520	64 9 4	811321	47 9 4	481021	39 919	31 919	39 827	38 827	44 924	561318	1421520
1982	511024	441023	43 925	371022	22 721	33 7 5	27 822	27 818	22 819	35 8 5	621119	41 822	621119
1983	47 917	52 9 6	39 8 8	411016	491219	29 720	42 923	31 7 3	441018	451021	721026	801222	801222
1984	43 919	641119	6910 5	821317	581021	471019	491120	19 719	32 722	35 8 7	46 921	48 924	821317
1985	53 926	811317	821218	561020	601123	541119	491121	23 6 3	531021	32 925	411015	541022	821218
1986	1051317	44 8 3	811221	43 914	6710 4	591022	40 924	41 921	641221	38 8 5	6310 4	671118	1051317
1987	62 913	7210 3	911218	1021318	31 824	36 921	22 722	25 720	34 823	30 725	52 9 3	37 8 5	1021318
1988	48 926	621116	541018	48 9 3	38 8 2	37 821	24 620	24 613	35 821	43 8 3	51 814	40 921	621116
1989	481021	46 919	47 918	751121	47 917	25 726	22 620	25 818	47 919	36 8 5	501018	43 924	751121
1990	49 828	511220	561221	411119	43 918	41 921	25 820	281318	25 616	581121	52 926	601017	601017
1991	34 728	421023	42 8 5	31 822	28 722	30 822	24 723	571020	311118	64 9 4	46 924	46 920	64 9 4
1992	581018	52 9 2	551021	30 7 4	19 6 4	24 616	19 618	24 722	30 821	25 724	33 819	40 922	581018
1993	691320	55 9 9	701121	601118	29 721	30 817	19 618	27 724	49 923	47 922	641118	821222	821222
MAX	1361519	1421520	1041320	1021318	791222	591022	761221	571020	641221	831223	721026	821222	

MAX Hmo(m): 14.2 MAX Tp(sec): 15. MAX Dp(deg): 198. DATE(gmt): 81020300

MAX WIND SPEED(m/sec): 31. MAX WIND DIRECTION(deg): 80. DATE(gmt): 78020712

MEAN Hmo(m): 1.5 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 1.1 STANDARD DEVIATION Tp(sec): 2.5

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.50 N, LONG: 66.50 W, DEPTH: 183 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 107

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	217	243	306	390	423	354	344	831	717	435	314	249	4823
0.50 - 0.99	975	897	982	1278	1723	1839	2196	2123	1762	1529	1125	1040	17469
1.00 - 1.49	1141	1094	1029	1000	1166	1130	1220	987	931	1219	1157	1136	13210
1.50 - 1.99	801	759	817	619	566	507	419	314	478	654	772	801	7507
2.00 - 2.49	547	470	549	471	250	220	145	131	227	320	438	620	4388
2.50 - 2.99	344	262	292	270	147	104	66	62	92	127	252	301	2319
3.00 - 3.49	165	121	173	128	67	66	34	9	58	90	124	174	1209
3.50 - 3.99	107	85	110	67	42	47	16	5	25	38	72	60	674
4.00 - 4.49	49	48	82	25	34	30	11	.	15	19	25	33	371
4.50 - 4.99	36	34	48	21	18	14	6	2	8	13	18	29	247
5.00 - 5.49	29	17	15	10	11	6	2	.	5	10	9	8	122
5.50 - 5.99	15	12	21	11	8	3	1	.	2	3	7	8	91
6.00 - 6.49	10	9	8	9	4	.	1	.	.	1	4	1	47
6.50 - 6.99	4	3	6	6	1	.	1	.	.	3	2	4	30
7.00 - 7.49	3	3	6	8	3	.	1	.	.	2	1	.	27
7.50 - 7.99	5	1	4	4	1	.	1	.	.	1	.	.	17
8.00 - 8.49	2	.	8	1	.	.	.	.	.	.	.	.	11
8.50 - 8.99	3	.	2	.	.	.	.	.	.	.	.	.	5
9.00 - 9.49	2	2	4	.	.	.	.	.	.	.	.	.	8
9.50 - 9.99	1	2	1	1	.	.	.	.	.	.	.	.	5
10.00 - GREATER	8	10	1	1	.	.	.	.	.	.	.	.	20
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 107

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	243	318	349	353	383	281	281	480	572	541	450	345	4596
4.0 - 4.9	708	721	642	660	615	457	430	612	757	812	746	784	7944
5.0 - 5.9	798	779	660	552	508	423	571	703	510	622	817	793	7736
6.0 - 6.9	454	393	446	502	606	738	898	858	674	576	422	525	7092
7.0 - 7.9	418	277	399	614	824	888	997	900	576	619	441	442	7395
8.0 - 8.9	385	387	434	572	727	807	767	541	386	539	497	393	6435
9.0 - 9.9	450	344	473	369	391	440	318	174	222	325	420	506	4432
10.0 - 10.9	355	359	363	275	209	167	133	46	153	211	307	291	2869
11.0 - 11.9	248	190	305	210	124	96	49	32	87	88	135	155	1719
12.0 - 12.9	189	145	232	148	51	17	16	23	59	50	56	115	1101
13.0 - 13.9	126	87	92	55	16	4	2	35	78	34	22	89	640
14.0 - 14.9	68	41	39	7	5	2	1	9	78	14	5	20	289
15.0 - 15.9	15	18	12	3	2	.	1	9	48	14	2	5	129
16.0 - 16.9	7	6	5	.	3	.	.	17	43	6	.	1	88
17.0 - 17.9	.	.	.	.	.	.	.	11	33	7	.	.	51
18.0 - 18.9	.	6	.	.	.	.	.	7	8	6	.	.	27
19.0 - 19.9	.	1	.	.	.	.	.	1	13	.	.	.	15
20.0 - LONGER	.	.	13	.	.	.	.	6	23	.	.	.	42
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 107

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	156	198	196	138	80	26	38	66	95	177	194	198	1562
11.25 - 33.74 (22.5)	91	126	176	173	122	46	8	33	59	138	92	94	1158
33.75 - 56.24 (45.0)	121	128	175	197	132	59	13	41	80	104	112	140	1302
56.25 - 78.74 (67.5)	100	95	132	165	92	69	14	34	71	72	91	124	1059
78.75 - 101.24 (90.0)	121	105	101	148	72	54	10	43	38	59	75	77	903
101.25 - 123.74 (112.5)	99	70	79	92	68	41	16	33	22	61	70	46	697
123.75 - 146.24 (135.0)	65	52	49	46	43	60	19	59	49	125	60	92	719
146.25 - 168.74 (157.5)	111	95	131	162	277	121	60	224	364	206	182	122	2055
168.75 - 191.24 (180.0)	1371	1189	1566	1566	1692	1681	1887	1603	1256	1338	1089	1137	17375
191.25 - 213.74 (202.5)	624	600	715	764	1095	1386	1514	1340	1036	789	785	750	11398
213.75 - 236.24 (225.0)	356	246	276	257	331	444	473	449	514	502	410	376	4634
236.25 - 258.74 (247.5)	174	69	103	84	101	103	118	142	139	180	184	136	1533
258.75 - 281.24 (270.0)	59	79	68	80	74	62	74	75	131	140	101	87	1030
281.25 - 303.74 (292.5)	255	209	217	149	87	55	100	114	158	232	222	263	2061
303.75 - 326.24 (315.0)	424	353	269	165	103	67	64	122	169	187	326	477	2726
326.25 - 348.74 (337.5)	337	458	211	134	95	46	56	86	139	154	327	345	2388
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.50 N, LONG: 66.50 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 107 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1253	4	.	.	.	.	.	.	.	.	1257
1.00 - 1.99	763	523	.	.	.	.	.	.	.	.	1286
2.00 - 2.99	.	368	.	.	.	.	.	.	.	.	368
3.00 - 3.99	.	21	7	.	.	.	.	.	.	.	28
4.00 - 4.99	.	.	4	.	.	.	.	.	.	.	4
5.00 - 5.99	.	.	.	1	.	.	.	.	.	.	1
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2016	916	11	1	0	0	0	0	0	0	2944

STATION: 107 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	510	107	.	.	.	.	.	.	.	.	617
1.00 - 1.99	117	812	9	.	.	.	.	.	.	.	938
2.00 - 2.99	.	402	311	.	.	.	.	.	.	.	713
3.00 - 3.99	.	2	297	2	.	.	.	.	.	.	301
4.00 - 4.99	.	.	87	9	.	.	.	.	.	.	96
5.00 - 5.99	.	.	3	33	.	.	.	.	.	.	36
6.00 - 6.99	.	.	.	7	.	.	.	.	.	.	7
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	627	1323	707	51	0	0	0	0	0	0	2708

STATION: 107 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	477	9	.	.	.	.	.	.	.	.	486
1.00 - 1.99	377	484	1	.	.	.	.	.	.	.	862
2.00 - 2.99	.	245	36	.	.	.	.	.	.	.	281
3.00 - 3.99	.	16	35	.	.	.	.	.	.	.	51
4.00 - 4.99	.	.	15	3	.	.	.	.	.	.	18
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	854	754	87	3	0	0	0	0	0	0	1698

STATION: 107 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	569	12	194	185	114	111	23	15	.	.	1223
1.00 - 1.99	326	291	1	.	1	.	.	.	.	.	619
2.00 - 2.99	.	120	2	.	.	.	.	.	.	.	122
3.00 - 3.99	.	19	7	.	.	.	.	.	.	.	26
4.00 - 4.99	.	.	6	.	.	.	.	.	.	.	6
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	895	442	210	185	115	111	23	15	0	0	1996

STATION: 107 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1262	2976	4716	1747	617	224	63	24	29	2	11660
1.00 - 1.99	216	1997	3404	2707	846	202	82	34	17	2	9507
2.00 - 2.99	.	298	929	926	645	174	13	5	7	.	2997
3.00 - 3.99	.	3	308	297	199	122	7	.	.	.	936
4.00 - 4.99	.	.	30	178	68	26	7	.	.	.	309
5.00 - 5.99	.	.	.	51	56	8	9	.	.	.	124
6.00 - 6.99	.	.	.	11	24	12	4	.	.	.	51
7.00 - 7.99	.	.	.	3	19	10	2	.	.	.	34
8.00 - 8.99	.	.	.	.	6	9	1	.	.	.	16
9.00 - GREATER	.	.	.	.	7	19	6	.	.	.	32
TOTAL	1478	5274	9387	5920	2487	806	194	63	53	4	25666

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.50 N, LONG: 66.50 W, DEPTH: 183 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 107 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1488	1334	836	227	15	3	.	.	.	.	3903
1.00 - 1.99	312	1970	1369	351	51	.	.	.	.	.	4053
2.00 - 2.99	.	273	888	208	68	2	.	.	.	.	1439
3.00 - 3.99	.	.	238	183	18	1	.	.	.	.	440
4.00 - 4.99	.	.	28	130	24	1	.	.	.	.	183
5.00 - 5.99	.	.	.	29	23	.	.	.	.	.	52
6.00 - 6.99	.	.	.	6	11	2	.	.	.	.	19
7.00 - 7.99	.	.	.	.	8	2	.	.	.	.	10
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	1	.	.	.	.	1
TOTAL	1800	3577	3359	1134	218	12	0	0	0	0	10100

STATION: 107 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1609	4	.	.	.	.	.	.	.	.	1613
1.00 - 1.99	311	149	4	.	.	.	.	.	.	.	464
2.00 - 2.99	.	22	40	2	.	.	.	.	.	.	64
3.00 - 3.99	.	.	1	5	.	.	.	.	.	.	6
4.00 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1920	175	45	7	0	0	0	0	0	0	2147

STATION: 107 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1532	1	.	.	.	.	.	.	.	.	1533
1.00 - 1.99	1418	1569	1	.	.	.	.	.	.	.	2988
2.00 - 2.99	.	722	1	.	.	.	.	.	.	.	723
3.00 - 3.99	.	75	20	.	.	.	.	.	.	.	95
4.00 - 4.99	.	.	2	.	.	.	.	.	.	.	2
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2950	2367	24	0	0	0	0	0	0	0	5341

STATION: 107 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	8700	4447	5746	2159	746	338	86	39	29	2	22292
1.00 - 1.99	3840	7795	4789	3058	898	202	82	34	17	2	20717
2.00 - 2.99	.	2450	2207	1136	713	176	13	5	7	.	6707
3.00 - 3.99	.	136	913	487	217	123	7	.	.	.	1883
4.00 - 4.99	.	.	172	320	92	27	7	.	.	.	618
5.00 - 5.99	.	.	3	114	79	8	9	.	.	.	213
6.00 - 6.99	.	.	.	24	35	14	4	.	.	.	77
7.00 - 7.99	.	.	.	3	27	12	2	.	.	.	44
8.00 - 8.99	.	.	.	.	6	9	1	.	.	.	16
9.00 - GREATER	.	.	.	.	7	20	6	.	.	.	33
TOTAL	12540	14828	13830	7301	2820	929	217	78	53	4	52600

STATION: 107

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	75	81	75	160	250	241	332	436	303	110	80	53	2196
2.50 - 4.99	691	642	843	1093	1555	1665	1879	1933	1492	1166	807	698	14464
5.00 - 7.49	641	673	738	902	1037	1038	1149	1137	1038	969	798	674	10794
7.50 - 9.99	1007	1016	1105	995	958	852	864	742	992	1245	1097	1121	11994
10.00 - 12.49	675	615	587	491	359	307	167	179	290	496	667	645	5478
12.50 - 14.99	720	568	585	401	222	181	67	26	173	345	537	700	4525
15.00 - 17.49	279	227	225	133	41	30	2	9	30	72	144	290	1482
17.50 - 19.99	221	131	188	121	36	6	4	2	2	49	124	177	1061
20.00 - GREATER	155	119	118	24	6	.	.	.	.	12	66	106	606
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.50 N, LONG: 66.50 W, DEPTH: 183 M

STATION: 107

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION WD(deg) BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	555	633	610	520	357	258	215	272	430	484	458	485	5277
22.50 - 67.49 (45.0)	311	343	456	568	455	253	95	209	305	321	316	309	3941
67.50 - 112.49 (90.0)	283	236	317	424	351	239	120	194	213	224	229	211	3041
112.50 - 157.49 (135.0)	264	251	260	379	430	303	196	246	201	386	253	289	3458
157.50 - 202.49 (180.0)	387	316	493	549	677	556	688	713	527	565	509	396	6376
202.50 - 247.49 (225.0)	516	531	636	641	984	1326	1539	1311	1110	850	695	599	10738
247.50 - 292.49 (270.0)	878	545	694	598	688	869	1058	875	844	904	839	905	9697
292.50 - 337.49 (315.0)	1270	1217	998	641	522	516	553	644	690	730	1021	1270	10072
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 107

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.94	2.01	2.03	1.12	1.99	1.43	1.20	1.06	0.92	1.36	1.43	1.87	1.53
1977	1.62	1.50	1.59	1.61	1.13	1.31	1.33	1.07	1.04	1.42	1.43	1.98	1.42
1978	2.29	1.23	1.78	1.43	1.39	1.54	1.07	0.93	1.07	1.26	1.30	1.60	1.41
1979	2.17	1.84	2.38	1.50	1.28	1.22	1.14	1.02	1.42	1.32	1.39	1.84	1.54
1980	2.17	1.35	1.99	1.49	0.98	1.32	1.18	0.90	1.26	1.49	1.95	1.60	1.47
1981	1.54	2.68	1.69	2.25	1.47	1.31	1.05	0.82	1.05	1.07	1.27	1.39	1.46
1982	1.56	1.37	1.18	1.57	0.69	0.91	0.89	0.92	0.81	0.86	1.31	1.32	1.11
1983	1.25	1.33	1.31	1.16	1.58	0.90	1.14	0.89	0.97	1.25	1.62	1.68	1.26
1984	1.28	1.75	2.01	1.89	1.69	1.24	1.41	0.69	0.97	0.96	1.27	1.30	1.37
1985	1.49	1.57	1.72	1.25	1.31	1.37	1.28	0.69	0.81	1.14	1.34	1.37	1.28
1986	2.26	1.28	1.85	1.44	1.28	1.32	0.95	0.93	0.95	1.19	1.53	1.64	1.39
1987	1.60	1.65	1.46	1.29	0.86	0.87	0.63	0.69	1.10	1.03	1.34	1.24	1.14
1988	1.40	1.61	1.48	1.53	1.06	1.13	0.97	0.87	0.99	1.41	1.59	1.48	1.29
1989	1.55	1.56	1.34	1.26	1.12	0.75	0.82	0.95	1.21	1.10	1.68	1.35	1.22
1990	1.62	1.87	1.47	1.45	1.21	1.29	1.01	0.65	0.77	1.47	1.44	1.62	1.32
1991	1.34	1.30	1.66	1.04	0.96	0.91	0.81	1.10	1.27	1.50	1.38	1.37	1.25
1992	1.38	1.45	1.48	0.86	0.68	0.83	0.70	0.79	0.81	0.92	0.93	1.32	1.01
1993	1.54	1.44	1.45	1.54	1.00	0.95	0.74	0.71	1.30	1.31	1.55	1.68	1.27
MEAN	1.67	1.60	1.66	1.43	1.20	1.15	1.02	0.87	1.04	1.23	1.43	1.54	

STATION: 107

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	661119	1071318	961319	36 818	731122	471122	33 920	29 821	26 723	551218	32 730	48 8 3	1071318
1977	62 9 3	541217	491023	551018	42 8 9	37 920	771220	30 821	43 918	491022	481019	47 918	771220
1978	1281418	60 9 5	561021	451118	771219	571119	31 821	36 819	37 822	501021	711119	37 921	1281418
1979	851418	41 8 8	1021319	811318	491020	46 921	27 717	27 822	541020	541022	50 922	471020	1021319
1980	1031419	48 923	721119	571019	46 920	36 921	31 821	29 821	411021	751222	601120	561018	1031419
1981	58 9 4	1411519	58 9 6	771321	41 8 4	481020	39 819	31 919	29 822	37 918	41 922	441218	1411519
1982	45 921	34 7 3	42 923	36 918	22 719	33 7 6	28 821	24 818	22 623	29 7 5	651119	42 921	651119
1983	38 823	45 8 4	33 7 5	301218	461019	29 819	43 922	29 721	451018	42 921	561018	681122	681122
1984	43 919	661119	61 9 6	601318	561021	491019	491119	20 719	33 821	34 821	46 920	49 922	661119
1985	38 732	591318	841218	511121	571122	541119	511120	22 6 3	50 921	35 923	36 822	49 920	841218
1986	911217	43 8 3	801219	38 8 8	58 9 4	591021	44 922	37 820	561121	37 921	56 9 3	58 9 2	911217
1987	53 9 5	6410 4	901218	1011318	27 819	35 920	23 721	26 720	33 7 5	30 724	49 919	32 7 3	1011318
1988	39 920	52 920	521018	43 8 3	34 8 3	38 820	24 620	25 721	35 820	37 8 5	37 919	43 920	521018
1989	47 920	41 819	49 918	761221	40 918	19 618	21 620	27 818	48 919	32 7 4	481018	39 820	761221
1990	43 921	491121	551220	38 819	35 918	41 920	26 819	251318	19 619	611120	38 8 3	491018	611120
1991	34 819	441022	37 8 6	32 822	30 721	32 821	23 623	47 921	30 819	56 9 4	38 725	46 919	56 9 4
1992	541021	47 9 3	46 921	26 7 6	19 621	18 918	17 618	22 622	32 820	24 723	32 719	36 822	541021
1993	511319	48 8 5	691120	591018	29 721	25 722	18 618	25 722	49 922	39 821	631018	691122	691122
MAX	1281418	1411519	1021319	1011318	771219	591021	771220	47 921	561121	751222	711119	691122	

MAX Hmo(m): 14.1 MAX Tp(sec): 15. MAX Dp(deg): 187. DATE(gmt): 81020300

MAX WIND SPEED(m/sec): 32. MAX WIND DIRECTION(deg): 135. DATE(gmt): 79012200

MEAN Hmo(m): 1.3 MEAN Tp(sec): 7.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 2.6

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.75 N, LONG: 66.25 W, DEPTH: 110 M
SUMMARY OF WAVE INFORMATION BY MONTH

STATION: 108

OCCURRENCES OF WAVE HEIGHT BY MONTH FOR ALL YEARS

Hmo(m)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 0.49	423	417	557	751	1167	1258	1403	1700	1247	802	537	451	10713
0.50 - 0.99	1014	957	1105	1327	1581	1587	1787	1655	1510	1506	1138	1030	16197
1.00 - 1.49	942	861	938	913	838	695	720	671	767	1004	1021	950	10320
1.50 - 1.99	871	826	769	670	500	402	317	283	463	638	758	906	7403
2.00 - 2.49	495	414	432	304	191	167	109	96	170	264	445	508	3595
2.50 - 2.99	372	330	320	192	105	93	63	46	91	131	247	344	2334
3.00 - 3.49	152	105	154	84	36	45	33	13	46	64	91	128	951
3.50 - 3.99	101	68	96	38	20	38	12	.	17	30	52	80	552
4.00 - 4.49	48	34	41	14	8	23	7	.	4	14	14	37	244
4.50 - 4.99	23	31	25	5	7	9	6	.	2	6	7	19	140
5.00 - 5.49	14	20	6	6	5	1	1	.	3	3	6	7	72
5.50 - 5.99	4	6	9	1	3	2	2	.	.	1	1	3	32
6.00 - 6.49	2	3	4	5	.	.	.	.	.	1	2	.	17
6.50 - 6.99	3	.	3	6	1	.	1	.	.	.	1	1	16
7.00 - 7.49	.	.	.	4	2	.	2	.	.	.	.	.	8
7.50 - 7.99	.	.	1	.	.	.	1	.	.	.	.	.	2
8.00 - 8.49	.	.	1	.	.	.	.	.	.	.	.	.	1
8.50 - 8.99	.	.	1	.	.	.	.	.	.	.	.	.	1
9.00 - 9.49	.	.	2	.	.	.	.	.	.	.	.	.	2
9.50 - 9.99	.	.	.	.	.	.	.	.	.	.	.	.	0
10.00 - GREATER	.	.	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 108

OCCURRENCES OF PEAK PERIOD BY MONTH FOR ALL YEARS

Tp(sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
3.0 - 3.9	522	455	601	750	1017	1047	1044	1305	1189	1029	632	542	10133
4.0 - 4.9	1066	876	988	1084	1173	1010	1002	1146	1124	1239	1111	1027	12846
5.0 - 5.9	1112	1077	1118	1092	905	720	817	850	922	1050	1115	1164	11942
6.0 - 6.9	883	831	860	628	564	597	613	511	477	581	810	952	8307
7.0 - 7.9	446	345	393	349	348	440	472	366	278	273	314	412	4436
8.0 - 8.9	187	209	165	136	239	307	332	176	173	150	181	165	2420
9.0 - 9.9	114	120	142	113	142	131	130	55	70	83	119	114	1333
10.0 - 10.9	75	102	97	90	56	49	40	21	28	40	28	61	687
11.0 - 11.9	36	38	85	51	18	19	9	13	21	8	10	27	335
12.0 - 12.9	17	16	11	16	2	.	3	3	7	3	.	.	78
13.0 - 13.9	6	1	2	10	.	.	2	5	13	3	.	.	42
14.0 - 14.9	.	2	2	1	.	.	.	3	3	2	.	.	13
15.0 - 15.9	.	.	.	.	.	.	.	2	.	1	.	.	3
16.0 - 16.9	.	.	.	.	.	.	.	3	4	2	.	.	9
17.0 - 17.9	.	.	.	.	.	.	.	.	3	.	.	.	3
18.0 - 18.9	.	.	.	.	.	.	.	1	.	.	.	.	1
19.0 - 19.9	.	.	.	.	.	.	.	2	.	.	.	.	2
20.0 - LONGER	.	.	.	.	.	.	.	2	8	.	.	.	10
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 108

OCCURRENCES OF PEAK DIRECTION BY MONTH FOR ALL YEARS

Dp(deg) DIRECTION BAND & CENTER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
348.75 - 11.24 (0.0)	320	357	372	268	183	118	102	152	250	298	278	300	2998
11.25 - 33.74 (22.5)	155	196	258	296	182	97	33	92	137	204	126	134	1910
33.75 - 56.24 (45.0)	144	153	222	274	225	123	29	77	135	130	144	164	1820
56.25 - 78.74 (67.5)	127	131	180	251	168	99	44	59	101	89	143	139	1531
78.75 - 101.24 (90.0)	165	112	142	192	129	90	40	68	52	101	95	82	1268
101.25 - 123.74 (112.5)	109	94	111	123	133	80	52	45	33	83	79	67	1009
123.75 - 146.24 (135.0)	93	95	99	139	110	85	44	66	60	179	107	149	1226
146.25 - 168.74 (157.5)	137	92	95	163	197	110	52	98	107	173	116	124	1464
168.75 - 191.24 (180.0)	218	155	285	302	364	223	329	321	242	323	295	222	3279
191.25 - 213.74 (202.5)	536	628	772	873	1330	1555	1852	1535	1045	758	661	597	12142
213.75 - 236.24 (225.0)	345	314	324	343	492	645	721	692	727	539	463	376	5981
236.25 - 258.74 (247.5)	199	134	145	152	238	305	350	363	328	294	195	203	2906
258.75 - 281.24 (270.0)	333	166	212	187	211	297	300	254	302	357	349	299	3267
281.25 - 303.74 (292.5)	466	332	440	248	165	198	242	232	296	392	367	503	3881
303.75 - 326.24 (315.0)	593	481	440	293	178	163	170	244	300	303	441	665	4271
326.25 - 348.74 (337.5)	524	632	367	216	159	132	104	166	205	241	461	440	3647
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.75 N, LONG: 66.25 W, DEPTH: 110 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 108 (337.50 - 22.49) 0.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2252	13	.	.	.	.	.	.	.	.	2265
1.00 - 1.99	431	1910	.	.	.	.	.	.	.	.	2341
2.00 - 2.99	.	790	126	.	.	.	.	.	.	.	916
3.00 - 3.99	.	.	214	.	.	.	.	.	.	.	214
4.00 - 4.99	.	.	32	.	.	.	.	.	.	.	32
5.00 - 5.99	.	.	1	2	.	.	.	.	.	.	3
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2683	2713	373	2	0	0	0	0	0	0	5771

STATION: 108 (22.50 - 67.49) 45.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1266	26	.	.	.	.	.	.	.	.	1292
1.00 - 1.99	113	1220	.	.	.	.	.	.	.	.	1333
2.00 - 2.99	.	523	108	.	.	.	.	.	.	.	631
3.00 - 3.99	.	.	206	.	.	.	.	.	.	.	206
4.00 - 4.99	.	.	44	.	.	.	.	.	.	.	44
5.00 - 5.99	.	.	4	5	.	.	.	.	.	.	9
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1379	1769	362	5	0	0	0	0	0	0	3515

STATION: 108 (67.50 - 112.49) 90.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1131	4	.	.	.	.	.	.	.	.	1135
1.00 - 1.99	453	549	.	.	.	.	.	.	.	.	1002
2.00 - 2.99	.	248	7	.	.	.	.	.	.	.	255
3.00 - 3.99	.	16	28	.	.	.	.	.	.	.	44
4.00 - 4.99	.	.	12	.	.	.	.	.	.	.	12
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1584	817	47	0	0	0	0	0	0	0	2448

STATION: 108 (112.50 - 157.49) 135.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	1211	2	.	.	.	.	.	.	.	.	1213
1.00 - 1.99	489	505	.	.	.	.	.	.	.	.	994
2.00 - 2.99	.	192	.	.	.	.	.	.	.	.	192
3.00 - 3.99	.	24	13	.	.	.	.	.	.	.	37
4.00 - 4.99	.	.	7	.	.	.	.	.	.	.	7
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1700	723	20	0	0	0	0	0	0	0	2443

STATION: 108 (157.50 - 202.49) 180.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2559	311	585	194	.	.	.	.	.	.	3649
1.00 - 1.99	623	2247	23	.	.	.	.	.	.	.	2893
2.00 - 2.99	.	635	177	4	.	.	.	.	.	.	816
3.00 - 3.99	.	4	131	40	.	.	.	.	.	.	175
4.00 - 4.99	.	.	31	24	5	.	.	.	.	.	60
5.00 - 5.99	.	.	12	14	4	1	.	.	.	.	31
6.00 - 6.99	.	.	.	2	5	7	.	.	.	.	14
7.00 - 7.99	.	.	.	.	2	3	.	.	.	.	5
8.00 - 8.99	.	.	.	.	.	1	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	2	.	.	.	.	2
TOTAL	3182	3197	959	278	16	14	0	0	0	0	7646

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.75 N, LONG: 66.25 W, DEPTH: 110 M
OCCURRENCES OF WAVE HEIGHT AND PEAK PERIOD FOR 45-DEG DIRECTION BANDS

STATION: 108 (202.50 - 247.49) 225.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3538	2358	2782	1153	271	33	9	4	12	.	10160
1.00 - 1.99	427	2861	316	221	52	1	.	.	.	.	3878
2.00 - 2.99	.	370	977	23	3	2	.	.	.	.	1375
3.00 - 3.99	.	.	301	179	4	.	.	.	.	.	484
4.00 - 4.99	.	.	24	113	30	.	.	.	.	.	167
5.00 - 5.99	.	.	1	31	20	.	.	.	.	.	52
6.00 - 6.99	.	.	.	8	8	3	.	.	.	.	19
7.00 - 7.99	.	.	.	.	5	.	.	.	.	.	5
8.00 - 8.99	.	.	.	.	1	.	.	.	.	.	1
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3965	5589	4401	1728	394	39	9	4	12	0	16141

STATION: 108 (247.50 - 292.49) 270.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	3851	60	3	5	3	2	3	.	.	.	3927
1.00 - 1.99	1363	395	9	.	.	.	.	.	.	.	1767
2.00 - 2.99	.	126	31	.	.	.	.	.	.	.	157
3.00 - 3.99	.	4	1	1	.	.	.	.	.	.	6
4.00 - 4.99	.	.	.	1	.	.	.	.	.	.	1
5.00 - 5.99	.	.	.	.	.	.	.	.	.	.	0
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5214	585	44	7	3	2	3	0	0	0	5858

STATION: 108 (292.50 - 337.49) 315.0 DEG

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	2911	358	.	.	.	.	.	.	.	.	3269
1.00 - 1.99	361	3151	3	.	.	.	.	.	.	.	3515
2.00 - 2.99	.	1347	240	.	.	.	.	.	.	.	1587
3.00 - 3.99	.	.	337	.	.	.	.	.	.	.	337
4.00 - 4.99	.	.	61	.	.	.	.	.	.	.	61
5.00 - 5.99	.	.	9	.	.	.	.	.	.	.	9
6.00 - 6.99	.	.	.	.	.	.	.	.	.	.	0
7.00 - 7.99	.	.	.	.	.	.	.	.	.	.	0
8.00 - 8.99	.	.	.	.	.	.	.	.	.	.	0
9.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3272	4856	650	0	0	0	0	0	0	0	8778

STATION: 108 ALL DIRECTIONS

Hmo(m) \ Tp(sec)	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-LONGER	TOTAL
0.00 - 0.99	18719	3132	3370	1352	274	35	12	4	12	.	26910
1.00 - 1.99	4260	12838	351	221	52	1	.	.	.	.	17723
2.00 - 2.99	.	4231	1666	27	3	2	.	.	.	.	5929
3.00 - 3.99	.	48	1231	220	4	.	.	.	.	.	1503
4.00 - 4.99	.	.	211	138	35	1	.	.	.	.	384
5.00 - 5.99	.	.	27	52	24	1	.	.	.	.	104
6.00 - 6.99	.	.	.	10	13	10	.	.	.	.	33
7.00 - 7.99	.	.	.	.	7	3	.	.	.	.	10
8.00 - 8.99	.	.	.	.	1	1	.	.	.	.	2
9.00 - GREATER	.	.	.	.	.	2	.	.	.	.	2
TOTAL	22979	20249	6856	2020	413	55	12	4	12	0	52600

STATION: 108

OCCURRENCES OF WIND SPEED BY MONTH FOR ALL YEARS

WS(m/sec)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0.00 - 2.49	80	97	93	193	289	284	355	470	340	143	109	71	2524
2.50 - 4.99	704	656	845	1076	1502	1612	1797	1854	1411	1144	791	698	14090
5.00 - 7.49	635	680	726	860	1034	1010	1128	1140	1026	918	782	653	10592
7.50 - 9.99	1007	987	1082	1011	964	862	906	764	1004	1255	1087	1126	12055
10.00 - 12.49	671	599	602	481	358	315	196	190	315	491	669	626	5513
12.50 - 14.99	714	571	571	415	224	193	74	34	189	373	528	720	4606
15.00 - 17.49	274	238	235	134	51	38	4	11	31	74	155	279	1524
17.50 - 19.99	221	129	198	119	34	6	4	1	4	53	129	185	1083
20.00 - GREATER	158	115	112	31	8	.	.	.	.	13	70	106	613
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

WIS ATLANTIC UPDATE -- WITH HURRICANES 1976 - 1993
LAT: 44.75 N, LONG: 66.25 W, DEPTH: 110 M

STATION: 108

OCCURRENCES OF WIND DIRECTION BY MONTH FOR ALL YEARS

DIRECTION BAND & CENTER WD(deg)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
337.50 - 22.49 (0.0)	529	635	590	502	364	259	209	281	414	500	441	492	5216
22.50 - 67.49 (45.0)	309	328	457	593	450	256	98	204	306	298	315	297	3911
67.50 - 112.49 (90.0)	279	240	325	416	361	244	112	179	192	210	219	207	2984
112.50 - 157.49 (135.0)	262	247	265	392	391	290	196	233	201	381	248	289	3395
157.50 - 202.49 (180.0)	378	319	496	544	684	551	677	709	511	555	503	397	6324
202.50 - 247.49 (225.0)	533	539	626	654	1009	1340	1555	1348	1139	868	704	604	10919
247.50 - 292.49 (270.0)	895	583	718	597	698	883	1051	878	858	952	864	924	9901
292.50 - 337.49 (315.0)	1279	1181	987	622	507	497	566	632	699	700	1026	1254	9950
TOTAL	4464	4072	4464	4320	4464	4320	4464	4464	4320	4464	4320	4464	52600

STATION: 108

SUMMARY OF MEAN Hmo(m) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1976	1.67	1.66	1.88	1.04	1.35	1.25	0.93	0.89	0.75	1.20	1.37	1.89	1.32
1977	1.53	1.35	1.51	1.44	1.14	1.06	1.24	0.93	0.94	1.19	1.21	1.78	1.28
1978	1.72	1.38	1.70	1.32	0.98	1.30	0.95	0.80	1.05	1.12	1.23	1.52	1.26
1979	1.83	2.05	1.73	1.13	1.07	1.07	0.83	0.87	1.25	1.18	1.18	1.82	1.33
1980	1.98	1.42	1.68	1.10	0.78	1.01	0.86	0.71	1.13	1.29	2.02	1.58	1.30
1981	1.57	1.86	1.45	2.04	1.21	1.08	0.81	0.67	0.82	0.89	1.17	1.14	1.22
1982	1.43	1.28	0.95	1.38	0.62	0.67	0.77	0.69	0.63	0.77	1.11	1.20	0.96
1983	1.12	1.25	1.17	0.81	1.19	0.62	1.01	0.77	0.80	1.16	1.46	1.55	1.08
1984	1.13	1.37	1.82	1.50	1.23	0.91	1.08	0.57	1.01	0.93	1.25	1.20	1.17
1985	1.76	1.43	1.61	1.20	1.04	1.03	1.03	0.63	0.74	1.20	1.30	1.34	1.19
1986	1.85	1.41	1.47	1.20	1.05	1.17	0.82	0.74	0.85	1.16	1.50	1.54	1.23
1987	1.66	2.05	1.33	0.98	0.74	0.72	0.54	0.60	1.03	0.93	1.29	1.39	1.10
1988	1.34	1.33	1.28	1.33	0.83	0.88	0.63	0.73	0.91	1.31	1.52	1.52	1.13
1989	1.52	1.41	1.22	1.02	0.82	0.57	0.62	0.83	0.87	1.02	1.51	1.56	1.08
1990	1.38	1.66	1.33	1.12	1.01	0.93	0.76	0.50	0.70	1.26	1.44	1.49	1.13
1991	1.35	1.13	1.40	0.85	0.87	0.85	0.65	0.88	1.05	1.23	1.32	1.35	1.08
1992	1.32	1.38	1.20	0.77	0.50	0.60	0.52	0.58	0.72	0.76	0.73	1.23	0.86
1993	1.23	1.16	1.26	1.09	0.72	0.81	0.59	0.52	1.05	1.09	1.22	1.34	1.00
MEAN	1.52	1.48	1.44	1.18	0.95	0.92	0.81	0.72	0.91	1.09	1.32	1.47	

STATION: 108

MAX Hmo(m)*10 WITH ASSOCIATED Tp(sec) AND Dp(deg/10) BY MONTH AND YEAR

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MAX
1976	43 921	621021	941320	27 735	731221	491122	35 920	30 821	27 722	38 713	47 831	50 831	941320
1977	53 9 5	44 712	501023	441123	39 821	38 920	791219	32 821	36 825	521022	31 6 9	50 831	791219
1978	681222	52 8 6	541020	31 7 5	36 718	49 922	32 821	31 823	39 825	46 921	661120	30 611	681222
1979	651319	49 833	48 820	32 717	511020	48 921	21 634	27 722	40 822	49 923	34 723	501020	651319
1980	571021	501023	41 831	33 7 6	27 619	36 922	33 821	30 821	421021	611023	611119	44 834	611119
1981	49 8 4	621222	45 834	741221	34 7 4	40 823	30 822	19 6 5	30 822	32 820	40 824	32 822	741221
1982	34 823	31 730	42 922	32 921	19 621	28 7 5	29 821	22 724	24 722	23 6 4	32 720	40 921	42 922
1983	40 823	37 7 4	30 922	30 7 3	36 820	19 519	46 922	31 820	37 820	40 923	32 730	661024	661024
1984	31 7 2	34 719	52 9 6	38 7 3	561020	34 820	37 920	17 623	35 921	36 821	39 822	511021	561020
1985	52 832	40 822	43 921	44 832	551121	32 7 7	531220	19 6 4	38 822	35 821	35 734	49 920	551121
1986	551020	36 7 3	601121	34 820	49 8 4	591021	48 922	26 721	531121	39 921	47 8 3	48 8 3	601121
1987	44 8 4	54 9 4	41 717	41 716	25 723	34 920	25 820	22 721	30 822	28 821	37 7 4	38 7 0	54 9 4
1988	34 822	511020	32 821	36 7 3	30 7 3	39 821	18 520	25 721	32 821	37 921	32 735	36 821	511020
1989	47 920	31 921	31 721	621022	32 822	18 5 8	20 632	22 631	391021	26 6 4	46 921	35 730	621022
1990	38 822	481121	561121	34 920	23 622	42 920	24 720	20 720	21 635	43 824	32 730	33 820	561121
1991	36 732	461021	31 7 6	33 822	31 721	35 821	23 623	32 821	27 822	41 8 5	32 820	35 821	461021
1992	46 923	39 8 3	38 922	21 6 5	21 622	15 524	19 622	19 622	25 721	23 723	25 619	41 832	46 923
1993	451022	39 8 7	681120	31 718	30 721	27 635	14 518	24 723	50 922	38 821	37 823	591022	681120
MAX	681222	621222	941320	741221	731221	591021	791219	32 821	531121	611023	661120	661024	

MAX Hmo(m): 9.4 MAX Tp(sec): 13. MAX Dp(deg): 198. DATE(gmt): 76032118

MAX WIND SPEED(m/sec): 33. MAX WIND DIRECTION(deg): 130. DATE(gmt): 79012200

MEAN Hmo(m): 1.1 MEAN Tp(sec): 5.

STANDARD DEVIATION Hmo(m): 0.9 STANDARD DEVIATION Tp(sec): 1.8

Appendix B
Return Period Tables

WIS ATLANTIC UPDATE -- WITH HURRICANES

STATION 1 (24.50N, 81.25W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.61	5.29	5.77	6.23	6.37	6.83
TYPE II	4.48	5.42	6.20	7.07	7.37	8.38

STATION 2 (24.50N, 81.00W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.67	5.30	5.74	6.17	6.30	6.72
TYPE II	4.59	5.49	6.23	7.05	7.33	8.27

STATION 3 (24.50N, 80.75W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.81	5.37	5.76	6.14	6.27	6.64
TYPE II	4.77	5.49	6.07	6.69	6.90	7.59

STATION 4 (24.75N, 80.50W) DEPTH: 165 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.85	5.38	5.75	6.12	6.23	6.59
TYPE II	4.81	5.49	6.04	6.62	6.81	7.46

STATION 5 (25.00N, 80.25W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.83	5.24	5.52	5.79	5.88	6.15
TYPE II	4.82	5.33	5.72	6.12	6.26	6.70

STATION 6 (25.25N, 80.00W) DEPTH: 275 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.40	5.96	6.34	6.72	6.84	7.21
TYPE II	5.40	6.10	6.64	7.22	7.41	8.05

STATION 7 (25.50N, 80.00W) DEPTH: 366 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.42	6.03	6.45	6.85	6.98	7.39
TYPE II	5.45	6.16	6.73	7.33	7.53	8.19

STATION 8 (25.75N, 80.00W) DEPTH: 366 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.21	5.92	6.41	6.88	7.04	7.50
TYPE II	5.18	6.09	6.82	7.62	7.89	8.80

STATION 9 (26.00N, 80.00W) DEPTH: 220 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.31	5.98	6.44	6.89	7.04	7.48
TYPE II	5.37	6.14	6.75	7.41	7.63	8.36

WIS ATLANTIC UPDATE -- WITH HURRICANES

STATION 10 (26.25N, 80.00W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.21	5.87	6.32	6.77	6.91	7.34
TYPE II	5.25	6.02	6.63	7.28	7.50	8.22

STATION 11 (26.50N, 80.00W) DEPTH: 90 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.06	5.62	6.00	6.38	6.50	6.87
TYPE II	5.13	5.81	6.34	6.91	7.10	7.72

STATION 12 (26.75N, 80.00W) DEPTH: 45 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.00	5.44	5.75	6.05	6.14	6.44
TYPE II	5.03	5.55	5.95	6.36	6.50	6.95

STATION 13 (27.00N, 80.00W) DEPTH: 45 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.27	5.77	6.12	6.46	6.57	6.90
TYPE II	5.29	5.94	6.46	7.01	7.19	7.79

STATION 14 (27.25N, 80.00W) DEPTH: 55 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.42	5.88	6.20	6.50	6.60	6.91
TYPE II	5.40	6.04	6.55	7.09	7.27	7.86

STATION 15 (27.50N, 80.00W) DEPTH: 55 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.78	6.44	6.90	7.35	7.49	7.93
TYPE II	5.76	6.70	7.46	8.28	8.56	9.50

STATION 16 (27.75N, 80.00W) DEPTH: 45 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.77	6.39	6.82	7.24	7.38	7.79
TYPE II	5.77	6.65	7.36	8.12	8.38	9.24

STATION 17 (28.00N, 80.25W) DEPTH: 24 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.51	6.29	6.83	7.36	7.53	8.04
TYPE II	5.41	6.45	7.29	8.23	8.55	9.62

STATION 18 (28.25N, 80.25W) DEPTH: 22 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.65	6.46	7.02	7.57	7.75	8.29
TYPE II	5.55	6.62	7.50	8.46	8.79	9.90

WIS ATLANTIC UPDATE -- WITH HURRICANES

STATION 19 (28.50N, 80.25W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.66	6.38	6.87	7.36	7.51	7.99
TYPE II	5.57	6.53	7.31	8.16	8.45	9.41

STATION 20 (28.75N, 80.25W) DEPTH: 36 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.90	6.60	7.09	7.56	7.71	8.18
TYPE II	5.80	6.75	7.52	8.34	8.62	9.55

STATION 21 (29.00N, 80.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.67	6.45	6.99	7.51	7.68	8.19
TYPE II	5.56	6.60	7.44	8.37	8.69	9.75

STATION 22 (29.25N, 80.75W) DEPTH: 22 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.74	6.54	7.10	7.63	7.81	8.34
TYPE II	5.67	6.71	7.56	8.49	8.81	9.88

STATION 23 (29.50N, 81.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.50	6.25	6.77	7.28	7.44	7.94
TYPE II	5.44	6.42	7.21	8.07	8.37	9.35

STATION 24 (29.75N, 81.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.72	6.56	7.14	7.71	7.89	8.44
TYPE II	5.65	6.74	7.63	8.61	8.95	10.08

STATION 25 (30.00N, 81.00W) DEPTH: 20 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.87	6.64	7.18	7.69	7.86	8.37
TYPE II	5.87	6.80	7.54	8.34	8.61	9.51

STATION 26 (30.25N, 81.25W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.95	5.42	5.74	6.05	6.15	6.46
TYPE II	4.98	5.51	5.91	6.33	6.47	6.92

STATION 27 (30.50N, 81.25W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.25	5.99	6.51	7.01	7.17	7.66
TYPE II	5.14	6.17	7.01	7.95	8.28	9.37

STATION 28 (30.75N, 81.25W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.97	5.73	6.25	6.77	6.93	7.43
TYPE II	4.87	5.88	6.71	7.63	7.95	9.03

STATION 29 (31.00N, 81.25W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.52	5.14	5.57	5.99	6.12	6.53
TYPE II	4.61	5.37	6.00	6.67	6.91	7.68

STATION 30 (31.25N, 81.00W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.03	5.79	6.32	6.83	7.00	7.51
TYPE II	4.93	5.94	6.77	7.69	8.01	9.08

STATION 31 (31.50N, 81.00W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.54	5.12	5.53	5.93	6.05	6.44
TYPE II	4.52	5.25	5.83	6.47	6.68	7.40

STATION 32 (31.75N, 80.75W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.98	5.73	6.25	6.76	6.92	7.42
TYPE II	4.87	5.87	6.70	7.61	7.93	9.00

STATION 33 (32.00N, 80.50W) DEPTH: 13 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.98	5.67	6.15	6.61	6.76	7.21
TYPE II	4.88	5.80	6.55	7.37	7.65	8.60

STATION 34 (32.25N, 80.25W) DEPTH: 13 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.53	6.10	6.49	6.88	7.00	7.38
TYPE II	5.54	6.19	6.70	7.24	7.42	8.00

STATION 35 (32.50N, 80.00W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.50	5.04	5.42	5.79	5.90	6.26
TYPE II	4.45	5.16	5.72	6.33	6.53	7.22

STATION 36 (32.75N, 79.50W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.88	5.70	6.27	6.83	7.01	7.55
TYPE II	4.77	5.84	6.74	7.74	8.09	9.28

STATION 37 (33.00N, 79.00W) DEPTH: 20 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.56	6.38	6.94	7.49	7.67	8.21
TYPE II	5.45	6.50	7.37	8.32	8.65	9.74

STATION 38 (33.25N, 79.00W) DEPTH: 5 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	3.20	3.20	3.20	3.20	3.20	3.20
TYPE II	3.20	3.20	3.20	3.20	3.20	3.20

STATION 39 (33.50N, 78.75W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.86	5.66	6.22	6.76	6.93	7.46
TYPE II	4.72	5.80	6.70	7.72	8.07	9.28

STATION 40 (33.75N, 78.50W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	4.56	5.13	5.52	5.90	6.02	6.39
TYPE II	4.56	5.24	5.78	6.36	6.56	7.21

STATION 41 (33.75N, 78.00W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.05	5.50	5.81	6.11	6.21	6.51
TYPE II	5.10	5.58	5.94	6.32	6.44	6.85

STATION 42 (34.00N, 77.75W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.26	5.67	5.95	6.23	6.32	6.59
TYPE II	5.46	5.68	5.84	6.00	6.05	6.21

STATION 43 (34.25N, 77.50W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.47	6.46	7.16	7.83	8.04	8.71
TYPE II	5.29	6.62	7.75	9.04	9.49	11.04

STATION 44 (34.25N, 77.25W) DEPTH: 22 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.87	6.94	7.69	8.42	8.65	9.36
TYPE II	5.67	7.10	8.31	9.70	10.19	11.85

STATION 45 (34.25N, 77.00W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.20	7.28	8.02	8.75	8.98	9.70
TYPE II	5.99	7.44	8.66	10.04	10.52	12.17

STATION 46 (34.50N, 76.75W) DEPTH: 20 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.99	6.78	7.33	7.87	8.04	8.56
TYPE II	5.89	6.93	7.77	8.68	9.00	10.04

STATION 47 (34.50N, 76.50W) DEPTH: 9 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.52	5.73	5.87	6.02	6.06	6.20
TYPE II	5.68	5.70	5.72	5.74	5.74	5.76

STATION 48 (34.75N, 76.25W) DEPTH: 22 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.32	7.50	8.31	9.10	9.36	10.14
TYPE II	6.06	7.55	8.82	10.27	10.77	12.50

STATION 49 (34.75N, 76.00W) DEPTH: 35 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.16	8.50	9.44	10.34	10.63	11.52
TYPE II	6.85	8.60	10.09	11.79	12.39	14.45

STATION 50 (35.00N, 75.75W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.73	7.96	8.81	9.64	9.91	10.72
TYPE II	6.45	8.10	9.50	11.10	11.66	13.59

STATION 51 (35.00N, 75.50W) DEPTH: 35 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.97	9.39	10.38	11.33	11.64	12.58
TYPE II	7.65	9.47	11.00	12.74	13.34	15.41

STATION 52 (35.25N, 75.25W) DEPTH: 22 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.67	9.14	10.15	11.14	11.46	12.43
TYPE II	7.34	9.29	10.95	12.86	13.54	15.86

STATION 53 (35.50N, 75.25W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.13	9.55	10.54	11.51	11.81	12.76
TYPE II	7.87	9.77	11.37	13.19	13.83	16.00

STATION 54 (35.75N, 75.25W) DEPTH: 29 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.07	9.47	10.45	11.39	11.69	12.63
TYPE II	8.32	10.32	12.04	14.01	14.70	17.07

STATION 55 (36.00N, 75.25W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.98	9.26	10.15	11.02	11.29	12.14
TYPE II	8.23	9.99	11.48	13.15	13.73	15.71

STATION 56 (36.25N, 75.50W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.87	7.91	8.64	9.34	9.57	10.26
TYPE II	6.89	8.27	9.42	10.69	11.13	12.62

STATION 57 (36.50N, 75.75W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.96	6.77	7.34	7.89	8.07	8.61
TYPE II	5.89	7.06	8.02	9.09	9.46	10.70

STATION 58 (36.75N, 75.75W) DEPTH: 11 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.06	6.63	7.03	7.41	7.54	7.91
TYPE II	6.29	6.78	7.15	7.54	7.67	8.07

STATION 59 (37.00N, 75.75W) DEPTH: 14 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.87	6.67	7.22	7.76	7.93	8.46
TYPE II	5.87	6.98	7.90	8.90	9.25	10.41

STATION 60 (37.25N, 75.50W) DEPTH: 24 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.55	7.46	8.10	8.72	8.92	9.53
TYPE II	6.51	7.78	8.83	9.99	10.39	11.74

STATION 61 (37.50N, 75.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.96	6.64	7.11	7.56	7.71	8.16
TYPE II	5.96	6.88	7.61	8.40	8.67	9.55

STATION 62 (37.75N, 75.25W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.31	7.04	7.54	8.04	8.19	8.68
TYPE II	6.28	7.30	8.12	9.01	9.31	10.32

STATION 63 (38.00N, 75.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.42	7.20	7.73	8.26	8.42	8.94
TYPE II	6.33	7.31	8.10	8.94	9.23	10.17

STATION 64 (38.25N, 75.00W) DEPTH: 16 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.31	6.96	7.42	7.86	8.00	8.44
TYPE II	6.38	7.19	7.84	8.52	8.75	9.51

STATION 65 (38.50N, 75.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.99	6.52	6.90	7.26	7.38	7.74
TYPE II	6.01	6.71	7.25	7.82	8.01	8.63

STATION 66 (38.75N, 75.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.25	5.67	5.96	6.25	6.34	6.62
TYPE II	5.30	5.82	6.21	6.63	6.77	7.21

STATION 67 (39.00N, 74.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.13	6.81	7.28	7.74	7.88	8.33
TYPE II	6.13	7.00	7.70	8.44	8.69	9.52

STATION 68 (39.25N, 74.25W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.24	6.87	7.31	7.73	7.87	8.28
TYPE II	6.28	7.07	7.70	8.36	8.58	9.30

STATION 69 (39.50N, 74.00W) DEPTH: 22 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.57	7.18	7.60	8.01	8.15	8.55
TYPE II	6.60	7.39	8.01	8.67	8.89	9.60

STATION 70 (39.75N, 74.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.47	7.06	7.47	7.86	7.99	8.38
TYPE II	6.42	7.18	7.77	8.38	8.59	9.27

STATION 71 (40.00N, 74.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.20	6.69	7.02	7.35	7.45	7.78
TYPE II	6.27	6.85	7.29	7.75	7.90	8.39

STATION 72 (40.25N, 73.75W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.55	7.14	7.56	7.96	8.08	8.48
TYPE II	6.58	7.31	7.87	8.47	8.67	9.31

STATION 73 (40.50N, 73.75W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.89	6.41	6.78	7.13	7.24	7.59
TYPE II	5.93	6.54	7.02	7.51	7.68	8.21

STATION 74 (40.50N, 73.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.08	6.66	7.06	7.45	7.58	7.96
TYPE II	6.10	6.81	7.35	7.92	8.11	8.73

STATION 75 (40.50N, 73.25W) DEPTH: 24 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.66	7.27	7.69	8.09	8.22	8.62
TYPE II	6.63	7.39	7.99	8.61	8.82	9.50

STATION 76 (40.50N, 73.00W) DEPTH: 31 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.14	7.77	8.20	8.63	8.76	9.18
TYPE II	7.10	7.89	8.50	9.14	9.35	10.04

STATION 77 (40.50N, 72.75W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.48	8.11	8.55	8.97	9.11	9.53
TYPE II	7.52	8.29	8.88	9.49	9.70	10.36

STATION 78 (40.75N, 72.50W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.00	7.59	8.01	8.41	8.54	8.93
TYPE II	6.98	7.72	8.29	8.89	9.09	9.73

STATION 79 (40.75N, 72.25W) DEPTH: 38 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.60	8.25	8.70	9.14	9.28	9.71
TYPE II	7.66	8.43	9.03	9.65	9.86	10.53

STATION 80 (40.75N, 72.00W) DEPTH: 38 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.70	8.32	8.74	9.16	9.29	9.70
TYPE II	7.73	8.45	9.00	9.56	9.75	10.36

STATION 81 (41.00N, 71.75W) DEPTH: 36 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.51	8.06	8.45	8.82	8.94	9.31
TYPE II	7.65	8.19	8.60	9.02	9.15	9.59

STATION 82 (41.00N, 71.50W) DEPTH: 46 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.94	8.56	8.99	9.41	9.54	9.95
TYPE II	8.10	8.69	9.13	9.58	9.73	10.20

STATION 83 (41.25N, 71.25W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.61	7.19	7.60	7.99	8.11	8.50
TYPE II	6.70	7.29	7.73	8.19	8.35	8.84

STATION 84 (41.25N, 71.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.66	7.23	7.63	8.02	8.14	8.52
TYPE II	6.70	7.33	7.80	8.30	8.46	8.99

STATION 85 (41.25N, 70.75W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.62	7.22	7.64	8.04	8.17	8.57
TYPE II	6.65	7.33	7.85	8.40	8.58	9.17

STATION 86 (41.25N, 70.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.58	7.26	7.73	8.19	8.33	8.78
TYPE II	6.63	7.38	7.95	8.56	8.76	9.41

STATION 87 (41.25N, 70.25W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.35	7.01	7.47	7.92	8.06	8.50
TYPE II	6.33	7.13	7.74	8.40	8.62	9.33

STATION 88 (41.00N, 70.00W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.28	8.03	8.55	9.06	9.22	9.71
TYPE II	7.22	8.15	8.88	9.65	9.91	10.75

STATION 89 (41.25N, 69.75W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.83	8.61	9.15	9.68	9.85	10.37
TYPE II	7.72	8.81	9.66	10.58	10.89	11.91

STATION 90 (41.50N, 69.75W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.75	8.59	9.18	9.75	9.94	10.50
TYPE II	7.64	8.82	9.78	10.80	11.15	12.30

STATION 91 (41.75N, 69.75W) DEPTH: 91 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	9.86	11.06	11.89	12.70	12.96	13.76
TYPE II	9.74	11.26	12.47	13.78	14.23	15.69

STATION 92 (42.00N, 69.75W) DEPTH: 137 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	10.23	11.68	12.68	13.66	13.97	14.94
TYPE II	10.08	11.94	13.45	15.10	15.67	17.56

STATION 93 (42.00N, 70.50W) DEPTH: 18 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	5.73	6.38	6.84	7.28	7.42	7.86
TYPE II	5.66	6.51	7.18	7.90	8.14	8.95

STATION 94 (42.25N, 70.50W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.59	8.78	9.60	10.41	10.66	11.45
TYPE II	7.41	8.98	10.29	11.74	12.24	13.94

STATION 95 (42.50N, 70.50W) DEPTH: 55 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.40	9.56	10.36	11.15	11.40	12.17
TYPE II	8.36	9.77	10.90	12.12	12.54	13.93

STATION 96 (42.75N, 70.50W) DEPTH: 55 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.43	9.59	10.40	11.18	11.43	12.20
TYPE II	9.20	10.55	11.64	12.83	13.23	14.57

STATION 97 (43.00N, 70.50W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.09	9.26	10.08	10.87	11.12	11.90
TYPE II	8.97	10.27	11.32	12.46	12.85	14.14

STATION 98 (43.25N, 70.50W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.47	8.62	9.42	10.20	10.45	11.21
TYPE II	8.39	9.55	10.50	11.51	11.86	13.00

STATION 99 (43.50N, 70.25W) DEPTH: 18 Meters *** POSSIBLY DEPTH-LIMITED ***

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	7.38	8.38	9.07	9.74	9.95	10.61
TYPE II	7.58	8.80	9.78	10.85	11.22	12.43

STATION 100 (43.50N, 69.75W) DEPTH: 110 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	10.06	11.54	12.58	13.58	13.90	14.89
TYPE II	10.25	12.00	13.42	14.98	15.51	17.27

STATION 101 (43.75N, 69.50W) DEPTH: 27 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.22	9.38	10.19	10.98	11.23	12.01
TYPE II	8.80	10.26	11.47	12.80	13.26	14.78

STATION 102 (43.75N, 69.00W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.56	9.72	10.52	11.30	11.55	12.32
TYPE II	9.07	10.65	11.97	13.42	13.92	15.59

STATION 103 (44.00N, 68.50W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.50	9.59	10.34	11.07	11.31	12.03
TYPE II	8.92	10.49	11.80	13.24	13.74	15.40

STATION 104 (44.25N, 68.00W) DEPTH: 37 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	8.55	9.56	10.27	10.96	11.18	11.85
TYPE II	8.99	10.35	11.45	12.65	13.05	14.41

STATION 105 (44.25N, 67.50W) DEPTH: 91 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	9.81	11.15	12.08	12.98	13.27	14.15
TYPE II	10.42	12.21	13.70	15.34	15.90	17.79

STATION 106 (44.25N, 66.75W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	9.76	11.29	12.35	13.38	13.71	14.72
TYPE II	9.45	11.56	13.33	15.31	16.01	18.35

STATION 107 (44.50N, 66.50W) DEPTH: 183 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	9.41	11.11	12.29	13.44	13.81	14.93
TYPE II	9.22	11.38	13.20	15.25	15.96	18.40

STATION 108 (44.75N, 66.25W) DEPTH: 110 Meters

	RETURN PERIOD (Years)					
	2	5	10	20	25	50
TYPE I	6.58	7.30	7.80	8.28	8.44	8.92
TYPE II	6.50	7.40	8.11	8.86	9.12	9.95

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13. ABSTRACT *(Maximum 200 words)*

Eighteen years (1976-1993) of hindcast wind and wave information, including hurricanes, is summarized for 108 nearshore locations along the U.S. Atlantic coast. Procedures used to produce this information are discussed and examples of verification against measured data are presented. Tables for each station summarize occurrences by month of spectral wave height, peak wave period, peak mean wave direction, wind speed and wind direction for categories of 0.5 m, 1.0 sec, 22.5 deg, 2.5 m/sec, and 45 deg, respectively. Joint occurrences of height and period for 45-deg direction bands and all directions are tabulated. Finally, mean heights by month and year and maximum heights by month and year, with associated peak periods and peak mean directions, and overall statistics are shown. The 18-year time series of wind and wave information for each station, including spectra, is available from the WIS archive as one-line records every 3 hr. The data tabulation presented in this report is a continuation of the wave information summarized in WIS Report 30.

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