

RD-A150 378

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

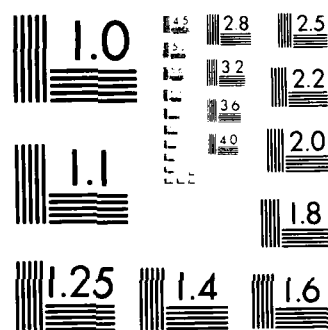
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

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AD-A150 378

DTIC ACCESSION NUMBER

SMOS, China Lake, Ca.

DOCUMENT IDENTIFICATION

Aug 1984

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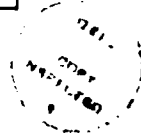
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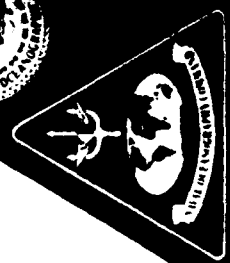
# SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

611 100

|          |        |                |             |
|----------|--------|----------------|-------------|
| JOB NO.  | 72006  | DATE           | August 1984 |
| STATION: | #93104 | China Lake, CA |             |
| PERIOD:  | HOURLY | 1/73-12/82     |             |
|          | DAILY  | 4/45-12/92     |             |

PREPARED BY  
NAVAL OCEANOGRAPHY  
COMMAND DETACHMENT,  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

PREPARED FOR  
COMMANDER,  
NAVAL OCEANOGRAPHY  
COMMAND  
NSTL MS 39529



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| REPORT DOCUMENTATION PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | READ INSTRUCTIONS<br>BEFORE COMPLETING FORM                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------|
| 1. REPORT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER                                    |
| 4. TITLE (and Subtitle)<br>Summary of Meteorological Observations, Surface<br>(SMOS) China Lake, CA                                                                                                                                                                                                                                                                                                                                                                   |                       | 5. TYPE OF REPORT & PERIOD COVERED<br>Reference Report 1973-1982 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 6. PERFORMING ORG. REPORT NUMBER                                 |
| 7. AUTHOR(s)<br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | 8. CONTRACT OR GRANT NUMBER(s)                                   |
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| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)                                                                                                                                                                                                                                                                                                                                                                                           |                       | 15. SECURITY CLASS. (of this report)<br>Unclassified             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 15a. DECLASSIFICATION DOWNGRADING<br>SCHEDULE                    |
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| 18. SUPPLEMENTARY NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                  |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br>Climatology, surface wind, temperature, precipitation, ceiling, visibility,<br>relative humidity, station pressure, extreme temperatures, sea level pressure,<br>daily temperature, weather conditions, monthly climatology, coastal region,<br>snow depth, and cloud cover                                                                                                     |                       |                                                                  |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br>This data report consists of a six part statistical summary of surface<br>weather observations. The six parts are: Part A - Weather Conditions/<br>Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth,<br>Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover,<br>Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure |                       |                                                                  |

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## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCDD), Asheville, N.C. welcomes your comment and criticisms.

|                       |  |                        |  |          |  |           |  |                   |  |           |  |            |  |
|-----------------------|--|------------------------|--|----------|--|-----------|--|-------------------|--|-----------|--|------------|--|
| STATION NO ON SUMMARY |  | STATION NAME           |  | LATITUDE |  | LONGITUDE |  | STATION ELEV (FT) |  | CALL SIGN |  | WMO NUMBER |  |
| 93104                 |  | China Lake, California |  | 35°41'N  |  | 117°41'W  |  | 2283              |  | KNID      |  | 72384      |  |

## STATION LOCATION AND INSTRUMENTATION HISTORY

| NUMBER OF LOCATION | GEOGRAPHICAL LOCATION & NAME                     | TYPE OF STATION | AT THIS LOCATION |      | LATITUDE | LONGITUDE | ELEVATION ABOVE ASL |                | CBS PER DAY |
|--------------------|--------------------------------------------------|-----------------|------------------|------|----------|-----------|---------------------|----------------|-------------|
|                    |                                                  |                 | FROM             | TO   |          |           | FEET                | TYPE BAROMETER |             |
| 1.                 | Weather service office, second deck of hangar #1 | Navy            | 1945             | 1958 | 35°41'N  | 117°41'W  | 2234                | Mercurial      |             |
| 2.                 | Weather service office                           | "               | 1958             | 1959 | "        | "         | 2233                | "              |             |
| 3.                 | Relocated Weather service office                 | "               | 1959             | 1969 | "        | "         | 2238                | "              |             |
| 4.                 | " " "                                            | "               | 1969             |      | "        | "         | "                   | "              |             |
| 1a.                | Weather service office                           | "               | 1964             |      | "        | "         | "                   | Aneroid        |             |

| NUMBER OF LOCATION | DATE OF CHANGE | SURFACE WIND EQUIPMENT INFORMATION                   |                        |                  | REMARKS ADDITIONAL EQUIPMENT OR REASON FOR CHANGE                               |
|--------------------|----------------|------------------------------------------------------|------------------------|------------------|---------------------------------------------------------------------------------|
|                    |                | LOCATION                                             | TYPE OF TRANSMITTER    | TYPE OF RECORDER |                                                                                 |
| 1.                 | 1949           | Roof of hangar #1                                    | Double register Selsyn |                  | 1. Barograph                                                                    |
| 1a.                | 1949           | Roof of control tower                                |                        | Triple           | 2. Hygrothermograph<br>3. Theodolite                                            |
| 2a.                | 1958           | Roof of control tower (replacement for selsyn)       | UNQ-5                  | RD-108           | 4. Thermoscreen<br>5. Maximum and minimum thermometer<br>6. Digital thermometer |
| 3a.                | 1959           | Five hundred feet from the apex of runways 21 and 14 | UNQ-5                  | RRD-108          |                                                                                 |

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blanking space - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

### ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WPM data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than  $5/8$  mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

**MONTH**

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六  
七  
八  
九

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| STATION | STATION NAME | YEARS | NO. OF |
|---------|--------------|-------|--------|
| 1       | 1            | 1     | 1      |
| 2       | 2            | 2     | 2      |
| 3       | 3            | 3     | 3      |
| 4       | 4            | 4     | 4      |
| 5       | 5            | 5     | 5      |
| 6       | 6            | 6     | 6      |
| 7       | 7            | 7     | 7      |
| 8       | 8            | 8     | 8      |
| 9       | 9            | 9     | 9      |
| 10      | 10           | 10    | 10     |
| 11      | 11           | 11    | 11     |
| 12      | 12           | 12    | 12     |
| 13      | 13           | 13    | 13     |
| 14      | 14           | 14    | 14     |
| 15      | 15           | 15    | 15     |
| 16      | 16           | 16    | 16     |
| 17      | 17           | 17    | 17     |
| 18      | 18           | 18    | 18     |
| 19      | 19           | 19    | 19     |
| 20      | 20           | 20    | 20     |
| 21      | 21           | 21    | 21     |
| 22      | 22           | 22    | 22     |
| 23      | 23           | 23    | 23     |
| 24      | 24           | 24    | 24     |
| 25      | 25           | 25    | 25     |
| 26      | 26           | 26    | 26     |
| 27      | 27           | 27    | 27     |
| 28      | 28           | 28    | 28     |
| 29      | 29           | 29    | 29     |
| 30      | 30           | 30    | 30     |
| 31      | 31           | 31    | 31     |
| 32      | 32           | 32    | 32     |
| 33      | 33           | 33    | 33     |
| 34      | 34           | 34    | 34     |
| 35      | 35           | 35    | 35     |
| 36      | 36           | 36    | 36     |
| 37      | 37           | 37    | 37     |
| 38      | 38           | 38    | 38     |
| 39      | 39           | 39    | 39     |
| 40      | 40           | 40    | 40     |
| 41      | 41           | 41    | 41     |
| 42      | 42           | 42    | 42     |
| 43      | 43           | 43    | 43     |
| 44      | 44           | 44    | 44     |
| 45      | 45           | 45    | 45     |
| 46      | 46           | 46    | 46     |
| 47      | 47           | 47    | 47     |
| 48      | 48           | 48    | 48     |
| 49      | 49           | 49    | 49     |
| 50      | 50           | 50    | 50     |
| 51      | 51           | 51    | 51     |
| 52      | 52           | 52    | 52     |
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| 54      | 54           | 54    | 54     |
| 55      | 55           | 55    | 55     |
| 56      | 56           | 56    | 56     |
| 57      | 57           | 57    | 57     |
| 58      | 58           | 58    | 58     |
| 59      | 59           | 59    | 59     |
| 60      | 60           | 60    | 60     |
| 61      | 61           | 61    | 61     |
| 62      | 62           | 62    | 62     |
| 63      | 63           | 63    | 63     |
| 64      | 64           | 64    | 64     |
| 65      | 65           | 65    | 65     |
| 66      | 66           | 66    | 66     |
| 67      | 67           | 67    | 67     |
| 68      | 68           | 68    | 68     |
| 69      | 69           | 69    | 69     |
| 70      | 70           | 70    | 70     |
| 71      | 71           | 71    | 71     |
| 72      | 72           | 72    | 72     |
| 73      | 73           | 73    | 73     |
| 74      | 74           | 74    | 74     |
| 75      | 75           | 75    | 75     |
| 76      | 76           | 76    | 76     |
| 77      | 77           | 77    | 77     |
| 78      | 78           | 78    | 78     |
| 79      | 79           | 79    | 79     |
| 80      | 80           | 80    | 80     |
| 81      | 81           | 81    | 81     |
| 82      | 82           | 82    | 82     |
| 83      | 83           | 83    | 83     |
| 84      | 84           | 84    | 84     |
| 85      | 85           | 85    | 85     |
| 86      | 86           | 86    | 86     |
| 87      | 87           | 87    | 87     |
| 88      | 88           | 88    | 88     |
| 89      | 89           | 89    | 89     |
| 90      | 90           | 90    | 90     |
| 91      | 91           | 91    | 91     |
| 92      | 92           | 92    | 92     |
| 93      | 93           | 93    | 93     |
| 94      | 94           | 94    | 94     |
| 95      | 95           | 95    | 95     |
| 96      | 96           | 96    | 96     |
| 97      | 97           | 97    | 97     |
| 98      | 98           | 98    | 98     |
| 99      | 99           | 99    | 99     |
| 100     | 100          | 100   | 100    |

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## WEATHER CONDITIONS

STATION NAME

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— 100 —

YEARS

STATE

— 545 —

**TOTALS**

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## WEATHER CONDITIONS

[illegible]



## WEATHER CONDITIONS

STAY ON

STATION NAME

YEARS

一、  
 二、  
 三、  
 四、  
 五、

[illegible]

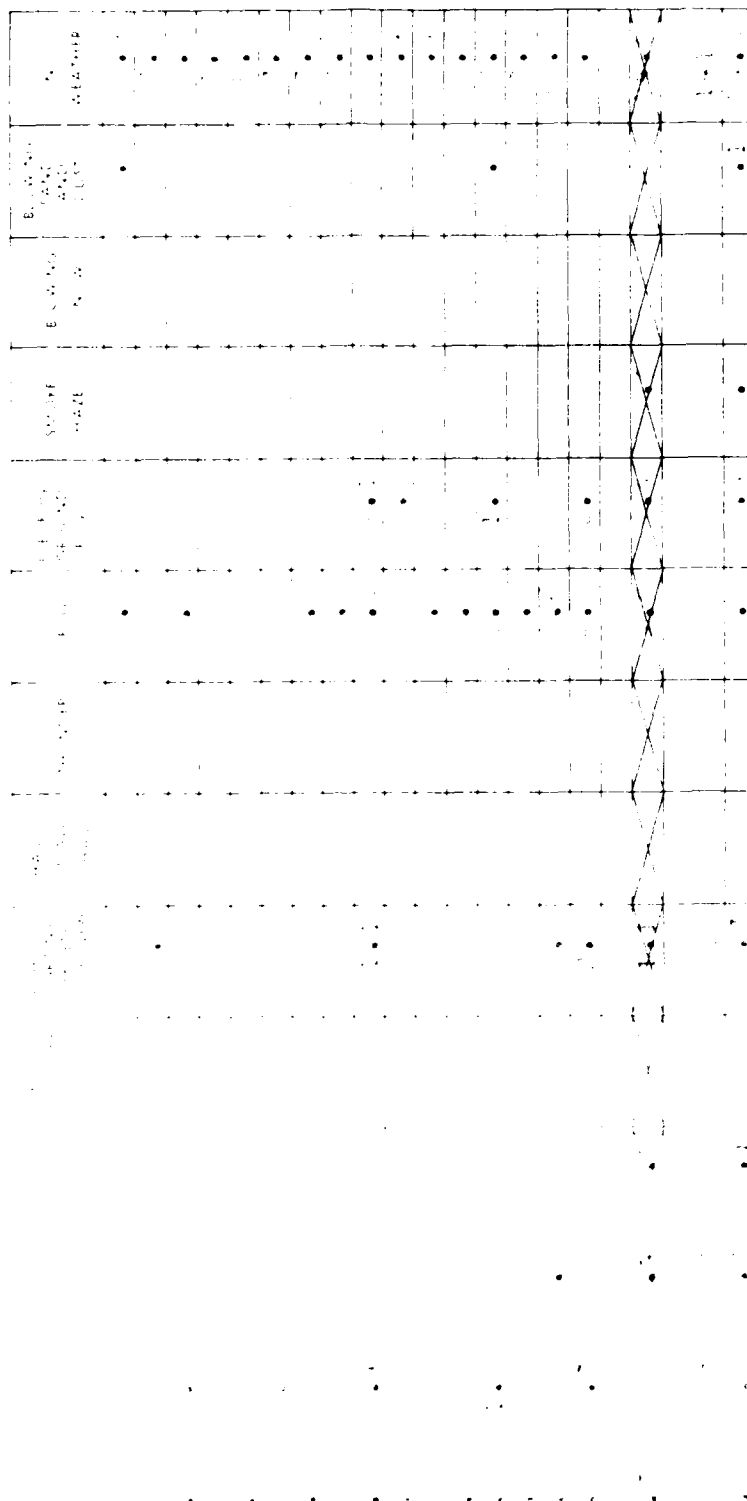
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## WEATHER CONDITIONS

| MONTH  | HOURS<br>(LST.) | THUNDER<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-----------------|-------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| TOTALS |                 |                   |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |



# STAGE FREQUENCY OF WIND DIRECTION AND WEATHER CONDITIONS



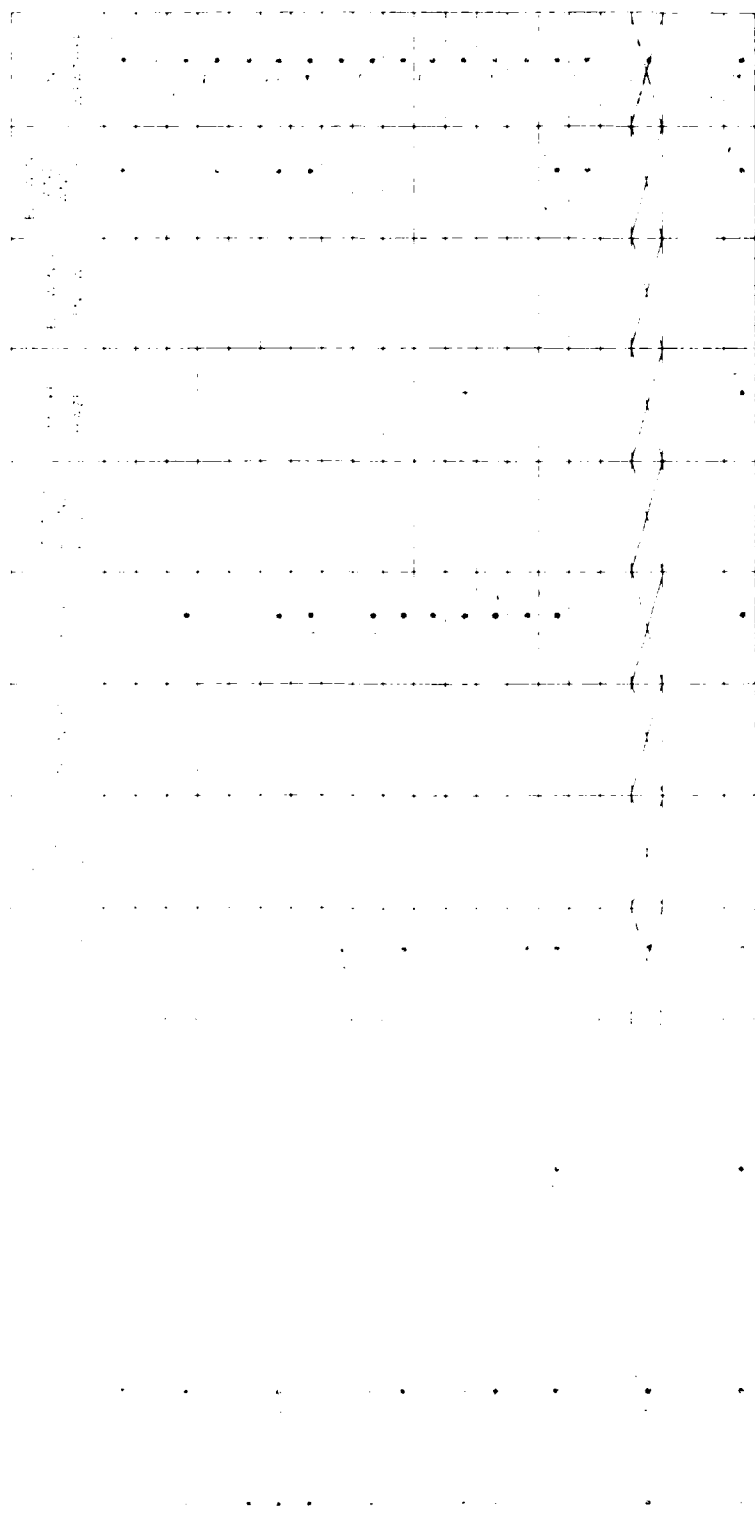
TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

| WIND DIRECTION | WIND SPEED | WIND FORCE | WIND STATE | WIND TYPE | WIND CLASS | WIND EFFECT |
|----------------|------------|------------|------------|-----------|------------|-------------|
| 0              | 0          | 0          | 0          | 0         | 0          | 0           |
| 1              | 1          | 1          | 1          | 1         | 1          | 1           |
| 2              | 2          | 2          | 2          | 2         | 2          | 2           |
| 3              | 3          | 3          | 3          | 3         | 3          | 3           |
| 4              | 4          | 4          | 4          | 4         | 4          | 4           |
| 5              | 5          | 5          | 5          | 5         | 5          | 5           |
| 6              | 6          | 6          | 6          | 6         | 6          | 6           |
| 7              | 7          | 7          | 7          | 7         | 7          | 7           |
| 8              | 8          | 8          | 8          | 8         | 8          | 8           |
| 9              | 9          | 9          | 9          | 9         | 9          | 9           |
| 10             | 10         | 10         | 10         | 10        | 10         | 10          |
| 11             | 11         | 11         | 11         | 11        | 11         | 11          |
| 12             | 12         | 12         | 12         | 12        | 12         | 12          |
| 13             | 13         | 13         | 13         | 13        | 13         | 13          |
| 14             | 14         | 14         | 14         | 14        | 14         | 14          |
| 15             | 15         | 15         | 15         | 15        | 15         | 15          |
| 16             | 16         | 16         | 16         | 16        | 16         | 16          |
| 17             | 17         | 17         | 17         | 17        | 17         | 17          |
| 18             | 18         | 18         | 18         | 18        | 18         | 18          |
| 19             | 19         | 19         | 19         | 19        | 19         | 19          |
| 20             | 20         | 20         | 20         | 20        | 20         | 20          |
| 21             | 21         | 21         | 21         | 21        | 21         | 21          |
| 22             | 22         | 22         | 22         | 22        | 22         | 22          |
| 23             | 23         | 23         | 23         | 23        | 23         | 23          |
| 24             | 24         | 24         | 24         | 24        | 24         | 24          |
| 25             | 25         | 25         | 25         | 25        | 25         | 25          |
| 26             | 26         | 26         | 26         | 26        | 26         | 26          |
| 27             | 27         | 27         | 27         | 27        | 27         | 27          |
| 28             | 28         | 28         | 28         | 28        | 28         | 28          |
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| 31             | 31         | 31         | 31         | 31        | 31         | 31          |
| 32             | 32         | 32         | 32         | 32        | 32         | 32          |
| 33             | 33         | 33         | 33         | 33        | 33         | 33          |
| 34             | 34         | 34         | 34         | 34        | 34         | 34          |
| 35             | 35         | 35         | 35         | 35        | 35         | 35          |
| 36             | 36         | 36         | 36         | 36        | 36         | 36          |
| 37             | 37         | 37         | 37         | 37        | 37         | 37          |
| 38             | 38         | 38         | 38         | 38        | 38         | 38          |
| 39             | 39         | 39         | 39         | 39        | 39         | 39          |
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| 43             | 43         | 43         | 43         | 43        | 43         | 43          |
| 44             | 44         | 44         | 44         | 44        | 44         | 44          |
| 45             | 45         | 45         | 45         | 45        | 45         | 45          |
| 46             | 46         | 46         | 46         | 46        | 46         | 46          |
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| 48             | 48         | 48         | 48         | 48        | 48         | 48          |
| 49             | 49         | 49         | 49         | 49        | 49         | 49          |
| 50             | 50         | 50         | 50         | 50        | 50         | 50          |
| 51             | 51         | 51         | 51         | 51        | 51         | 51          |
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| 53             | 53         | 53         | 53         | 53        | 53         | 53          |
| 54             | 54         | 54         | 54         | 54        | 54         | 54          |
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| 56             | 56         | 56         | 56         | 56        | 56         | 56          |
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| 60             | 60         | 60         | 60         | 60        | 60         | 60          |
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| 62             | 62         | 62         | 62         | 62        | 62         | 62          |
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| 65             | 65         | 65         | 65         | 65        | 65         | 65          |
| 66             | 66         | 66         | 66         | 66        | 66         | 66          |
| 67             | 67         | 67         | 67         | 67        | 67         | 67          |
| 68             | 68         | 68         | 68         | 68        | 68         | 68          |
| 69             | 69         | 69         | 69         | 69        | 69         | 69          |
| 70             | 70         | 70         | 70         | 70        | 70         | 70          |
| 71             | 71         | 71         | 71         | 71        | 71         | 71          |
| 72             | 72         | 72         | 72         | 72        | 72         | 72          |
| 73             | 73         | 73         | 73         | 73        | 73         | 73          |
| 74             | 74         | 74         | 74         | 74        | 74         | 74          |
| 75             | 75         | 75         | 75         | 75        | 75         | 75          |
| 76             | 76         | 76         | 76         | 76        | 76         | 76          |
| 77             | 77         | 77         | 77         | 77        | 77         | 77          |
| 78             | 78         | 78         | 78         | 78        | 78         | 78          |
| 79             | 79         | 79         | 79         | 79        | 79         | 79          |
| 80             | 80         | 80         | 80         | 80        | 80         | 80          |
| 81             | 81         | 81         | 81         | 81        | 81         | 81          |
| 82             | 82         | 82         | 82         | 82        | 82         | 82          |
| 83             | 83         | 83         | 83         | 83        | 83         | 83          |
| 84             | 84         | 84         | 84         | 84        | 84         | 84          |
| 85             | 85         | 85         | 85         | 85        | 85         | 85          |
| 86             | 86         | 86         | 86         | 86        | 86         | 86          |
| 87             | 87         | 87         | 87         | 87        | 87         | 87          |
| 88             | 88         | 88         | 88         | 88        | 88         | 88          |
| 89             | 89         | 89         | 89         | 89        | 89         | 89          |
| 90             | 90         | 90         | 90         | 90        | 90         | 90          |
| 91             | 91         | 91         | 91         | 91        | 91         | 91          |
| 92             | 92         | 92         | 92         | 92        | 92         | 92          |
| 93             | 93         | 93         | 93         | 93        | 93         | 93          |
| 94             | 94         | 94         | 94         | 94        | 94         | 94          |
| 95             | 95         | 95         | 95         | 95        | 95         | 95          |
| 96             | 96         | 96         | 96         | 96        | 96         | 96          |
| 97             | 97         | 97         | 97         | 97        | 97         | 97          |
| 98             | 98         | 98         | 98         | 98        | 98         | 98          |
| 99             | 99         | 99         | 99         | 99        | 99         | 99          |
| 100            | 100        | 100        | 100        | 100       | 100        | 100         |

TOTAL NUMBER OF OBSERVATIONS

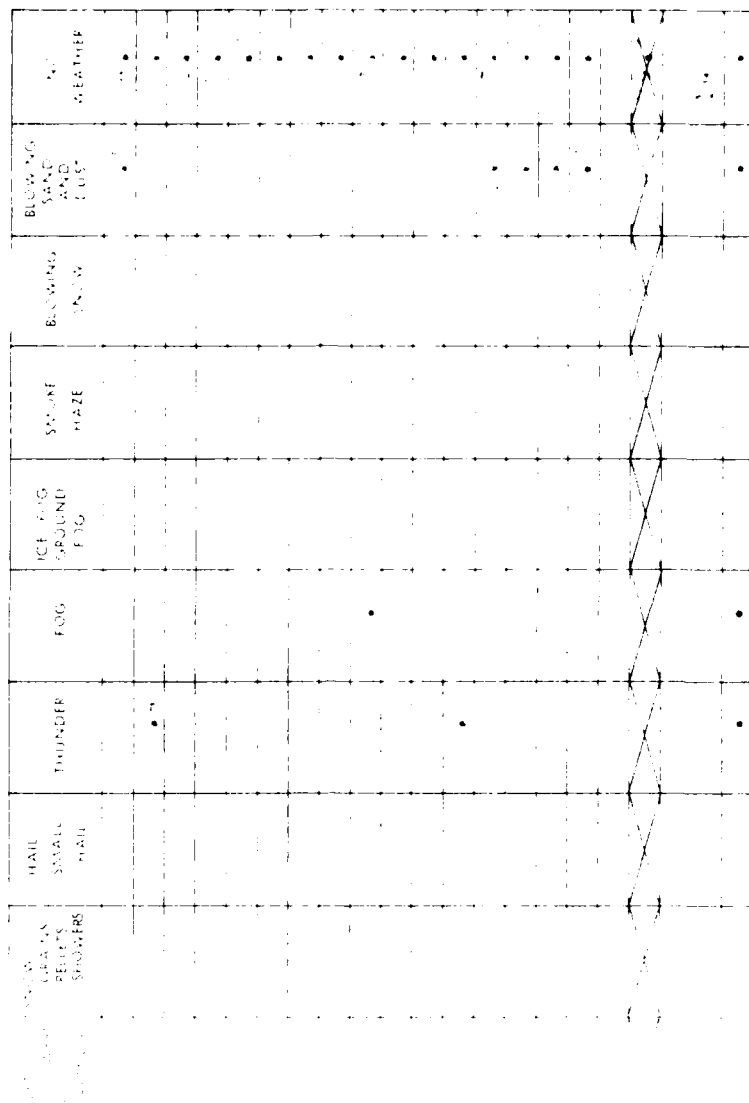
# FREQUENCY OF WIND DIRECTION AT A PARTICULAR PLACE



TOTAL NUMBER OF OBSERVATIONS

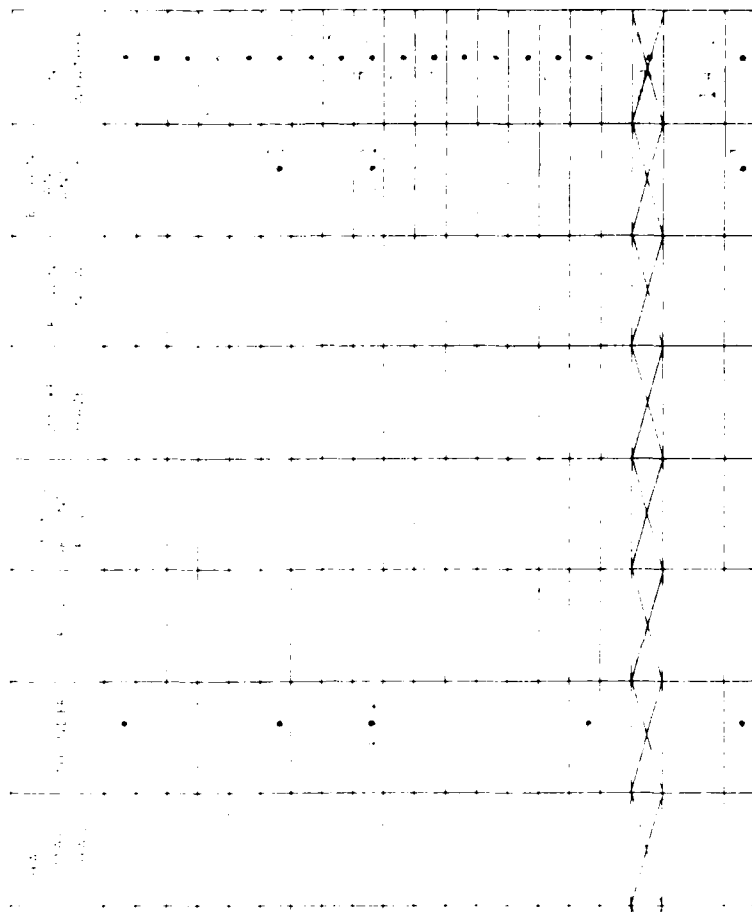


# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



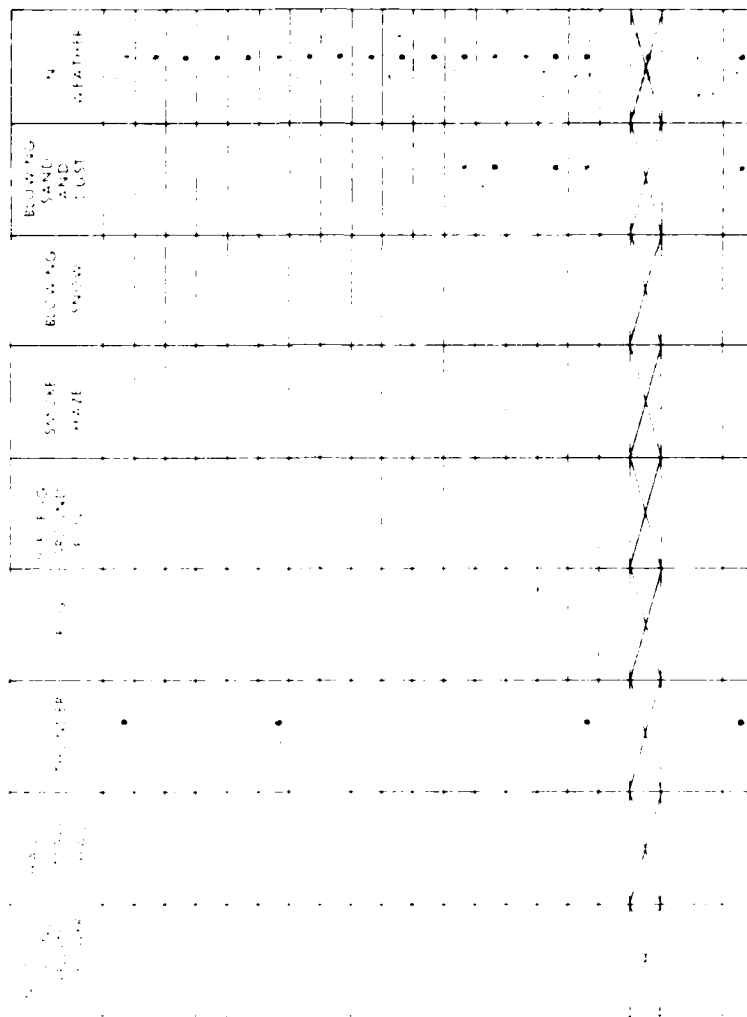
TOTAL NUMBER OF OBSERVATIONS

# 3 WIND FREQUENCY OF WIND DIRECTION AND WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS WEATHER CONDITIONS



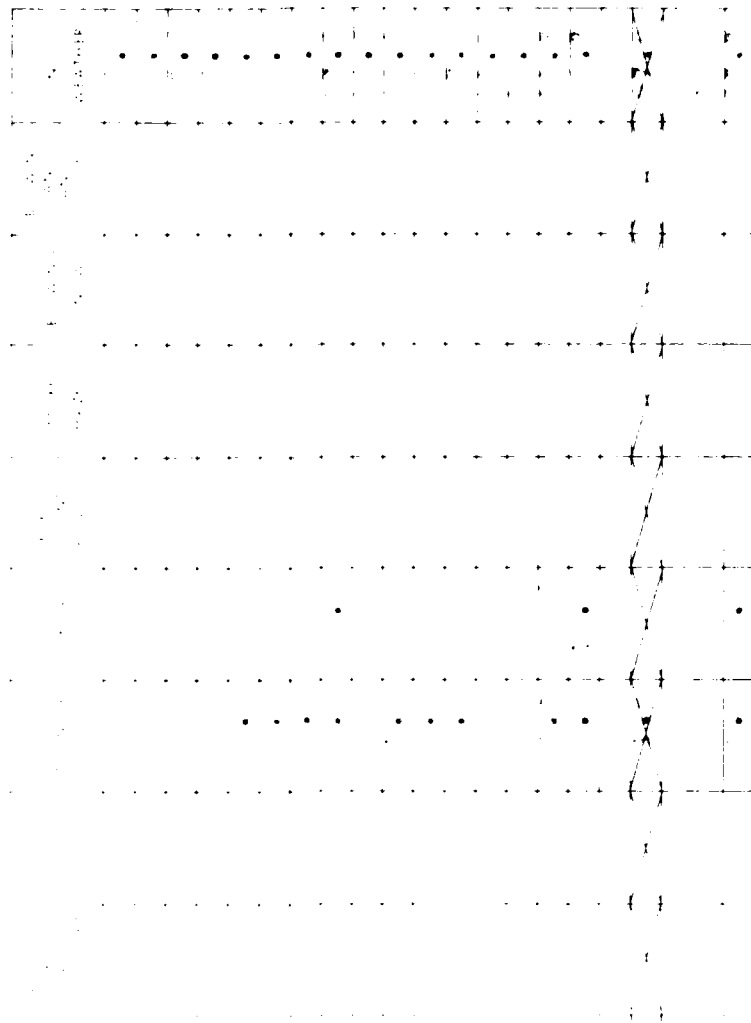
TOTAL NUMBER OF OBSERVATIONS

### 3.2.3. AVERAGE FREQUENCY OF WIND DIRECTION WEATHER CONDITIONS

TOTAL NUMBER OF OBSERVATIONS

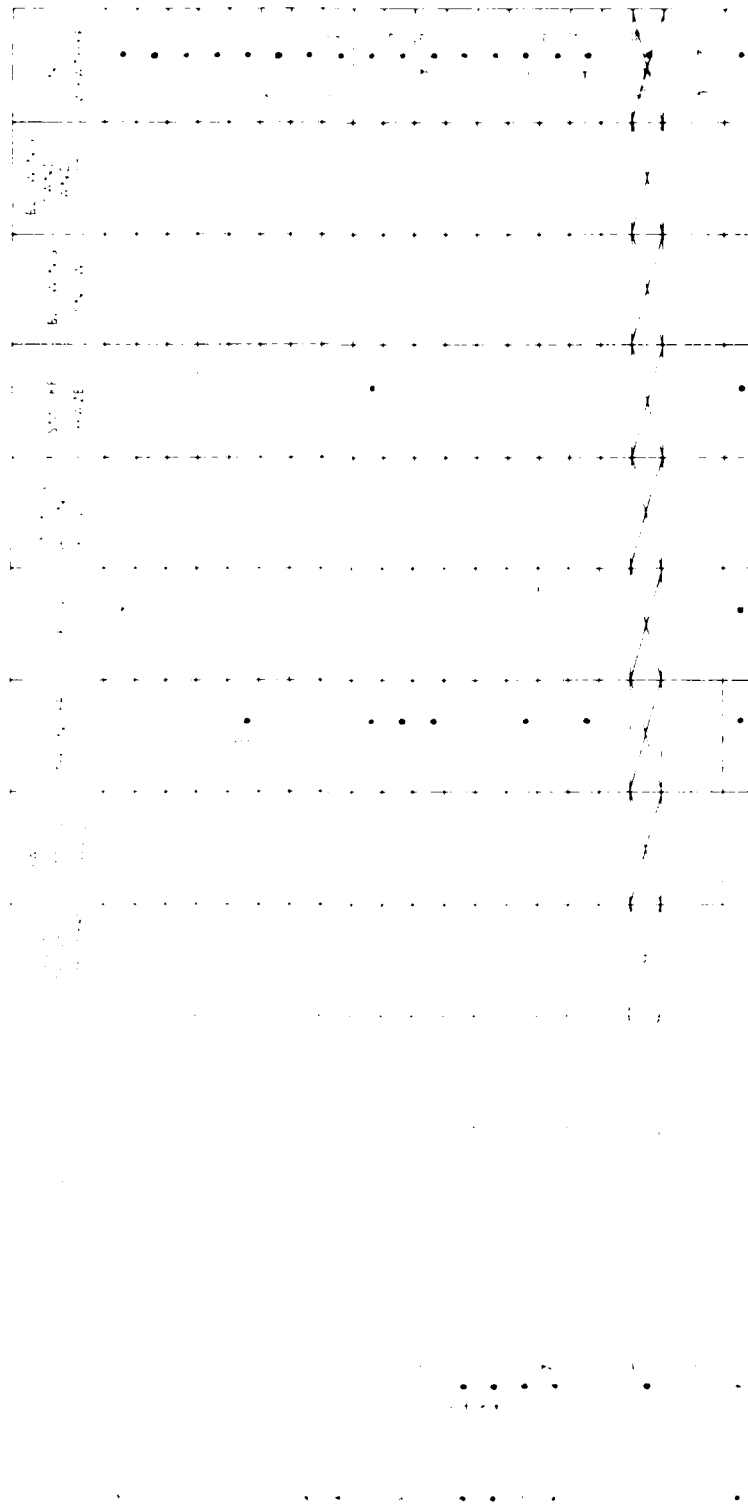
# FREQUENCY OF WIND DIRECTION WEATHER CONDITIONS

3



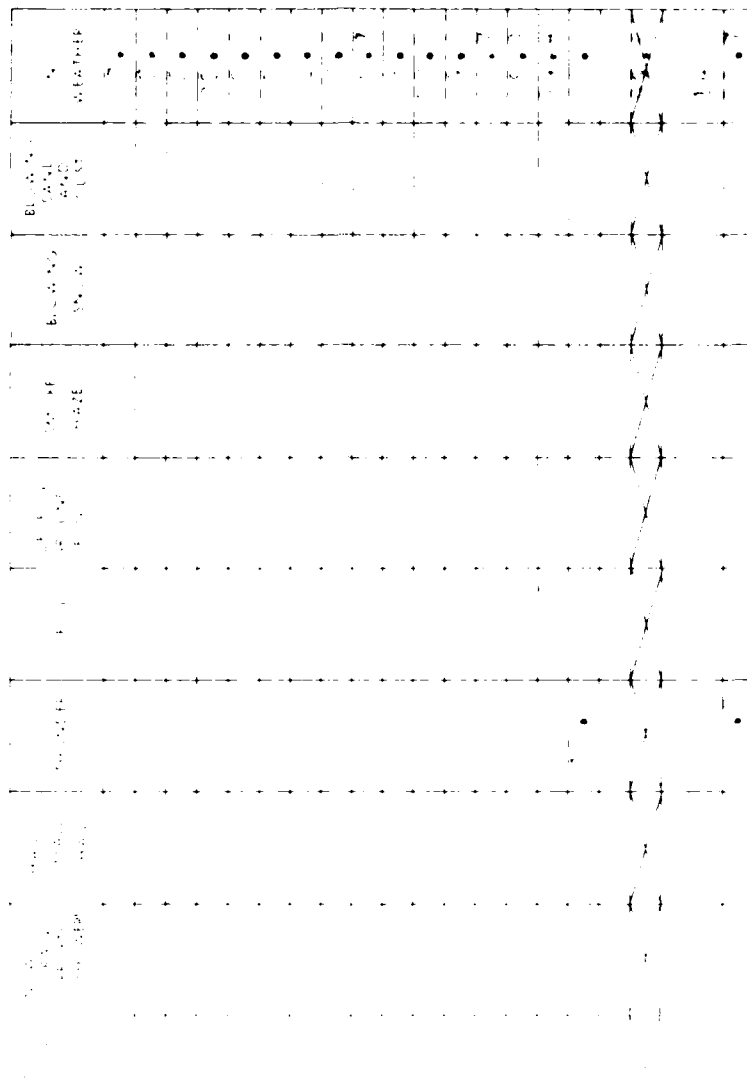
TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



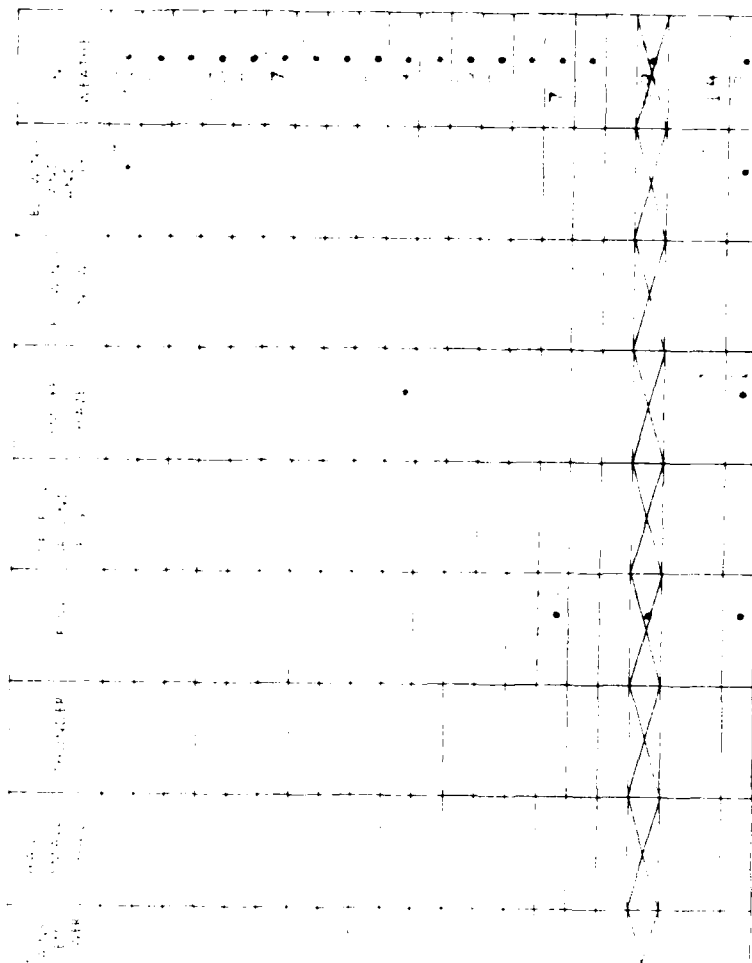
TOTAL NUMBER OF OBSERVATIONS —

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

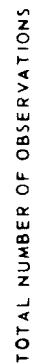


TOTAL NUMBER OF OBSERVATIONS



### 3.2. FREQUENCY OF WIND DIRECTION AND WEATHER CONDITIONS

TOTAL NUMBER OF OBSERVATIONS



## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This precipitation is the Uniform Summary presented in two sets of tables, the daily amounts and extreme values of the following:

- PRECIPITATION DERIVED FROM DAILY OBSERVATIONS
- SNOWFALL\* DERIVED FROM DAILY OBSERVATIONS
- SNOW DEPTH DERIVED FROM DAILY OBSERVATIONS

The first two of the above presents the percentage frequency of various daily amounts, to which are also included the percentage of days with considerable amounts is also computed monthly and annually. The second set of tables for the precipitation and snowfall tables, are the monthly mean amounts, annual means, and extremes of monthly mean amounts, and the extreme monthly amounts (greatest and least). The extreme monthly amounts are not presented for the snow depth summary since they would have limited value and are not available.

The third set of tables for even of the above presents the extreme daily amounts by individual year and month. The period of record available. Also provided are the means and standard deviations for the monthly and annual (all months). The extremes for a month are not printed nor used in computations if the data for the month are missing.

The snow depth summary is presented and punched at various hours during the period available from U. S. operations. The period is said hours used in the snow depth summary vary by service and period as follows:

|                    |                                      |                        |
|--------------------|--------------------------------------|------------------------|
| Snow Depth Summary | From beginning of record thru 1945   | Snow depth at 0800 LST |
|                    | Jan 46-May 57                        | Snow depth at 1230 GCT |
|                    | Jun 57-present                       | Snow depth at 1200 GCT |
| Snow Depth Summary | From beginning of record thru Jun 52 | Snow depth at 0030 GCT |
|                    | Jul 52-May 57                        | Snow depth at 1230 GCT |
|                    | Jun 57-present                       | Snow depth at 1200 GCT |

The snow depth summary is presented in the summary of the day observation prior to Jan 1956, and after Jan 1956.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

|            | AMOUNTS (INCHES) |       |       |     |     |     |     |     |     |      |      |      |            |            | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|------------|------------------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|------|------------|------------|-------------------------------------------------------|--------------------------|-----------------------------|----------|-------|
|            | PRECIP           | NONE  | TRACE | 0.1 | 0.2 | 0.5 | 0.6 | 1.0 | 2.5 | 5.0  | 10.0 | 25.0 | 50.0       | OVER 20.00 |                                                       |                          | MEAN                        | GREATEST | LEAST |
|            |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
|            |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| SNOWFALL   | NONE             | TRACE | 0.1   | 0.2 | 0.5 | 0.6 | 1.0 | 2.5 | 5.0 | 10.0 | 25.0 | 50.0 | OVER 20.00 |            |                                                       |                          |                             |          |       |
| SNOW DEPTH | NONE             | TRACE | 1     | 2   | 3   | 4   | 6   | 7   | 12  | 13   | 24   | 36   | 48         | 61         | 120                                                   |                          |                             |          |       |
| JAN        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| FEB        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| MAR        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| APR        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| MAY        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| JUN        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| JUL        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| AUG        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| SEP        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| OCT        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| NOV        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| DEC        |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |
| ANNUAL     |                  |       |       |     |     |     |     |     |     |      |      |      |            |            |                                                       |                          |                             |          |       |

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

|               | PRECIP | NONE | TRACE | 01    | 02    | 05    | 06    | 10    | 15    | 25    | 26    | 50    | 51    | 100   | AMOUNTS (INCHES) |        |        |        |        |        |        |        |        |        | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |      |          |       |
|---------------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------|--------------------------|-----------------------------|------|----------|-------|
|               |        |      |       |       |       |       |       |       |       |       |       |       |       |       | 0.01             | 0.05   | 0.10   | 0.25   | 0.50   | 1.00   | 2.5    | 5.0    | 10.00  | 20.00  |                                                       |                          | OVER 20.00                  | MEAN | GREATEST | LEAST |
|               |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| SNOWFALL      | NONE   | NONE | TRACE | 01.04 | 05.14 | 15.24 | 25.34 | 35.44 | 45.64 | 55.74 | 65.84 | 75.94 | 85.04 | 95.14 | 105.24           | 115.34 | 125.44 | 135.54 | 145.64 | 155.74 | 165.84 | 175.94 | 185.04 | 195.14 | 205.24                                                |                          |                             |      |          |       |
| SNOW<br>DEPTH | NONE   | NONE | TRACE | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12               | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22                                                    |                          |                             |      |          |       |
| JAN           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| FEB           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| MAR           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| APR           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| MAY           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| JUN           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| JUL           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| AUG           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| SEP           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| OCT           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| NOV           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| DEC           |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |
| ANNUAL        |        |      |       |       |       |       |       |       |       |       |       |       |       |       |                  |        |        |        |        |        |        |        |        |        |                                                       |                          |                             |      |          |       |

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

|        | AMOUNTS INCHES |       |     |     |     |     |     |     |     |     |     |     | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>INCHES |          |
|--------|----------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------------------------------|--------------------------|---------------------------|----------|
|        |                |       |     |     |     |     |     |     |     |     |     |     |                                                       |                          | MEAN                      | GREATEST |
|        | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| JAN    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| FEB    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| MAR    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| APR    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| MAY    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| JUN    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| JUL    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| AUG    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| SEP    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| OCT    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| NOV    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| DEC    | NONE           | TRACE | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |                                                       |                          |                           |          |
| ANNUAL |                |       |     |     |     |     |     |     |     |     |     |     |                                                       |                          |                           |          |







## EXTREME VALUES

STATION NAME

## ARTISTS

[illegible]

SMOS

## EXTREME VALUES

[illegible]

# STATION NAME

YEARS

[illegible]

19

## EXTREME VALUES

Y  
T  
A  
H

SOWS

## EXTREME VALUES

Figure 1 is a schematic representation of the experimental design. It shows a flowchart starting with '1000 subjects' at the top. This leads to a box labeled 'Random assignment to two groups (500 each)'. Below this, there are two parallel paths. The left path starts with 'Baseline assessment (1000 subjects)', followed by 'Intervention (500 subjects)', then 'Post-intervention assessment (500 subjects)', and finally 'Follow-up assessment (500 subjects)'. The right path starts with 'Baseline assessment (1000 subjects)', followed by 'Post-intervention assessment (500 subjects)', and finally 'Follow-up assessment (500 subjects)'. Both paths converge at a final box labeled 'Final assessment (500 subjects)'.

YEARS

[illegible]

SOLOS

# DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

| DAY     | PRECIPITATION<br>GREATEST |    |      | SNOWFALL<br>GREATEST |    |      |
|---------|---------------------------|----|------|----------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES               | MM | DATE |
| 1       |                           |    |      |                      |    |      |
| 2       |                           |    |      |                      |    |      |
| 3       |                           |    |      |                      |    |      |
| 4       |                           |    |      |                      |    |      |
| 5       |                           |    |      |                      |    |      |
| 6       |                           |    |      |                      |    |      |
| 7       |                           |    |      |                      |    |      |
| 8       |                           |    |      |                      |    |      |
| 9       |                           |    |      |                      |    |      |
| 10      |                           |    |      |                      |    |      |
| 11      |                           |    |      |                      |    |      |
| 12      |                           |    |      |                      |    |      |
| 13      |                           |    |      |                      |    |      |
| 14      |                           |    |      |                      |    |      |
| 15      |                           |    |      |                      |    |      |
| 16      |                           |    |      |                      |    |      |
| 17      |                           |    |      |                      |    |      |
| 18      |                           |    |      |                      |    |      |
| 19      |                           |    |      |                      |    |      |
| 20      |                           |    |      |                      |    |      |
| 21      |                           |    |      |                      |    |      |
| 22      |                           |    |      |                      |    |      |
| 23      |                           |    |      |                      |    |      |
| 24      |                           |    |      |                      |    |      |
| 25      |                           |    |      |                      |    |      |
| 26      |                           |    |      |                      |    |      |
| 27      |                           |    |      |                      |    |      |
| 28      |                           |    |      |                      |    |      |
| 29      |                           |    |      |                      |    |      |
| 30      |                           |    |      |                      |    |      |
| 31      |                           |    |      |                      |    |      |
| Monthly |                           |    |      |                      |    |      |

| DAY     | PRECIPITATION<br>GREATEST |    |      | SNOWFALL<br>GREATEST |    |      |
|---------|---------------------------|----|------|----------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES               | MM | DATE |
| 1       |                           |    |      |                      |    |      |
| 2       |                           |    |      |                      |    |      |
| 3       |                           |    |      |                      |    |      |
| 4       |                           |    |      |                      |    |      |
| 5       |                           |    |      |                      |    |      |
| 6       |                           |    |      |                      |    |      |
| 7       |                           |    |      |                      |    |      |
| 8       |                           |    |      |                      |    |      |
| 9       |                           |    |      |                      |    |      |
| 10      |                           |    |      |                      |    |      |
| 11      |                           |    |      |                      |    |      |
| 12      |                           |    |      |                      |    |      |
| 13      |                           |    |      |                      |    |      |
| 14      |                           |    |      |                      |    |      |
| 15      |                           |    |      |                      |    |      |
| 16      |                           |    |      |                      |    |      |
| 17      |                           |    |      |                      |    |      |
| 18      |                           |    |      |                      |    |      |
| 19      |                           |    |      |                      |    |      |
| 20      |                           |    |      |                      |    |      |
| 21      |                           |    |      |                      |    |      |
| 22      |                           |    |      |                      |    |      |
| 23      |                           |    |      |                      |    |      |
| 24      |                           |    |      |                      |    |      |
| 25      |                           |    |      |                      |    |      |
| 26      |                           |    |      |                      |    |      |
| 27      |                           |    |      |                      |    |      |
| 28      |                           |    |      |                      |    |      |
| 29      |                           |    |      |                      |    |      |
| 30      |                           |    |      |                      |    |      |
| 31      |                           |    |      |                      |    |      |
| Monthly |                           |    |      |                      |    |      |

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# DAILY EXTREME AMOUNTS

DIRNAVOCEANMET-SMOS

3

| DAY     | PRECIPITATION<br>GREATEST |      | SNOWFALL<br>GREATEST |      | DATE |
|---------|---------------------------|------|----------------------|------|------|
|         | INCHES                    | FEET | INCHES               | FEET |      |
| 1       |                           |      |                      |      |      |
| 2       |                           |      |                      |      |      |
| 3       |                           |      |                      |      |      |
| 4       |                           |      |                      |      |      |
| 5       |                           |      |                      |      |      |
| 6       |                           |      |                      |      |      |
| 7       |                           |      |                      |      |      |
| 8       |                           |      |                      |      |      |
| 9       |                           |      |                      |      |      |
| 10      |                           |      |                      |      |      |
| 11      |                           |      |                      |      |      |
| 12      |                           |      |                      |      |      |
| 13      |                           |      |                      |      |      |
| 14      |                           |      |                      |      |      |
| 15      |                           |      |                      |      |      |
| 16      |                           |      |                      |      |      |
| 17      |                           |      |                      |      |      |
| 18      |                           |      |                      |      |      |
| 19      |                           |      |                      |      |      |
| 20      |                           |      |                      |      |      |
| 21      |                           |      |                      |      |      |
| 22      |                           |      |                      |      |      |
| 23      |                           |      |                      |      |      |
| 24      |                           |      |                      |      |      |
| 25      |                           |      |                      |      |      |
| 26      |                           |      |                      |      |      |
| 27      |                           |      |                      |      |      |
| 28      |                           |      |                      |      |      |
| 29      |                           |      |                      |      |      |
| 30      |                           |      |                      |      |      |
| 31      |                           |      |                      |      |      |
| Monthly |                           |      |                      |      |      |

| DAY     | PRECIPITATION<br>GREATEST |      | SNOWFALL<br>GREATEST |      | DATE |
|---------|---------------------------|------|----------------------|------|------|
|         | INCHES                    | FEET | INCHES               | FEET |      |
| 1       |                           |      |                      |      |      |
| 2       |                           |      |                      |      |      |
| 3       |                           |      |                      |      |      |
| 4       |                           |      |                      |      |      |
| 5       |                           |      |                      |      |      |
| 6       |                           |      |                      |      |      |
| 7       |                           |      |                      |      |      |
| 8       |                           |      |                      |      |      |
| 9       |                           |      |                      |      |      |
| 10      |                           |      |                      |      |      |
| 11      |                           |      |                      |      |      |
| 12      |                           |      |                      |      |      |
| 13      |                           |      |                      |      |      |
| 14      |                           |      |                      |      |      |
| 15      |                           |      |                      |      |      |
| 16      |                           |      |                      |      |      |
| 17      |                           |      |                      |      |      |
| 18      |                           |      |                      |      |      |
| 19      |                           |      |                      |      |      |
| 20      |                           |      |                      |      |      |
| 21      |                           |      |                      |      |      |
| 22      |                           |      |                      |      |      |
| 23      |                           |      |                      |      |      |
| 24      |                           |      |                      |      |      |
| 25      |                           |      |                      |      |      |
| 26      |                           |      |                      |      |      |
| 27      |                           |      |                      |      |      |
| 28      |                           |      |                      |      |      |
| 29      |                           |      |                      |      |      |
| 30      |                           |      |                      |      |      |
| 31      |                           |      |                      |      |      |
| Monthly |                           |      |                      |      |      |

\* ALSO ON EARLIER YEARS  
 T - TRACE - AN AMOUNT TOO SMALL TO MEASURE  
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

## DAILY EXTREME AMOUNTS

[illegible][illegible]

| DAY     | PRECIPITATION<br>GREATEST |     |      | WIND<br>GREATEST |      |      |
|---------|---------------------------|-----|------|------------------|------|------|
|         | INCHES                    | MO. | DATE | FAHRS            | DIR. | DATE |
| 1       |                           |     |      |                  |      |      |
| 2       |                           |     |      |                  |      |      |
| 3       |                           |     |      |                  |      |      |
| 4       |                           |     |      |                  |      |      |
| 5       |                           |     |      |                  |      |      |
| 6       |                           |     |      |                  |      |      |
| 7       |                           |     |      |                  |      |      |
| 8       |                           |     |      |                  |      |      |
| 9       |                           |     |      |                  |      |      |
| 10      |                           |     |      |                  |      |      |
| 11      |                           |     |      |                  |      |      |
| 12      |                           |     |      |                  |      |      |
| 13      |                           |     |      |                  |      |      |
| 14      |                           |     |      |                  |      |      |
| 15      |                           |     |      |                  |      |      |
| 16      |                           |     |      |                  |      |      |
| 17      |                           |     |      |                  |      |      |
| 18      |                           |     |      |                  |      |      |
| 19      |                           |     |      |                  |      |      |
| 20      |                           |     |      |                  |      |      |
| 21      |                           |     |      |                  |      |      |
| 22      |                           |     |      |                  |      |      |
| 23      |                           |     |      |                  |      |      |
| 24      |                           |     |      |                  |      |      |
| 25      |                           |     |      |                  |      |      |
| 26      |                           |     |      |                  |      |      |
| 27      |                           |     |      |                  |      |      |
| 28      |                           |     |      |                  |      |      |
| 29      |                           |     |      |                  |      |      |
| 30      |                           |     |      |                  |      |      |
| 31      |                           |     |      |                  |      |      |
| Monthly |                           |     |      |                  |      |      |

• ALSO ON EARLIER YEARS

IT THACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

| DAY     | PRECIPITATION<br>GREATEST |    |      | SNOWFALL<br>GREATEST |    |      |
|---------|---------------------------|----|------|----------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES               | MM | DATE |
| 1       |                           |    |      |                      |    |      |
| 2       |                           |    |      |                      |    |      |
| 3       |                           |    |      |                      |    |      |
| 4       |                           |    |      |                      |    |      |
| 5       |                           |    |      |                      |    |      |
| 6       |                           |    |      |                      |    |      |
| 7       |                           |    |      |                      |    |      |
| 8       |                           |    |      |                      |    |      |
| 9       |                           |    |      |                      |    |      |
| 10      |                           |    |      |                      |    |      |
| 11      |                           |    |      |                      |    |      |
| 12      |                           |    |      |                      |    |      |
| 13      |                           |    |      |                      |    |      |
| 14      |                           |    |      |                      |    |      |
| 15      |                           |    |      |                      |    |      |
| 16      |                           |    |      |                      |    |      |
| 17      |                           |    |      |                      |    |      |
| 18      |                           |    |      |                      |    |      |
| 19      |                           |    |      |                      |    |      |
| 20      |                           |    |      |                      |    |      |
| 21      |                           |    |      |                      |    |      |
| 22      |                           |    |      |                      |    |      |
| 23      |                           |    |      |                      |    |      |
| 24      |                           |    |      |                      |    |      |
| 25      |                           |    |      |                      |    |      |
| 26      |                           |    |      |                      |    |      |
| 27      |                           |    |      |                      |    |      |
| 28      |                           |    |      |                      |    |      |
| 29      |                           |    |      |                      |    |      |
| 30      |                           |    |      |                      |    |      |
| 31      |                           |    |      |                      |    |      |
| Monthly |                           |    |      |                      |    |      |

| DAY     | PRECIPITATION<br>GREATEST |    |      | SNOWFALL<br>GREATEST |    |      |
|---------|---------------------------|----|------|----------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES               | MM | DATE |
| 1       |                           |    |      |                      |    |      |
| 2       |                           |    |      |                      |    |      |
| 3       |                           |    |      |                      |    |      |
| 4       |                           |    |      |                      |    |      |
| 5       |                           |    |      |                      |    |      |
| 6       |                           |    |      |                      |    |      |
| 7       |                           |    |      |                      |    |      |
| 8       |                           |    |      |                      |    |      |
| 9       |                           |    |      |                      |    |      |
| 10      |                           |    |      |                      |    |      |
| 11      |                           |    |      |                      |    |      |
| 12      |                           |    |      |                      |    |      |
| 13      |                           |    |      |                      |    |      |
| 14      |                           |    |      |                      |    |      |
| 15      |                           |    |      |                      |    |      |
| 16      |                           |    |      |                      |    |      |
| 17      |                           |    |      |                      |    |      |
| 18      |                           |    |      |                      |    |      |
| 19      |                           |    |      |                      |    |      |
| 20      |                           |    |      |                      |    |      |
| 21      |                           |    |      |                      |    |      |
| 22      |                           |    |      |                      |    |      |
| 23      |                           |    |      |                      |    |      |
| 24      |                           |    |      |                      |    |      |
| 25      |                           |    |      |                      |    |      |
| 26      |                           |    |      |                      |    |      |
| 27      |                           |    |      |                      |    |      |
| 28      |                           |    |      |                      |    |      |
| 29      |                           |    |      |                      |    |      |
| 30      |                           |    |      |                      |    |      |
| 31      |                           |    |      |                      |    |      |
| Monthly |                           |    |      |                      |    |      |

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD



# DAILY EXTREME AMOUNTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

YEARS

MONTH

| DAY   | INCHES | MM | DATE | PRECIPITATION<br>GREATEST | SNOWFALL<br>GREATEST | DATE |
|-------|--------|----|------|---------------------------|----------------------|------|
| 1     |        |    |      |                           |                      |      |
| 2     |        |    |      |                           |                      |      |
| 3     |        |    |      |                           |                      |      |
| 4     |        |    |      |                           |                      |      |
| 5     |        |    |      |                           |                      |      |
| 6     |        |    |      |                           |                      |      |
| 7     |        |    |      |                           |                      |      |
| 8     |        |    |      |                           |                      |      |
| 9     |        |    |      |                           |                      |      |
| 10    |        |    |      |                           |                      |      |
| 11    |        |    |      |                           |                      |      |
| 12    |        |    |      |                           |                      |      |
| 13    |        |    |      |                           |                      |      |
| 14    |        |    |      |                           |                      |      |
| 15    |        |    |      |                           |                      |      |
| 16    |        |    |      |                           |                      |      |
| 17    |        |    |      |                           |                      |      |
| 18    |        |    |      |                           |                      |      |
| 19    |        |    |      |                           |                      |      |
| 20    |        |    |      |                           |                      |      |
| 21    |        |    |      |                           |                      |      |
| 22    |        |    |      |                           |                      |      |
| 23    |        |    |      |                           |                      |      |
| 24    |        |    |      |                           |                      |      |
| 25    |        |    |      |                           |                      |      |
| 26    |        |    |      |                           |                      |      |
| 27    |        |    |      |                           |                      |      |
| 28    |        |    |      |                           |                      |      |
| 29    |        |    |      |                           |                      |      |
| 30    |        |    |      |                           |                      |      |
| 31    |        |    |      |                           |                      |      |
| Month |        |    |      |                           |                      |      |

| DAY   | INCHES | MM | DATE | PRECIPITATION<br>GREATEST | SNOWFALL<br>GREATEST | DATE |
|-------|--------|----|------|---------------------------|----------------------|------|
| 1     |        |    |      |                           |                      |      |
| 2     |        |    |      |                           |                      |      |
| 3     |        |    |      |                           |                      |      |
| 4     |        |    |      |                           |                      |      |
| 5     |        |    |      |                           |                      |      |
| 6     |        |    |      |                           |                      |      |
| 7     |        |    |      |                           |                      |      |
| 8     |        |    |      |                           |                      |      |
| 9     |        |    |      |                           |                      |      |
| 10    |        |    |      |                           |                      |      |
| 11    |        |    |      |                           |                      |      |
| 12    |        |    |      |                           |                      |      |
| 13    |        |    |      |                           |                      |      |
| 14    |        |    |      |                           |                      |      |
| 15    |        |    |      |                           |                      |      |
| 16    |        |    |      |                           |                      |      |
| 17    |        |    |      |                           |                      |      |
| 18    |        |    |      |                           |                      |      |
| 19    |        |    |      |                           |                      |      |
| 20    |        |    |      |                           |                      |      |
| 21    |        |    |      |                           |                      |      |
| 22    |        |    |      |                           |                      |      |
| 23    |        |    |      |                           |                      |      |
| 24    |        |    |      |                           |                      |      |
| 25    |        |    |      |                           |                      |      |
| 26    |        |    |      |                           |                      |      |
| 27    |        |    |      |                           |                      |      |
| 28    |        |    |      |                           |                      |      |
| 29    |        |    |      |                           |                      |      |
| 30    |        |    |      |                           |                      |      |
| 31    |        |    |      |                           |                      |      |
| Month |        |    |      |                           |                      |      |

1. RECORD FOR EARLIER YEARS

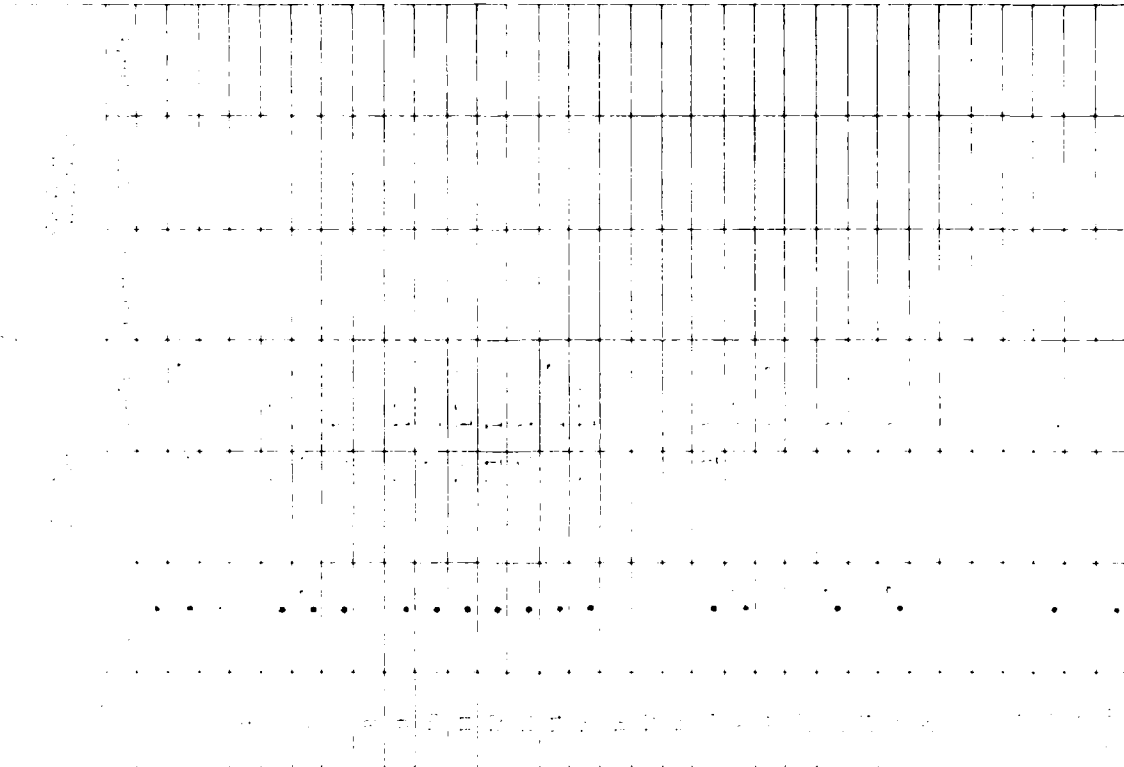
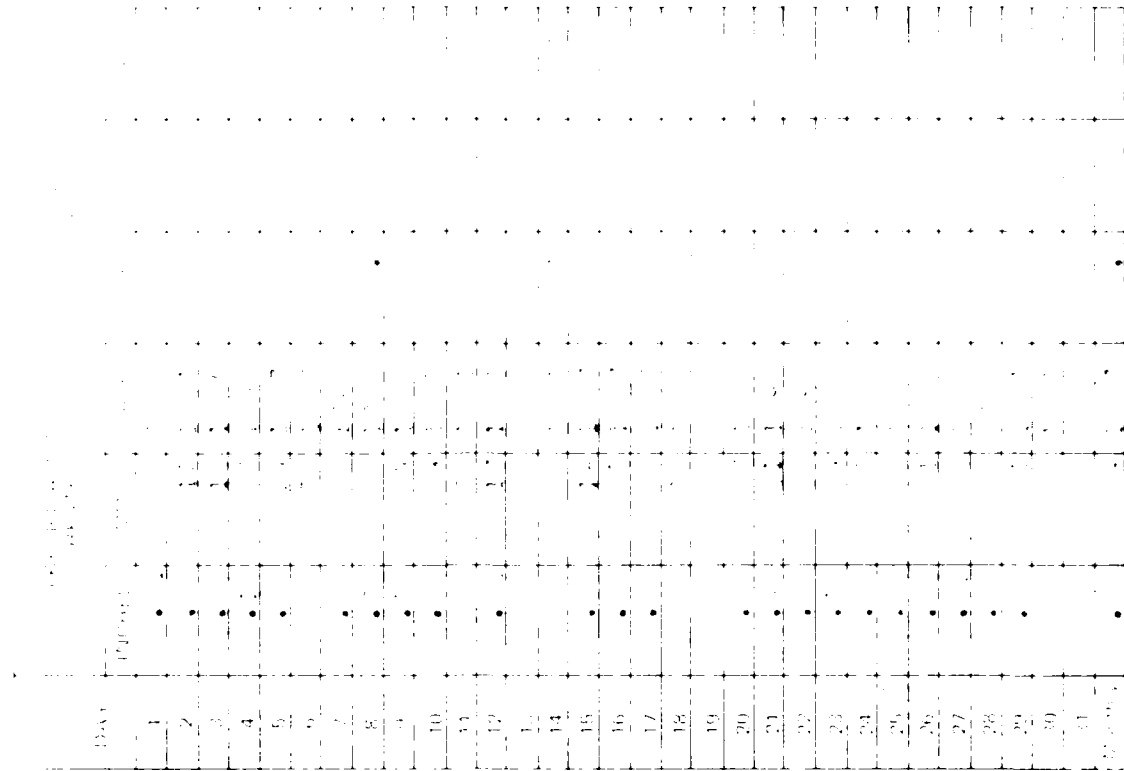
2. TRACE - AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD

# DAILY EXTREME AMOUNTS

STATION DATA USED FOR DETERMINATION  
OF DAILY EXTREME AMOUNTS

3



STATION DATA USED FOR DETERMINATION  
OF DAILY EXTREME AMOUNTS

DIRNAVOCEANMET-SMOS

## PART C

## SURFACE WINDS

Information on surface winds is presented in the following tables:

Hourly Data - These tables contain hourly observations and are entered by individual year and station. They are presented in two columns. The first column contains the wind speed in knots, and the second column contains the wind direction in degrees. The data are presented for each hour of the day, and the data are presented for each month of the year. The data are presented for each station, and the data are presented for each year.

Monthly Data - These tables contain monthly observations and are entered by individual year and station. They are presented in two columns. The first column contains the wind speed in knots, and the second column contains the wind direction in degrees. The data are presented for each month of the year, and the data are presented for each station.

Annual Data - These tables contain annual observations and are entered by individual year and station. They are presented in two columns. The first column contains the wind speed in knots, and the second column contains the wind direction in degrees. The data are presented for each year, and the data are presented for each station.

Summary Data - These tables contain summary observations and are entered by individual year and station. They are presented in two columns. The first column contains the wind speed in knots, and the second column contains the wind direction in degrees. The data are presented for each year, and the data are presented for each station.

The data are presented in the following tables:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 7-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

## EXTREME VALUES

[illegible]

## EXTREME VALUES

TABLE 1.

[illegible]

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (L S T)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible][illegible][illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (L S T)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (LST) \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>KNTS<br>D.R. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                 |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURE - LST

CONDITION

| SPEED<br>(KNTS)<br>DIP | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_ S T

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible][illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L S Y) \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
 STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

| SPEED<br>(KTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

[illegible][illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS 1 2 3 4 5 6

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

# WOMEN

— 100 —

CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| VARBL                  |     |     |      |       |       |       |       |       |       |       |     |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |     |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_ HOURS L S T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS LST

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>KTS<br>OR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|--------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL              |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM               |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS LST

CONDITION

| SPEED<br>KNTS<br>D.R. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS - L S T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>Dir | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURE (L S T)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ DATE \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS TEST \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (L.S.T.)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 11 5 T

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS L S T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L.S.T.) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| V/RBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>KTS<br>OR | 3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|--------------------|---|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                  |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| N E                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                  |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                 |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                  |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                 |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                  |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                 |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL              |   |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM               |   |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>KNTS<br>G.R. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| N E                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

AD-A150 378 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 2/4  
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

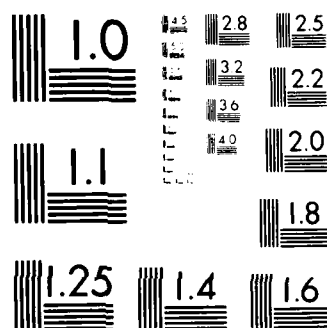
2/4

UNCLASSIFIED DETACHMENT ASHEVILLE NC AUG 84 F/G 4/2 NL

F/G 4/2

NL

A 10x10 grid of squares. The top-left square (row 1, column 1) is missing, leaving a 9x10 grid of squares. The grid is composed of 90 squares in total.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOUR (LST) \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %    | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|------|-----------------------|
| N                       | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 2.2  | 5.2                   |
| NNE                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 1.7  | 5.1                   |
| NE                      | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 1.2  | 4.2                   |
| ENE                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 1.6  | 3.6                   |
| E                       | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 1.2  | 5.2                   |
| ESE                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     |         |         |         |         |      | 4.7  | 5.9                   |
| SE                      | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 4.3  | 5.9                   |
| SSE                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     |         |         |         |         |         |      | 4.3  | 6.1                   |
| S                       | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     |         |         |         |         |      | 12.2 | 7.6                   |
| SSW                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     |         |         |         |         |      | 12.2 | 6.1                   |
| SW                      | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     |         |         |         |         |      | 12.2 | 2.7                   |
| WSW                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     | 1.2     |         |         |         |      | 6.2  | 12.2                  |
| W                       | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     | 1.2     |         |         |         |      | 9.1  | 9.3                   |
| WNW                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     | 1.2     |         |         |         |      | 2.3  | 2.0                   |
| NW                      | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     | 1.2     |         |         |         |      | 1.2  | 7.1                   |
| NNW                     | 1.2   | 1.2   | 1.2    | 1.2     | 1.2     | 1.2     | 1.2     |         |         |         |      | 1.7  | 2.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 10.1 |                       |
|                         | 12.2  | 12.2  | 12.2   | 12.2    | 12.2    | 12.2    | 12.2    |         |         |         |      | 12.2 | 6.4                   |

TOTAL NUMBER OF OBSERVATIONS

12.2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME U.S. AIR FORCE YEARS 1967 MONTH JUL  
 CLASS U.S. AIR FORCE HOURS (LST) 07

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %    | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|------|-----------------------|
| N                       | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 2.0  | 1.1                   |
| NNE                     | 1.0   |       |        |         |         |         |         |         |         |         |      | 1.0  | 2.7                   |
| NE                      | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 1.0  | 2.8                   |
| ENE                     | 1.0   |       |        |         |         |         |         |         |         |         |      | 1.0  | 3.0                   |
| E                       | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 2.0  | 4.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |      |                       |
| SE                      | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 1.0  | 3.0                   |
| SSE                     | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 1.0  | 2.5                   |
| S                       | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 4.0  | 4.1                   |
| SSW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 6.0  | 5.0                   |
| SW                      | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 4.0  | 4.3                   |
| WSW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 4.0  | 3.1                   |
| W                       | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 4.0  | 2.6                   |
| WNW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 3.0  | 3.5                   |
| NW                      | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 1.0  | 2.8                   |
| NNW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 3.0  | 3.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0  | 1.6                   |
|                         | 17.0  | 17.0  | 17.0   | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    | 17.0 | 17.0 | 17.0                  |

TOTAL NUMBER OF OBSERVATIONS

310

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION                      STATION NAME                      YEARS                      MONTH JUL  
CLASS                      HOURS 1157

CONDITION                     

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 1.7   | 2.2                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 1.7   | 2.2                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | 1.7   | 2.7                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      | 2.9   | 2.9                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      | 9.7   | 3.7                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      | 7.1   | 2.4                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 7.7   | 2.5                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | 10.2  | 4.4                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 9.1   | 3.3                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 7.4   | 7.6                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 3.7   | 5.2                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 2.6   | 5.7                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 2.9   | 3.1                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 8.6   | 3.3                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 8.7   | 2.9                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | 8.6   | 2.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      | 100.0 | 2.9                   |

TOTAL NUMBER OF OBSERVATIONS

112

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
JUL  
17  
HOURS (L.S.T.) \_\_\_\_\_

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    |       |        |         |         |         |         |         |         |         |      | .4    | 1.1                   |
| NNE                     | .1    |       |        |         |         |         |         |         |         |         |      | .3    | 2.0                   |
| NE                      |       | .1    |        |         |         |         |         |         |         |         |      | .3    | 4.0                   |
| ENE                     | .1    | 1.7   |        |         |         |         |         |         |         |         |      | 1.2   | 3.7                   |
| E                       | .1    | 7.0   | 1.1    | .1      |         |         |         |         |         |         |      | 4.5   | 5.2                   |
| ESE                     | 1.1   | 1.1   | 7.7    | .6      |         |         |         |         |         |         |      | 6.1   | 6.7                   |
| SE                      |       | 1.1   | 4.6    |         |         |         |         |         |         |         |      | 9.7   | 6.6                   |
| SSE                     | 1.1   | 1.1   | 6.1    | 1.1     |         |         |         |         |         |         |      | 13.6  | 7.7                   |
| S                       | .1    | 6.1   | 7.7    | 7.7     |         |         |         |         |         |         |      | 19.1  | 8.2                   |
| SSW                     | .1    | 7.7   | 6.1    | 7.7     | 1.1     |         |         |         |         |         |      | 17.7  | 10.6                  |
| SW                      | .1    | 1.1   | 6.1    | 7.7     | .6      |         |         |         |         |         |      | 9.1   | 9.9                   |
| WSW                     | .1    | .1    | 1.1    | .6      | .1      |         |         |         |         |         |      | 3.6   | 8.8                   |
| W                       | 1.1   | .1    | .1     | .1      |         |         |         |         |         |         |      | 1.1   | 5.5                   |
| WNW                     |       | .1    |        |         |         |         |         |         |         |         |      | .3    | 4.3                   |
| NW                      | .1    | .1    |        |         |         |         |         |         |         |         |      | 1.1   | 3.3                   |
| NNW                     | .1    | .1    | .1     |         |         |         |         |         |         |         |      | 1.1   | 5.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.5   |                       |
|                         | 17.7  | 21.1  | 34.7   | 16.6    | 1.1     |         |         |         |         |         |      | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS

309

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

Jul  
MONTH

CLASS

HOURS (LST)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 0.0 | 3.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |     |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |     |                       |

TOTAL NUMBER OF OBSERVATIONS

251

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ DATE \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ DAY \_\_\_\_\_ HOUR \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

122

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

JUL

MONTH

ALL

HOURS (LST)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %    | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|------|-----------------------|
| N                       | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 1.0  | 2.0                   |
| NNE                     | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | .0   | 2.0                   |
| NE                      | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | .0   | 2.0                   |
| ENE                     | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 1.0  | 3.0                   |
| E                       | .0    | 1.0   | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 3.0  | 4.0                   |
| ESE                     | 1.0   | 1.0   | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 3.0  | 5.0                   |
| SE                      | 1.0   | 1.0   | 1.0    | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 4.0  | 6.0                   |
| SSE                     | 1.0   | 2.0   | 3.0    | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 5.0  | 7.0                   |
| S                       | 1.0   | 3.0   | 4.0    | 1.0     | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 12.0 | 7.0                   |
| SSW                     | .0    | 2.0   | 3.0    | 1.0     | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 15.0 | 9.0                   |
| SW                      | 1.0   | 1.0   | 2.0    | 2.0     | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 9.0  | 8.0                   |
| WSW                     | 1.0   | 1.0   | 2.0    | 1.0     | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 6.0  | 8.0                   |
| W                       | 1.0   | 1.0   | 2.0    | 1.0     | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 7.0  | 7.0                   |
| WNW                     | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 1.0  | 6.0                   |
| NW                      | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | .0   | 5.0                   |
| NNW                     | .0    | .0    | .0     | .0      | .0      | .0      | .0      | .0      | .0      | .0      | .0   | 1.0  | 5.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 11.0 |                       |
|                         | 1.0   | 5.0   | 6.0    | 1.0     | 1.0     | .0      | .0      | .0      | .0      | .0      | .0   | 18.0 | 5.7                   |

TOTAL NUMBER OF OBSERVATIONS

1471

SMOS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ DAY \_\_\_\_\_ HOUR (LST) \_\_\_\_\_

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 2.6 | 2.1                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 1.3 | 2.8                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | .7  | 3.5                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 1.1 | 2.3                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | .4  | 3.5                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 4.1 | 4.2                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 4.2 | 3.9                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 6.8 | 4.4                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 2.2 | 4.2                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 4.1 | 2.9                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 2.3 | 2.7                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 1.8 | 3.5                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | .5  | 1.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.8 | 1.6                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | •     | •     |        |         |         |         |         |         |         |         |      | 1.0   | 3.3                   |
| NNE                     |       | •     |        |         |         |         |         |         |         |         |      | •     | 4.0                   |
| NE                      |       | •     |        |         |         |         |         |         |         |         |      | •     | 4.3                   |
| ENE                     | 1.0   | •     |        |         |         |         |         |         |         |         |      | 1.0   | 2.0                   |
| E                       | •     | 1.0   | •      |         |         |         |         |         |         |         |      | 1.0   | 3.4                   |
| ESE                     | •     | •     | •      |         |         |         |         |         |         |         |      | 11.7  | 7.9                   |
| SE                      | •     | 1.0   | •      |         |         |         |         |         |         |         |      | 4.0   | 3.4                   |
| SSE                     | •     | •     | 1.0    | •       |         |         |         |         |         |         |      | 11.0  | 4.1                   |
| S                       | •     | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 5.7   | 5.3                   |
| SSW                     | 1.0   | •     | •      | 1.0     | •       |         |         |         |         |         |      | 6.1   | 5.6                   |
| SW                      | •     | •     | 1.0    | •       | •       |         |         |         |         |         |      | 7.0   | 7.7                   |
| WSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | 5.7   | 3.2                   |
| W                       | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 2.0   | 4.1                   |
| WNW                     |       | •     |        |         |         |         |         |         |         |         |      | •     | •                     |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| NNW                     | •     | 1.0   |        |         |         |         |         |         |         |         |      | 1.0   | 4.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 16.7  |                       |
|                         | •     | •     | •      | •       | •       |         |         |         |         |         |      | 100.0 | 2.9                   |

TOTAL NUMBER OF OBSERVATIONS

310

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVY AIRCRAFT DEVELOPMENT  
CENTER  
WHEATFIELD, NC

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS (L.S.T.) \_\_\_\_\_  
 CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |
|                         |       |       |        |         |         |         |         |         |         |         |      |   | 1.0                   |

TOTAL NUMBER OF OBSERVATIONS



CONFIDENTIAL

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH | HOURS | CLASS | LIST |
|---------|--------------|-------|-------|-------|-------|------|
|         |              |       |       |       |       |      |

[illegible]

TOTAL NUMBER OF OBSERVATIONS

11

## SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

Figure 6

| STATION | STATION NAME | YEARS | NORTH |
|---------|--------------|-------|-------|
|         |              |       |       |

**HOURS (L S Y**

**CONDITION**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

**SOWS**

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOUR (LST) \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 2.5                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
CLAP: \_\_\_\_\_ HOURS (L.S.T.): \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 1.7   | 4.0                   |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | 0.7   | 2.0                   |
|                         |       |       |        |         |         |         |         |         |         |         |      | 100.0 | 1.7                   |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: WHEELING, MD  
YEAR: 1960  
MONTH: 1

HOURE (LST)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 2.7 | 2.7                   |
| NNE                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| NE                      | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| ENE                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| E                       | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| ESE                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| SE                      | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| SSE                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| S                       | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| SSW                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| SW                      | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| WSW                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| W                       | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| WNW                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| NW                      | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| NNW                     | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| VARBL                   | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
| CALM                    | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |
|                         | 1.0   | 1.0   | 1.0    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0  | 1.0 | 1.0                   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHIEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS LIST \_\_\_\_\_  
 17

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 2.2   | 3.7                   |
| NNE                     | 1.0   | 1.0   |        |         |         |         |         |         |         |         |      | 2.2   | 3.8                   |
| NE                      | 1.0   | 1.0   | 1.0    |         |         |         |         |         |         |         |      | 2.2   | 4.7                   |
| ENE                     | 1.0   | 1.0   | 1.0    |         |         |         |         |         |         |         |      | 4.2   | 4.3                   |
| E                       | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 7.2   | 3.8                   |
| ESE                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 11.4  | 4.1                   |
| SE                      | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 13.4  | 6.3                   |
| SSE                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 11.1  | 5.5                   |
| S                       | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 13.4  | 7.4                   |
| SSW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 11.4  | 8.9                   |
| SW                      | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 3.6   | 4.3                   |
| WSW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 5.6   | 10.7                  |
| W                       | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 3.7   | 9.3                   |
| WNW                     | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 1.2   | 7.8                   |
| NW                      | 1.0   | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 1.2   | 2.2                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
|                         | 10.1  | 10.1  | 10.1   | 11.7    | 9.2     | 1.0     |         |         |         |         |      | 100.0 | 5.8                   |

TOTAL NUMBER OF OBSERVATIONS 298

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS (L.S.T.) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |
|                         |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 5.2                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS LIST \_\_\_\_\_

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

WINDY HARBOR SERVICE  
DISTRIBUTION  
MOBILE, AL

**YEARS**

**MONTH**

**MOUSE (13 Y**

**CLASS**

**CONDITION**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %    | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|------|-----------------------|
| N                       | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 4.3                   |
| NNE                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 4.4                   |
| NE                      | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 7.7                   |
| ENE                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 4.0                   |
| E                       | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 5.0  | 4.5                   |
| ESE                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 6.0  | 5.7                   |
| SE                      | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 5.0  | 5.7                   |
| SSE                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 5.0  | 5.7                   |
| S                       | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 9.7  | 7.2                   |
| SSW                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 11.0 | 7.8                   |
| SW                      | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 6.0  | 6.6                   |
| WSW                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 7.0                   |
| W                       | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 5.0  | 5.7                   |
| WNW                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 6.0  | 5.1                   |
| NW                      | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 6.1                   |
| NNW                     | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 1.0  | 7.9                   |
| VARBL                   | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0    | 0                     |
| CALM                    | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0    | 0                     |

TOTAL NUMBER OF OBSERVATIONS

1164

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0 | 1.0                   |

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**TEAMS**

1318

— — —

**CONDITION**

[illegible]

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION MONTH  
YEAR  
HOURS

STATION NAME

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURE - LST

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

NOVEMBER 1957

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ DAY \_\_\_\_\_

HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 7.0 | 1.0                   |

TOTAL NUMBER OF OBSERVATIONS

7

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 11 5 7

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
AGREEMENT

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNN                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURE T L S T

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   | 2.0                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOUSE (L.S.T.)

CONDITION

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                        |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                        |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                        |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                        |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                          |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

1973



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
U.S. DEPARTMENT OF COMMERCE

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_  
CLASS \_\_\_\_\_ HOUR \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
 STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

NORTH

CLASS  
HOURS 1157

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| NE                      |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| E                       |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| SE                      |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| S                       |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| SW                      |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| W                       |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| NW                      |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |
|                         |     |     |      |       |       |       |       |       |       |       |     | 1.0 | 1.0                   |

TOTAL NUMBER OF OBSERVATIONS

1452

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOUR \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEAR

MONTH

HOURS LIST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 11.57

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
 STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   | 7.0                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   | 7.4                   |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

|         |              |       |             |
|---------|--------------|-------|-------------|
| STATION | STATION NAME | YEARS | MONTH       |
|         |              |       |             |
|         | CLASS        |       | MOUSE 11.57 |
|         | CONDITION    |       |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

## PART D

## CEILING VERSUS VISIBILITY

This section contains the percentage frequency distribution by classes of ceiling from zero to equal to or greater than 1000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - 1949 years and all hours combined
2. 1949 and 1950 years and all hours combined
3. 1949 and 1950 years and 3-hour groups

Due to the statistical nature of this presentation, it is possible to determine the percentage frequency of ceiling or visibility separately, or in combination of ceiling and visibility. The percentage frequency of ceiling may be determined independently by referring to the totals per row to the right and downward. Ceiling may be determined independently by referring to the totals in the extreme right hand column. Also, visibility may be determined independently by referring to the horizontal row of totals at the bottom of the page. The percentage frequency for any given set of ceiling or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

These tables are valid for Air Force stations and January 1949 for NAS and U.S. Navy stations the "no ceiling" category includes observations with less than 6/10 total sky cover and those cases where total sky cover is more than 6/10, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |         |     |         |         |     |       |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 3/4 |
| NO CEILING      |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 1500          |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 1500          |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 1200          |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 1200          |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 800           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 700           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 600           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 500           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 400           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 300           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 200           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 100           |                            |     |     |     |     |         |     |         |         |     |       |
| ≥ 0             |                            |     |     |     |     |         |     |         |         |     |       |

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.

Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



## PART D

## SKY COVER

Cloud amounts prepared from 3-hourly observations are in a percentage frequency distribution of total of cover and total number of observations. It is presented in two tables as follows:

Table 1 - Cloud amount - all hours and all years combined.

Table 2 - Cloud amount - all hours and all years combined.

Table 1 - Cloud amount (total cloud amount) was not reported by U.S. Services until mid 1949. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for other stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in overcast beginning sometime in 1945, but few stations have punched data prior to 1948. This report will, of course, be limited to period of available data.

Table 2 - Cloud amount or punched data used for this summary report cloud amounts in tenths. The conversion from tenths to tenths prior to summarizing, and notation is made on the form to indicate the manner of conversion originally reported in observations. The manner of conversion is given below:

| ORIGAS          | TENTHS |
|-----------------|--------|
| 0               | 0      |
| 1               | 1      |
| 2               | 3      |
| 3               | 4      |
| 4               | 5      |
| 5               | 6      |
| 6               | 8      |
| 7               | 9      |
| 8 (or obscured) | 10     |

Table 2 - Cloud amount and total cloud cover. Following are the conversions:

Clear converted to 0/10  
 Scattered converted to 3/10  
 Broken converted to 9/10  
 Overcast converted to 10/10  
 Obscured converted to 10/10

# CEILING VERSUS VISIBILITY

STA. ON \_\_\_\_\_ STATE NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |
| 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |
| U               |                            |     |     |     |     |      |     |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STA. ON

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |         |     |         |     |       |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |     |
| ≥ 20000         |                            |     |     |     |     |         |     |         |     |       |       |     |
| 18000           |                            |     |     |     |     |         |     |         |     |       |       |     |
| 15000           |                            |     |     |     |     |         |     |         |     |       |       |     |
| 12000           |                            |     |     |     |     |         |     |         |     |       |       |     |
| 10000           |                            |     |     |     |     |         |     |         |     |       |       |     |
| 9000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 8000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 7000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 6000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 5000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 4000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 3000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 2500            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 2000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 1800            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 1500            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 1200            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 1000            |                            |     |     |     |     |         |     |         |     |       |       |     |
| 900             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 800             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 700             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 600             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 400             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 300             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 200             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 100             |                            |     |     |     |     |         |     |         |     |       |       |     |
| 0               |                            |     |     |     |     |         |     |         |     |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|------|-------|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 40000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 35000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 30000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 25000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 20000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 15000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 10000           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 9000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 8000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 7000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 6000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 5000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 4500            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 4000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 3500            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 3000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 2500            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 2000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1500            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1000            |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 500             |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 0               |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

### PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

TOTAL NUMBER OF REFUGEEES

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY STATUTE MILES

2.5 2.4 2.3 2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

| 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 | 6.9 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 46.0 | 46.1 | 46.2 | 46.3 | 46.4 | 46.5 | 46.6 | 46.7 | 46.8 | 46.9 | 47.0 | 47.1 | 47.2 | 47.3 | 47.4 | 47.5 | 47.6 | 47.7 | 47.8 | 47.9 | 48.0 | 48.1 | 48.2 | 48.3 | 48.4 | 48.5 | 48.6 | 48.7 | 48.8 | 48.9 | 49.0 | 49.1 | 49.2 | 49.3 | 49.4 | 49.5 | 49.6 | 49.7 | 49.8 | 49.9 | 50.0 | 50.1 | 50.2 | 50.3 | 50.4 | 50.5 | 50.6 | 50.7 | 50.8 | 50.9 | 51.0 | 51.1 | 51.2 | 51.3 | 51.4 | 51.5 | 51.6 | 51.7 | 51.8 | 51.9 | 52.0 | 52.1 | 52.2 | 52.3 | 52.4 | 52.5 | 52.6 | 52.7 | 52.8 | 52.9 | 53.0 | 53.1 | 53.2 | 53.3 | 53.4 | 53.5 | 53.6 | 53.7 | 53.8 | 53.9 | 54.0 | 54.1 | 54.2 | 54.3 | 54.4 | 54.5 | 54.6 | 54.7 | 54.8 | 54.9 | 55.0 | 55.1 | 55.2 | 55.3 | 55.4 | 55.5 | 55.6 | 55.7 | 55.8 | 55.9 | 56.0 | 56.1 | 56.2 | 56.3 | 56.4 | 56.5 | 56.6 | 56.7 | 56.8 | 56.9 | 57.0 | 57.1 | 57.2 | 57.3 | 57.4 | 57.5 | 57.6 | 57.7 | 57.8 | 57.9 | 58.0 | 58.1 | 58.2 | 58.3 | 58.4 | 58.5 | 58.6 | 58.7 | 58.8 | 58.9 | 59.0 | 59.1 | 59.2 | 59.3 | 59.4 | 59.5 | 59.6 | 59.7 | 59.8 | 59.9 | 60.0 | 60.1 | 60.2 | 60.3 | 60.4 | 60.5 | 60.6 | 60.7 | 60.8 | 60.9 | 61.0 | 61.1 | 61.2 | 61.3 | 61.4 | 61.5 | 61.6 | 61.7 | 61.8 | 61.9 | 62.0 | 62.1 | 62.2 | 62.3 | 62.4 | 62.5 | 62.6 | 62.7 | 62.8 | 62.9 | 63.0 | 63.1 | 63.2 | 63.3 | 63.4 | 63.5 | 63.6 | 63.7 | 63.8 | 63.9 | 64.0 | 64.1 | 64.2 | 64.3 | 64.4 | 64.5 | 64.6 | 64.7 | 64.8 | 64.9 | 65.0 | 65.1 | 65.2 | 65.3 | 65.4 | 65.5 | 65.6 | 65.7 | 65.8 | 65.9 | 66.0 | 66.1 | 66.2 | 66.3 | 66.4 | 66.5 | 66.6 | 66.7 | 66.8 | 66.9 | 67.0 | 67.1 | 67.2 | 67.3 | 67.4 | 67.5 | 67.6 | 67.7 | 67.8 | 67.9 | 68.0 | 68.1 | 68.2 | 68.3 | 68.4 | 68.5 | 68.6 | 68.7 | 68.8 | 68.9 | 69.0 | 69.1 | 69.2 | 69.3 | 69.4 | 69.5 | 69.6 | 69.7 | 69.8 | 69.9 | 70.0 | 70.1 | 70.2 | 70.3 | 70.4 | 70.5 | 70.6 | 70.7 | 70.8 | 70.9 | 71.0 | 71.1 | 71.2 | 71.3 | 71.4 | 71.5 | 71.6 | 71.7 | 71.8 | 71.9 | 72.0 | 72.1 | 72.2 | 72.3 | 72.4 | 72.5 | 72.6 | 72.7 | 72.8 | 72.9 | 73.0 | 73.1 | 73.2 | 73.3 | 73.4 | 73.5 | 73.6 | 73.7 | 73.8 | 73.9 | 74.0 | 74.1 | 74.2 | 74.3 | 74.4 | 74.5 | 74.6 | 74.7 | 74.8 | 74.9 | 75.0 | 75.1 | 75.2 | 75.3 | 75.4 | 75.5 | 75.6 | 75.7 | 75.8 | 75.9 | 76.0 | 76.1 | 76.2 | 76.3 | 76.4 | 76.5 | 76.6 | 76.7 | 76.8 | 76.9 | 77.0 | 77.1 | 77.2 | 77.3 | 77.4 | 77.5 | 77.6 | 77.7 | 77.8 | 77.9 | 78.0 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 78.6 | 78.7 | 78.8 | 78.9 | 79.0 | 79.1 | 79.2 | 79.3 | 79.4 | 79.5 | 79.6 | 79.7 | 79.8 | 79.9 | 80.0 | 80.1 | 80.2 | 80.3 | 80.4 | 80.5 | 80.6 | 80.7 | 80.8 | 80.9 | 81.0 | 81.1 | 81.2 | 81.3 | 81.4 | 81.5 | 81.6 | 81.7 | 81.8 | 81.9 | 82.0 | 82.1 | 82.2 | 82.3 | 82.4 | 82.5 | 82.6 | 82.7 | 82.8 | 82.9 | 83.0 | 83.1 | 83.2 | 83.3 | 83.4 | 83.5 | 83.6 | 83.7 | 83.8 | 83.9 | 84.0 | 84.1 | 84.2 | 84.3 | 84.4 | 84.5 | 84.6 | 84.7 | 84.8 | 84.9 | 85.0 | 85.1 | 85.2 | 85.3 | 85.4 | 85.5 | 85.6 | 85.7 | 85.8 | 85.9 | 86.0 | 86.1 | 86.2 | 86.3 | 86.4 | 86.5 | 86.6 | 86.7 | 86.8 | 86.9 | 87.0 | 87.1 | 87.2 | 87.3 | 87.4 | 87.5 | 87.6 | 87.7 | 87.8 | 87.9 | 88.0 | 88.1 | 88.2 | 88.3 | 88.4 | 88.5 | 88.6 | 88.7 | 88.8 | 88.9 | 89.0 | 89.1 | 89.2 | 89.3 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.9 | 90.0 | 90.1 | 90.2 | 90.3 | 90.4 | 90.5 | 90.6 | 90.7 | 90.8 | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 | 91.4 | 91.5 | 91.6 | 91.7 | 91.8 | 91.9 | 92.0 | 92.1 | 92.2 | 92.3 | 92.4 | 92.5 | 92.6 | 92.7 | 92.8 | 92.9 | 93.0 | 93.1 | 93.2 | 93.3 | 93.4 | 93.5 | 93.6 | 93.7 | 93.8 | 93.9 | 94.0 | 94.1 | 94.2 | 94.3 | 94.4 | 94.5 | 94.6 | 94.7 | 94.8 | 94.9 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | 95.5 | 95.6 | 95.7 | 95.8 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 96.7 | 96.8 | 96.9 | 97.0 | 97.1 | 97.2 | 97.3 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | 97.9 | 98.0 | 98.1 | 98.2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | 98.8 | 98.9 | 99.0 | 99.1 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 | 100.1 | 100.2 | 100.3 | 100.4 | 100.5 | 100.6 | 100.7 | 100.8 | 100.9 | 101.0 | 101.1 | 101.2 | 101.3 | 101.4 | 101.5 | 101.6 | 101.7 | 101.8 | 101.9 | 102.0 | 102.1 | 102.2 | 102.3 | 102.4 | 102.5 | 102.6 | 102.7 | 102.8 | 102.9 | 103.0 | 103.1 | 103.2 | 103.3 | 103.4 | 103.5 | 103.6 | 103.7 | 103.8 | 103.9 | 104.0 | 104.1 | 104.2 | 104.3 | 104.4 | 104.5 | 104.6 | 104.7 | 104.8 | 104.9 | 105.0 | 105.1 | 105.2 | 105.3 | 105.4 | 105.5 | 105.6 | 105.7 | 105.8 | 105.9 | 106.0 | 106.1 | 106.2 | 106.3 | 106.4 | 106.5 | 106.6 | 106.7 | 106.8 | 106.9 | 107.0 | 107.1 | 107.2 | 107.3 | 107.4 | 107.5 | 107.6 | 107.7 | 107.8 | 107.9 | 108.0 | 108.1 | 108.2 | 108.3 | 108.4 | 108.5 | 108.6 | 108.7 | 108.8 | 108.9 | 109.0 | 109.1 | 109.2 | 109.3 | 109.4 | 109.5 | 109.6 | 109.7 | 109.8 | 109.9 | 110.0 | 110.1 | 110.2 | 110.3 | 110.4 | 110.5 | 110.6 | 110.7 | 110.8 | 110.9 | 111.0 | 111.1 | 111.2 | 111.3 | 111.4 | 111.5 | 111.6 | 111.7 | 111.8 | 111.9 | 112.0 | 112.1 | 112.2 | 112.3 | 112.4 | 112.5 | 112.6 | 112.7 | 112.8 | 112.9 | 113.0 | 113.1 | 113.2 | 113.3 | 113.4 | 113.5 | 113.6 | 113.7 | 113.8 | 113.9 | 114.0 | 114.1 | 114.2 | 114.3 | 114.4 | 114.5 | 114.6 | 114.7 | 114.8 | 114.9 | 115.0 | 115.1 | 115.2 | 115.3 | 115.4 | 115.5 | 115.6 | 115.7 | 115.8 | 115.9 | 116.0 | 116.1 | 116.2 | 116.3 | 116.4 | 116.5 | 116.6 | 116.7 | 116.8 | 116.9 | 117.0 | 117.1 | 117.2 | 117.3 | 117.4 | 117.5 | 117.6 | 117.7 | 117.8 | 117.9 | 118.0 | 118.1 | 118.2 | 118.3 | 118.4 | 118.5 | 118.6 | 118.7 | 118.8 | 118.9 | 119.0 | 119.1 | 119.2 | 119.3 | 119.4 | 119.5 | 119.6 | 119.7 | 119.8 | 119.9 | 120.0 | 120.1 | 120.2 | 120.3 | 120.4 | 120.5 | 120.6 | 120.7 | 120.8 | 120.9 | 121.0 | 121.1 | 121.2 | 121.3 | 121.4 | 121.5 | 121.6 | 121.7 | 121.8 | 121.9 | 122.0 | 122.1 | 122.2 | 122.3 | 122.4 | 122.5 | 122.6 | 122.7 | 122.8 | 122.9 | 123.0 | 123.1 | 123.2 | 123.3 | 123.4 | 123.5 | 123.6 | 123.7 | 123.8 | 123.9 | 124.0 | 124.1 | 124.2 | 124.3 | 124.4 | 124.5 | 124.6 | 124.7 | 124.8 | 124.9 | 125.0 | 125.1 | 125.2 | 125.3 | 125.4 | 125.5 | 125.6 | 125.7 | 125.8 | 125.9 | 126.0 | 126.1 | 126.2 | 126.3 | 126.4 | 126.5 | 126.6 | 126.7 | 126.8 | 126.9 | 127.0 | 127.1 | 127.2 | 127.3 | 127.4 | 127.5 | 127.6 | 127.7 | 127.8 | 127.9 | 128.0 | 128.1 | 128.2 | 128.3 | 128.4 | 128.5 | 128.6 | 128.7 | 128.8 | 128.9 | 129.0 | 129.1 | 129.2 | 129.3 | 129.4 | 129.5 | 129.6 | 129.7 | 129.8 | 129.9 | 130.0 | 130.1 | 130.2 | 130.3 | 130.4 | 130.5 | 130.6 | 130.7 | 130.8 | 130.9 | 131.0 | 131.1 | 131.2 | 131.3 | 131.4 | 131.5 | 131.6 | 131.7 | 131.8 | 131.9 | 132.0 | 132.1 | 132.2 | 132.3 | 132.4 | 132.5 | 132.6 | 132.7 | 132.8 | 132.9 | 133.0 | 133.1 | 133.2 | 133.3 | 133.4 | 133.5 | 133.6 | 133.7 | 133.8 | 133.9 | 134.0 | 134.1 | 134.2 | 134.3 | 134.4 | 134.5 | 134.6</ |
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# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS:

[illegible]

TOTAL NUMBER OF OBSER. AT: 45



# CEILING VERSUS VISIBILITY

STATION NAME

STATION

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |         |     |         |     |       |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|---------|-----|---------|-----|-------|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 1/2 |
| NO CEILING      |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 20000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 18000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 16000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 14000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 12000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 10000           |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 9000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 8000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 7000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 6000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 5000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 4500            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 4000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 3500            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 3000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 2500            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 2000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 1800            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 1500            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 1200            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 1000            |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 900             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 800             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 700             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 600             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 500             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 400             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 300             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 200             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 100             |                            |     |     |     |     |     |     |     |         |     |         |     |       |
| 0               |                            |     |     |     |     |     |     |     |         |     |         |     |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME YEARS MONTH HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO. CEILING     |                            |     |     |     |     |      |     |      |     |     |     |     |
| 40000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 30000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |
| U               |                            |     |     |     |     |      |     |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_  
 YEARS: \_\_\_\_\_  
 MONTH: \_\_\_\_\_  
 HOURS: \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/5 | ≥ 1/10 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATE

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 20000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 18000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 16000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 14000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 12000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 10000        |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 9000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 8000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 7000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 6000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 5000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 4500         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 4000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 3500         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 3000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 2500         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 2000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 1800         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 1500         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 1200         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 1000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 900          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 800          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 700          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 500          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 400          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 300          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 200          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| At 100          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| U               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

RECORD NO. \_\_\_\_\_

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1600            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1400            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                 | 2.0                        | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ABILITY STATEMENTS

10

|      |      |
|------|------|
| ALAI | 8000 |
| ALAI | 7900 |
| ALAI | 7800 |
| ALAI | 7700 |
| ALAI | 7600 |
| ALAI | 7500 |
| ALAI | 7400 |
| ALAI | 7300 |
| ALAI | 7200 |
| ALAI | 7100 |
| ALAI | 7000 |
| ALAI | 6900 |
| ALAI | 6800 |
| ALAI | 6700 |
| ALAI | 6600 |
| ALAI | 6500 |
| ALAI | 6400 |
| ALAI | 6300 |
| ALAI | 6200 |
| ALAI | 6100 |
| ALAI | 6000 |
| ALAI | 5900 |
| ALAI | 5800 |
| ALAI | 5700 |
| ALAI | 5600 |
| ALAI | 5500 |
| ALAI | 5400 |
| ALAI | 5300 |
| ALAI | 5200 |
| ALAI | 5100 |
| ALAI | 5000 |
| ALAI | 4900 |
| ALAI | 4800 |
| ALAI | 4700 |
| ALAI | 4600 |
| ALAI | 4500 |
| ALAI | 4400 |
| ALAI | 4300 |
| ALAI | 4200 |
| ALAI | 4100 |
| ALAI | 4000 |
| ALAI | 3900 |
| ALAI | 3800 |
| ALAI | 3700 |
| ALAI | 3600 |
| ALAI | 3500 |
| ALAI | 3400 |
| ALAI | 3300 |
| ALAI | 3200 |
| ALAI | 3100 |
| ALAI | 3000 |
| ALAI | 2900 |
| ALAI | 2800 |
| ALAI | 2700 |
| ALAI | 2600 |
| ALAI | 2500 |
| ALAI | 2400 |
| ALAI | 2300 |
| ALAI | 2200 |
| ALAI | 2100 |
| ALAI | 2000 |
| ALAI | 1900 |
| ALAI | 1800 |
| ALAI | 1700 |
| ALAI | 1600 |
| ALAI | 1500 |
| ALAI | 1400 |
| ALAI | 1300 |
| ALAI | 1200 |
| ALAI | 1100 |
| ALAI | 1000 |
| ALAI | 900  |
| ALAI | 800  |
| ALAI | 700  |
| ALAI | 600  |
| ALAI | 500  |
| ALAI | 400  |
| ALAI | 300  |
| ALAI | 200  |
| ALAI | 100  |

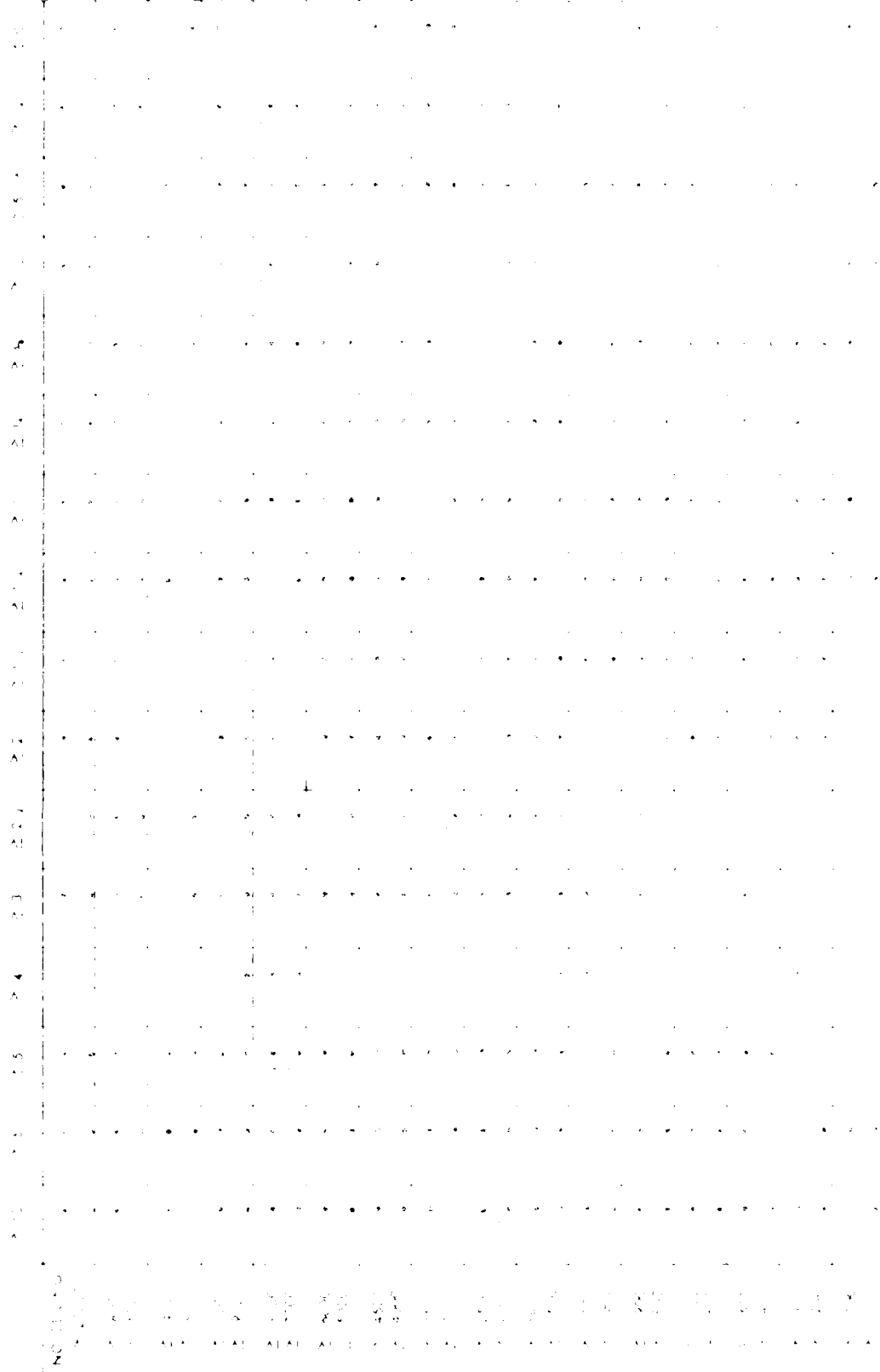
TOTAL NUMBER OF CIPHER-AT-TACS



# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES



# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0

11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0

31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0 40.0

41.0 42.0 43.0 44.0 45.0 46.0 47.0 48.0 49.0 50.0

51.0 52.0 53.0 54.0 55.0 56.0 57.0 58.0 59.0 60.0

61.0 62.0 63.0 64.0 65.0 66.0 67.0 68.0 69.0 70.0

71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0

81.0 82.0 83.0 84.0 85.0 86.0 87.0 88.0 89.0 90.0

91.0 92.0 93.0 94.0 95.0 96.0 97.0 98.0 99.0 100.0

101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0

111.0 112.0 113.0 114.0 115.0 116.0 117.0 118.0 119.0 120.0

121.0 122.0 123.0 124.0 125.0 126.0 127.0 128.0 129.0 130.0

131.0 132.0 133.0 134.0 135.0 136.0 137.0 138.0 139.0 140.0

141.0 142.0 143.0 144.0 145.0 146.0 147.0 148.0 149.0 150.0

151.0 152.0 153.0 154.0 155.0 156.0 157.0 158.0 159.0 160.0

161.0 162.0 163.0 164.0 165.0 166.0 167.0 168.0 169.0 170.0

171.0 172.0 173.0 174.0 175.0 176.0 177.0 178.0 179.0 180.0

181.0 182.0 183.0 184.0 185.0 186.0 187.0 188.0 189.0 190.0

191.0 192.0 193.0 194.0 195.0 196.0 197.0 198.0 199.0 200.0

201.0 202.0 203.0 204.0 205.0 206.0 207.0 208.0 209.0 210.0

211.0 212.0 213.0 214.0 215.0 216.0 217.0 218.0 219.0 220.0

221.0 222.0 223.0 224.0 225.0 226.0 227.0 228.0 229.0 230.0

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

DATE

TIME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-------|-------|--------|--------|--------|---------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| ≥ 20000         |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 18000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 16000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 14000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 12000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 10000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 9000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 8000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 7000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 6000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 5000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 4500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 4000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 3500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 3000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 2500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 2000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1800            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1600            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1400            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1200            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 900             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 800             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 700             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 600             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 400             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 300             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 200             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 100             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 0               |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY STATUTE MILES

2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0 19.5 20.0 20.5 21.0 21.5 22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0 28.5 29.0 29.5 30.0 30.5 31.0 31.5 32.0 32.5 33.0 33.5 34.0 34.5 35.0 35.5 36.0 36.5 37.0 37.5 38.0 38.5 39.0 39.5 40.0 40.5 41.0 41.5 42.0 42.5 43.0 43.5 44.0 44.5 45.0 45.5 46.0 46.5 47.0 47.5 48.0 48.5 49.0 49.5 50.0 50.5 51.0 51.5 52.0 52.5 53.0 53.5 54.0 54.5 55.0 55.5 56.0 56.5 57.0 57.5 58.0 58.5 59.0 59.5 60.0 60.5 61.0 61.5 62.0 62.5 63.0 63.5 64.0 64.5 65.0 65.5 66.0 66.5 67.0 67.5 68.0 68.5 69.0 69.5 70.0 70.5 71.0 71.5 72.0 72.5 73.0 73.5 74.0 74.5 75.0 75.5 76.0 76.5 77.0 77.5 78.0 78.5 79.0 79.5 80.0 80.5 81.0 81.5 82.0 82.5 83.0 83.5 84.0 84.5 85.0 85.5 86.0 86.5 87.0 87.5 88.0 88.5 89.0 89.5 90.0 90.5 91.0 91.5 92.0 92.5 93.0 93.5 94.0 94.5 95.0 95.5 96.0 96.5 97.0 97.5 98.0 98.5 99.0 99.5 100.0

1000 900 800 700 600 500 400 300 200 100 0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
|-----------------|----------------------------|------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|-------|
|                 | NO CEILING                 | ≥ 10 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 1/4 |
| 20000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 18000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 16000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 14000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 12000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 10000           | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 9000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 8000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 7000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 6000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 5000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 4500            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 4000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 3500            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 3000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 2500            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 2000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 1800            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 1500            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 1200            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 1000            | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 900             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 800             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 700             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 600             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 500             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 400             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 300             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 200             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 100             | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |
| 0               | AI                         |      |     |     |     |     |      |     |      |     |     |     |     |       |        |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0

100 90 80 70 60 50 40 30 20 10 0

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|------|------|------|------|-------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .2 | ≥ .1 | ≥ .05 | ≥ .02 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 15000           |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 1800            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 1200            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 900             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 800             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 700             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 600             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 400             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 300             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 200             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |      |      |      |      |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |       |     |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 |
| NO CEILING      |                            |     |     |     |     |     |     |     |       |     |       |     |
| 20000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 18000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 16000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 14000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 12000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 10000           |                            |     |     |     |     |     |     |     |       |     |       |     |
| 9000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 8000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 7000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 6000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 5000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 4500            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 4000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 3500            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 3000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 2500            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 2000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 1800            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 1500            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 1200            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 1000            |                            |     |     |     |     |     |     |     |       |     |       |     |
| 900             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 800             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 700             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 500             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 400             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 300             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 200             |                            |     |     |     |     |     |     |     |       |     |       |     |
| 100             |                            |     |     |     |     |     |     |     |       |     |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

CEILING - FEET

NO. OF OBS.

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TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 18000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 15000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 14000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 12000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 10000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 9000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 8000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 7000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 6000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 5000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 4500          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 4000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 3500          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 3000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 2500          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 2000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 1800          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 1500          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 1200          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 1000          |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 900           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 800           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 700           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 600           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 500           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 400           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 300           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 200           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 100           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 0             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME  
YEAR  
MONTH  
PLACES LIST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|------|-------|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 20000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 18000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 16000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 14000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 12000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 10000           | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 9000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 8000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 7000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 6000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 5000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 4500            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 4000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 3500            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 3000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 2500            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 2000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1800            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1500            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1200            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 1000            | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 900             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 800             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 700             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 600             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 500             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 400             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 300             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 200             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 100             | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |
| 0               | AI                         |     |     |     |     |     |     |     |       |     |       |     |       |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

### PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

U. S. S. A. T. U. S. S. A.

THE UNIVERSITY OF CHICAGO

# CEILING VERSUS VISIBILITY

### PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS:

U.S. BILLY CLAT, TE MICH

TOTAL AVAILABLE INVENTORY



# CEILING VERSUS VISIBILITY

### PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS:

W. B. L. T. STATE M. L.

TOTAL NUMBER OF TRIPS: 42

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FOR HOURLY OBSERVATIONS

1950-1959



U.S. AIR FORCE

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM MONTHLY OBSERVATIONS

PERCENT FREQUENCY

PERCENT FREQUENCY OF OCCURRENCE

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PERCENT FREQUENCY OF OCCURRENCE

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

STATION NAME

DATE

| CEILING | PERCENTAGE FREQUENCY OF OCCURRENCE |
|---------|------------------------------------|
| 1000    |                                    |
| 900     |                                    |
| 800     |                                    |
| 700     |                                    |
| 600     |                                    |
| 500     |                                    |
| 400     |                                    |
| 300     |                                    |
| 200     |                                    |
| 100     |                                    |
| 50      |                                    |
| 20      |                                    |
| 10      |                                    |
| 5       |                                    |
| 2       |                                    |
| 1       |                                    |
| 0       |                                    |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

NO. OF

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
|-----------------|---------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|
|                 | ≥ 10                      | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 |
| NO CEILING      |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| ≥ 20000         |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 18000           |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 16000           |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 14000           |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 12000           |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 10000           |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 9000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 8000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 7000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 6000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 5000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 4500            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 4000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 3500            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 3000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 2500            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 2000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 1800            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 1600            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 1400            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 1200            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 1000            |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 900             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 800             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 700             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 600             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 500             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 400             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 300             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 200             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 100             |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |
| 0               |                           |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

STATION NUMBER

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-------|-------|--------|--------|--------|---------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| ≥ 20000         |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 18000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 16000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 14000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 12000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 10000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 9000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 8000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 7000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 6000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 5000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 4500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 4000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 3500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 3000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 2500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 2000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1800            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1200            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 1000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 900             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 800             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 700             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 400             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 300             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 200             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 100             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |
| 0               |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |         |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

STATION NUMBER

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS LIST

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY - STATUTE MILES

2.0

2.5

3.0

3.5

4.0

4.5

5.0

5.5

6.0

6.5

7.0

7.5

8.0

8.5

9.0

9.5

10.0

10.5

11.0

11.5

12.0

12.5

13.0

13.5

14.0

14.5

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |     |      |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |     |
| 750             |                            |     |     |     |     |       |     |       |     |      |       |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |     |
| 250             |                            |     |     |     |     |       |     |       |     |      |       |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATE OR TERRITORY

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .01 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 1800            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 1600            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 1400            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 1200            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 900             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 800             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 700             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 600             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 400             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 300             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 200             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| ELEVATION<br>Feet | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 |
| NO CEILING        |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000              |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000              |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000              |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000              |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000              |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0                 |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME

PLACES

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY - STATUTE MILES

| CEILING - FEET | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 | 6.9 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 46.0 | 46.1 | 46.2 | 46.3 | 46.4 | 46.5 | 46.6 | 46.7 | 46.8 | 46.9 | 47.0 | 47.1 | 47.2 | 47.3 | 47.4 | 47.5 | 47.6 | 47.7 | 47.8 | 47.9 | 48.0 | 48.1 | 48.2 | 48.3 | 48.4 | 48.5 | 48.6 | 48.7 | 48.8 | 48.9 | 49.0 | 49.1 | 49.2 | 49.3 | 49.4 | 49.5 | 49.6 | 49.7 | 49.8 | 49.9 | 50.0 | 50.1 | 50.2 | 50.3 | 50.4 | 50.5 | 50.6 | 50.7 | 50.8 | 50.9 | 51.0 | 51.1 | 51.2 | 51.3 | 51.4 | 51.5 | 51.6 | 51.7 | 51.8 | 51.9 | 52.0 | 52.1 | 52.2 | 52.3 | 52.4 | 52.5 | 52.6 | 52.7 | 52.8 | 52.9 | 53.0 | 53.1 | 53.2 | 53.3 | 53.4 | 53.5 | 53.6 | 53.7 | 53.8 | 53.9 | 54.0 | 54.1 | 54.2 | 54.3 | 54.4 | 54.5 | 54.6 | 54.7 | 54.8 | 54.9 | 55.0 | 55.1 | 55.2 | 55.3 | 55.4 | 55.5 | 55.6 | 55.7 | 55.8 | 55.9 | 56.0 | 56.1 | 56.2 | 56.3 | 56.4 | 56.5 | 56.6 | 56.7 | 56.8 | 56.9 | 57.0 | 57.1 | 57.2 | 57.3 | 57.4 | 57.5 | 57.6 | 57.7 | 57.8 | 57.9 | 58.0 | 58.1 | 58.2 | 58.3 | 58.4 | 58.5 | 58.6 | 58.7 | 58.8 | 58.9 | 59.0 | 59.1 | 59.2 | 59.3 | 59.4 | 59.5 | 59.6 | 59.7 | 59.8 | 59.9 | 60.0 | 60.1 | 60.2 | 60.3 | 60.4 | 60.5 | 60.6 | 60.7 | 60.8 | 60.9 | 61.0 | 61.1 | 61.2 | 61.3 | 61.4 | 61.5 | 61.6 | 61.7 | 61.8 | 61.9 | 62.0 | 62.1 | 62.2 | 62.3 | 62.4 | 62.5 | 62.6 | 62.7 | 62.8 | 62.9 | 63.0 | 63.1 | 63.2 | 63.3 | 63.4 | 63.5 | 63.6 | 63.7 | 63.8 | 63.9 | 64.0 | 64.1 | 64.2 | 64.3 | 64.4 | 64.5 | 64.6 | 64.7 | 64.8 | 64.9 | 65.0 | 65.1 | 65.2 | 65.3 | 65.4 | 65.5 | 65.6 | 65.7 | 65.8 | 65.9 | 66.0 | 66.1 | 66.2 | 66.3 | 66.4 | 66.5 | 66.6 | 66.7 | 66.8 | 66.9 | 67.0 | 67.1 | 67.2 | 67.3 | 67.4 | 67.5 | 67.6 | 67.7 | 67.8 | 67.9 | 68.0 | 68.1 | 68.2 | 68.3 | 68.4 | 68.5 | 68.6 | 68.7 | 68.8 | 68.9 | 69.0 | 69.1 | 69.2 | 69.3 | 69.4 | 69.5 | 69.6 | 69.7 | 69.8 | 69.9 | 70.0 | 70.1 | 70.2 | 70.3 | 70.4 | 70.5 | 70.6 | 70.7 | 70.8 | 70.9 | 71.0 | 71.1 | 71.2 | 71.3 | 71.4 | 71.5 | 71.6 | 71.7 | 71.8 | 71.9 | 72.0 | 72.1 | 72.2 | 72.3 | 72.4 | 72.5 | 72.6 | 72.7 | 72.8 | 72.9 | 73.0 | 73.1 | 73.2 | 73.3 | 73.4 | 73.5 | 73.6 | 73.7 | 73.8 | 73.9 | 74.0 | 74.1 | 74.2 | 74.3 | 74.4 | 74.5 | 74.6 | 74.7 | 74.8 | 74.9 | 75.0 | 75.1 | 75.2 | 75.3 | 75.4 | 75.5 | 75.6 | 75.7 | 75.8 | 75.9 | 76.0 | 76.1 | 76.2 | 76.3 | 76.4 | 76.5 | 76.6 | 76.7 | 76.8 | 76.9 | 77.0 | 77.1 | 77.2 | 77.3 | 77.4 | 77.5 | 77.6 | 77.7 | 77.8 | 77.9 | 78.0 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 78.6 | 78.7 | 78.8 | 78.9 | 79.0 | 79.1 | 79.2 | 79.3 | 79.4 | 79.5 | 79.6 | 79.7 | 79.8 | 79.9 | 80.0 | 80.1 | 80.2 | 80.3 | 80.4 | 80.5 | 80.6 | 80.7 | 80.8 | 80.9 | 81.0 | 81.1 | 81.2 | 81.3 | 81.4 | 81.5 | 81.6 | 81.7 | 81.8 | 81.9 | 82.0 | 82.1 | 82.2 | 82.3 | 82.4 | 82.5 | 82.6 | 82.7 | 82.8 | 82.9 | 83.0 | 83.1 | 83.2 | 83.3 | 83.4 | 83.5 | 83.6 | 83.7 | 83.8 | 83.9 | 84.0 | 84.1 | 84.2 | 84.3 | 84.4 | 84.5 | 84.6 | 84.7 | 84.8 | 84.9 | 85.0 | 85.1 | 85.2 | 85.3 | 85.4 | 85.5 | 85.6 | 85.7 | 85.8 | 85.9 | 86.0 | 86.1 | 86.2 | 86.3 | 86.4 | 86.5 | 86.6 | 86.7 | 86.8 | 86.9 | 87.0 | 87.1 | 87.2 | 87.3 | 87.4 | 87.5 | 87.6 | 87.7 | 87.8 | 87.9 | 88.0 | 88.1 | 88.2 | 88.3 | 88.4 | 88.5 | 88.6 | 88.7 | 88.8 | 88.9 | 89.0 | 89.1 | 89.2 | 89.3 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.9 | 90.0 | 90.1 | 90.2 | 90.3 | 90.4 | 90.5 | 90.6 | 90.7 | 90.8 | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 | 91.4 | 91.5 | 91.6 | 91.7 | 91.8 | 91.9 | 92.0 | 92.1 | 92.2 | 92.3 | 92.4 | 92.5 | 92.6 | 92.7 | 92.8 | 92.9 | 93.0 | 93.1 | 93.2 | 93.3 | 93.4 | 93.5 | 93.6 | 93.7 | 93.8 | 93.9 | 94.0 | 94.1 | 94.2 | 94.3 | 94.4 | 94.5 | 94.6 | 94.7 | 94.8 | 94.9 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | 95.5 | 95.6 | 95.7 | 95.8 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 96.7 | 96.8 | 96.9 | 97.0 | 97.1 | 97.2 | 97.3 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | 97.9 | 98.0 | 98.1 | 98.2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | 98.8 | 98.9 | 99.0 | 99.1 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 | 100.1 | 100.2 | 100.3 | 100.4 | 100.5 | 100.6 | 100.7 | 100.8 | 100.9 | 101.0 | 101.1 | 101.2 | 101.3 | 101.4 | 101.5 | 101.6 | 101.7 | 101.8 | 101.9 | 102.0 | 102.1 | 102.2 | 102.3 | 102.4 | 102.5 | 102.6 | 102.7 | 102.8 | 102.9 | 103.0 | 103.1 | 103.2 | 103.3 | 103.4 | 103.5 | 103.6 | 103.7 | 103.8 | 103.9 | 104.0 | 104.1 | 104.2 | 104.3 | 104.4 | 104.5 | 104.6 | 104.7 | 104.8 | 104.9 | 105.0 | 105.1 | 105.2 | 105.3 | 105.4 | 105.5 | 105.6 | 105.7 | 105.8 | 105.9 | 106.0 | 106.1 | 106.2 | 106.3 | 106.4 | 106.5 | 106.6 | 106.7 | 106.8 | 106.9 | 107.0 | 107.1 | 107.2 | 107.3 | 107.4 | 107.5 | 107.6 | 107.7 | 107.8 | 107.9 | 108.0 | 108.1 | 108.2 | 108.3 | 108.4 | 108.5 | 108.6 | 108.7 | 108.8 | 108.9 | 109.0 | 109.1 | 109.2 | 109.3 | 109.4 | 109.5 | 109.6 | 109.7 | 109.8 | 109.9 | 110.0 | 110.1 | 110.2 | 110.3 | 110.4 | 110.5 | 110.6 | 110.7 | 110.8 | 110.9 | 111.0 | 111.1 | 111.2 | 111.3 | 111.4 | 111.5 | 111.6 | 111.7 | 111.8 | 111.9 | 112.0 | 112.1 | 112.2 | 112.3 | 112.4 | 112.5 | 112.6 | 112.7 | 112.8 | 112.9 | 113.0 | 113.1 | 113.2 | 113.3 | 113.4 | 113.5 | 113.6 | 113.7 | 113.8 | 113.9 | 114.0 | 114.1 | 114.2 | 114.3 | 114.4 | 114.5 | 114.6 | 114.7 | 114.8 | 114.9 | 115.0 | 115.1 | 115.2 | 115.3 | 115.4 | 115.5 | 115.6 | 115.7 | 115.8 | 115.9 | 116.0 | 116.1 | 116.2 | 116.3 | 116.4 | 116.5 | 116.6 | 116.7 | 116.8 | 116.9 | 117.0 | 117.1 | 117.2 | 117.3 | 117.4 | 117.5 | 117.6 | 117.7 | 117.8 | 117.9 | 118.0 | 118.1 | 118.2 | 118.3 | 118.4 | 118.5 | 118.6 | 118.7 | 118.8 | 118.9 | 119.0 | 119.1 | 119.2 | 119.3 | 119.4 | 119.5 | 119.6 | 119.7 | 119.8 | 119.9 | 120.0 | 120.1 | 120.2 | 120.3 | 120.4 | 120.5 | 120.6 | 120.7 | 120.8 | 120.9 | 121.0 | 121.1 | 121.2 | 121.3 | 121.4 | 121.5 | 121.6 | 121.7 | 121.8 | 121.9 | 122.0 | 122.1 | 122.2 | 122.3 | 122.4 | 122.5 | 122.6 | 122.7 | 122.8 | 122.9 | 123.0 | 123.1 | 123.2 | 123.3 | 123.4 | 123.5 | 123.6 | 123.7 | 123.8 | 123.9 | 124.0 | 124.1 | 124.2 | 124.3 | 124.4 | 124.5 | 124.6 | 124.7 | 124.8 | 124.9 | 125.0 | 125.1 | 125.2 | 125.3 | 125.4 | 125.5 | 125.6 | 125.7 | 125.8 | 125.9 | 126.0 | 126.1 | 126.2 | 126.3 | 126.4 | 126.5 | 126.6 | 126.7 | 126.8 | 126.9 | 127.0 | 127.1 | 127.2 | 127.3 | 127.4 | 127.5 | 127.6 | 127.7 | 127.8 | 127.9 | 128.0 | 128.1 | 128.2 | 128.3 | 128.4 | 128.5 | 128.6 | 128.7 | 128.8 | 128.9 | 129.0 | 129.1 | 129.2 | 129.3 | 129.4 | 129.5 | 129.6 | 129.7 | 129.8 | 129.9 | 130.0 | 130.1 | 130.2 | 130.3 | 130.4 | 130.5 | 130.6 | 130.7 | 130.8 | 130.9 | 131.0 | 131.1 | 131.2 | 131.3 | 131.4 | 131.5 | 131.6 | 131.7 | 131.8 | 131.9 | 132.0 | 132.1 | 132.2 | 132.3 | 132.4 | 132.5 | 132.6 | 132.7 | 132.8 | 132.9 | 133.0 | 133.1 | 133.2 | 133.3 | 133.4 | 133.5 | 133.6 | 133.7</ |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-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# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET

|  | ≥ 10 | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 | ≥ 1 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 | ≥ 1/256 | ≥ 1/512 | ≥ 1/1024 | ≥ 1/2048 | ≥ 1/4096 | ≥ 1/8192 | ≥ 1/16384 | ≥ 1/32768 | ≥ 1/65536 | ≥ 1/131072 | ≥ 1/262144 | ≥ 1/524288 | ≥ 1/1048576 | ≥ 1/2097152 | ≥ 1/4194304 | ≥ 1/8388608 | ≥ 1/16777216 | ≥ 1/33554432 | ≥ 1/67108864 | ≥ 1/134217728 | ≥ 1/268435456 | ≥ 1/536870912 | ≥ 1/1073741824 | ≥ 1/2147483648 | ≥ 1/4294967296 | ≥ 1/8589934592 | ≥ 1/17179869184 | ≥ 1/34359738368 | ≥ 1/68719476736 | ≥ 1/137438953472 | ≥ 1/274877906944 | ≥ 1/549755813888 | ≥ 1/1099511627776 | ≥ 1/2199023255552 | ≥ 1/4398046511104 | ≥ 1/8796093022208 | ≥ 1/17592186044416 | ≥ 1/35184372088832 | ≥ 1/70368744177664 | ≥ 1/140737488355328 | ≥ 1/281474976710656 | ≥ 1/562949953421312 | ≥ 1/1125899906842624 | ≥ 1/2251799813685248 | ≥ 1/4503599627370496 | ≥ 1/9007199254740992 | ≥ 1/18014398509481984 | ≥ 1/36028797018963968 | ≥ 1/72057594037927936 | ≥ 1/144115188075855872 | ≥ 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≥ 1/51422017416287688817342786954917203280710495801049370729644032 | ≥ 1/102844034832575377634685573909834406561420991602098741459288064 | ≥ 1/205688069665150755269371147819668813122841983204197482918576128 | ≥ 1/411376139330301510538742295639337626245683966408394965837152256 | ≥ 1/822752278660603021077484591278675252491367932816789931674304512 | ≥ 1/1645504557321206042154969182557350504982735865633579863348609024 | ≥ 1/3291009114642412084309938365114701009965471731267159726697218048 | ≥ 1/6582018229284824168619876730229402019930943462534319453394436096 | ≥ 1/13164036458569648337239753460458804039861886925068638906788872192 | ≥ 1/26328072917139296674479506920917608079723773850137277813577744384 | ≥ 1/52656145834278593348959013841835216159447547700274555627155488768 | ≥ 1/105312291668557186697918027683670432318895095400549111254310977536 | ≥ 1/210624583337114373395836055367340864637790190801098222508621955072 | ≥ 1/421249166674228746791672110734681729275580381602196445017243910144 | ≥ 1/842498333348457493583344221469363458551160763204392890034487820288 | ≥ 1/1684996666696914987166688442938726917102321526408785780068975640576 | ≥ 1/3369993333393829974333376885877453834204643052817571560137951281152 | ≥ 1/6739986666787659948666753771754907668409286105635143120275902562304 | ≥ 1/13479973333575319897333507543509815336818572211270286240551805124608 | ≥ 1/26959946667150639794667015087019630673637144422540572481103610249216 | ≥ 1/53919893334301279589334030174039261347274288845081144962207220498432 | ≥ 1/107839786668602559178668060348078522694548577690162289924414440996864 | ≥ 1/215679573337205118357336120696157045389097155380324579848828881993728 | ≥ 1/431359146674410236714672241392314090778194310760649159697657763987456 | ≥ 1/862718293348820473429344482784628181556388621521298319395315527974912 | ≥ 1/1725436586697640946858688965569256363112777243042596638790631055949824 | ≥ 1/3450873173395281893717377931138512726225554486085193277581262111899648 | ≥ 1/6901746346790563787434755862277025452451108972170386555162524223799296 | ≥ 1/13803492693581127574869511724554050904902217944340773110325048447598592 | ≥ 1/27606985387162255149739023449108101809804435888681546220650096895197184 | ≥ 1/55213970774324510299478046898216203619608871777363092441300193790394368 | ≥ 1/110427941548649020598956093796432407239217743554726184882600387580788736 | ≥ 1/220855883097298041197912187592864814478435487109452369765200775161577472 | ≥ 1/441711766194596082395824375185729628956870974218904739530401550323154944 | ≥ 1/883423532389192164791648750371459257913741948437809479060803100646309888 | ≥ 1/1766847064778384329583297500742918515827483896875618958121606201292619776 | ≥ 1/3533694129556768659166595001485837031654967793751237916243212402585239552 | ≥ 1/7067388259113537318333190002971674063309935587502475832486424805170479104 | ≥ 1/14134776518227074636666380005943348126619871175004951664972849610340958208 | ≥ 1/28269553036454149273332760011886696253239742350009903329945699220681916416 | ≥ 1/56539106072908298546665520023773392506479484700019806659891398441363832832 | ≥ 1/113078212145816597093331040047546785012958969400039613319782796882727665664 | ≥ 1/226156424291633194186662080095093570025917938800079226639565593765455331328 | ≥ 1/452312848583266388373324160190187140051835877600158453279131187530910662656 | ≥ 1/904625697166532776746648320380374280103671755200316906558262375061821325312 | ≥ 1/1809251394333065553493296640760748560207343510400633813116524750123642650624 | ≥ 1/3618502788666131106986593281521497120414687020801267626233049500247285301248 | ≥ 1/7237005577332262213973186563042994240829374041602535252466099000494570602496 | ≥ 1/14474011154664524427946373126085988481658748083205070504932198000989141204992 |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------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# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

WEATHER

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

CEILING  
FEET

NO CEILING

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

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NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

NO DATA

TOTAL NUMBER OF OBSERVATIONS



AD-A150 378

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)

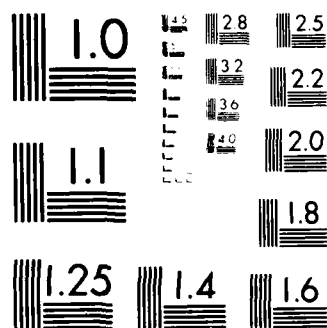
3/4

UNCLASSIFIED

F/G 4/2

NL

A 10x10 grid of squares. The top-left square (row 1, column 1) is missing, leaving a 9x10 grid of squares. The grid is composed of 90 squares in total.



MICROCOPY RESOLUTION TEST CHART  
 NATIONAL BUREAU OF STANDARDS-1963-A

# CEILING VERSUS VISIBILITY

STATION NAME  
YEARS  
MONTH  
HOURS  
DAY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

DIRTAVOUEANDET 5005

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

NO. OF HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCENMET 3705

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LIST

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

DATE: AUGUST 1950

## CONTENTS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800

[illegible]

TOTAL NUMBER OF OBSERVATIONS

01PVA00CEANJET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L S T

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SWOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LANGLEY FIELD, VA

STATION

STATION NAME

YEARS

MONTH

HOURS 11 57

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 1/16 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |        |     |

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ 1/8 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |        |       |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE, DETACHMENT 1, WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     | ≥ 0    |

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURE (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|-------|-------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| ≥ 20000         |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 18000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 16000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 14000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 12000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 10000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 9000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 8000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 7000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 6000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 5000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 4500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 4000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 3500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 3000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 2500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 2000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1800            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1200            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 900             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 800             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 700             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 600             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 500             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 400             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 300             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 200             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 100             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 0               |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

# CEILING VERSUS VISIBILITY

STATION  
YEAR  
MONTH  
HOURS LIST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

DATE OF PREPARATION

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
|-----------------|----------------------------|------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-------|-------|--------|--------|--------|
|                 | NO CEILING                 | > 10 | > 6 | > 5 | > 4 | > 3 | > 2 1/2 | > 2 | > 1 1/2 | > 1 | > 3/4 | > 1/2 | > 1/4 | > 1/8 | > 1/16 | > 1/32 | > 1/64 |
| NO CEILING      |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| > 20000         |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 18000           |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 16000           |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 14000           |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 12000           |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 10000           |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 9000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 8000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 7000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 6000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 5000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 4500            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 4000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 3500            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 3000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 2500            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 2000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 1800            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 1500            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 1200            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 1000            |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 900             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 800             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 700             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 600             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 500             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 400             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 300             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 200             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 100             |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |
| 0               |                            |      |     |     |     |     |         |     |         |     |       |       |       |       |        |        |        |

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT - 5705

# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                 | 2.0                      | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
| NO CEILING      |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 20000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 18000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 16000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 14000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 12000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 10000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 9000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 8000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 7000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 6000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 5000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1800            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1200            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 900             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 800             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 700             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 600             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 500             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 400             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 300             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 200             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 100             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 0               |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |

TOTAL NUMBER OF OBSERVATIONS

UNITED STATES GOVERNMENT

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE (FACILITY) WIDEWATER, NM

STATION

STATION NAME

YEARS

MOUTH

HOURS LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIR'NAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

2

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |       |     |       |     |      |       |     |
|-----------------|--------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ 0 |
| NO CEILING      |                          |     |     |     |     |       |     |       |     |      |       |     |
| 20000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 18000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 16000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 14000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 12000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 10000           |                          |     |     |     |     |       |     |       |     |      |       |     |
| 9000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 8000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 7000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 6000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 5000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 4500            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 4000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 3500            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 3000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 2500            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 2000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 1800            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 1500            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 1200            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 1000            |                          |     |     |     |     |       |     |       |     |      |       |     |
| 900             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 800             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 700             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 600             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 500             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 400             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 300             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 200             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 100             |                          |     |     |     |     |       |     |       |     |      |       |     |
| 0               |                          |     |     |     |     |       |     |       |     |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

DATE OF OBSERVATION

# CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | NO CEILING                 | 21 | 210 | 216 | 214 | 215 | 211 | 211 | 211 | 214 | 214 | 214 | 214 | 214 | 214 | 214 | 214 |
| 20000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               | AL                         |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

UNITED STATES GOVERNMENT

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEARS  
HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-------|-------|-------|-------|-----|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1.4 | ≥ 1.3 | ≥ 1.2 | ≥ 1.1 | ≥ 1 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| ≥ 20000         |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 18000           |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 16000           |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 14000           |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 12000           |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 10000           |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 9000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 8000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 7000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 6000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 5000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 4500            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 4000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 3500            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 3000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 2500            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 2000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 1800            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 1500            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 1200            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 1000            |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 900             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 800             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 700             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 600             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 500             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 400             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 300             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 200             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 100             |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |
| 0               |                            |     |     |     |     |     |     |     |       |     |       |       |       |       |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

TELEPHONE

DIRECTION

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|---------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|------|-------|-------|-------|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .10 |
| NO CEILING      |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 20000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 18000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 16000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 14000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 12000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 10000         |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 9000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 8000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 7000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 6000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 5000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 4500          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 4000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 3500          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 3000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 2500          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 2000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 1800          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 1500          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 1200          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 1000          |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 900           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 800           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 700           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 600           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 500           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 400           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 300           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 200           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| ≥ 100           |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |
| 0               |                            |     |     |     |     |     |     |     |       |     |       |     |       |      |       |       |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1800            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1200            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 900             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 800             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 700             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 600             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 400             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 300             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 200             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)  
 HOURS \_\_\_\_\_

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|--------|--------|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 | ≥ 1 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 20000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 18000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 16000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 14000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 12000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 10000         |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 9000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 8000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 7000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 6000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 5000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 4500          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 4000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 3500          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 3000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 2500          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 2000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 1800          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 1500          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 1200          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 1000          |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 900           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 800           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 700           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 600           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 500           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 400           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 300           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 200           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| ≥ 100           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 0               |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                 | NO CEILING               | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 20000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10000           | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 9000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 7000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 6000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 5000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4500            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3500            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2500            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1800            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1500            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1200            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1000            | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 900             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 800             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 700             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 600             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 500             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 400             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 300             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 200             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 100             | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0               | AL                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
|-----------------|----------------------------|---|---|---|---|---|---|----|---|---|---|---|---|---|----|---|
|                 | NO<br>CEILING              | 1 | 2 | 3 | 4 | 5 | 6 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 10 | 1 |
| 20000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 18000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 16000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 14000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 12000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 10000           | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 9000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 8000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 7000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 6000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 5000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 4500            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 4000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 3500            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 3000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 2500            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 2000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 1800            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 1500            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 1200            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 1000            | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 900             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 800             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 700             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 600             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 500             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 400             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 300             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 200             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 100             | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |
| 0               | AI                         |   |   |   |   |   |   |    |   |   |   |   |   |   |    |   |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 8.0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT

# CEILING VERSUS VISIBILITY

STATION

STATE OR NAVAL

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | NO CEILING | 210 | 216 | 215 | 214 | 213 | 212 | 211 | 210 | 209 | 208 | 207 | 206 | 205 | 204 | 203 | 202 | 201 | 200 | 199 | 198 | 197 | 196 | 195 | 194 | 193 | 192 | 191 | 190 |
|-----------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 20000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               | AI         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DISPATCH REPORT

# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|-------|------|-------|-------|------|-------|-------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .01 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 20000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 18000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 16000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 14000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 12000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 10000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 9000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 8000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 7000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 6000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 5000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 4500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 4000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 3500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 3000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 2500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 2000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 1800            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 1500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 1200            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 1000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 900             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 800             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 700             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 600             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 500             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 400             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 300             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 200             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 100             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |
| 0               |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |       |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DEPARTMENT, WASHINGTON

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF STATIONS

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |
| ≥ 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIRT JAVOUEANDET 5205

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | NO CEILING | > 10 | > 6 | > 5 | > 4 | > 3 | > 2 1/2 | > 2 | > 1 1/2 | > 1 | > 3/4 | > 1/2 | > 5/16 | > 1/4 | > 1/8 | > 0 |
|-----------------|------------|------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|--------|-------|-------|-----|
| NO CEILING      |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| > 20000         |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 18000           |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 16000           |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 14000           |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 12000           |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 10000           |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 9000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 8000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 7000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 6000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 5000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 4500            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 4000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 3500            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 3000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 2500            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 2000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 1800            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 1500            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 1200            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 1000            |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 900             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 800             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 700             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 600             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 500             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 400             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 300             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 200             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 100             |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |
| 0               |            |      |     |     |     |     |         |     |         |     |       |       |        |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

GRAPHICALLY PREPARED BY

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

CEILING  
FEET

2000 1800 1600 1400 1200 1000 900 800 700 600 500 450 400 350 300 250 200 180 160 140 120 100 0

NO. OF

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1800

1600

1400

1200

1000

900

800

700

600

500

400

300

200

100

0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: MONTH: YEAR: DAY: HOUR: MINUTE: SECOND:

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-------|-----|------|------|------|-------|------|-------|------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1.4 | ≥ 1 | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .15 | ≥ .1 |
| NO CEILING      |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 20000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 18000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 16000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 14000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 12000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 10000         |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 9000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 8000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 7000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 6000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 5000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 4500          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 4000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 3500          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 3000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 2500          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 2000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 1800          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 1500          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 1200          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 1000          |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 900           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 800           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 700           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 600           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 500           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 400           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 300           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 200           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| ≥ 100           |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |
| 0               |                            |     |     |     |     |       |     |       |       |     |      |      |      |       |      |       |      |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME  
YEAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|------|-------|------|-------|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .1 | ≥ .05 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 20000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 18000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 16000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 14000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 12000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 10000           |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 9000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 8000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 7000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 6000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 5000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 4500            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 4000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 3500            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 3000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 2500            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 2000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 1800            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 1500            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 1200            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 1000            |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 900             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 800             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 700             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 600             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 500             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 400             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 300             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 200             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 100             |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |
| 0               |                            |     |     |     |     |     |     |     |     |       |     |       |      |       |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | ≥ 10                      | 7.5 | 7.4 | 7.3 | 7.2 | 7.1 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 |
| NO CEILING      |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 22000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1600            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1400            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |
| 25000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

CEILING - FEET

NO CEILING

20000  
15000  
10000  
7500  
5000  
2500  
1000  
500  
200  
100  
0

TOTAL NUMBER OF OBSERVATIONS

DIFFERENCE BETWEEN

# CEILING VERSUS VISIBILITY

STATION NAME

STATION

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|--------|--------|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 | ≥ 1 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 20000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 18000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 16000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 14000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 12000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 10000           |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 9000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 8000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 7000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 6000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 5000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 4500            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 4000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 3500            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 3000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 2500            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 2000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 1500            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 1000            |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 900             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 800             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 700             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 600             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 500             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 400             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 300             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 200             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 100             |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |
| 0               |                            |     |     |     |     |     |     |     |     |     |       |       |       |        |        |        |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|--------|-----|-------|------|-------|-------|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1.25 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 18000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 16000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 14000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 12000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 10000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 9000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 8000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 7000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 6000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 5000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 4500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 4000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 3500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 3000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 2500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 2000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1800            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1600            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1400            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1200            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 900             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 800             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 700             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 600             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 500             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 400             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 300             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 200             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 100             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 0               |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |

TOTAL NUMBER OF OBSERVATIONS

ORIGINATOR NAME

SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE FLAGSHIP AIRCRAFT

STATION

STATION NAME

YEARS

MOUTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIRNAVUOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 YEAR \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS \_\_\_\_\_

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/5 | ≥ 1/10 | ≥ 1/20 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LIST

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
|-----------------|----------------------------|------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|
|                 | NO CEILING                 | ≥ 10 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 | ≥ 0 |
| 20000           | AI                         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 18000           | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 16000           | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 14000           | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 12000           | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 10000           | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 9000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 8000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 7000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 6000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 5000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 4500            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 4000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 3500            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 3000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 2500            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 2000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 1800            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 1500            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 1200            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 1000            | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 900             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 800             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 700             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 600             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 500             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 400             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 300             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 200             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 100             | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |
| 0               | AI AI                      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| NO CEIL. NO     |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                 | 2.0                        | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 10.0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |   |       |   |       |   |
|-----------------|----------------------------|-----|-----|-----|-----|-----|---|-------|---|-------|---|
|                 | 1/10                       | 1/5 | 1/4 | 1/3 | 1/2 | 2/5 | 1 | 1 1/2 | 2 | 2 1/2 | 3 |
| NO CEILING      |                            |     |     |     |     |     |   |       |   |       |   |
| 20000           |                            |     |     |     |     |     |   |       |   |       |   |
| 18000           |                            |     |     |     |     |     |   |       |   |       |   |
| 16000           |                            |     |     |     |     |     |   |       |   |       |   |
| 14000           |                            |     |     |     |     |     |   |       |   |       |   |
| 12000           |                            |     |     |     |     |     |   |       |   |       |   |
| 10000           |                            |     |     |     |     |     |   |       |   |       |   |
| 9000            |                            |     |     |     |     |     |   |       |   |       |   |
| 8000            |                            |     |     |     |     |     |   |       |   |       |   |
| 7000            |                            |     |     |     |     |     |   |       |   |       |   |
| 6000            |                            |     |     |     |     |     |   |       |   |       |   |
| 5000            |                            |     |     |     |     |     |   |       |   |       |   |
| 4500            |                            |     |     |     |     |     |   |       |   |       |   |
| 4000            |                            |     |     |     |     |     |   |       |   |       |   |
| 3500            |                            |     |     |     |     |     |   |       |   |       |   |
| 3000            |                            |     |     |     |     |     |   |       |   |       |   |
| 2500            |                            |     |     |     |     |     |   |       |   |       |   |
| 2000            |                            |     |     |     |     |     |   |       |   |       |   |
| 1800            |                            |     |     |     |     |     |   |       |   |       |   |
| 1500            |                            |     |     |     |     |     |   |       |   |       |   |
| 1200            |                            |     |     |     |     |     |   |       |   |       |   |
| 1000            |                            |     |     |     |     |     |   |       |   |       |   |
| 900             |                            |     |     |     |     |     |   |       |   |       |   |
| 800             |                            |     |     |     |     |     |   |       |   |       |   |
| 700             |                            |     |     |     |     |     |   |       |   |       |   |
| 600             |                            |     |     |     |     |     |   |       |   |       |   |
| 500             |                            |     |     |     |     |     |   |       |   |       |   |
| 400             |                            |     |     |     |     |     |   |       |   |       |   |
| 300             |                            |     |     |     |     |     |   |       |   |       |   |
| 200             |                            |     |     |     |     |     |   |       |   |       |   |
| 100             |                            |     |     |     |     |     |   |       |   |       |   |
| 0               |                            |     |     |     |     |     |   |       |   |       |   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY TEST

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .01 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 20000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 18000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 16000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 14000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 12000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 10000           | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 9000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 8000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 7000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 6000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 5000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 4500            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 4000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 3500            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 3000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 2500            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 2000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1800            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1500            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1200            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1000            | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 900             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 800             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 700             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 600             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 500             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 400             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 350             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 200             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 100             | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 0               | AI                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS

DATE OF OBSERVATION

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |     |     |     |     |   |       |       |   |   |   |
|-----------------|----------------------------|------|-----|-----|-----|-----|---|-------|-------|---|---|---|
|                 | NO CEILING                 | 1/10 | 1/8 | 1/4 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 3 | 4 |
| 20000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 18000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 16000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 14000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 12000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 10000           | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 9000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 8000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 7000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 6000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 5000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 4500            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 4000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 3500            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 3000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 2500            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 2000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 1800            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 1500            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 1200            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 1000            | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 900             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 800             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 700             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 600             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 500             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 400             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 300             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 200             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 100             | AL                         |      |     |     |     |     |   |       |       |   |   |   |
| 0               | AL                         |      |     |     |     |     |   |       |       |   |   |   |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |     |      |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 18000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 16000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 14000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 12000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 10000         |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 9000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 8000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 7000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 6000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 5000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 4500          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 4000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 3500          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 3000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 2500          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 2000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 1800          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 1500          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 1200          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 1000          |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 900           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 800           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 700           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 600           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 500           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 400           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 300           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 200           |                            |     |     |     |     |       |     |       |     |      |       |     |
| ≥ 100           |                            |     |     |     |     |       |     |       |     |      |       |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                        | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1800            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME  
STATION  
YEARS  
MONTH  
HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |       |       |       |       |       |      |      |      |      |      |      |
|-----------------|----------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|                 | 20000                      | 18000 | 16000 | 14000 | 12000 | 10000 | 9000 | 8000 | 7000 | 6000 | 5000 | 4500 |
| NO CEILING      | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 20000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 18000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 16000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 14000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 12000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 10000           | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 9000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 8000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 7000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 6000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 5000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 4500            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 4000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 3500            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 3000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 2500            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 2000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 1800            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 1500            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 1200            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 1000            | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 900             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 800             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 700             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 600             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 500             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 400             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 300             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 200             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 100             | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |
| 0               | AI                         | AI    | AI    | AI    | AI    | AI    | AI   | AI   | AI   | AI   | AI   | AI   |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

STATION

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-------|-------|--------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 5/16 | ≥ 1/8 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| ≥ 20000         |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 18000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 16000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 14000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 12000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 10000           |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 9000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 8000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 7000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 6000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 5000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 4500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 4000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 3500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 3000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 2500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 2000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 1800            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 1500            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 1200            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 1000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 900             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 800             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 700             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 600             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 400             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 300             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 200             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 100             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |
| 0               |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|
|                 | NO CEILING                 | AT 1 | AT 2 | AT 3 | AT 4 | AT 5 | AT 6 | AT 7 | AT 8 | AT 9 | AT 10 | AT 11 |
| 20000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 18000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 16000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 14000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 12000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 10000           |                            |      |      |      |      |      |      |      |      |      |       |       |
| 9000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 8000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 7000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 6000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 5000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 4500            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 4000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 3500            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 3000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 2500            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 2000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 1800            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 1500            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 1200            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 1000            |                            |      |      |      |      |      |      |      |      |      |       |       |
| 900             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 800             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 700             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 600             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 500             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 400             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 300             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 200             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 100             |                            |      |      |      |      |      |      |      |      |      |       |       |
| 0               |                            |      |      |      |      |      |      |      |      |      |       |       |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME  
STATION  
TEARS  
MONTH  
HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                 | NO CEILING                 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 20000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10000           | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 9000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 7000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 6000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 5000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4500            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3500            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2500            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1800            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1500            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1200            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1000            | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 900             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 800             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 700             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 600             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 500             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 400             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 300             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 200             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 100             | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0               | AI                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

TOTAL NUMBER OF OBSERVATIONS

DATE: JAVOCEAN-121 11:05

# CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY C.S.T.

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|---------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 0             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

CIRNAVUCEANDET SMOUS



# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH | NO. OF<br>OBS. | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------|----------------|----|----|----|----|----|----|----|----|----|----|----|--------------------------------|-------------------------|
| JAN   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| FEB   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| MAR   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| APR   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| MAY   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| JUN   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| JUL   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| AUG   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| SEP   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| OCT   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| NOV   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| DEC   | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |
| TOTAL | 10             | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                      |

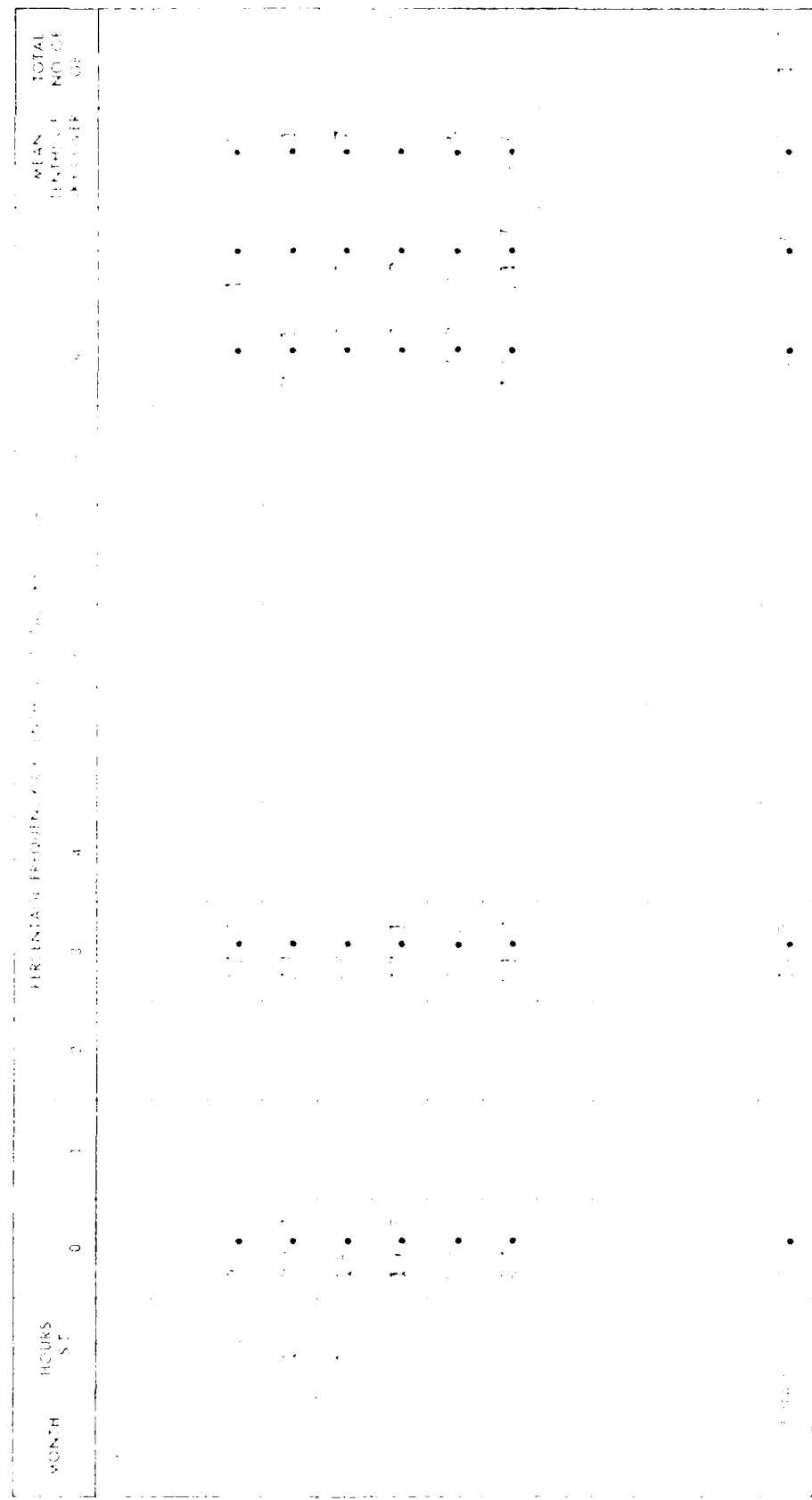
# SKY COVER

## PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

| WIND<br>DIRECTION | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------------------|-----|---|---|---|---|---|---|---|---|---|----|--------------------------------|-------------------------|
| 000               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| 030               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| 060               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| 090               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| 120               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| 150               | 1.0 |   |   |   |   |   |   |   |   |   |    | 1.0                            | 7.0                     |
| TOTALS            | 6.0 |   |   |   |   |   |   |   |   |   |    | 6.0                            | 42.0                    |

# SKY COVER

PERCENTAGE FREQUENCY OF SKY COVER  
FROM HOURLY OBSERVATIONS



# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| PERCENTAGE FREQUENCY OF OCCURRENCE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN<br>PERCENTAGE<br>OF SKY COVER | TOTAL<br>NUMBER OF<br>OBSERVATIONS |
|------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------------------|------------------------------------|
| 0                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 1                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 2                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 3                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 4                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 5                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 6                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 7                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 8                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 9                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 10                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 11                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 12                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 13                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 14                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 15                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 16                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 17                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 18                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 19                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 20                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 21                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 22                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 23                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |
| 24                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                                  | 0                                  |

# SKY COVER

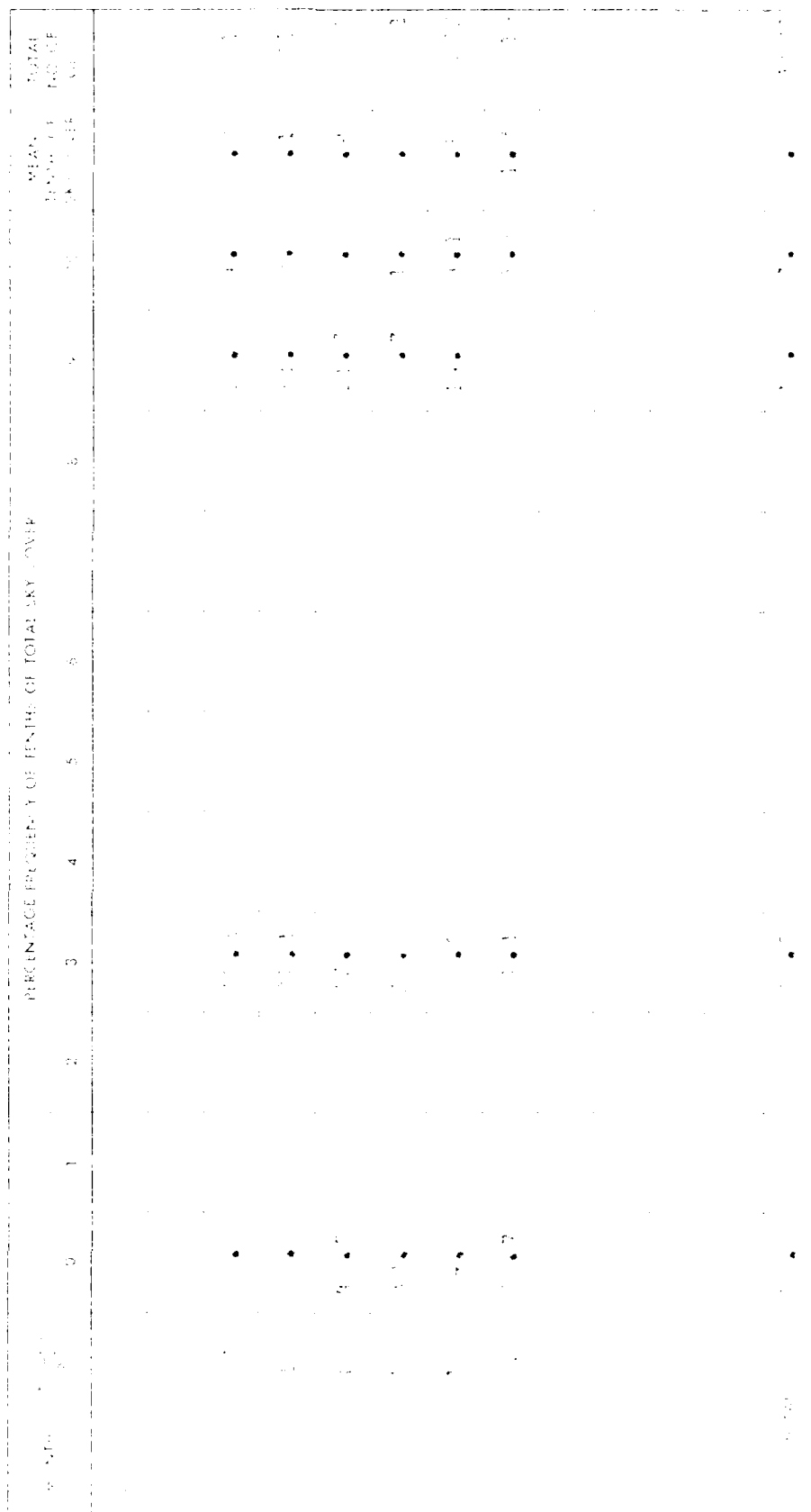
PERCENTAGE FREQUENCY OF OCCURRENCE  
OF SKY COVER OBSERVATIONS

| OBSERVATION<br>NUMBER | PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>PERCENTAGE<br>FREQUENCY | TOTAL<br>NO. OF<br>OBSERVATIONS |
|-----------------------|-------------------------------------------------|---|---|---|---|---|---|---|---|---|---------------------------------|---------------------------------|
|                       | 0                                               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                 |                                 |
| 1                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 2                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 3                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 4                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 5                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 6                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 7                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 8                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 9                     | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 10                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 11                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 12                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 13                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 14                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 15                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 16                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 17                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 18                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 19                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 20                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 21                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 22                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 23                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 24                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 25                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 26                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 27                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 28                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 29                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 30                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 31                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 32                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 33                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 34                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 35                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 36                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 37                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 38                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 39                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 40                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 41                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 42                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 43                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 44                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 45                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 46                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 47                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 48                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 49                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 50                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 51                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 52                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 53                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 54                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 55                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 56                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 57                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 58                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 59                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 60                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 61                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 62                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 63                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 64                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 65                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 66                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 67                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 68                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 69                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 70                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 71                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 72                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 73                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 74                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 75                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 76                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 77                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 78                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 79                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 80                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 81                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 82                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 83                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 84                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 85                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 86                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 87                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 88                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 89                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 90                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 91                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 92                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 93                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 94                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 95                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 96                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 97                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 98                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 99                    | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |
| 100                   | 1                                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                               | 1                               |



# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS



# SKY COVER

## PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

| MONTH | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO OF<br>OBS |
|-------|----|----|----|----|----|----|----|----|----|----|----|--------------------------------|-----------------------|
| JAN   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| FEB   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| MAR   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| APR   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| MAY   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| JUN   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| JUL   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| AUG   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| SEP   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| OCT   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| NOV   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| DEC   | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |
| TOTAL | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10                             | 10                    |



# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
BASED ON HOURLY OBSERVATIONS

| MONTH | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-------------------------|
| JAN   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| FEB   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| MAR   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| APR   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| MAY   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| JUN   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| JUL   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| AUG   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| SEP   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| OCT   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| NOV   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |
| DEC   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                            | 1.0                     |

# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| MONTH | HOURS<br>OBS. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------|---------------|---|---|---|---|---|---|---|---|---|----|--------------------------------|-------------------------|
| JAN   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| FEB   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| MAR   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| APR   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| MAY   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| JUN   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| JUL   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| AUG   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| SEP   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| OCT   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| NOV   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| DEC   | 1             |   |   |   |   |   |   |   |   |   |    |                                |                         |
| TOTAL |               |   |   |   |   |   |   |   |   |   |    |                                |                         |

# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| MONTH | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9   | 10 | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO OF<br>OBS |
|-------|-----|---|---|---|---|---|---|---|-----|----|--------------------------------|-----------------------|
| JAN   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| FEB   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| MAR   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| APR   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| MAY   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| JUN   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| JUL   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| AUG   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| SEP   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| OCT   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| NOV   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| DEC   | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |
| TOTAL | 1.0 |   |   |   |   |   |   |   | 1.0 |    | 1.0                            | 1                     |

# SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH | 0   | 1 | 2 | 3   | 4 | 5 | 6 | 7 | 8 | 9 | 10  | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------|-----|---|---|-----|---|---|---|---|---|---|-----|--------------------------------|-------------------------|
| JAN   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| FEB   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| MAR   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| APR   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| MAY   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| JUN   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| JUL   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| AUG   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| SEP   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| OCT   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| NOV   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| DEC   | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |
| TOTAL | 1.0 |   |   | 1.0 |   |   |   |   |   |   | 1.0 | 1.0                            | 1                       |

# SKY COVER

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH | HOURS<br>LST | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-------|--------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------|-------------------------|
| JAN   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| FEB   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| MAR   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| APR   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| MAY   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| JUN   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| JUL   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| AUG   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| SEP   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| OCT   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| NOV   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| DEC   | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 1000                    |
| TOTAL | 111          | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0                           | 10000                   |

## PART E

## PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature of 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Humidity-temperature frequency distribution and comparison of dry-bulb versus wet-bulb temperature - This tabulation is derived from 2-hourly observations and is presented by month and annual, all years and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the number of observations with dry-bulb and wet-bulb temperatures combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of 1.0 represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1956; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

d. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

e. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increment. Five classes, plus the mean relative humidity and total number of observations in two tables.

f. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

g. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

h. Summary of all elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures - This summary is prepared by month and annual, all years combined, with month being the vertical argument. It presents the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

# DAILY TEMPERATURES

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_  
 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 FROM DAILY OBSERVATIONS

| TEMP °F   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 2         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 3         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 4         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 5         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 6         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 7         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 8         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 9         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 10        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 11        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 12        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 13        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 14        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 15        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 16        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 17        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 18        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 19        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 20        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 21        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 22        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 23        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 24        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 25        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 26        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 27        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 28        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 29        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 30        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 31        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 32        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 33        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 34        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 35        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 36        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 37        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 38        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 39        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 40        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 41        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 42        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 43        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 44        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 45        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 46        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 47        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 48        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 49        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 50        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 51        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 52        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 53        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 54        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 55        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 56        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 57        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 58        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 59        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 60        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 61        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 62        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 63        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 64        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 65        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 66        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 67        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 68        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 69        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 70        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 71        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 72        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 73        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 74        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 75        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 76        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 77        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 78        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 79        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 80        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 81        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 82        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 83        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 84        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 85        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 86        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 87        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 88        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 89        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 90        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 91        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 92        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 93        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 94        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 95        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 96        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 97        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 98        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 99        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 100       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN      |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTAL OBS |     |     |     |     |     |     |     |     |     |     |     |     |        |



# DAILY TEMPERATURES

HEADS  
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM DAILY OBSERVATIONS

TEMP OF

TEMP OF

| TEMP OF | AN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | ANN A |
|---------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1       |    |     |     |     |     |     |     |     |     |     |     |       |
| 2       |    |     |     |     |     |     |     |     |     |     |     |       |
| 3       |    |     |     |     |     |     |     |     |     |     |     |       |
| 4       |    |     |     |     |     |     |     |     |     |     |     |       |
| 5       |    |     |     |     |     |     |     |     |     |     |     |       |
| 6       |    |     |     |     |     |     |     |     |     |     |     |       |
| 7       |    |     |     |     |     |     |     |     |     |     |     |       |
| 8       |    |     |     |     |     |     |     |     |     |     |     |       |
| 9       |    |     |     |     |     |     |     |     |     |     |     |       |
| 10      |    |     |     |     |     |     |     |     |     |     |     |       |
| 11      |    |     |     |     |     |     |     |     |     |     |     |       |
| 12      |    |     |     |     |     |     |     |     |     |     |     |       |
| 13      |    |     |     |     |     |     |     |     |     |     |     |       |
| 14      |    |     |     |     |     |     |     |     |     |     |     |       |
| 15      |    |     |     |     |     |     |     |     |     |     |     |       |
| 16      |    |     |     |     |     |     |     |     |     |     |     |       |
| 17      |    |     |     |     |     |     |     |     |     |     |     |       |
| 18      |    |     |     |     |     |     |     |     |     |     |     |       |
| 19      |    |     |     |     |     |     |     |     |     |     |     |       |
| 20      |    |     |     |     |     |     |     |     |     |     |     |       |
| 21      |    |     |     |     |     |     |     |     |     |     |     |       |
| 22      |    |     |     |     |     |     |     |     |     |     |     |       |
| 23      |    |     |     |     |     |     |     |     |     |     |     |       |
| 24      |    |     |     |     |     |     |     |     |     |     |     |       |
| 25      |    |     |     |     |     |     |     |     |     |     |     |       |
| 26      |    |     |     |     |     |     |     |     |     |     |     |       |
| 27      |    |     |     |     |     |     |     |     |     |     |     |       |
| 28      |    |     |     |     |     |     |     |     |     |     |     |       |
| 29      |    |     |     |     |     |     |     |     |     |     |     |       |
| 30      |    |     |     |     |     |     |     |     |     |     |     |       |
| 31      |    |     |     |     |     |     |     |     |     |     |     |       |
| 32      |    |     |     |     |     |     |     |     |     |     |     |       |
| 33      |    |     |     |     |     |     |     |     |     |     |     |       |
| 34      |    |     |     |     |     |     |     |     |     |     |     |       |
| 35      |    |     |     |     |     |     |     |     |     |     |     |       |
| 36      |    |     |     |     |     |     |     |     |     |     |     |       |
| 37      |    |     |     |     |     |     |     |     |     |     |     |       |
| 38      |    |     |     |     |     |     |     |     |     |     |     |       |
| 39      |    |     |     |     |     |     |     |     |     |     |     |       |
| 40      |    |     |     |     |     |     |     |     |     |     |     |       |
| 41      |    |     |     |     |     |     |     |     |     |     |     |       |
| 42      |    |     |     |     |     |     |     |     |     |     |     |       |
| 43      |    |     |     |     |     |     |     |     |     |     |     |       |
| 44      |    |     |     |     |     |     |     |     |     |     |     |       |
| 45      |    |     |     |     |     |     |     |     |     |     |     |       |
| 46      |    |     |     |     |     |     |     |     |     |     |     |       |
| 47      |    |     |     |     |     |     |     |     |     |     |     |       |
| 48      |    |     |     |     |     |     |     |     |     |     |     |       |
| 49      |    |     |     |     |     |     |     |     |     |     |     |       |
| 50      |    |     |     |     |     |     |     |     |     |     |     |       |
| 51      |    |     |     |     |     |     |     |     |     |     |     |       |
| 52      |    |     |     |     |     |     |     |     |     |     |     |       |
| 53      |    |     |     |     |     |     |     |     |     |     |     |       |
| 54      |    |     |     |     |     |     |     |     |     |     |     |       |
| 55      |    |     |     |     |     |     |     |     |     |     |     |       |
| 56      |    |     |     |     |     |     |     |     |     |     |     |       |
| 57      |    |     |     |     |     |     |     |     |     |     |     |       |
| 58      |    |     |     |     |     |     |     |     |     |     |     |       |
| 59      |    |     |     |     |     |     |     |     |     |     |     |       |
| 60      |    |     |     |     |     |     |     |     |     |     |     |       |
| 61      |    |     |     |     |     |     |     |     |     |     |     |       |
| 62      |    |     |     |     |     |     |     |     |     |     |     |       |
| 63      |    |     |     |     |     |     |     |     |     |     |     |       |
| 64      |    |     |     |     |     |     |     |     |     |     |     |       |
| 65      |    |     |     |     |     |     |     |     |     |     |     |       |
| 66      |    |     |     |     |     |     |     |     |     |     |     |       |
| 67      |    |     |     |     |     |     |     |     |     |     |     |       |
| 68      |    |     |     |     |     |     |     |     |     |     |     |       |
| 69      |    |     |     |     |     |     |     |     |     |     |     |       |
| 70      |    |     |     |     |     |     |     |     |     |     |     |       |
| 71      |    |     |     |     |     |     |     |     |     |     |     |       |
| 72      |    |     |     |     |     |     |     |     |     |     |     |       |
| 73      |    |     |     |     |     |     |     |     |     |     |     |       |
| 74      |    |     |     |     |     |     |     |     |     |     |     |       |
| 75      |    |     |     |     |     |     |     |     |     |     |     |       |
| 76      |    |     |     |     |     |     |     |     |     |     |     |       |
| 77      |    |     |     |     |     |     |     |     |     |     |     |       |
| 78      |    |     |     |     |     |     |     |     |     |     |     |       |
| 79      |    |     |     |     |     |     |     |     |     |     |     |       |
| 80      |    |     |     |     |     |     |     |     |     |     |     |       |
| 81      |    |     |     |     |     |     |     |     |     |     |     |       |
| 82      |    |     |     |     |     |     |     |     |     |     |     |       |
| 83      |    |     |     |     |     |     |     |     |     |     |     |       |
| 84      |    |     |     |     |     |     |     |     |     |     |     |       |
| 85      |    |     |     |     |     |     |     |     |     |     |     |       |
| 86      |    |     |     |     |     |     |     |     |     |     |     |       |
| 87      |    |     |     |     |     |     |     |     |     |     |     |       |
| 88      |    |     |     |     |     |     |     |     |     |     |     |       |
| 89      |    |     |     |     |     |     |     |     |     |     |     |       |
| 90      |    |     |     |     |     |     |     |     |     |     |     |       |
| 91      |    |     |     |     |     |     |     |     |     |     |     |       |
| 92      |    |     |     |     |     |     |     |     |     |     |     |       |
| 93      |    |     |     |     |     |     |     |     |     |     |     |       |
| 94      |    |     |     |     |     |     |     |     |     |     |     |       |
| 95      |    |     |     |     |     |     |     |     |     |     |     |       |
| 96      |    |     |     |     |     |     |     |     |     |     |     |       |
| 97      |    |     |     |     |     |     |     |     |     |     |     |       |
| 98      |    |     |     |     |     |     |     |     |     |     |     |       |
| 99      |    |     |     |     |     |     |     |     |     |     |     |       |
| 100     |    |     |     |     |     |     |     |     |     |     |     |       |

MEAN  
S D  
TOTAL OBS

NAVWEASERVCOM



DAILY AVERAGE/EXTREME TEMPERATURES

3

UNAV. CENMET - SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

3

DIRNAVOCJANMET--SMOS



DIRNAVOCEANMET--SMOS

This image shows a full page of blank graph paper. The grid consists of horizontal and vertical lines forming small squares. There are no markings or text on the paper.

SHAW-WHITNEY, 1993b.

# DAILY AVERAGE/EXTREME TEMPERATURES

3

VALIN VINTAGE ARTS

DIRNAVOCEANMET--SMOS



[illegible]

SECRET

| AVERAGE |       |      |        | MAXIMUM TEMP |       |      |        | MINIMUM TEMP |       |      |        |
|---------|-------|------|--------|--------------|-------|------|--------|--------------|-------|------|--------|
| C       | F     | DATE | EXTENT | C            | F     | DATE | EXTENT | C            | F     | DATE | EXTENT |
| 1       | 33.8  | 1    | 1      | 1            | 33.8  | 1    | 1      | 1            | 33.8  | 1    | 1      |
| 2       | 35.6  | 1    | 1      | 2            | 35.6  | 1    | 1      | 2            | 35.6  | 1    | 1      |
| 3       | 37.4  | 1    | 1      | 3            | 37.4  | 1    | 1      | 3            | 37.4  | 1    | 1      |
| 4       | 39.2  | 1    | 1      | 4            | 39.2  | 1    | 1      | 4            | 39.2  | 1    | 1      |
| 5       | 41.0  | 1    | 1      | 5            | 41.0  | 1    | 1      | 5            | 41.0  | 1    | 1      |
| 6       | 42.8  | 1    | 1      | 6            | 42.8  | 1    | 1      | 6            | 42.8  | 1    | 1      |
| 7       | 44.6  | 1    | 1      | 7            | 44.6  | 1    | 1      | 7            | 44.6  | 1    | 1      |
| 8       | 46.4  | 1    | 1      | 8            | 46.4  | 1    | 1      | 8            | 46.4  | 1    | 1      |
| 9       | 48.2  | 1    | 1      | 9            | 48.2  | 1    | 1      | 9            | 48.2  | 1    | 1      |
| 10      | 50.0  | 1    | 1      | 10           | 50.0  | 1    | 1      | 10           | 50.0  | 1    | 1      |
| 11      | 51.8  | 1    | 1      | 11           | 51.8  | 1    | 1      | 11           | 51.8  | 1    | 1      |
| 12      | 53.6  | 1    | 1      | 12           | 53.6  | 1    | 1      | 12           | 53.6  | 1    | 1      |
| 13      | 55.4  | 1    | 1      | 13           | 55.4  | 1    | 1      | 13           | 55.4  | 1    | 1      |
| 14      | 57.2  | 1    | 1      | 14           | 57.2  | 1    | 1      | 14           | 57.2  | 1    | 1      |
| 15      | 59.0  | 1    | 1      | 15           | 59.0  | 1    | 1      | 15           | 59.0  | 1    | 1      |
| 16      | 60.8  | 1    | 1      | 16           | 60.8  | 1    | 1      | 16           | 60.8  | 1    | 1      |
| 17      | 62.6  | 1    | 1      | 17           | 62.6  | 1    | 1      | 17           | 62.6  | 1    | 1      |
| 18      | 64.4  | 1    | 1      | 18           | 64.4  | 1    | 1      | 18           | 64.4  | 1    | 1      |
| 19      | 66.2  | 1    | 1      | 19           | 66.2  | 1    | 1      | 19           | 66.2  | 1    | 1      |
| 20      | 68.0  | 1    | 1      | 20           | 68.0  | 1    | 1      | 20           | 68.0  | 1    | 1      |
| 21      | 69.8  | 1    | 1      | 21           | 69.8  | 1    | 1      | 21           | 69.8  | 1    | 1      |
| 22      | 71.6  | 1    | 1      | 22           | 71.6  | 1    | 1      | 22           | 71.6  | 1    | 1      |
| 23      | 73.4  | 1    | 1      | 23           | 73.4  | 1    | 1      | 23           | 73.4  | 1    | 1      |
| 24      | 75.2  | 1    | 1      | 24           | 75.2  | 1    | 1      | 24           | 75.2  | 1    | 1      |
| 25      | 77.0  | 1    | 1      | 25           | 77.0  | 1    | 1      | 25           | 77.0  | 1    | 1      |
| 26      | 78.8  | 1    | 1      | 26           | 78.8  | 1    | 1      | 26           | 78.8  | 1    | 1      |
| 27      | 80.6  | 1    | 1      | 27           | 80.6  | 1    | 1      | 27           | 80.6  | 1    | 1      |
| 28      | 82.4  | 1    | 1      | 28           | 82.4  | 1    | 1      | 28           | 82.4  | 1    | 1      |
| 29      | 84.2  | 1    | 1      | 29           | 84.2  | 1    | 1      | 29           | 84.2  | 1    | 1      |
| 30      | 86.0  | 1    | 1      | 30           | 86.0  | 1    | 1      | 30           | 86.0  | 1    | 1      |
| 31      | 87.8  | 1    | 1      | 31           | 87.8  | 1    | 1      | 31           | 87.8  | 1    | 1      |
| 32      | 89.6  | 1    | 1      | 32           | 89.6  | 1    | 1      | 32           | 89.6  | 1    | 1      |
| 33      | 91.4  | 1    | 1      | 33           | 91.4  | 1    | 1      | 33           | 91.4  | 1    | 1      |
| 34      | 93.2  | 1    | 1      | 34           | 93.2  | 1    | 1      | 34           | 93.2  | 1    | 1      |
| 35      | 95.0  | 1    | 1      | 35           | 95.0  | 1    | 1      | 35           | 95.0  | 1    | 1      |
| 36      | 96.8  | 1    | 1      | 36           | 96.8  | 1    | 1      | 36           | 96.8  | 1    | 1      |
| 37      | 98.6  | 1    | 1      | 37           | 98.6  | 1    | 1      | 37           | 98.6  | 1    | 1      |
| 38      | 100.4 | 1    | 1      | 38           | 100.4 | 1    | 1      | 38           | 100.4 | 1    | 1      |
| 39      | 102.2 | 1    | 1      | 39           | 102.2 | 1    | 1      | 39           | 102.2 | 1    | 1      |
| 40      | 104.0 | 1    | 1      | 40           | 104.0 | 1    | 1      | 40           | 104.0 | 1    | 1      |
| 41      | 105.8 | 1    | 1      | 41           | 105.8 | 1    | 1      | 41           | 105.8 | 1    | 1      |
| 42      | 107.6 | 1    | 1      | 42           | 107.6 | 1    | 1      | 42           | 107.6 | 1    | 1      |
| 43      | 109.4 | 1    | 1      | 43           | 109.4 | 1    | 1      | 43           | 109.4 | 1    | 1      |
| 44      | 111.2 | 1    | 1      | 44           | 111.2 | 1    | 1      | 44           | 111.2 | 1    | 1      |
| 45      | 113.0 | 1    | 1      | 45           |       |      |        | 45           |       | 1    | 1      |

ALSO ON EARLIER YEARS

**DIRNAVOCEANMET-SMOS**



# DAILY AVERAGE/EXTREME TEMPERATURES

3

| DATE |       | TIME |     | TEMPERATURE |     | WIND |     | HUMIDITY |     | PRESSURE |     | VISIBILITY |     | CLOUDS |     | SEA    |       | OTHER   |  |
|------|-------|------|-----|-------------|-----|------|-----|----------|-----|----------|-----|------------|-----|--------|-----|--------|-------|---------|--|
| DAY  | MONTH | HR   | MIN | Avg         | Ext | Dir  | Spd | Rel      | Abs | Bar      | Alt | Dist       | Dir | Base   | Top | Height | State | Remarks |  |
| 1    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 2    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 3    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 4    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 5    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 6    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 7    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 8    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 9    |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 10   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 11   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 12   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 13   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 14   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 15   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 16   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 17   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 18   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 19   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 20   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 21   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 22   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 23   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 24   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 25   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 26   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 27   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 28   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 29   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 30   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |
| 31   |       |      |     |             |     |      |     |          |     |          |     |            |     |        |     |        |       |         |  |

\*ALSO ON FARTHER YEARS

DIRNAVOCEANMET-SMOS



## DAILY AVERAGE/EXTREME TEMPERATURES

| STANDARD TIME |     |     |     | LOCAL TIME |     |     |     | DATE |     |     |     | TIME |     |     |     | TEMP. |     |     |     | WIND |     |     |     | SEA |     |     |     | CLOUDS |     |     |     | REMARKS |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |   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| HR            | MIN | SEC | DAY | HR         | MIN | SEC | DAY | HR   | MIN | SEC | DAY | HR   | MIN | SEC | DAY | HR    | MIN | SEC | DAY | HR   | MIN | SEC | DAY | HR  | MIN | SEC | DAY | HR     | MIN | SEC | DAY | HR      | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | DAY | HR | MIN | SEC | 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# 2006-2007 PAPER

DIRNA VOCEANMET-SMOS



## EXTREME VALUES

5842 YU, ZHANG

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## EXTREME VALUES

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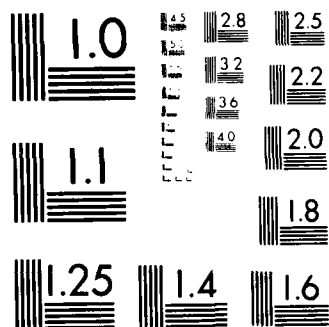
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

UNCLASSIFIED

F/G 4/2

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

# PSYCHROMETRIC SUMMARY

DATE  
MONTH  
HOURS

YEARS

STATION NAME

| Temp<br>F | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       | TOTAL |       | TOTAL |       |    |           |          |          |           |
|-----------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-----------|----------|----------|-----------|
|           | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 70        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 71        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 72        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 73        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 74        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 75        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 76        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 77        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 78        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 79        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 80        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 81        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 82        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 83        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 84        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 85        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 86        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 87        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 88        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 89        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 90        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 91        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 92        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 93        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 94        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 95        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 96        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 97        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 98        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 99        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |
| 100       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |

| Element (X) | ΣX <sup>2</sup> |    | ΣX | σ <sub>x</sub> | No. Obs. | Mean No. of Hours with Temperature |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-----------------|----|----|----------------|----------|------------------------------------|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|
|             | °F              | °F |    |                |          | °F                                 | °F | °F | °F | °F |  |  |  |  |  |  |  |  |  |  |  |
| Ref. Hum.   |                 |    |    |                |          |                                    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |
| Dry Bulb    |                 |    |    |                |          |                                    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |
| Wet Bulb    |                 |    |    |                |          |                                    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |
| Dew Point   |                 |    |    |                |          |                                    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |

NAVWEASERVCOM



# PSYCHROMETRIC SUMMARY

3

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

DATE 11/1/51 HOURS 11.51

| Temp<br>F   | WET BULB TEMPERATURE DEPRESSION (F) |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    | TOTAL |    | Dew Point |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-------------------------------------|---|---|-----|---|---|----|---|---|----------------|----|----|----------|----|----|------------------------------------|----|----|----|----|----|----|----|----|-------|----|-----------|----|----|----|----|----|-----|-----------|----------|----------|-------|--|--|--------|--|--|--------|--|--|--------|--|--|--------|--|--|--------|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|
|             | 0                                   | 1 | 2 | 3   | 4 | 5 | 6  | 7 | 8 | 9              | 10 | 11 | 12       | 13 | 14 | 15                                 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24    | 25 |           | 26 | 27 | 28 | 29 | 30 | ≥31 | D.B. W.B. | Dry Bulb | Wet Bulb | Total |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 70          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 71          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 72          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 73          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 74          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 75          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 76          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 77          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 78          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 79          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 80          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 81          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 82          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 83          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 84          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 85          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 86          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 87          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 88          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 89          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 90          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 91          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 92          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 93          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 94          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 95          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 96          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 97          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 98          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 99          |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 100         |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Element / X | Σ X <sup>2</sup>                    |   |   | Σ X |   |   | X̄ |   |   | σ <sub>x</sub> |    |    | No. Obs. |    |    | Mean No. of Hours with Temperature |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Rel. Hum.   |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    | Σ 0 F                              |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  | Σ 32 F |  |  | Σ 67 F |  |  | Σ 73 F |  |  | Σ 80 F |  |  | Σ 93 F |  |  | Total |  |  |  |  |  |  |  |  |  |  |  |
| Dry Bulb    |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Wet Bulb    |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Dew Point   |                                     |   |   |     |   |   |    |   |   |                |    |    |          |    |    |                                    |    |    |    |    |    |    |    |    |       |    |           |    |    |    |    |    |     |           |          |          |       |  |  |        |  |  |        |  |  |        |  |  |        |  |  |        |  |  |       |  |  |  |  |  |  |  |  |  |  |  |

NAWWEASERVCOM





## PSYCHROMETRIC SUMMARY

| STATION | TEMP<br>F | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | TOTAL     |          |          |           | STATION NAME | YEARS | MONTH | PAGE 1 | HOURS (LST) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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|         |           | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥31 | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |              |       |       |        |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 1       | 77        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |              |       |       |        |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

NAVWEASERVCOM

# PSYCHROMETRIC SUMMARY

STATION NAME: STATION 1 YEARS: 1961 MONTH: 12 DAY: 31 HOURS (L.S.T.): 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

| Temp<br>F | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |  | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |
|-----------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|--|-----------|----------|----------|-----------|
|           | 0                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    |  |           |          |          |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          |          | 4.7       |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 2.2      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 2.2      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 2.1      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1.4      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1.7      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1.2      |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 7        |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 4        |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 7        |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1        |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1536     |           |
| 1         |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |           |          | 1536     |           |

| Element X | ΣX <sup>2</sup> | ΣX     | X̄   | σ <sub>x</sub> | No. Obs. | Mean No. of Hours with Temperature |       |       |       |       |       |  |  |  |  |  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |
|-----------|-----------------|--------|------|----------------|----------|------------------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
|           |                 |        |      |                |          | ≤0 F                               | ≤32 F | ≤67 F | ≤73 F | ≤80 F | ≥93 F |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |
| Rel. Hum  | 7347.281        | 627.21 | 40.9 | 22.002         | 1736     |                                    |       |       |       |       |       |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 744.0 |
| Dry Bulb  | 735.21          | 27.73  | 56.7 | 17.789         | 1736     |                                    |       |       |       |       |       |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 744.0 |
| Wet Bulb  | 734.7           | 627.21 | 40.9 | 22.002         | 1736     |                                    |       |       |       |       |       |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 744.0 |
| Dew Point | 734.7           | 627.21 | 40.9 | 22.002         | 1736     |                                    |       |       |       |       |       |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 744.0 |

## PSYCHROMETRIC SUMMARY

| STATION | DATE | MONTH | YEARS | STATION NAME | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |          |          |           | TOTAL |      |      |          |  | Wet Bulb | Dew Point |
|---------|------|-------|-------|--------------|-------------------------------------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|----------|----------|-----------|-------|------|------|----------|--|----------|-----------|
|         |      |       |       |              | 0                                   | 1 | 2 | 3 | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26   | 27   | 28       | 29       | 30        | 31    | D.B. | W.B. | Dry Bulb |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |      |      |          |  |          |           |
| 1       | 2    | 3     | 4     | 5            | 6                                   | 7 | 8 | 9 | 10 | 11 | 12 | 13 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |          |          |           |       |      |      |          |  |          |           |

NAVWEASERVCOM



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 55. **KEYWORDS**  
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 57. **INDEXING TERMS**  
 58. **DESCRIPTORS**  
 59. **CLASSIFICATION**  
 60. **THESE**  
 61. **DISSERTATION**  
 62. **THESIS**  
 63. **RESEARCH**  
 64. **STUDY**  
 65. **ANALYSIS**  
 66. **EXPERIMENT**  
 67. **TEST**  
 68. **MEASUREMENT**  
 69. **EVALUATION**  
 70. **COMPARISON**  
 71. **CONTRAST**  
 72. **DIFFERENCE**  
 73. **RESEMBLANCE**  
 74. **ANALOGY**  
 75. **SYMBOLISM**  
 76. **IMAGERY**  
 77. **FIGURATIVE LANGUAGE**  
 78. **POETRY**  
 79. **PROSE**  
 80. **DRAMA**  
 81. **NOVEL**  
 82. **SHORT STORY**  
 83. **ESSAY**  
 84. **ARTICLE**  
 85. **BOOK REVIEW**  
 86. **CRITIQUE**  
 87. **REVIEW**  
 88. **EDITORIAL**  
 89. **FOREWORD**  
 90. **PREFACE**  
 91. **INTRODUCTION**  
 92. **CONCLUSION**  
 93. **REFERENCES**  
 94. **APPENDIX**  
 95. **FIGURES**  
 96. **TABLES**  
 97. **NOTES**  
 98. **ACKNOWLEDGMENTS**  
 99. **ABSTRACT**  
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 232. **NOTES**  
 233. **ACKNOWLEDGMENTS**  
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 236. **SUBJECT TERMS**  
 237. **INDEXING TERMS**  
 238. **DESCRIPTORS**  
 239. **CLASSIFICATION**  
 240. **THESE**  
 241.

ALL HOURS

| Temp<br>F | WET BULB TEMPERATURE DEPRESSION (°F) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |         |          |   | TOTAL<br>Wet Bulb<br>Dew Point |
|-----------|--------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|---------|----------|---|--------------------------------|
|           | 0                                    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30    | DB W.B. | Dry Bulb |   |                                |
| 62        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 64        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 66        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 68        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 70        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 72        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 74        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 76        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 78        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 80        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 82        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 84        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 86        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 88        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 90        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 92        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 94        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 96        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 98        |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 100       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 102       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 104       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 106       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 108       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 110       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 112       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 114       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 116       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 118       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 120       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 122       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 124       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 126       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 128       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 130       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 132       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 134       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 136       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 138       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 140       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 142       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 144       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 146       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 148       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 150       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 152       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 154       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 156       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 158       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 160       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 162       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 164       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 166       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 168       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 170       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 172       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 174       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 176       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 178       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 180       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 182       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 184       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 186       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 188       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 190       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 192       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 194       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 196       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 198       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 200       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 202       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 204       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 206       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 208       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 210       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 212       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 214       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 216       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 218       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         | 2        | 2 |                                |
| 220       |                                      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | </ |    |    |    |    |    |    |    |       |         |          |   |                                |





# PSYCHROMETRIC SUMMARY

3

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 DRY BULB TEMPERATURE (DB) DEW POINT (DP) WET BULB TEMPERATURE (WB) WIND DIRECTION (DIR) WIND SPEED (SPEED) HOURS: \_\_\_\_\_

| WET BULB TEMPERATURE DEPRESSION |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  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TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  | 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| WET BULB TEMPERATURE DEPRESSION F |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |      |          |          |           | TOTAL |    |  |  |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|----------|----------|-----------|-------|----|--|--|--|
| F                                 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B.  | W.B. | Dry Bulb | Wet Bulb | Dew Point |       |    |  |  |  |
| 7                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 6                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 5                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 4                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 3                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 2                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 1                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
| 0                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
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|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       |    |  |  |  |
|                                   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |          |          |           |       | </ |  |  |  |

[illegible]





## PSYCHROMETRIC SUMMARY

TABLE 1

TABLE 1

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| WET BULB TEMPERATURE DEPRESSION F |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      | TOTAL |          |          |       | TOTAL |  |  |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------|----------|----------|-------|-------|--|--|--|
|                                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | ≥ 31 | DB WB | Dry Bulb | Wet Bulb | Total |       |  |  |  |
| 1                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 2                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 3                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 4                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 5                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 6                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 7                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 8                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 9                                 |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 10                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 11                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 12                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 13                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 14                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 15                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 16                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 17                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 18                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 19                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 20                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 21                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 22                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 23                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 24                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 25                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 26                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 27                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 28                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 29                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 30                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 31                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 32                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 33                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 34                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 35                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 36                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 37                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 38                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 39                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 40                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 41                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 42                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 43                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 44                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 45                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 46                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 47                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 48                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 49                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 50                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 51                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 52                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 53                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 54                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 55                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 56                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 57                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 58                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 59                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 60                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 61                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 62                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 63                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 64                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 65                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 66                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 67                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 68                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 69                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 70                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 71                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 72                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |
| 73                                |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |          |          |       |       |  |  |  |



# PSYCHROMETRIC SUMMARY

STATION NAME  
MONTH  
YEARS  
AUG 1  
HOURS 11.57

| Temp<br>F | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |      | TOTAL<br>Wet Bulb<br>Dew Point |      |          |  |
|-----------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|--------------------------------|------|----------|--|
|           | 0                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B. |                                | W.B. | Dry Bulb |  |
| 11        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 12        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 13        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 14        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 15        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 16        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 17        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 18        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 19        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 20        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 21        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 22        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 23        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 24        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 25        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 26        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 27        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 28        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 29        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 30        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 31        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 32        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 33        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 34        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 35        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 36        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 37        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 38        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 39        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 40        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 41        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 42        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 43        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 44        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 45        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 46        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 47        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 48        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 49        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 50        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 51        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 52        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 53        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 54        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 55        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 56        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 57        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 58        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 59        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 60        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 61        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 62        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 63        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 64        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 65        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 66        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 67        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 68        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 69        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 70        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 71        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 72        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |
| 73        |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |                                |      |          |  |





## PSYCHROMETRIC SUMMARY

| TIME | WET BULB TEMPERATURE DEPRESSION F. |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |       |          |          | TOTAL |           |  |  |
|------|------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|----------|----------|-------|-----------|--|--|
|      | 0                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | DB WB | Dry Bulb | Wet Bulb |       | Dew Point |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |
| 7    |                                    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |          |          |       |           |  |  |



# PSYCHROMETRIC SUMMARY

3

STATION NAME: TELLS MONTH: YEAR: HOURS: 1

| Temp<br>F | WET BULB TEMPERATURE DEPRESSION F |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           |          |          |           |  |
|-----------|-----------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|--|
|           | 0                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |  |
| 27        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 26        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 25        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 24        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 23        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 22        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 21        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 20        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 19        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 18        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 17        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 16        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 15        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 14        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 13        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 12        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 11        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 10        |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 9         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 8         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 7         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 6         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 5         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 4         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 3         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 2         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 1         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |
| 0         |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |  |

| Element   | X | X <sup>2</sup> | ΣX | ΣX <sup>2</sup> | Mean No. of Hours with Temperature | No. Obs. | "x" | Σx | Σx <sup>2</sup> | Total |
|-----------|---|----------------|----|-----------------|------------------------------------|----------|-----|----|-----------------|-------|
| Rel Hum   |   |                |    |                 |                                    |          |     |    |                 |       |
| Dry Bulb  |   |                |    |                 |                                    |          |     |    |                 |       |
| Wet Bulb  |   |                |    |                 |                                    |          |     |    |                 |       |
| Dew Point |   |                |    |                 |                                    |          |     |    |                 |       |

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

REPORT OF THE

50

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10

[illegible]

WORMEASERV.COM





## MEANS AND STANDARD DEVIATIONS

YEAP5

[illegible]

## MEANS AND STANDARD DEVIATIONS

[illegible]



## MEANS AND STANDARD DEVIATIONS

[illegible]

## RELATIVE HUMIDITY

•

2

100

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS):

[illegible]



2

**OCEANAV-SMOS**

STATION NAME

FORM 1

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | 10%   | 20%   | 30%   | 40%   | 50%   | 60%   | 70%   | 80%   | 90%   | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|-------------------------|
| 1      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 2      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 3      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 4      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 5      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 6      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 7      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 8      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 9      |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 10     |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 11     |              |       |       |       |       |       |       |       |       |       |                              |                         |
| 12     |              |       |       |       |       |       |       |       |       |       |                              |                         |
| TOTALS |              | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 2.0                          | 1477                    |

## RELATIVE HUMIDITY

STATION NAME:

2025

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]



## RELATIVE HUMIDITY

STATISTICS

10

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 2  
 3  
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS.

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |      |      |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>DAYS |
|--------|--------------|--------------------------------------------------------|-----|------|------|-----|-----|-----|-----|-----|------------------------------|-------------------------|
|        |              | 10%                                                    | 20% | 30%  | 40%  | 50% | 60% | 70% | 80% | 90% |                              |                         |
|        |              | 1.0                                                    | 1.0 | 2.0  | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
|        |              | 1.0                                                    | 1.0 | 4.0  | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
|        |              | 1.0                                                    | 1.0 | 1.0  | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
|        |              | 1.0                                                    | 1.0 | 2.0  | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
|        |              | 7.0                                                    | 1.0 | 4.0  | 2.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
|        |              | 1.0                                                    | 1.0 | 11.1 | 10.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |
| TOTALS |              | 1.0                                                    | 1.0 | 11.1 | 6.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                     |



STAT : 4 NAME:

3

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUMBER<br>OBS. |
|--------|--------------|--------------------------------------------------------|------|------|------|------|-----|-----|-----|-----|------------------------------|-------------------------|
|        |              | 10%                                                    | 20%  | 30%  | 40%  | 50%  | 60% | 70% | 80% | 90% |                              |                         |
| JAN    | 1            | 1.0                                                    | 1.0  | 4.0  | 12.4 | 5.0  | 1.0 |     |     |     | 20.7                         | 2                       |
|        | 2            | 1.0                                                    | 3.0  | 3.0  | 2.0  | 1.0  | 1.0 |     |     |     | 11.0                         | 2                       |
| FEB    | 1            | 7.0                                                    | 11.0 | 7.0  | 1.0  | 1.0  | 1.0 |     |     |     | 13.1                         | 3                       |
|        | 2            | 10.0                                                   | 5.0  | 7.0  | 1.0  | 1.0  |     |     |     |     | 13.0                         | 2                       |
| MAR    | 1            | 7.0                                                    | 10.0 | 4.0  | 1.0  |      |     |     |     |     | 13.0                         | 2                       |
|        | 2            | 10.0                                                   | 7.0  | 5.0  |      |      |     |     |     |     | 20.0                         | 2                       |
| TOTALS |              | 31                                                     | 31.7 | 17.0 | 16.5 | 10.0 | 1.0 |     |     |     | 13.7                         | 14                      |

## RELATIVE HUMIDITY

STAT. NAME:

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1

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS):

[illegible]



CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

[illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

# RELATIVE HUMIDITY

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|-------------------------|
| JAN    | 01           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 02           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 03           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 04           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 05           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 06           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 07           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 08           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 09           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 10           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 11           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 12           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 13           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 14           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 15           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 16           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 17           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 18           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 19           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 20           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 21           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 22           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 23           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 24           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 25           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 26           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 27           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 28           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 29           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 30           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| JAN    | 31           | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |
| TOTALS |              | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 4.0 | 1.0 | 1.0 | 1.0 | 4.0                          | 1                       |

# 3 TEMPERATURE

## 1. LOCATION

2. DATE

3. TIME

4. WIND

5. WAVE

6. CLOUD

7. VISIB

8. HUMID

9. PRESS

10. ALT

11. TIDE

12. MOON

13. SUN

14. STARS

15. PLANETS

16. METEORS

17. COMETS

18. AURORA

19. MAGNET

20. GRAVITY

21. ELECTRIC

22. MAGNETIC

23. OTHER



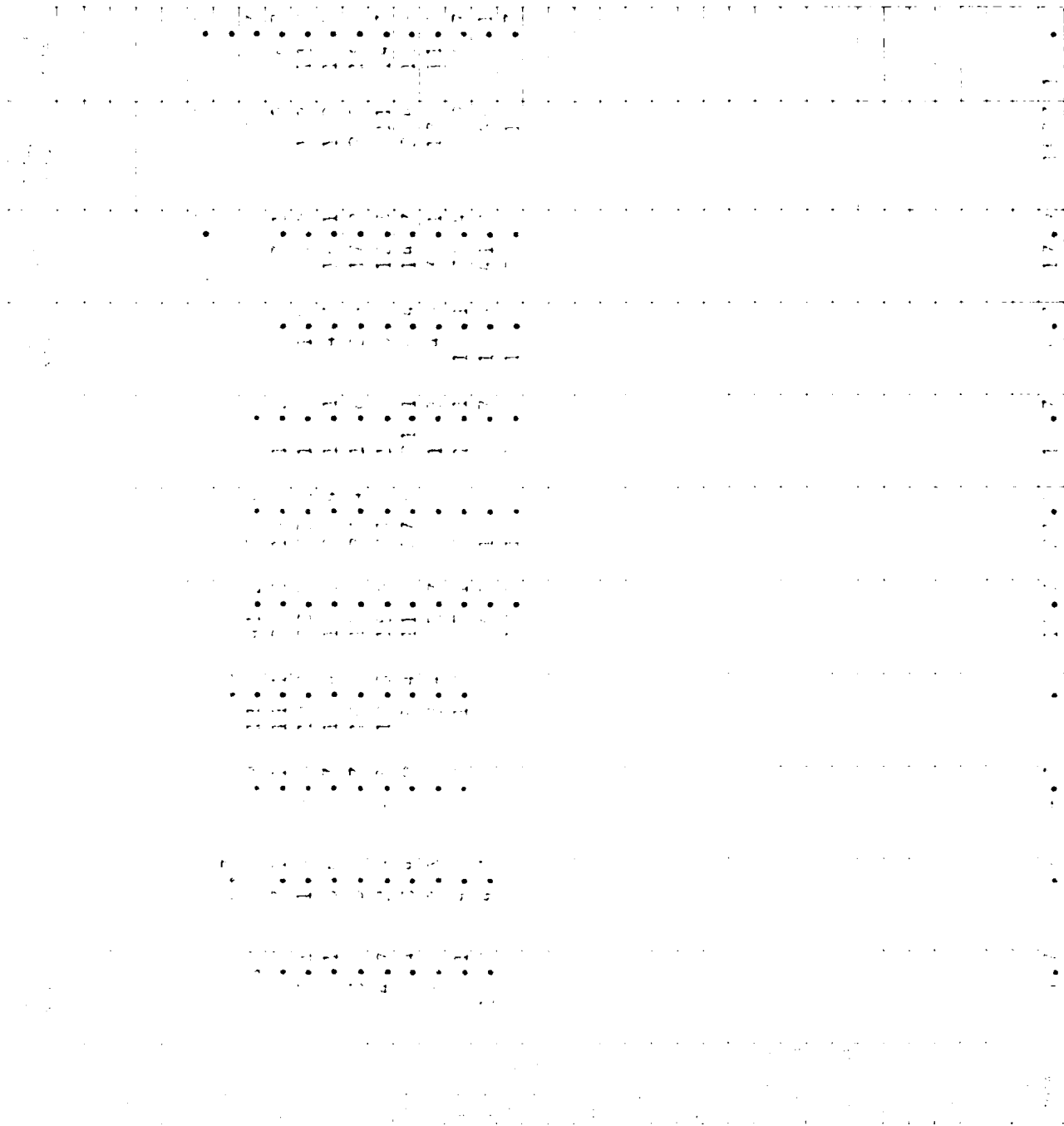


# NAVWEASERVCOM

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1484 |
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# PERCENT FREQUENCY OF AIR TEMPERATURE VS WIND DIRECTION

WIND DIRECTION



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS

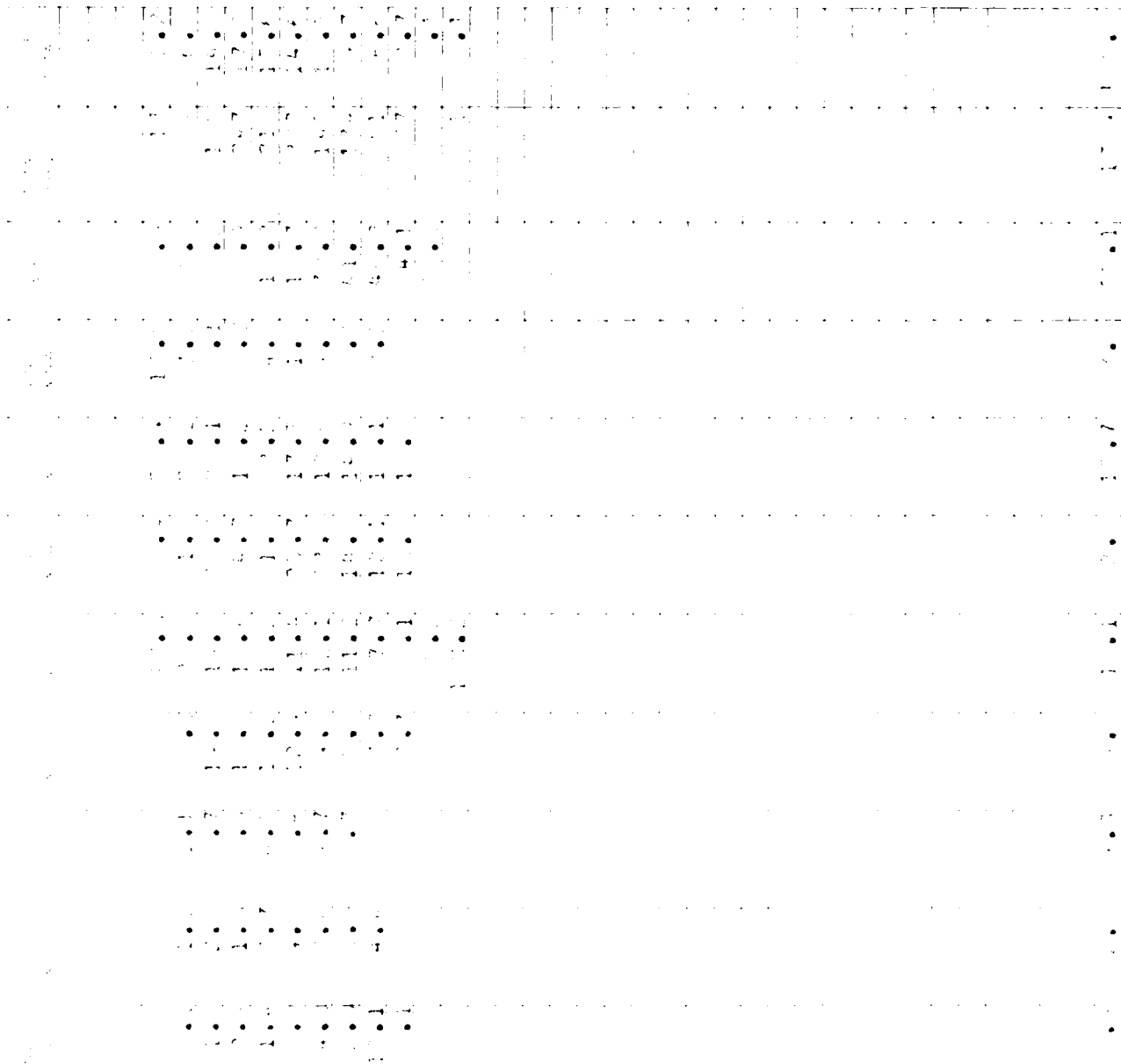
WIND DIRECTION

WIND DIRECTION

| WIND DIRECTION | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | TOTAL |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0              | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 10             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 20             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 30             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 40             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 50             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 60             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 70             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 80             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 90             | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 100            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 110            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 120            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 130            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 140            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 150            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 160            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 170            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 180            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 190            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 200            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 210            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 220            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 230            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 240            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 250            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 260            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 270            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 280            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 290            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 300            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 310            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 320            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 330            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 340            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 350            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| 360            | 1.0  | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 10.0  |
| TOTAL          | 10.0 | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 10.0   | 100.0 |

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

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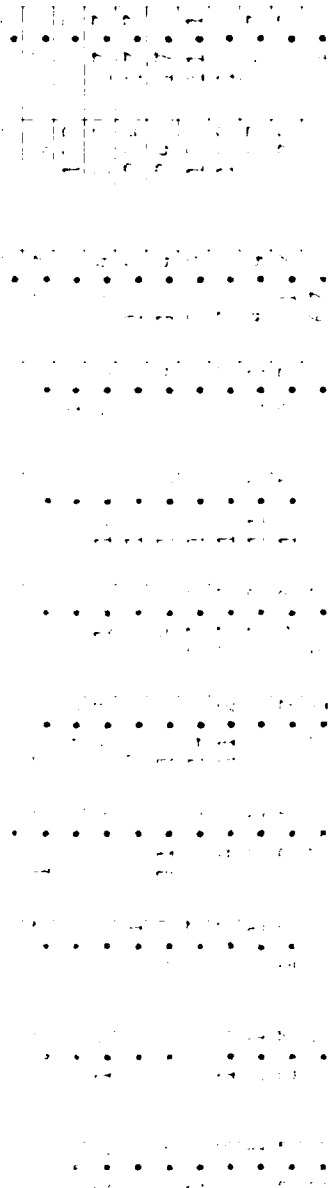
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NAVVEASERVCOM

TEMPERATURE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION



DIRECTION

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TEMPERATURE

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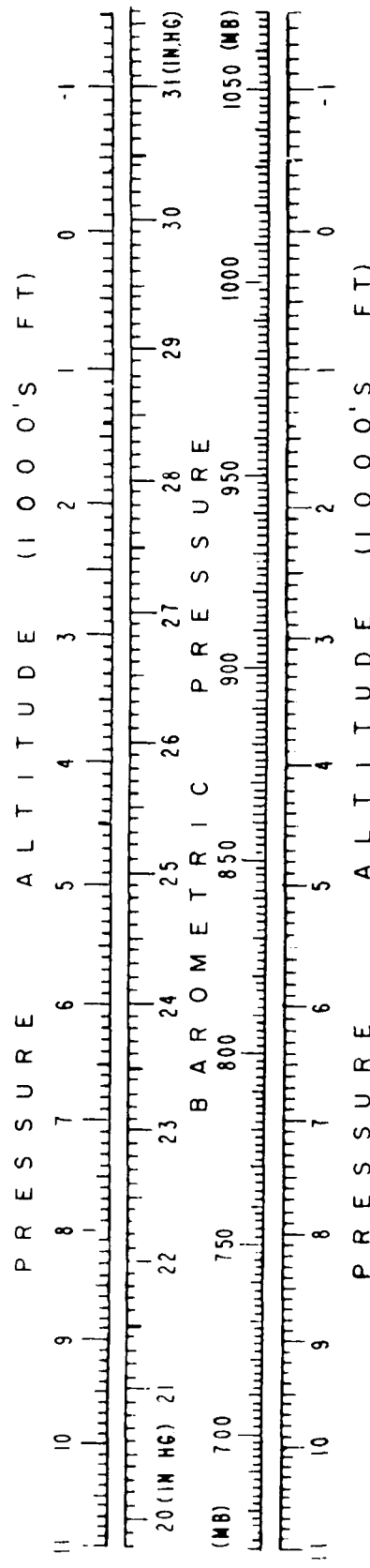
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



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## MEANS AND STANDARD DEVIATIONS

[illegible]

**END**

**FILMED**

**4-85**

**DTIC**