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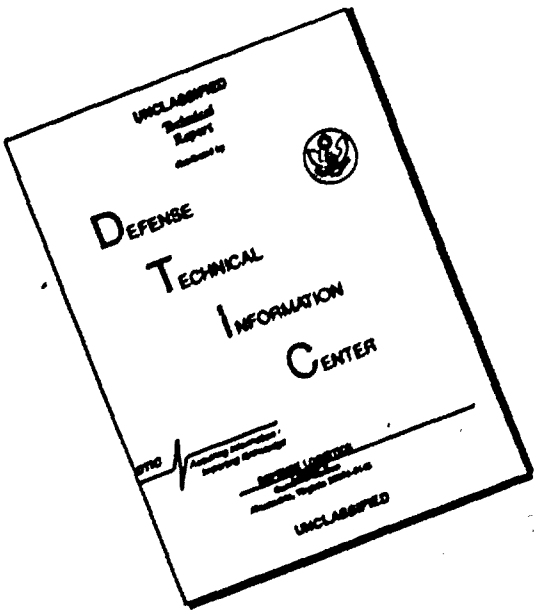
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MARCH 1985

PREPARED BY
NAVAL OCEANOGRAPHY COMMAND DETACHM

PREPARED UNDER
COMMANDER, NAVAL OCEANOGRAPHY
NSTL, MS 39529

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This pilot atlas introduces a new, numerically derived, historical data set in the form of a wind and wave climatology. Existing wave climatologies are primarily based on visual ship observations, these climatologies may be unreliable, particularly in data-sparse regions. This atlas provides the design, scientific and operational communities with a detailed representation of the overall wave climate of the whole North Pacific Ocean. Keywords:

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FOREWORD

Based upon previous atlas work prepared at the National Climatic Data Center for the Naval Oceanography Command Detachment, Asheville, it was recognized that there was a need for an objective climatology of the wave environment. An ad hoc committee of wave experts was established to pursue this idea.

The development of a Spectral Ocean Wave Model (SOWM) by Dr. Willard J. Pierson, Dr. Ledolf Baer, Dr. J. Tick, and Dr. R. Salfi, and the operational implementation of this model by Fleet Numerical Oceanography Center FLENUMOCEANCEN made it possible to attempt such a project. The SOWM was used to generate spectral wave data at FLENUMOCEANCEN using historical wind and pressure fields. The model was run in a hindcast mode, and produced 12.5 years of data for the North Pacific Ocean on which this atlas is based.

ACKNOWLEDGEMENT

This atlas was prepared for the Commander, Naval Oceanography Command and coordinated by the Naval Oceanography Command Detachment,

Asheville, North Carolina. Work was performed by the National Climatic Data Center.

Specific acknowledgement is made to members of the National Climatic Data Center: project leader, Mr. Thomas R. Karl; Mr. Ronald G. Baldwin for his computer programming; Messrs. Charles Thomason and William Brower for their isopleth analyses; Messrs. Joe D. Elms and Michael J. Changery for their suggestions and consultation; Mr. Michael Burgin and his assistants, Mr. John Thomas and Ms. Carolyn Herman, for their technical work; Ms. Laura K. Metcalf for her data processing assistance; and Mrs. Phyllis E. Taylor for the typing of the equations and to Mrs. Virginia Pressley for the final typing of the text.

Credit is also given to Ms. Susan Bales, and Mr. Gregory F. Neushaffer of the David Taylor Naval Ship Research and Development Center; Mr. Sheldon Lazanoff of Science Applications International, Inc.; LCDR A. K. Trapp and Mr. Brian Wallace of the Naval Oceanography Command Detachment, Asheville, for their comments and suggestions.

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TABLE OF CONTENTS

	Page
Foreword and Acknowledgement.....	iii
Introduction.....	v
Background.....	vi
Overview.....	vii
Isopleth Presentations.....	1-52
Contingency Tables.....	53-208
Duration-Interval Tables.....	209-298
Appendix A-SOWM Development.....	299-300
Appendix B-The Wind Fields.....	301
Appendix C-Parameter Derivations.....	302-304
Appendix D-Some Applications of Contingency Tables.....	305-306
Appendix E-Duration and Interval Tables.....	307-309
Appendix F-Comparison of SOWM with Other Climatologies.....	310-313
Bibliography.....	328-329

ISOPLETHS

WIND SPEED ($\leq$10 and $\geq$34 KNOTS)

WAVE HEIGHT (<5 and <8 FEET)

WAVE HEIGHT ($\geq$12 and $\geq$20 FEET)

WAVE SLOPE (α) ($\leq$0.05 and $\geq$0.10)

CONTINGENCY TABLES

WIND DIRECTION AND SPEED

WAVE HEIGHT AND WIND SPEED

WAVE HEIGHT AND WAVE SLOPE (α)

WAVE HEIGHT AND PERIOD

WAVE HEIGHT AND DIRECTIONALITY

WAVE HEIGHT AND PRIMARY WAVE DIRECTION

PRIMARY WAVE DIRECTION AND WIND DIRECTION

DURATION-INTERVAL TABLES

WIND SPEED DURATION

WIND SPEED INTERVALS

WAVE HEIGHT DURATIONS

WAVE HEIGHT INTERVALS

WAVE SLOPE (α) DURATIONS

WAVE SLOPE (α) INTERVALS

PAGE INDEX

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
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	68	70	72	74	76	78	80	82	84	86	88	90
92	94	96	98	100	102	104	106	108	110	112	114	116
118	120	122	124	126	128	130	132	134	136	138	140	142
144	146	148	150	152	154	156	158	160	162	164	166	168
170	172	174	176	178	180	182	184	186	188	190	192	194
196	197	198	199	200	201	202	203	204	205	206	207	208

WINTER	SPRING	SUMMER	FALL	ALL DATA
209	212	215	218	221
224	227	230	233	236
239	242	245	248	251
254	257	260	263	266
269	272	275	278	281
284	287	290	293	296

INTRODUCTION

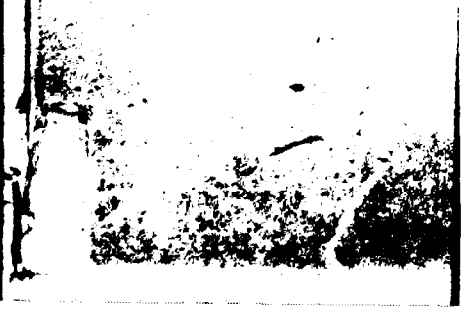
Existing wave climatologies are primarily based on visual ship observations. These climatologies may be unreliable, particularly in data-sparse regions. Shipborne wave recorders have provided reliable wave data for selected areas of the oceans, but a scarcity of these data remains. This atlas introduces a new, numerically derived, historical data set in the form of a wind and wave climatology. It is intended to provide the design, scientific and operational communities a more accurate representation of the overall wave climate of the North Pacific Ocean than is available from other sources.

BACKGROUND

In December 1974 the Fleet Numerical Oceanography Center FLENUMOCEANCEN in conjunction with the Naval Oceanographic Office (NAVOCEANO) adopted the Spectral Ocean Wave Model (SOWM) developed by Dr. Willard J. Pierson and others to produce operational spectral wave data for the Northern Hemisphere. The SOWM is a computer-based procedure that produces a directional variance spectrum at specified grid points spaced at up to 180 nautical mile intervals. This spectrum defines the sea surface at each grid point through a two-dimensional (direction/frequency) matrix of 12 directions and 15 frequency bands. Further information on the theoretical basis of the SOWM is contained in Appendix A.

At the Seakeeping Workshop in July 1975, the rationale and structure of a hindcast wind and wave climatology were developed. It was concluded at that time that the hindcast climatology be intended to provide a statistical basis for evaluating the effects of the environment.

A jointly funded project by the U. S. Navy, the National Oceanic and Atmospheric Administration (NOAA), and the Department of Defense in the 1960's and early 1970's had assembled a data base containing ship observations as far back as 1854. A major goal



of the effort was to produce a marine environmental history. In 1976, this new historical data base was combined with existing pressure analyses to produce a reanalysis of Northern Hemisphere sea-level pressure on a 63 x 63 grid at 00Z, 06Z, 12Z, and 18Z. The reanalysis was performed by Meteorology International, Inc. (MII) using a comprehensive technique for the objective analysis of scalar and vector fields called "Fields by Information Blending" (FIB) Mendenhall et al. (1977).

Once the pressure fields were produced, wind fields (speed and direction) were computed. Using these modeled winds, FLENUMOCEANCEN generated a spectral wave field, which was forwarded to the David Taylor Naval Ship Research and Development Center (DTNSRDC) for analysis. Appendix B provides further information on the FIB technique and on the generation of the wind fields.

In order to summarize a set of spectra, it is often useful to generalize the most significant characteristics. DTNSRDC, with Operations Research, Inc. (ORI), developed computer programs to derive a number of numerical parameters from the spectral wave data. The National Climatic Data Center (NCDC) used many of the concepts from these programs and others written by FLENUMOCEANCEN to devise a parameterization routine which was used for this atlas.

OVERVIEW

I. PARAMETERS

This atlas contains climatological summaries for seven parameters. Four of these parameters have already been summarized in other climatic atlases (U. S. Navy, 1977). These include wind speed and direction, significant wave height (hereafter referred to as the wave height), and wave direction, i.e., the direction from which the highest waves are moving (hereafter referred to as primary wave direction). The other three parameters contained in the wave climate summaries for this atlas are: wave slope parameter, modal wave period, and directionality of the waves (hereafter referred to as the directionality). These three parameters have not appeared in previous U. S. Navy climatological atlases, because they cannot be directly derived from visual observations. However, they can be very important operating considerations. Appendix C provides a complete description of all seven parameters. A brief description of the wave slope parameter, modal wave period, and directionality follows.

The wave slope of a regular wave is defined as the ratio of wave height to wave length. It is not normally reported, but it can be obtained from the output of the SOWM or from the frequency spectrum of a wave record. Ship rolling and hence stability is affected by the wave slopes of the higher waves encountered. The wave slope parameter is directly related to the wave slope. Therefore, the higher the wave slope parameter, the higher the wave slope. Table C3 in Appendix C relates the wave slope parameter to values of the wave slope at a fixed point. Steep waves are usually associated with wave slope parameters of 0.10 or more, while values of less than 0.05 are usually associated with more moderate conditions.

The modal wave period is defined in terms of the frequency spectrum. It is the period associated with the maximum wave energy in the wave spectrum. Modal wave periods associated with wave lengths about 0.75 and 1.25 ship lengths (depending on ship course and speed) can cause resonance pitching and heaving. The modal wave period is not necessarily equal to the wave period associated with the higher of the two waves, the sea or the swell as summarized in the past U. S. Navy climatologies (U. S. Navy, 1977).

The directionality is a measure of the uniformity of the direction of movement of the waves. If the waves are all moving in a uniform direction then the directionality is equal to one. When there is no preferred direction of wave movement (a completely confused sea state) the directionality takes on the value of 0. Obviously, ship response and maneuverability can be affected by the directional spread of the wave energy.

II. DATA

Data in this atlas are derived using winds and waves from the period September 1964 to February 1977, i.e. 12.5 years. Computer processing difficulties during the generation of the SOWM hindcast data caused the number of hindcasts to vary among grid points. As a result, approximately 1% of all the data were lost during the 12.5-year hindcast period, 1964-1977. This small percentage is unlikely to have any significant effect on the analyses.

The first 9.5 years of wind fields were derived by using the historical sea-level pressure analysis as derived from the FIB technique. The last three years of wind fields were obtained from the initial operational wind fields generated by FLENUMOCEANCEN (Lazanoff, 1981). Appendix B contains further details.

ISOPLETH ANALYSES

Isopleth analyses were completed for various thresholds for the percent frequency of wind speed, wave height, and the wave slope parameter. These analyses were based on nearly 250 grid points, 63 of which are also used in tabular presentations. All points are depicted on the North Pacific Ocean map (Fig. 1). The 63 grid points also used in tabular summaries are listed in Table 1.

Isopleth analyses are not shown in areas of shallow water (< 100 fathoms). The gray line in Fig. 1 is in fact the 100 fathom isobath. In the Bering Sea this boundary roughly coincides with the mean position of the late winter and early spring ice edge. In some years the ice edge will be south of this position (Naval Oceanographic Office, 1969) so caution should be used in interpreting wave conditions in the vicinity of the 100 fathom isobath, particularly during late winter and early spring.

CONTINGENCY TABLES

Contingency tables for 63 grid points are presented for the following elements:

(1) Wind direction and speed;

(2) Wave height and wind speed;

(3) Wave height and wave slope parameter;

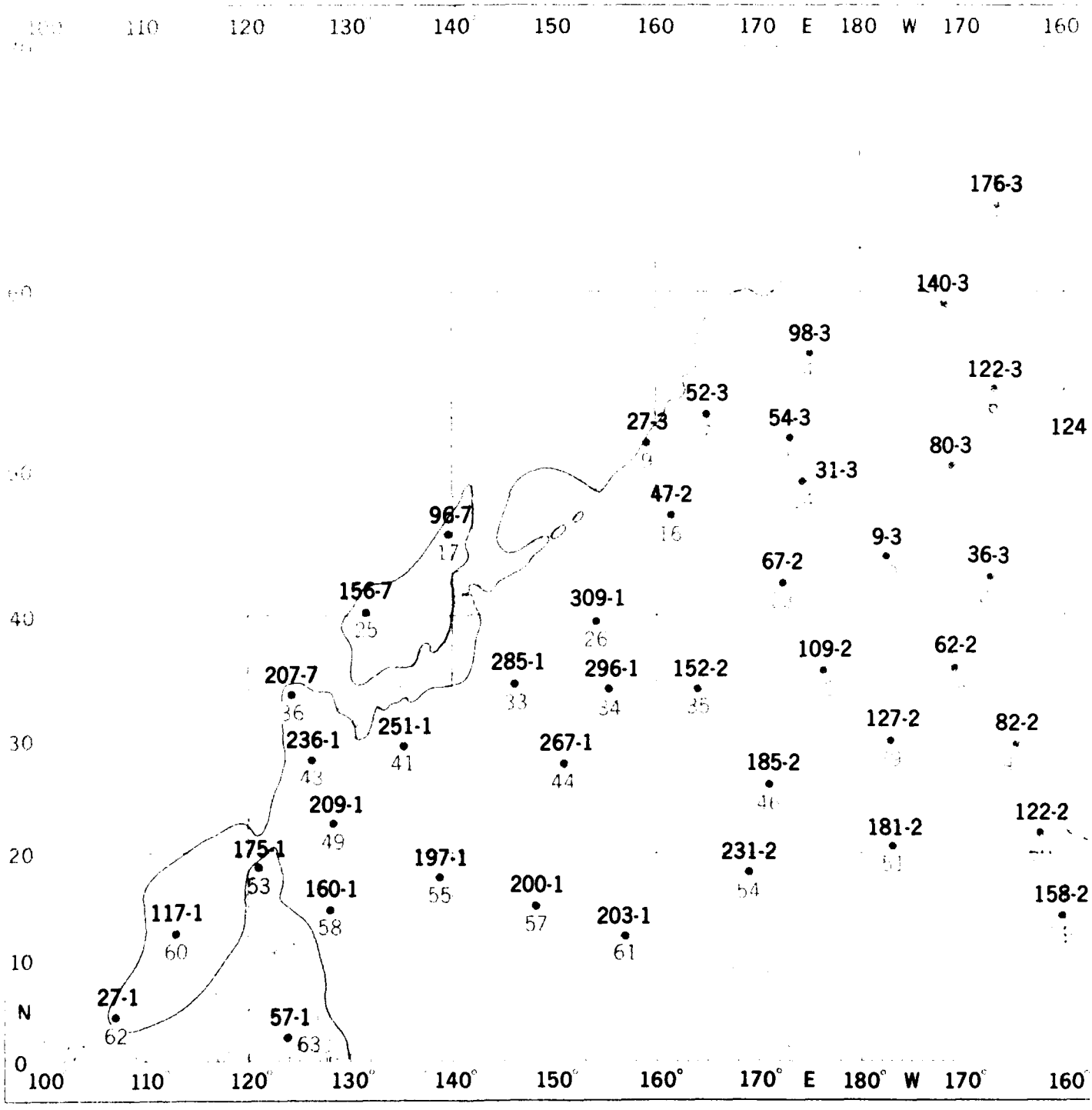
(4) Wave height and period;

(5) Wave height and directionality;

(6) Wave height and primary wave direction;

(7) Primary wave direction and wind direction.

Fig. 1 GRID POINT-SUBPROJECTION AND SEQUENCI



AND SEQUENCE NUMBERS

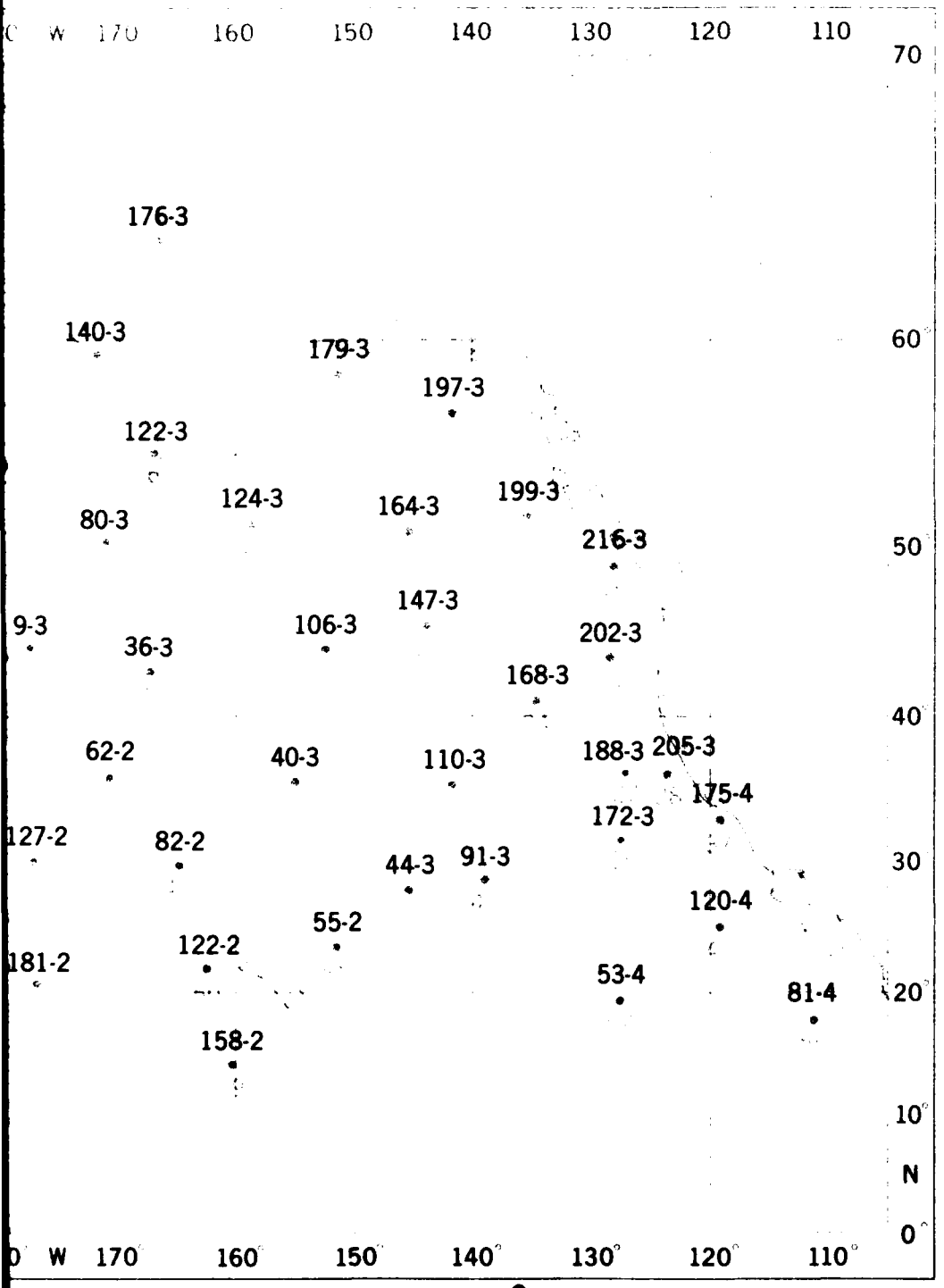


TABLE 1

GRID POINTS INCLUDED IN TABULAR SUMMARIES

SEQUENCE *	GRID POINT SUBPROJECTION	LATITUDE	LONGITUDE
1	176 – 3	64.0 N	166.7 W
2	140 – 3	59.4 N	172.0 W
3	179 – 3	58.5 N	151.6 W
4	98 – 3	56.8 N	174.8 E
5	197 – 3	56.8 N	141.9 W
6	122 – 3	54.9 N	167.1 W
7	52 – 3	53.4 N	164.7 E
8	54 – 3	52.0 N	172.9 E
9	27 – 3	51.7 N	158.8 E
10	199 – 3	51.7 N	135.6 W
11	124 – 3	51.3 N	158.8 W
12	164 – 3	50.9 N	145.6 W
13	80 – 3	50.3 N	171.3 W
14	31 – 3	49.3 N	174.1 E
15	216 – 3	49.0 N	128.4 W
16	47 – 2	47.1 N	161.2 E
17	96 – 7	45.8 N	139.3 E
18	147 – 3	45.6 N	144.2 W
19	9 – 3	44.3 N	177.7 W
20	106 – 3	44.2 N	152.7 W
21	202 – 3	43.7 N	128.7 W
22	36 – 3	42.8 N	167.5 W
23	67 – 2	42.4 N	172.1 E
24	168 – 3	41.0 N	134.9 W
25	156 – 7	40.2 N	131.2 E
26	309 – 1	39.5 N	153.8 E
27	188 – 3	36.2 N	127.4 W
28	205 – 3	36.1 N	123.8 W
29	62 – 2	35.9 N	171.0 W
30	109 – 2	35.7 N	176.1 E
31	40 – 3	35.6 N	155.2 W
32	110 – 3	35.4 N	142.0 W

SEQUENCE *	GRID POINT SUBPROJECTION	LATITUDE	LONGITUDE
33	285 – 1	34.6 N	145.9 E
34	296 – 1	34.2 N	155.1 E
35	152 – 2	34.2 N	163.8 E
36	207 – 7	33.7 N	123.9 E
37	175 – 4	32.9 N	119.4 W
38	172 – 3	31.5 N	127.7 W
39	127 – 2	29.9 N	177.3 W
40	82 – 2	29.6 N	165.0 W
41	251 – 1	29.4 N	134.9 E
42	91 – 3	28.6 N	139.2 W
43	236 – 1	28.2 N	125.9 E
44	267 – 1	27.9 N	150.7 E
45	44 – 3	27. 8 N	145.6 W
46	185 – 2	26.1 N	170.8 E
47	120 – 4	25.0 N	119.4 W
48	55 – 2	23.5 N	151.8 W
49	209 – 1	22.6 N	128.0 E
50	122 – 2	21.7 N	162.7 W
51	181 – 2	20.5 N	177.1 W
52	53 – 4	19.2 N	127.8 W
53	175 – 1	18.5 N	120.7 E
54	231 – 2	18.2 N	168.8 E
55	197 – 1	17.6 N	138.5 E
56	81 – 4	17.6 N	111.5 W
57	200 – 1	14.9 N	147.9 E
58	160 – 1	14.5 N	127.7 E
59	158 – 2	14.0 N	160.6 W
60	117 – 1	12.2 N	112.6 E
61	203 – 1	12.0 N	156.7 E
62	27 – 1	4.1 N	106.7 E
63	57 – 1	2.1 N	123.6 E

The values in these tables are percent frequencies rounded to the nearest whole percent. Values less than 0.5% but greater than 0% are depicted by a '+'.

The left side of each contingency table has a percentage scale for the bar graphs associated with the categories indicated along the bottom of the table. The height of the bar graphs was determined by adding the values within each column. Similarly, the percent frequencies in the column denoted by a 'T' (total) were obtained by summing the percent frequencies across each row. Rounding may cause minor differences between printed totals and total cell counts. By adding down or up the 'T' column or across the bar graphs at the bottom of the table, it is possible to obtain the cumulative percent frequency of a parameter below or above some specified threshold value.

In the following four contingency tables: wind direction and speed, wave height and wind speed, wave height and wave slope, and wave height and directionality the mean value of one of the two parameters associated with each contingency table is displayed just above the upper left corner. The number of hindcasts that was available for all seven tables is also shown at the top of each table. When SOWM hindcast data were not retained due to insufficient wave energy, all parameters were assumed to be zero including the wind speed and direction. Wind speeds were rounded to the nearest whole knot before tabulating the frequency statistics. Directions are those from which the wind or wave is coming. Detailed instructions describing how to read each of the various types of contingency tables are contained in the 'Legends for Tables'. Some potential uses for the contingency tables are demonstrated in Appendix D.

DURATION AND INTERVAL TABLES

Duration and Interval Tables were prepared for:

(1) Wind speed;

(2) Significant wave height;

(3) Wave slope parameter.

The tables contain objective compilations for 63 grid points on a seasonal basis, and also without regard to season (All Data). Since grid points may be representative of relatively small geographical areas surrounding the points, interpolation may be necessary if data are required for areas between grid points.

Episodes of durations (continuous hours or days) of events and episodes of intervals (continuous hours or days) between events were tallied for various thresholds. These tables give an indication of how long an episode is likely to last once it has begun. For convenience, the time an episode persisted above a given threshold is arbitrarily referred to as a "duration" of the event. The times in between episodes have been termed "intervals." Data have been summarized on a seasonal basis as opposed to monthly summaries. This was deemed most appropriate because even with 12.5 years of hindcast data the embedded missing data makes the sample too small to provide representative durations and intervals for long episodes of wind and wave conditions. The winter season consisted of months January through March, spring - April through June, summer - July through September, and autumn - October through December, (World Meteorological Organization, 1981). Additional information on the construction and use of the duration and interval tables, including examples of their applications, is included in Appendix E and in the 'Legends for Tables.'

III. COMPARISON OF THE SOWM CLIMATOLOGY WITH OTHER WAVE CLIMATOLOGIES

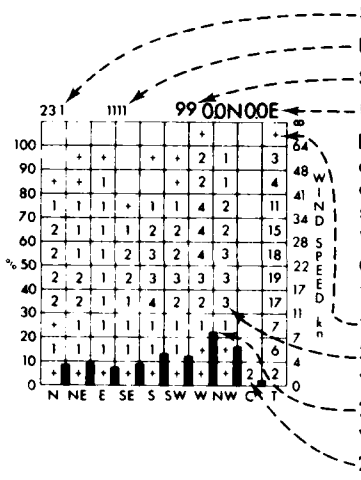
Undoubtedly, the SOWM hindcast climatology as presented in this atlas, varies in its strengths and weaknesses from location to location and even from parameter to parameter. In the absence of a substantial quantity of measured wave spectra across the North Pacific Ocean, a strict verification of the SOWM hindcast climatology is not possible. Nonetheless, some cogent information can be derived regarding the representativeness of the SOWM climatology via comparisons with other wind and wave climatologies. Appendix F contains some comparisons of the SOWM climatology with wave climatologies derived from other sources.

Users of this atlas are cautioned that the validity of the winds and waves near the equator (south of 10°to 15° N) is questionable. This is due to a combination of an inadequate wind field in these areas, and the artificial treatment in the hindcast model of the South Pacific Ocean as land. More details are given in Appendix A and B.

These comparisons indicate that some disagreements exist between data sources. The user should be aware of these differences when making decisions based on the North Pacific SOWM Atlas or other wave climatologies. Overall, this atlas should prove to be a highly useful product especially when used in conjunction with other wave climatologies. It provides extensive wave data on a basin wide scale, including details which cannot be inferred from the only other basin wide data set available, the 1977 U. S. Navy North Pacific Marine Climatic Atlas. User feedback concerning the North Pacific SOWM atlas data accuracy, utility, or format is solicited. Please address your comments to the Officer in Charge; Naval Oceanography Command Detachment; Federal Building, Asheville, NC 28801-2696.

LEGENDS FOR TABLES

WIND DIRECTION AND SPEED



Scalar mean speed (kn).

Number of hindcasts.

Sequence number.

LATITUDE AND LONGITUDE

Direction frequency (left scale): Bars are percentages for each wind direction. Speed frequency (right scale: Numbers are percentages of wind speed by direction.

C = Calm wind. T = Total.
+ Means >0 but <0.5%.

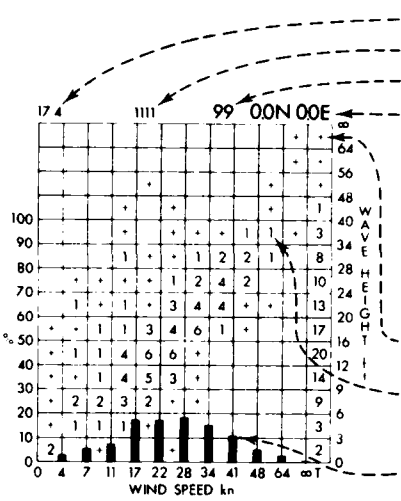
<0.5% Of the winds were ≥64 kn.

3% Of the winds were from the NW with speeds ≥11 kn. and <17 kn.

22% Of the winds were from the west.

2% Of the winds were calm.

WAVE HEIGHT AND WIND SPEED



Mean wave height (ft).

Number of hindcasts.

Sequence number.

LATITUDE AND LONGITUDE

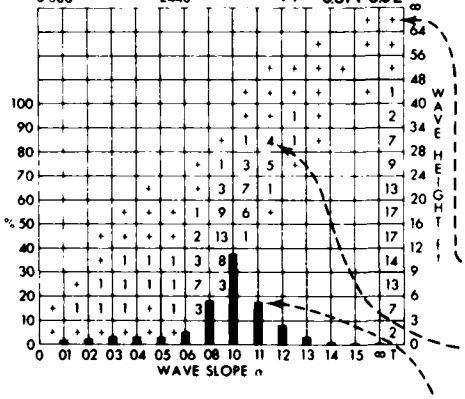
Wind speed frequency (left scale): Bars are percentages for each wind speed category. Wave height frequency (right scale): Numbers are percentages of wave height for various wind speeds. T = Total.
+ Means >0 but <0.5%.

<0.5% Of the wave heights were ≥64 ft. (19.5m).

1% Of the winds were ≥48 kn. but <64 kn. with wave heights ≥34 ft. (10.4m) but <40 ft. (12.2m).

11% Of the wind speeds were ≥34 kn. but <41 kn.

WAVE HEIGHT AND WAVE SLOPE α



Mean wave slope α.

Number of hindcasts.

Sequence number.

Latitude and longitude

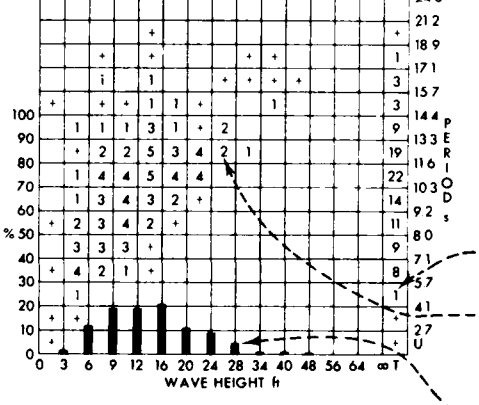
Wave slope α frequency (left scale): Bars are percentages for each wave slope category. Wave height frequency (right scale): Numbers are percentages of wave height vs. wave slope α.
T = Total. + Means >0 but <0.5%.

<0.5% Of the wave heights were ≥64 ft. (19.5m).

4% Of the wave slopes (α) were ≥.11 but <.12 with wave heights ≥28 ft. (8.5m) but <34 ft. (10.4m).

17% Of the wave slopes (α) were ≥.10 but <.11.

WAVE HEIGHT AND MODAL WAVE PERIOD



Number of hindcasts.

Sequence number.

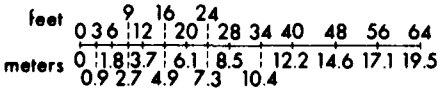
Latitude and longitude

Wave height frequency (left scale): Bars are percentages for each wave height category. Period frequency (right scale): Numbers are percentages of wave height vs. period.
T = Total. U = Undefined.
+ Means >0 but <0.5%.

1% Of the wave periods were ≥4.1 s. but <5.7 s.

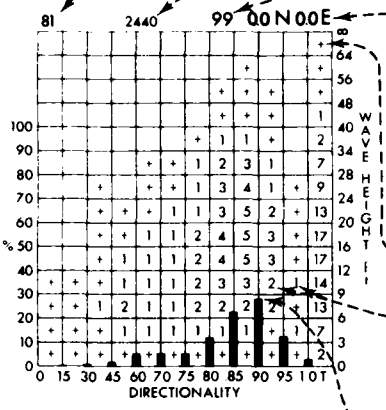
2% Of the wave heights were ≥24 ft. (7.3m) but <28 ft. (8.5m) with periods ≥11.6 s. but <13.3 s.

4% Of the wave heights were ≥24 ft. (7.3m) but <28 ft. (8.5m).



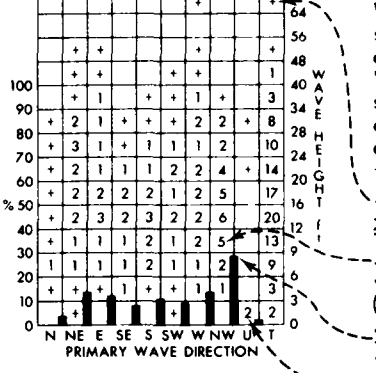
LEGENDS FOR TABLES

WAVE HEIGHT AND DIRECTIONALITY



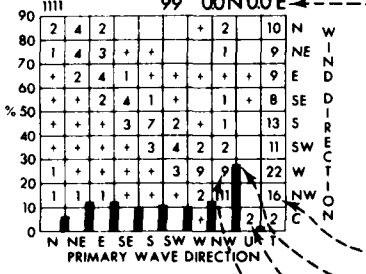
- Mean directionality
- Number of hindcasts.
- Sequence number
- Latitude and longitude
- Directionality frequency (left scale): Bars are percentages for each directionality category. Wave height frequency (right scale): Numbers are percentages of directionality values vs. wave height. T = Total. + Means >0 but <0.5%.
- <0.5% Of the wave heights were ≥64 ft. (19.5m).
- 1% Of the directionality values were ≥.95 but ≤1.00 with wave heights ≥9 ft. (2.7m) but <12 ft. (3.7m) and 2% of the directionality values were ≥.90 but <.95.
- 28% Of the directionality values were ≥.85 but <.90.

WAVE HEIGHT AND PRIMARY WAVE DIRECTION

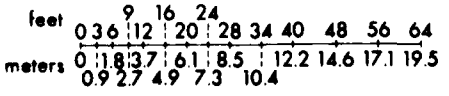


- Number of hindcasts.
- Sequence number.
- Latitude and longitude
- Wave direction frequency (left scale): Bars are percentages for each primary wave direction. Wave height frequency (right scale): Numbers are percentages of wave height vs. primary wave direction. T = Total. U = Undefined. + Means >0 but <0.5%.
- <0.5% Of the wave heights were ≥64 ft. (19.5m).
- 5% Of the primary wave directions were NW with wave heights ≥9 ft. (2.7m) but <12 ft. (3.7m).
- 28% Of the primary wave directions were NW.
- 2% Of the primary wave directions were undefined with wave heights ≥0 ft. (0m) but <3 ft. (0.9m).

PRIMARY WAVE DIRECTION AND WIND DIRECTION

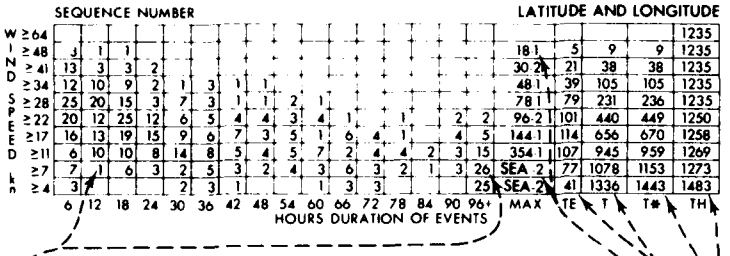


- Number of hindcasts.
- Sequence number.
- Latitude and longitude
- Wave direction frequency (left scale): Bars are percentages for each primary wave direction. Wind direction frequency (right scale): Numbers are percentages wind direction vs. primary wave direction. U = Undefined. C = Calm wind. T = Total. + Means >0 but <0.5%.
- 16% Of the winds were NW.
- 27% Of the primary wave directions were NW.
- 2% Of the primary wave directions were undefined with calm winds.
- 9% Of the primary wave directions were NW with W winds.



LEGENDS FOR TABLES

WIND SPEED DURATIONS - SEASONAL



1 Event with wind speeds ≥7 kn. persisted 12 hours; 26 events persisted ≥96 hours.

The longest event with wind speeds ≥7 kn. persisted for 1 month or more and it occurred 2 times.

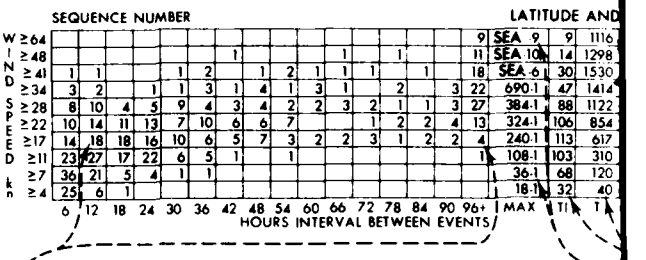
The longest event with wind speeds ≥48 kn. persisted 18 hours and it occurred 1 time.

41 Events had wind speeds ≥4 kn. which comprised a total of 1,336 hindcasts.

1,483 Hindcasts were examined, and 1,443 had wind speeds ≥4 kn.

Durations for a particular season extend from the time the event begins (or the first day of the season if already in progress), and terminate when the event ends. Events become undefined if missing data is encountered. Durations lasting a season or more are categorized together. Durations may persist into the next season.

WIND SPEED INTERVALS - SEASONAL



There were 18 12-hour intervals between events of wind spee ≥17 kn.; 4 intervals persisted 96 hours or more.

The longest interval between events of wind speeds ≥7 kn. was 36 hours and it occurred 1 time.

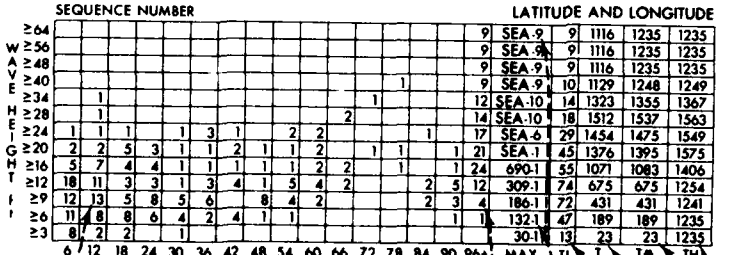
The longest interval between events of wind speeds ≥64 kn. 1 month or more and it occurred 9 times.

There were 32 intervals between events of wind speeds ≥4 k which comprised a total of 40 hindcasts.

1,235 Hindcasts were examined, and 40 had wind speeds <4

Intervals for a particular season extend from the time the even (or the first day of the season the event is not in progress), a nate when the event begins. Intervals become undefined if m data is encountered. Intervals lasting a season or more are categorized together. Intervals may persist into the next seas

WAVE HEIGHT INTERVALS - SEASONAL



There were 13 12-hour intervals between events of wave heights ≥9 ft. (2.7m); 4 intervals persisted 96 hours or more.

The longest interval between events of wave heights ≥6 ft. (1.8m) was 132 hours and it occurred 1 time.

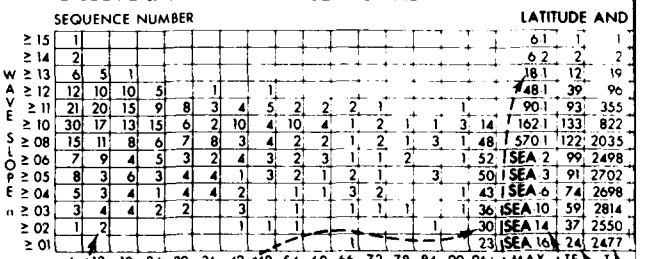
The longest interval between events of wave heights ≥64 ft. (19.5m) was 1 month or more and it occurred 9 times.

There were 13 intervals between events of wave heights ≥3 ft. (0.9m) which comprised a total of 23 hindcasts.

1,235 Hindcasts were examined, and 23 had wave heights <3 ft. (0.9m).

Intervals for a particular season extend from the time the event ends (or the first day of the season if the event is not in progress), and terminate when the event begins. Intervals become undefined if missing data is encountered. Intervals lasting a season or more are categorized together. Intervals may persist into the next season.

WAVE SLOPE α DURATIONS - SEASONAL



2 Events with α ≥0.02 persisted 12 hours; 30 events persisted ≥96 hours.

The longest event with α ≥0.13 persisted 18 hours and it occur 1 time.

The longest event with α ≥0.02 persisted for 1 month or more it occurred 14 times.

24 Events had α ≥0.01 which comprised a total of 2,477 hind

2,659 Hindcasts were examined, and 2,641 had α ≥0.01.

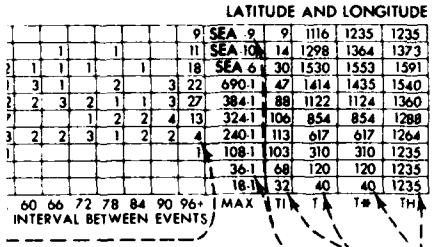
Durations for a particular season extend from the time the ev begins (or the first day of the season if already in progress), c nate when the event ends. Events become undefined if missin is encountered. Durations lasting a season or more are categ together. Durations may persist into the next season.

ABBREVIATIONS (See text for details)

MAX: Maximum duration or interval, followed by the number of occurrences.
TE or TI: Total number of events or intervals.
T: Total number of hindcasts included in TE or TI.
T#: Total number of hindcasts that met the stated criteria.
TH: Total number of hindcasts examined.

S FOR TABLES

ASONAL



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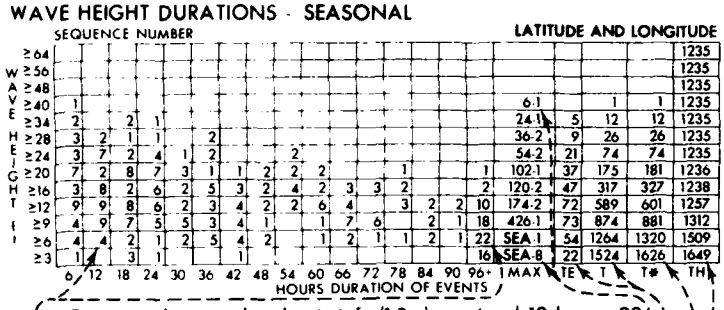
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rvals may persist into the next season.

WAVE HEIGHT DURATIONS - SEASONAL



4 Events with wave heights ≥6 ft. (1.8m) persisted 12 hours; 22 events persisted ≥96 hours.

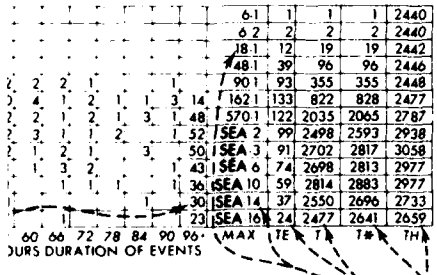
The longest event with wave heights ≥3 ft. (0.9m) persisted 1 month or more and it occurred 8 times.
The longest event with wave heights ≥40 ft. (12.2m) persisted for 6 hours and it occurred 1 time.

22 Events had wave heights ≥3 ft. (0.9m) which comprised a total of 1,524 hindcasts.

1,649 Hindcasts were examined, and 1,626 had wave heights ≥3 ft. (0.9m).

Durations for a particular season extend from the time the event begins (or the first day of the season if already in progress), and terminate when the event ends. Events become undefined if missing data is encountered. Durations lasting a season or more are categorized together. Durations may persist into the next season.

SEASONAL



sisted 12 hours; 30 events persisted

≥0.13 persisted 18 hours and it occurred

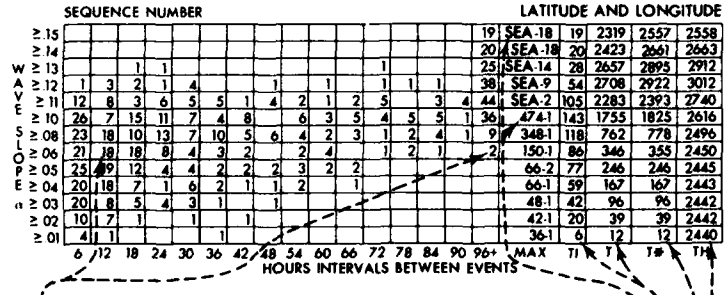
≥0.02 persisted for 1 month or more and

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the season if already in progress), and termi-
Events become undefined if missing data
lasting a season or more are categorized
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WAVE SLOPE α INTERVALS - SEASONAL



There were 18 12-hour intervals between events of wave slopes ≥0.06; 2 intervals persisted 96 hours or more.

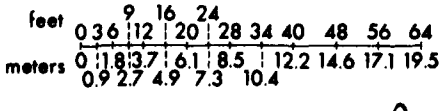
The longest interval between events of wave slopes ≥0.10 was 474 hours and it occurred 1 time.
The longest interval between events of wave slopes ≥0.15 was 1 month or more and it occurred 18 times.

There were 6 intervals between events of wave slopes ≥0.01 which comprised a total of 12 hindcasts.

2,440 Hindcasts were examined, and 12 had wave slopes <0.01.

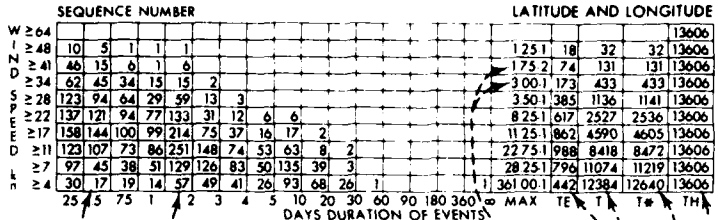
Intervals for a particular season extend from the time the event ends (or the first day of the season if the event is not in progress), and terminate when the event begins. Intervals become undefined if missing data is encountered. Intervals lasting a season or more are categorized together. Intervals may persist into the next season.

ces.



LEGENDS FOR TABLES

WIND SPEED DURATIONS - ENTIRE DATA SET



17 Events with wind speeds ≥4 kn. persisted 0.5 day; 57 events persisted >1 day but ≤2 days.

The longest event with wind speeds ≥41 kn. persisted 1.75 days and it occurred 2 times.

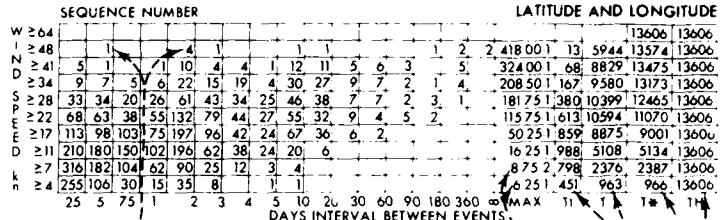
The longest event with wind speeds ≥34 kn. persisted 3 days and it occurred 1 time.

442 Events had wind speeds ≥4 kn. which comprised a total of 12,384 hindcasts.

13,606 Hindcasts were examined, and 12,640 had wind speeds ≥4 kn.

Durations extend from the time the event begins and terminate when the event ends. Events become undefined if missing data is encountered.

WIND SPEED INTERVALS - ENTIRE DATA SET



1 Interval between events of wind speeds ≥48 kn. persisted 0.5 day; 4 intervals persisted >1 day but ≤2 days.

The longest interval between events of wind speeds ≥4 kn. was 6.25 days and it occurred 1 time.

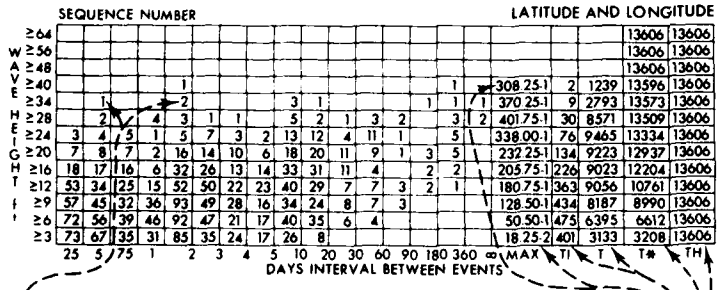
The longest interval between events of wind speeds ≥7 kn. was 8.75 days and it occurred 2 times.

There were 451 intervals between events of wind speeds ≥4 kn. which comprised a total of 963 hindcasts.

13,606 Hindcasts were examined, and 966 had wind speeds <4 kn.

Intervals extend from the time the event ends and terminate when the event begins. Intervals become undefined if missing data is encountered.

WAVE HEIGHT INTERVALS - ENTIRE DATA SET



1 Interval between events of wave heights ≥ 34 ft. (10.4m) persisted 0.5 day; 2 intervals persisted >1 day but ≤ 2 days.

The longest interval between events of wave heights ≥3 ft. (0.9m) was 18.25 days and it occurred 2 times.

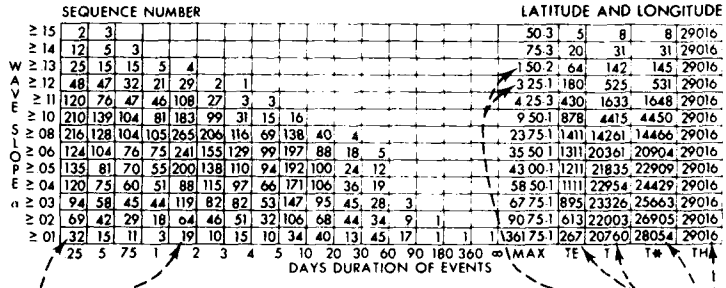
The longest interval between events of wave heights ≥40 ft. was 308.25 days and it occurred 1 time.

There were 401 intervals between events of wave heights ≥3 ft. (0.9m) which comprised a total of 3,133 hindcasts.

13,606 Hindcasts were examined, and 3,208 had wave heights <3 ft. (0.9m).

Intervals extend from the time the event ends and terminate when the event begins. Intervals become undefined if missing data is encountered.

WAVE SLOPE α DURATIONS - ENTIRE DATA SET



32 Events with α ≥0.01 persisted .25 day; 19 events persisted >1 day but ≤2 days.

The longest event with α ≥0.12 persisted 3.25 days and it occurred 1 time.

The longest event with α ≥0.13 persisted 1.50 days and it occurred 2 times.

267 Events had α ≥0.01 which comprised a total of 20,760 hindcasts.

29,016 Hindcasts were examined, and 28,054 had α ≥0.01.

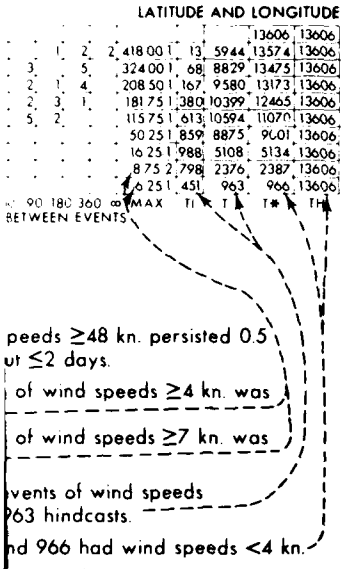
Durations extend from the time the event begins and terminate when the event ends. Events become undefined if missing data is encountered.

ABBREVIATIONS (See text for details)

MAX: Maximum duration or interval, followed by the number of occurrences.
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T#: Total number of hindcasts that met the stated criteria.
TH: Total number of hindcasts examined.

)R TABLES

'A SET



peeds ≥48 kn. persisted 0.5
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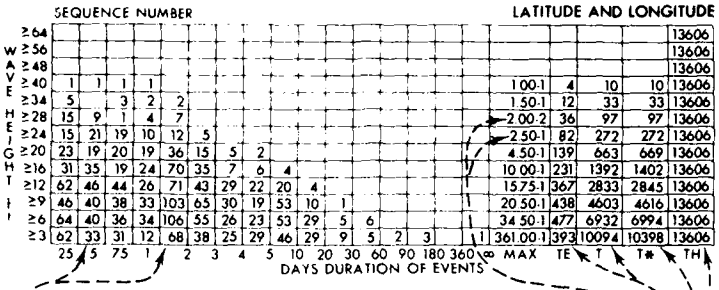
of wind speeds ≥7 kn. was

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963 hindcasts.

nd 966 had wind speeds <4 kn.

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undefined if missing data is

WAVE HEIGHT DURATIONS · ENTIRE DATA SET



33 Events with wave heights ≥3 ft. (0.9m) persisted 0.5 day; 68 events persisted >1 day but ≤2 days.

The longest event with wave heights ≥28 ft. (8.5m) persisted 2 days and occurred 2 times.

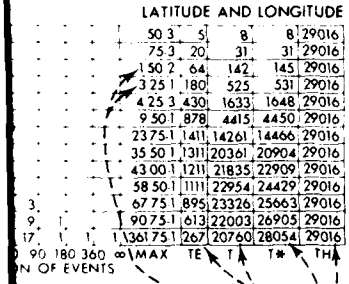
The longest event with wave heights ≥24 ft. (7.3m) persisted 2.5 days and occurred 1 time.

393 Events had wave heights ≥3 ft. (0.9m) which comprised a total of 10,094 hindcasts.

13,606 Hindcasts were examined, and 10,398 had wave heights ≥3 ft. (0.9m).

Durations extend from the time the event begins and terminate when the event ends. Events become undefined if missing data is encountered.

DATA SET



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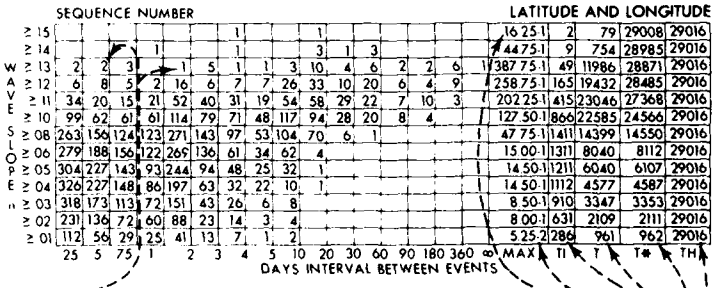
sted 1.50 days and it occurred

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WAVE SLOPE α INTERVALS · ENTIRE DATA SET



2 Intervals between events of wave slopes ≥0.13 persisted 0.5 day; 1 interval persisted >1 day but ≤2 days.

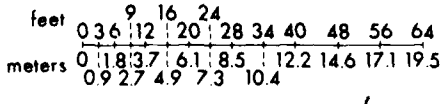
The longest interval between events of wave slopes ≥0.15 was 16.25 days and it occurred 1 time.

The longest interval between events of wave slopes ≥0.01 was 5.25 days and it occurred 2 times.

There were 286 intervals between events of wave slopes ≥0.01 which comprised a total of 961 hindcasts.

29,016 Hindcasts were examined, and 962 had wave slopes <0.01.

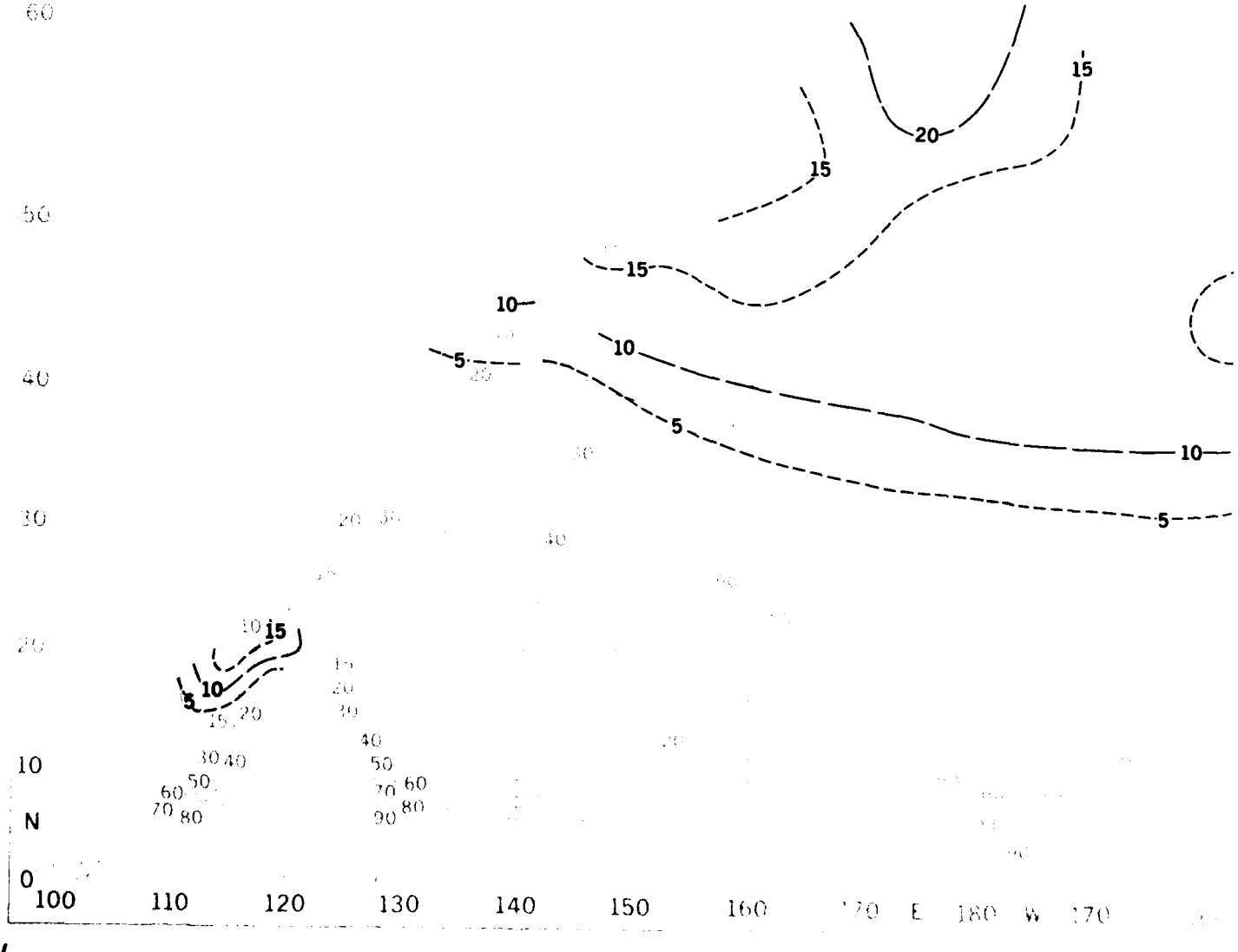
Intervals extend from the time the event ends and terminate when the event begins. Intervals become undefined if missing data is encountered.



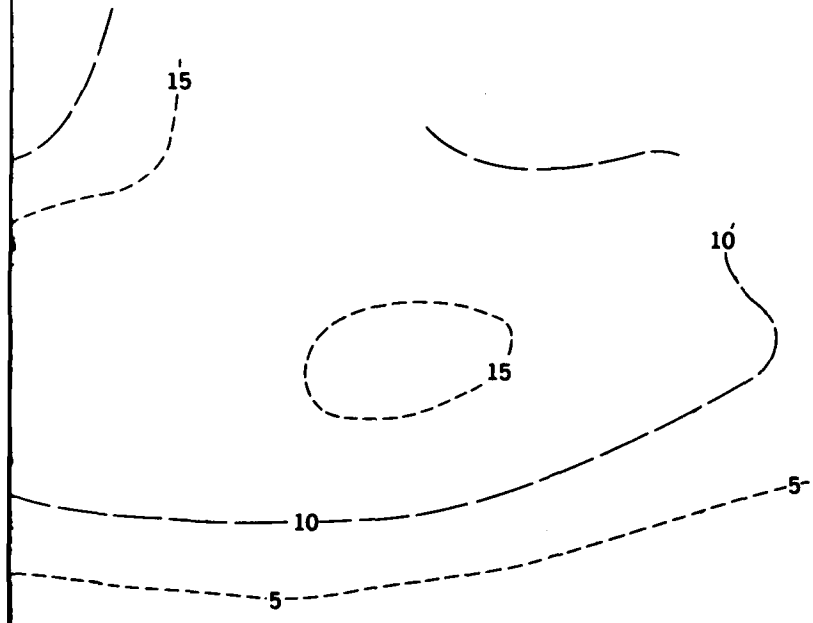
WIND SPEED (≤10 AND ≥34 KNOTS)

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



JANUARY

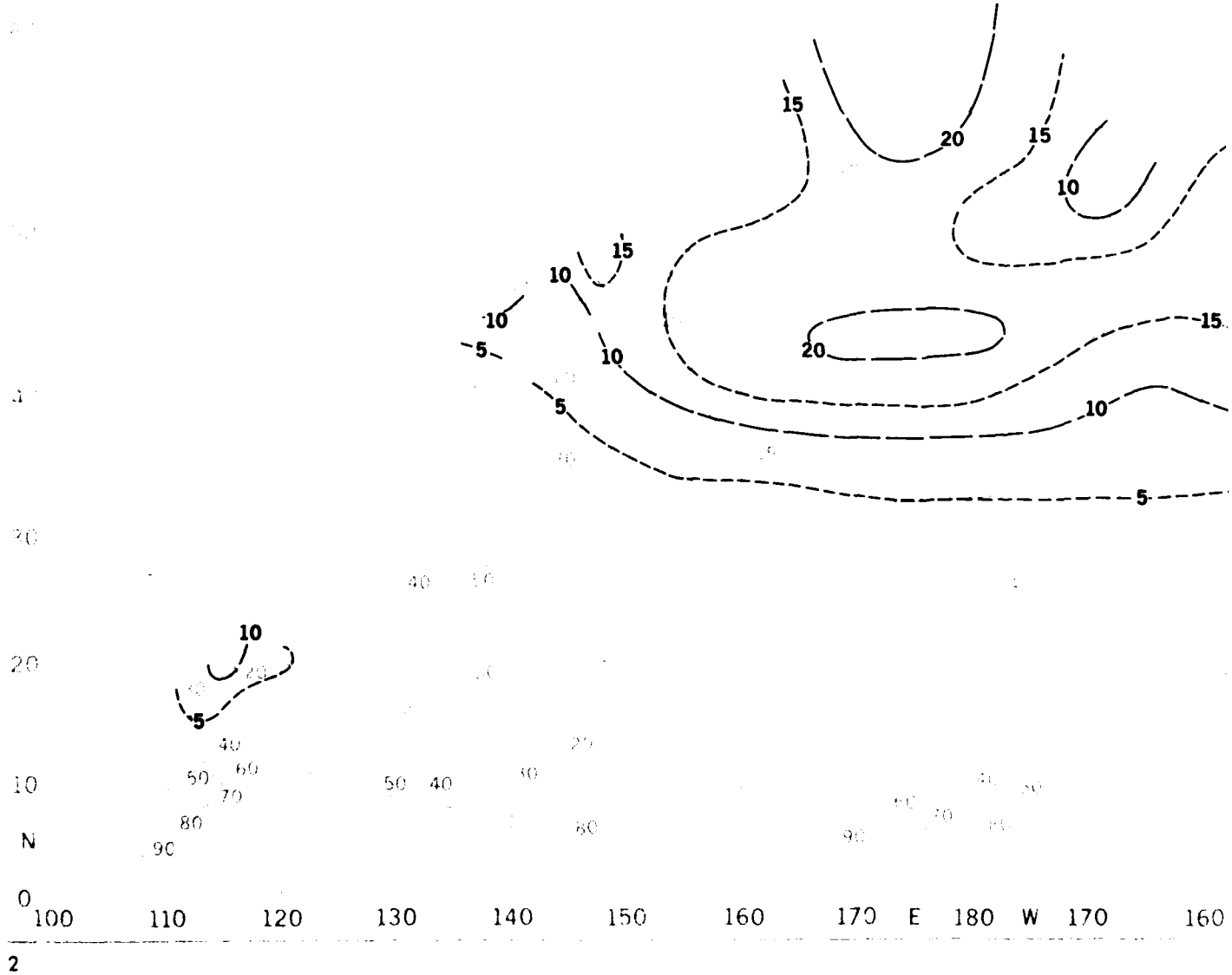


180 W 170 160 150 140 130 120 110

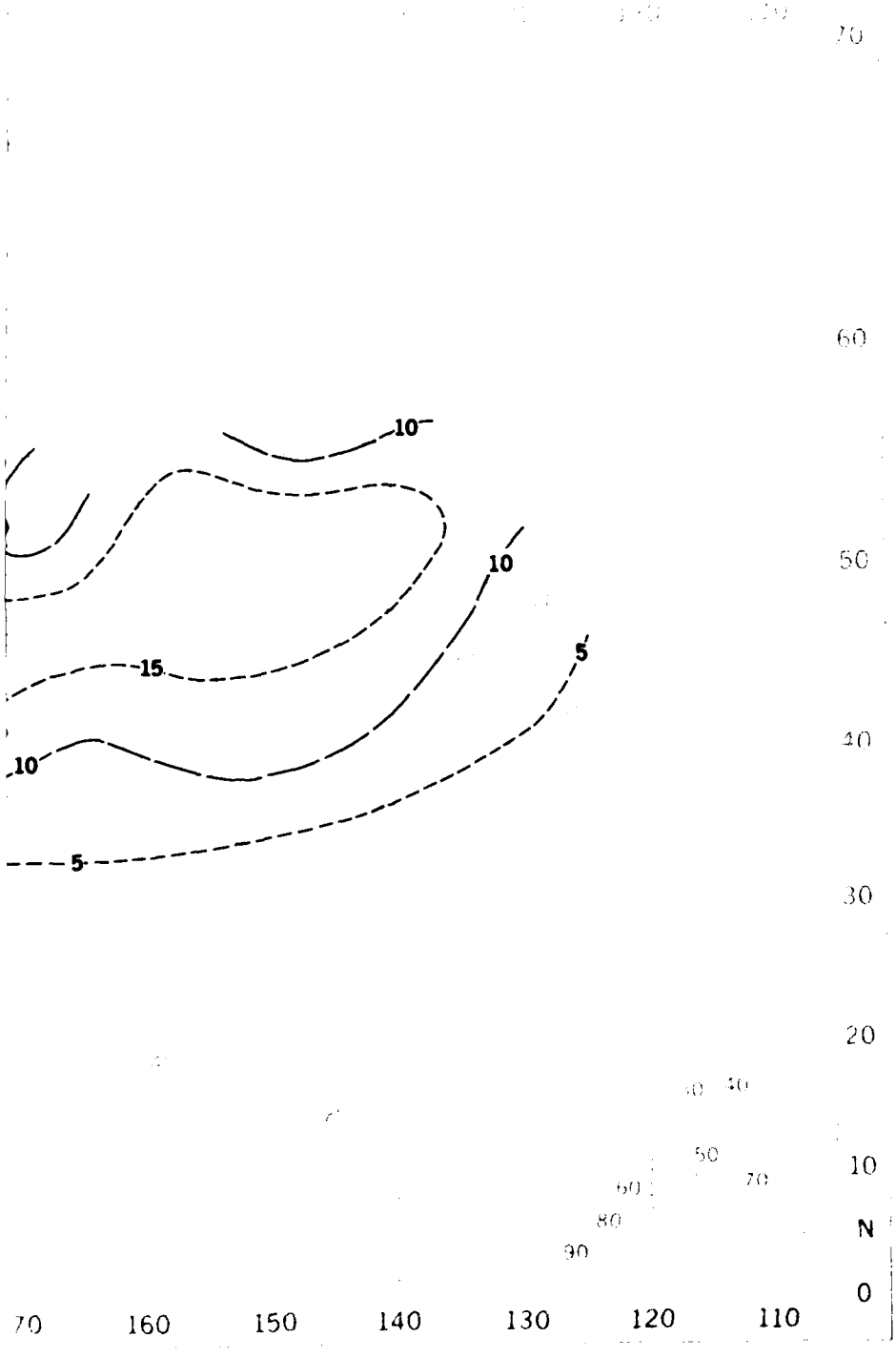
FEBRUARY

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



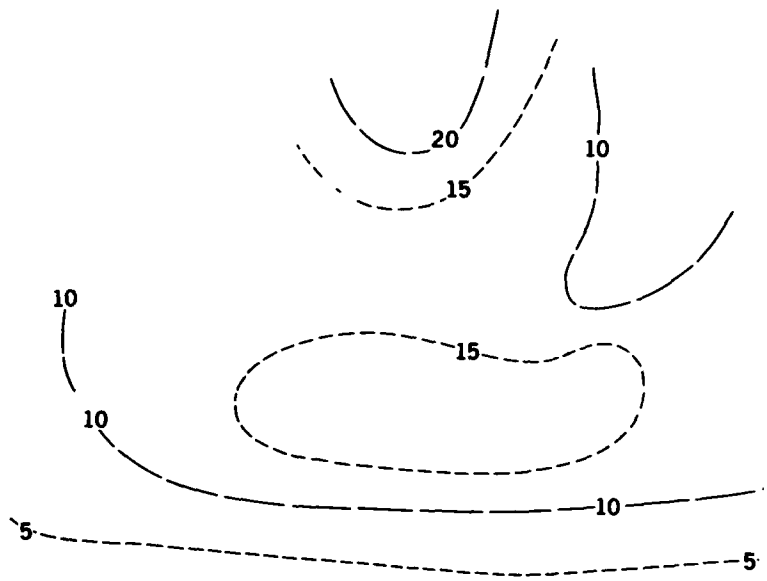
WIND SPEED (≤10 AND ≥34 KNOTS)



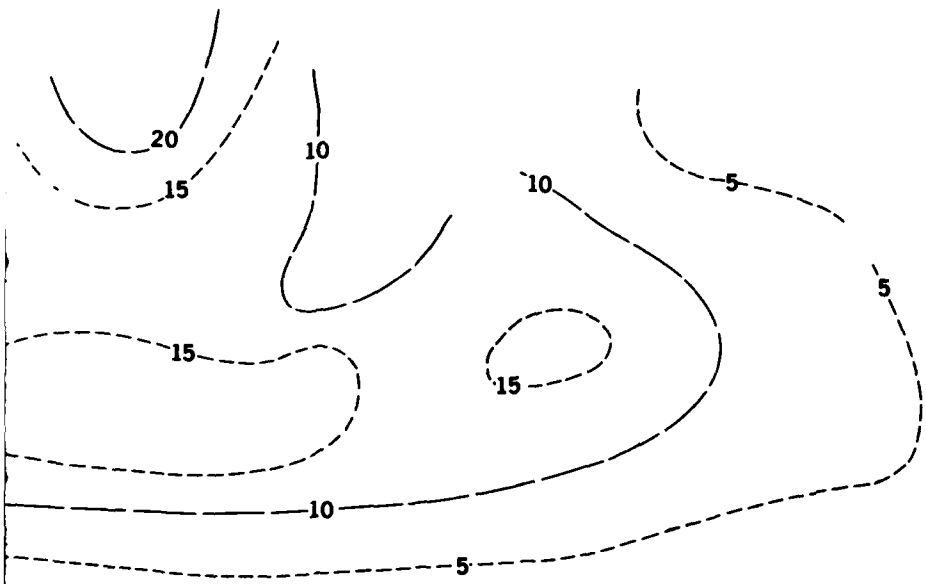
WIND SPEED (≤10 AND ≥34 KNOTS)

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



MARCH

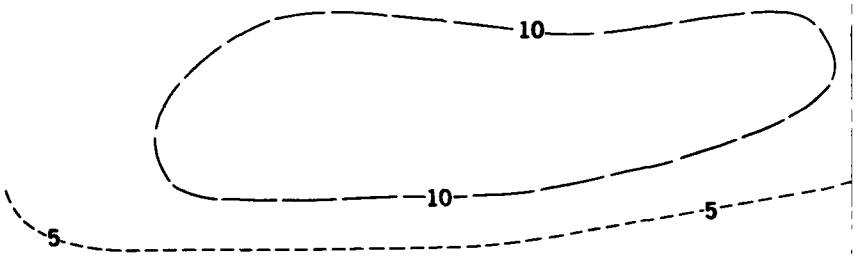


APRIL

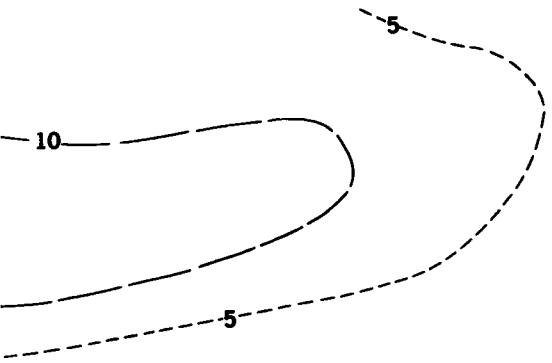
WIND

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



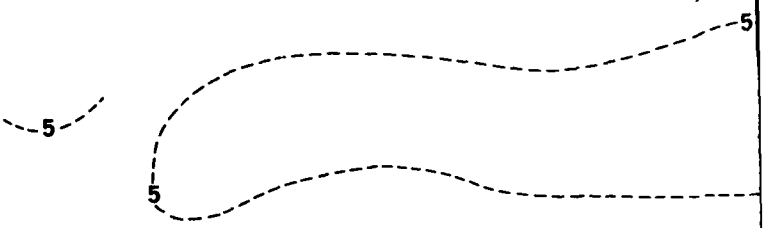
WIND SPEED (≤10 AND ≥34 KNOTS)



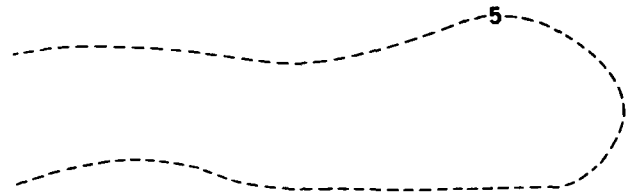
WIND SPEED (≤10 AND ≥34 KNOTS)

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



MAY



2

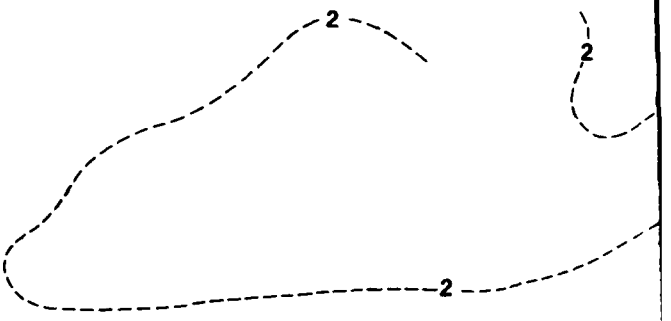
5

JUNE

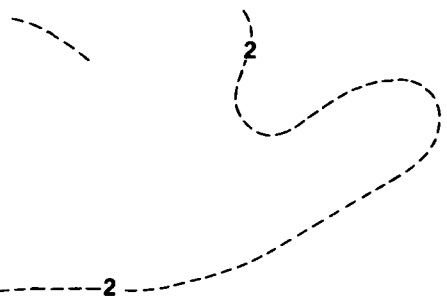
WIND

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



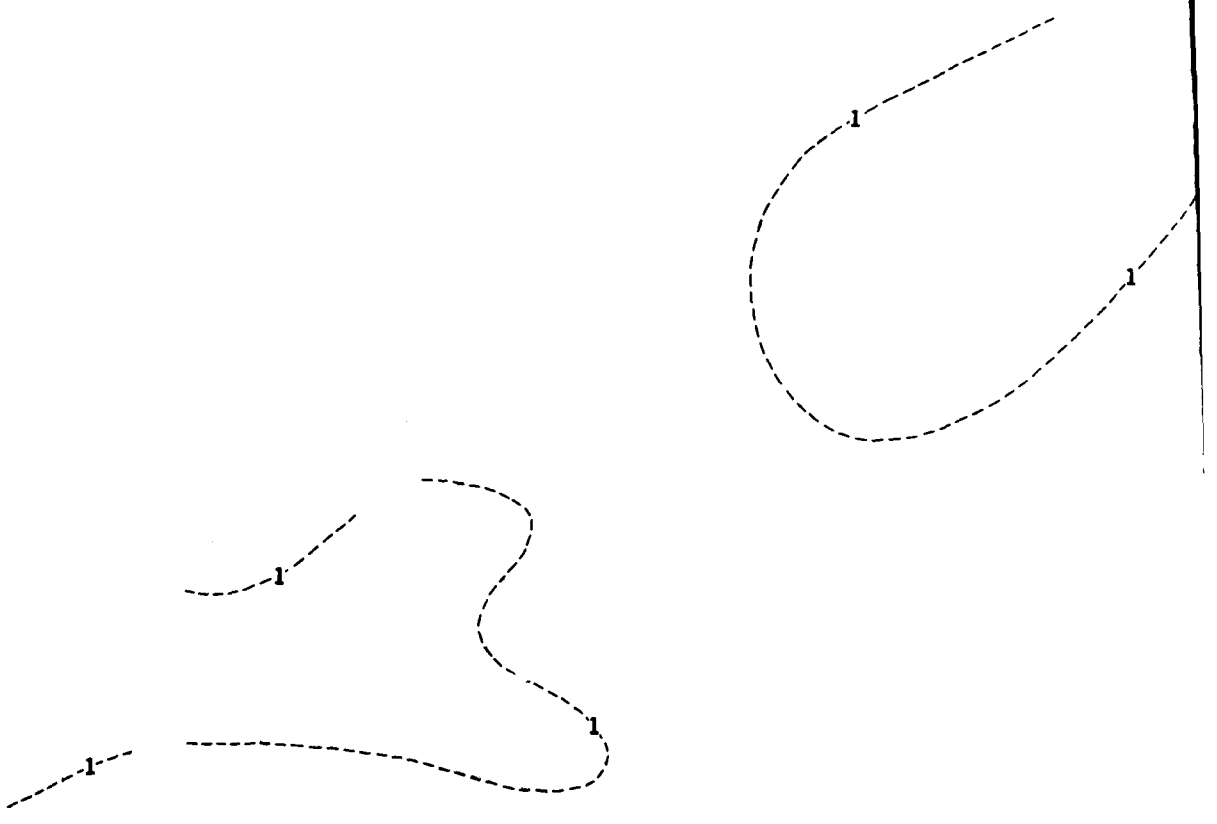
WIND SPEED (≤10 AND ≥34 KNOTS)



WIND SPEED (≤10 AND ≥34 KNOTS)

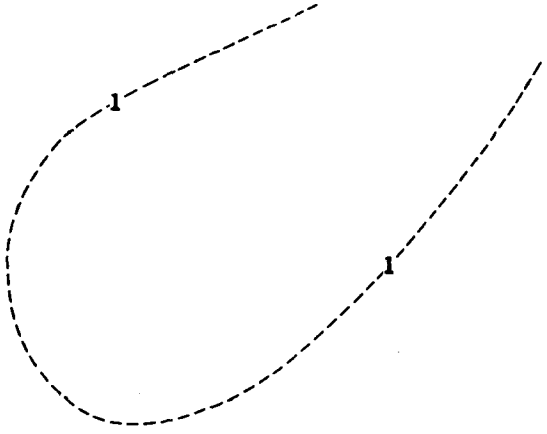
Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

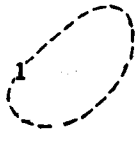
Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



TS)

JULY





160 170 E 180 W 170 160 150 140 130 120 110

N

0

7

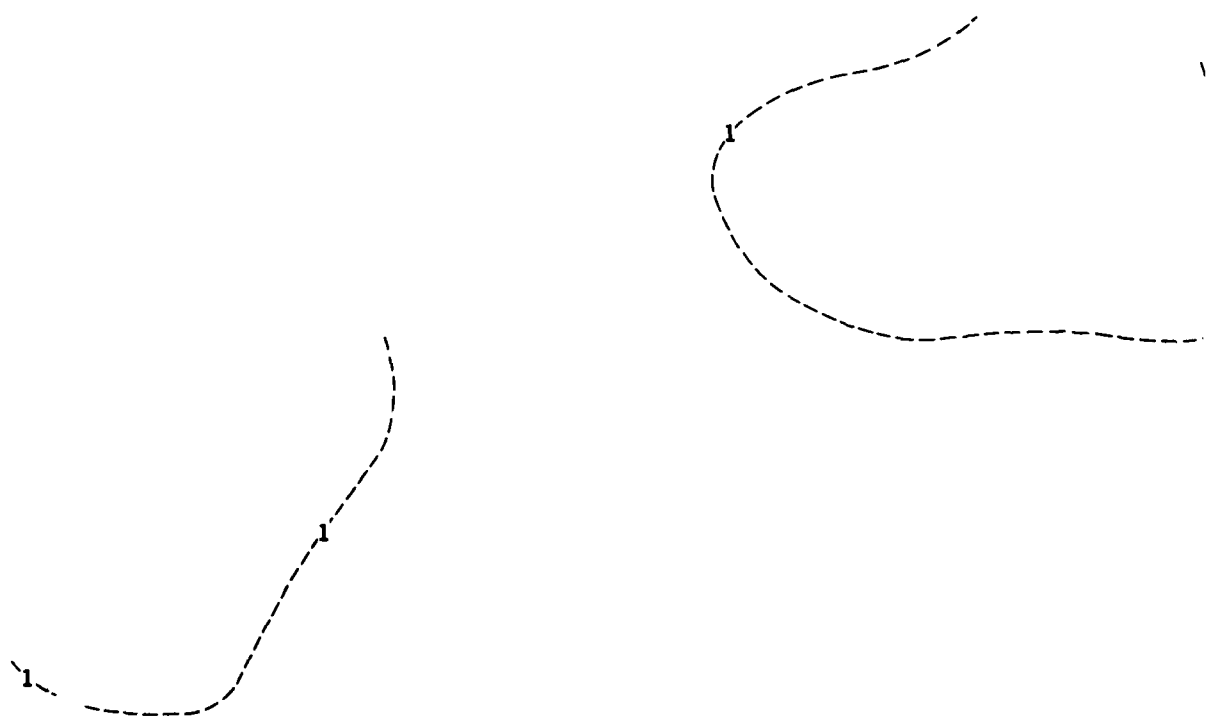
2

AUGUST

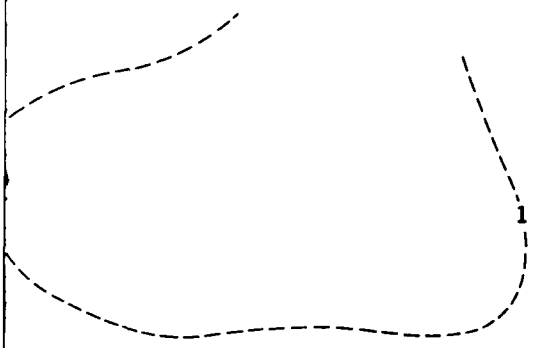
WIND

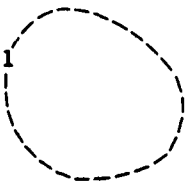
Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



WIND SPEED (≤10 AND ≥34 KNOTS)

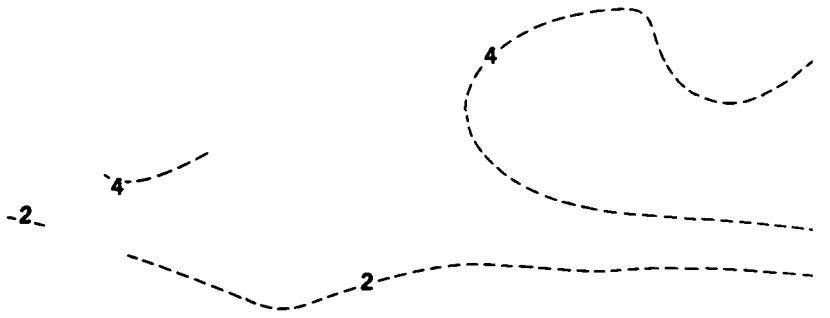




WIND SPEED (≤10 AND ≥34 KNOTS)

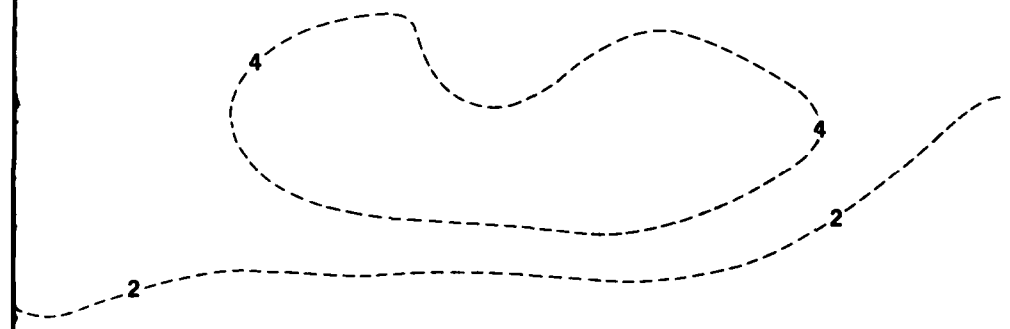
Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



S)

SEPTEMBER

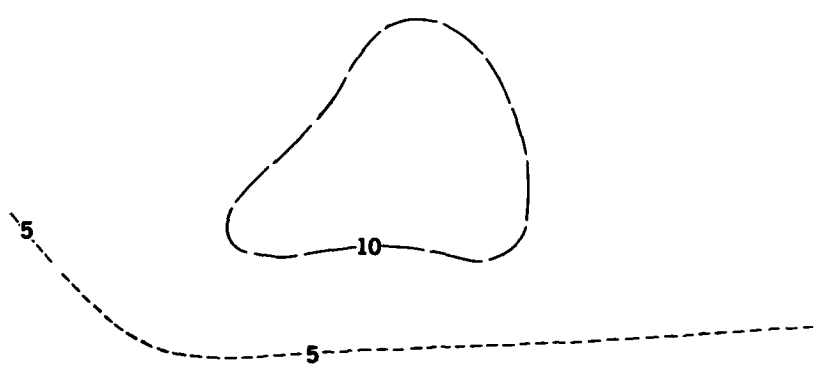


OCTOBER

WIND

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



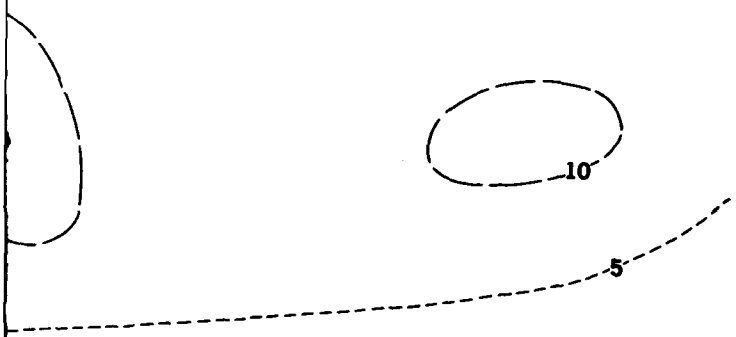
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100 110 120 130 140 150 160 170 E

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3

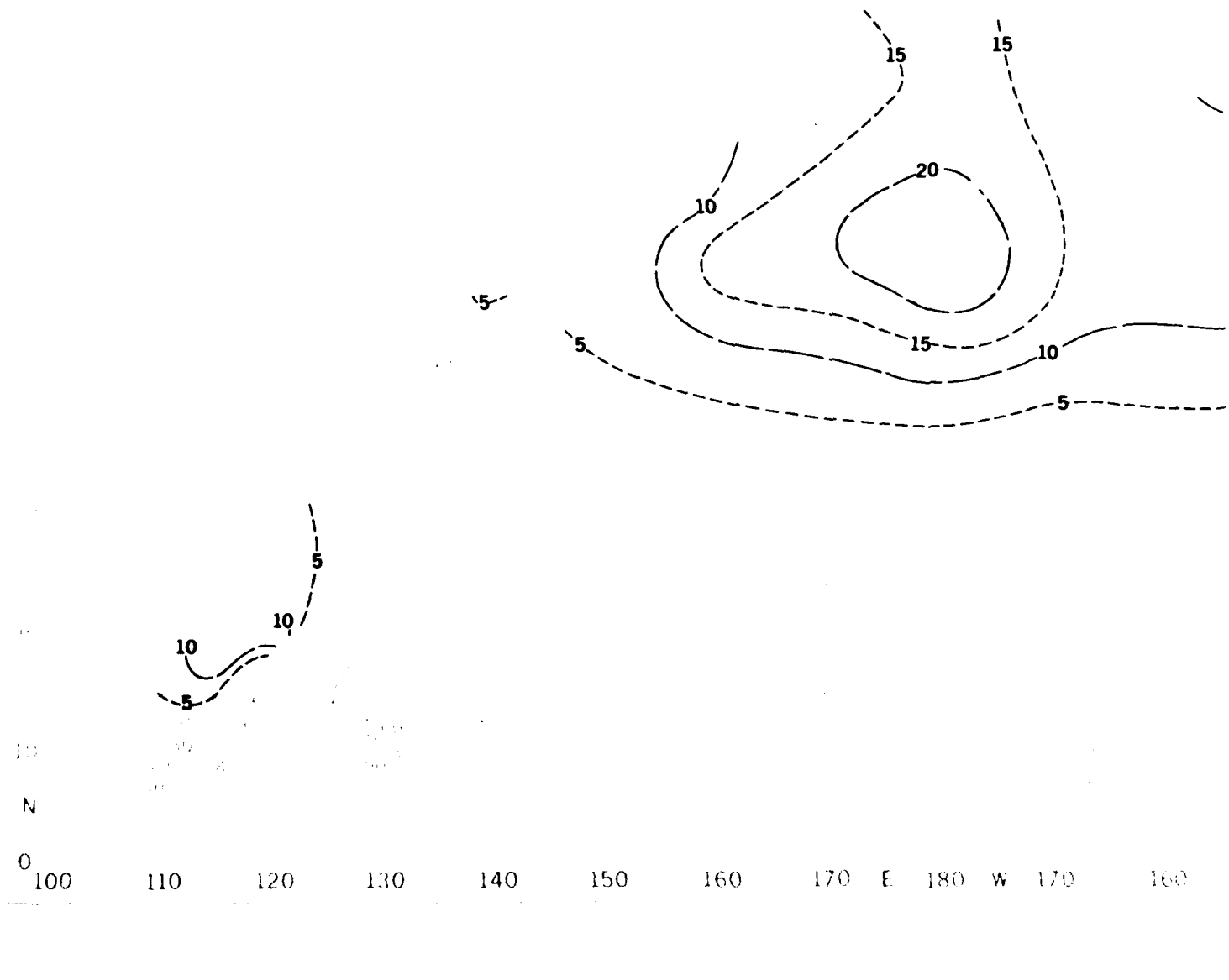
WIND SPEED (≤10 AND ≥34 KNOTS)



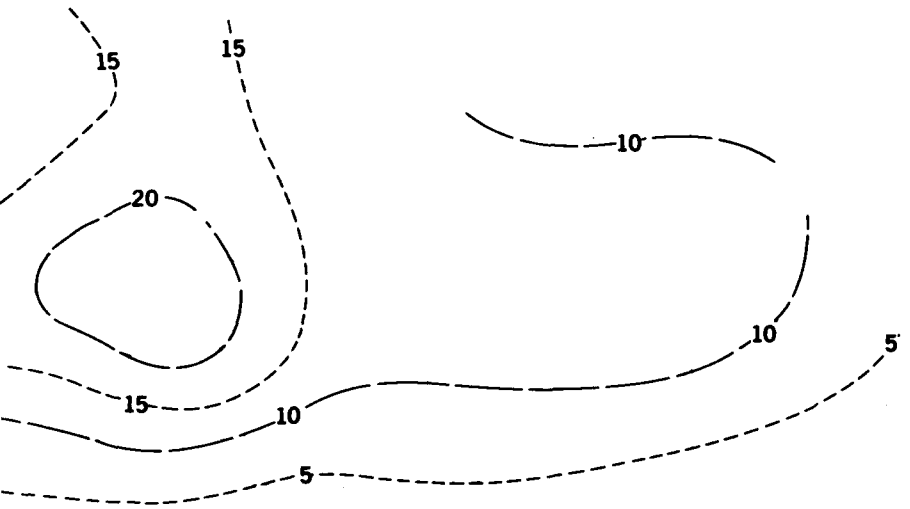
WIND SPEED (≤10 AND ≥34 KNOTS)

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



NOVEMBER

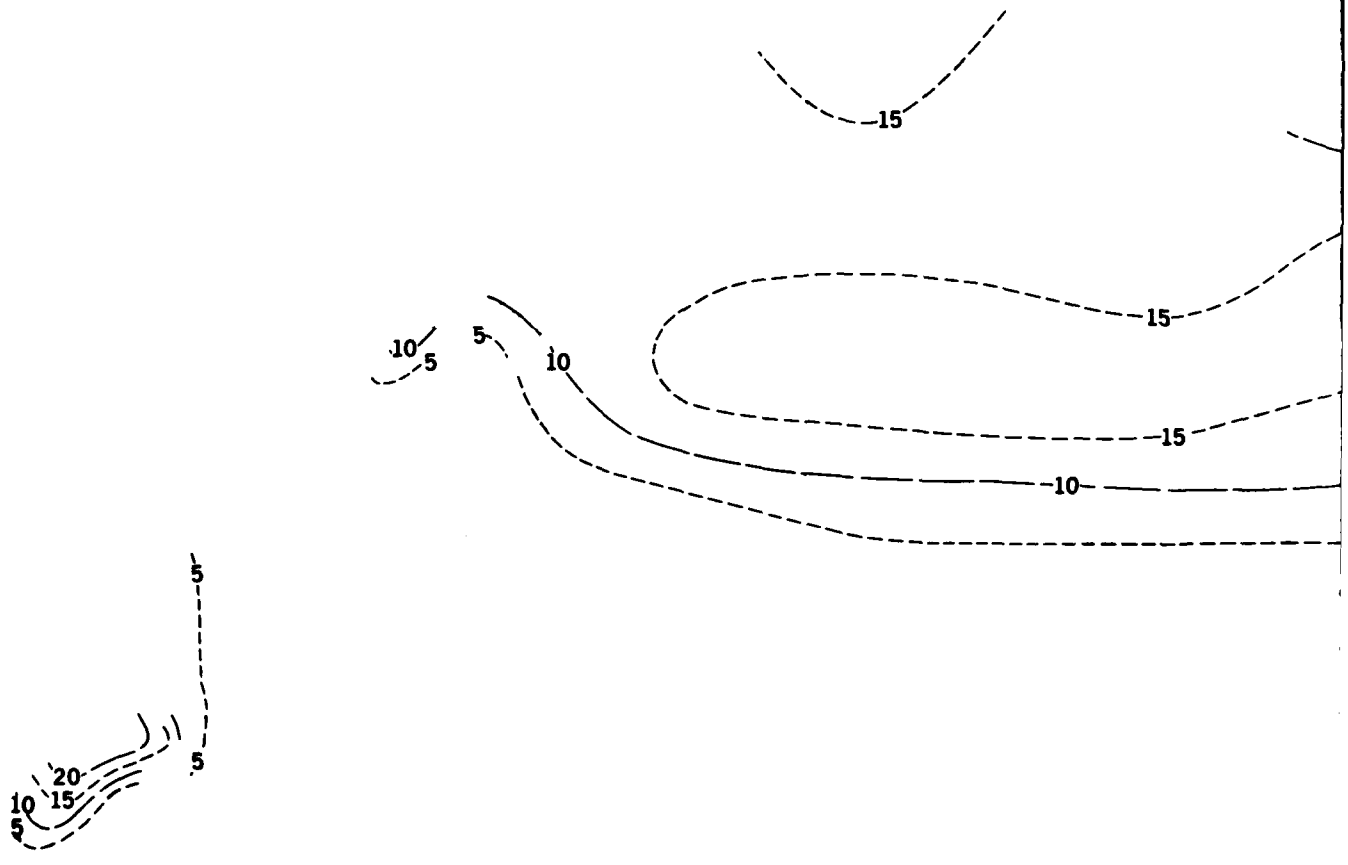


DECEMBER

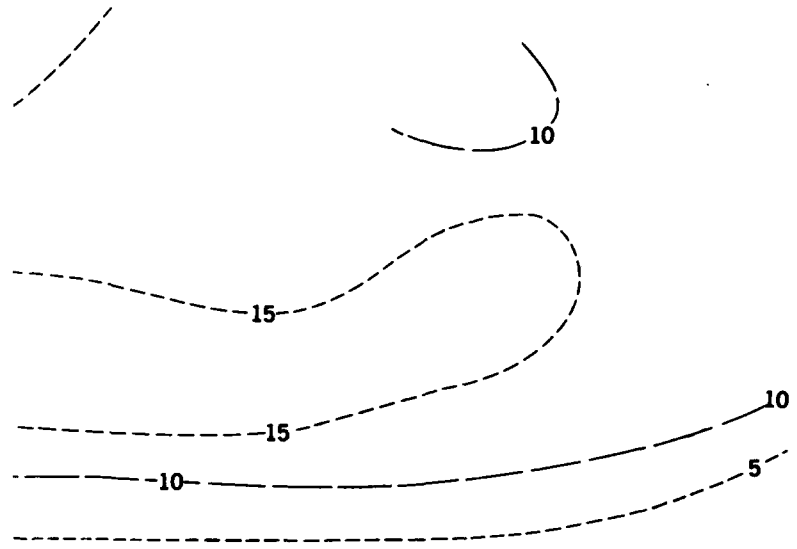
WIND S

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



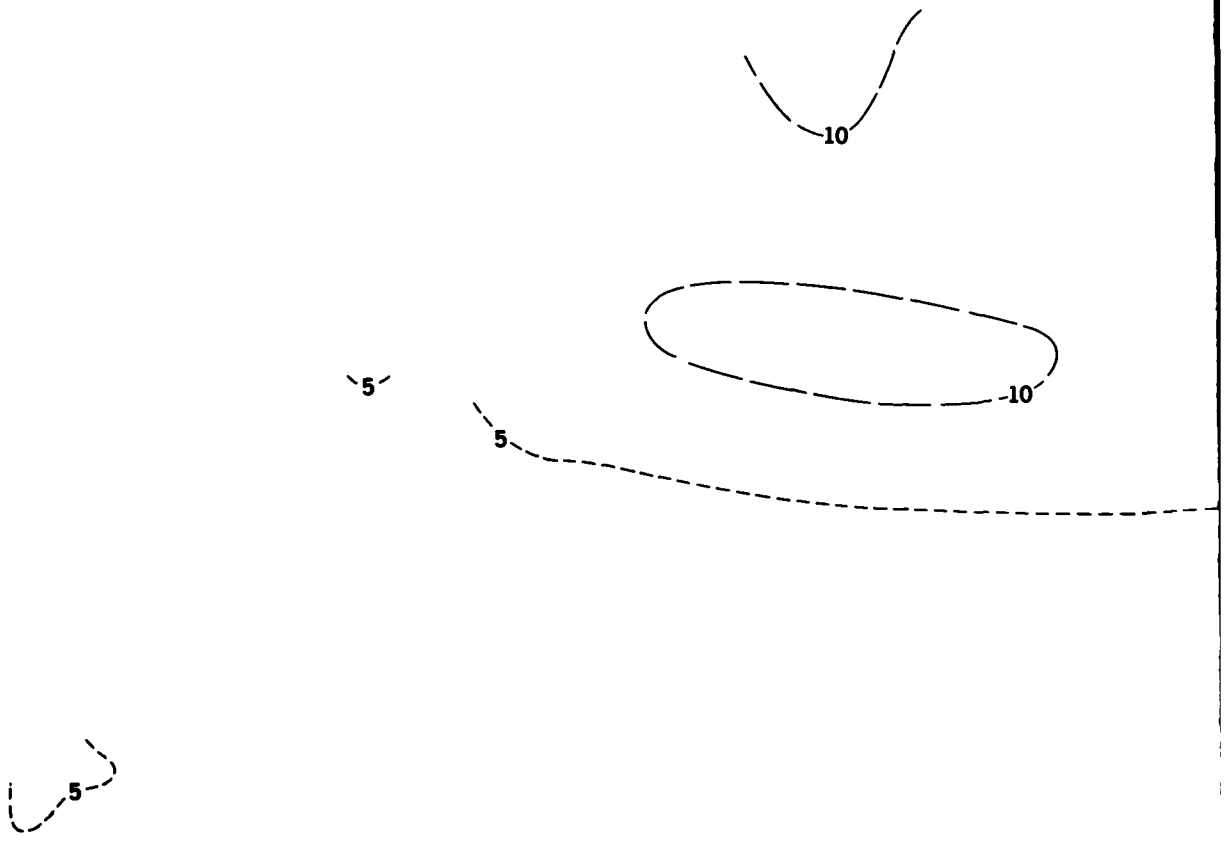
WIND SPEED (≤10 AND ≥34 KNOTS)



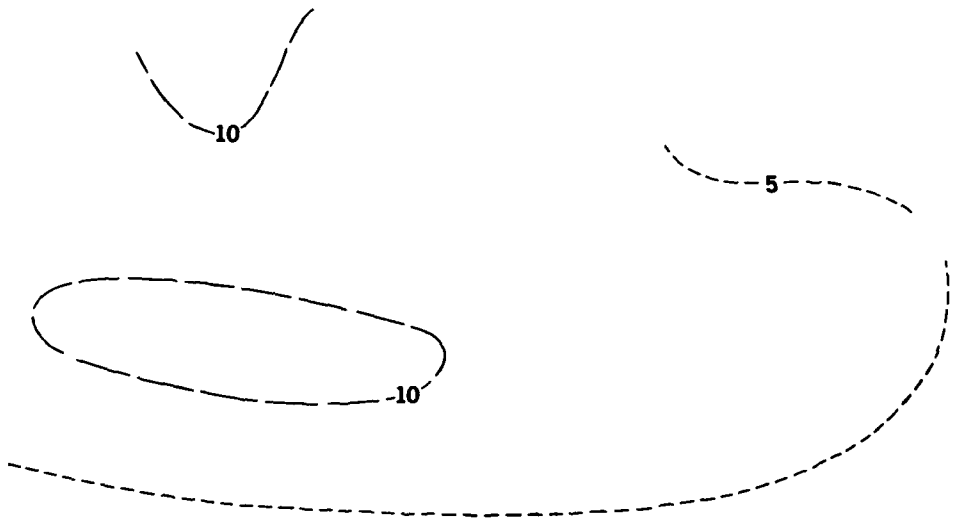
WIND SPEED (≤10 AND ≥34 KNOTS)

Solid Lines (dotted intermediates) - Percent frequency of wind speeds ≤10 knots

Dashed Lines (short intermediates) - Percent frequency of wind speeds ≥34 knots



ANNUAL

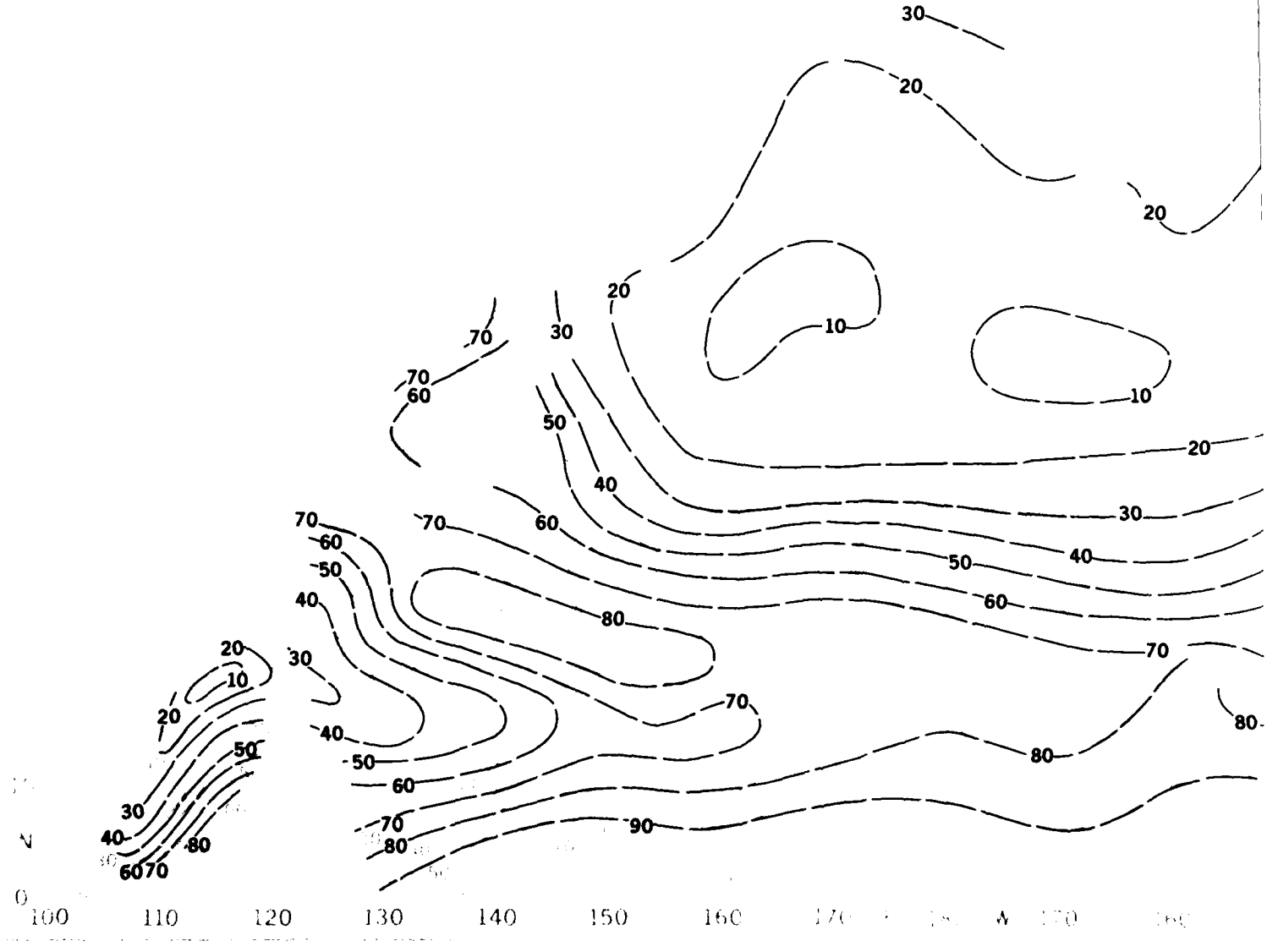


JANUARY

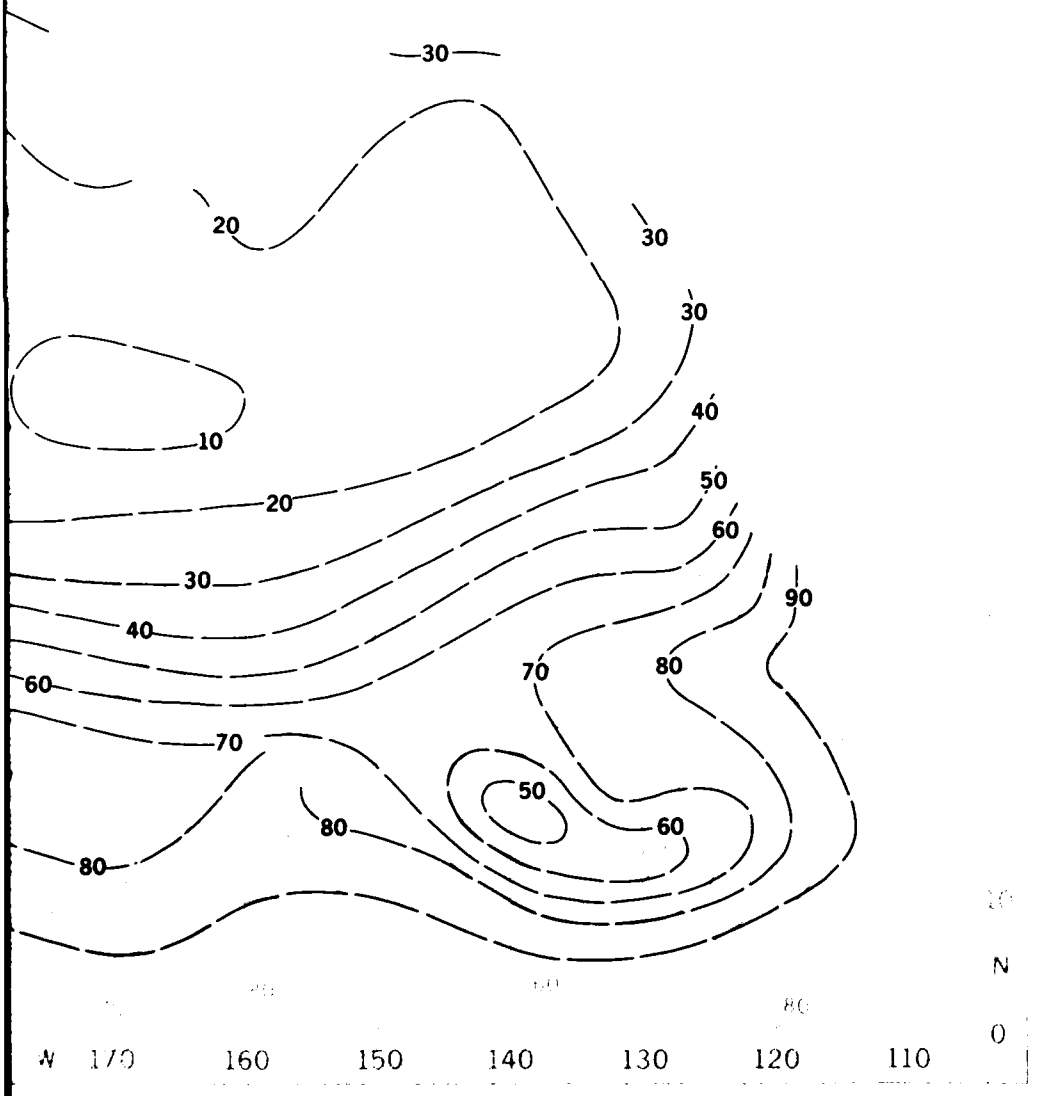
WA

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



WAVE HEIGHT (<5 AND <8 FEET)



N 170 160 150 140 130 120 110

N

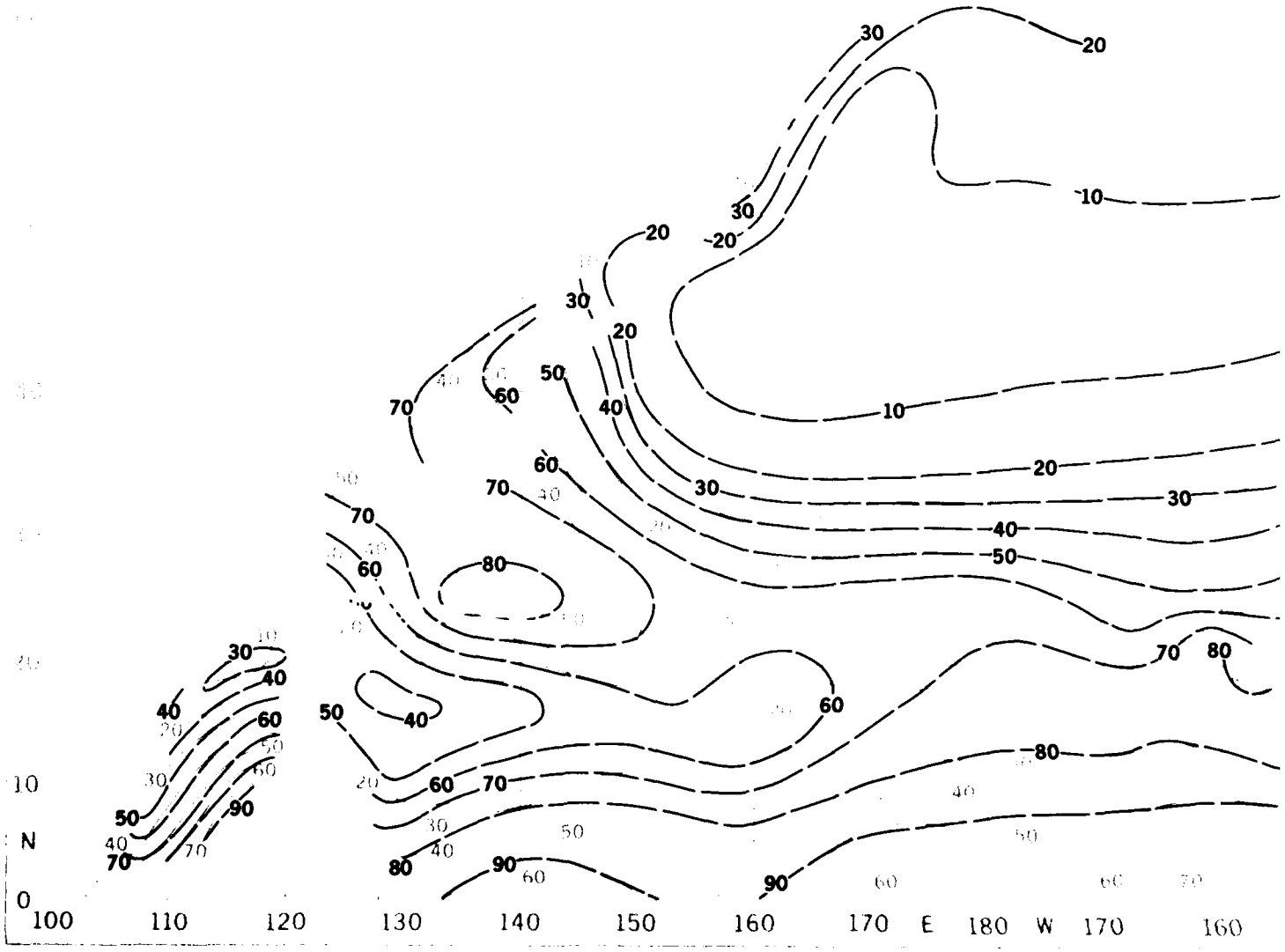
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4

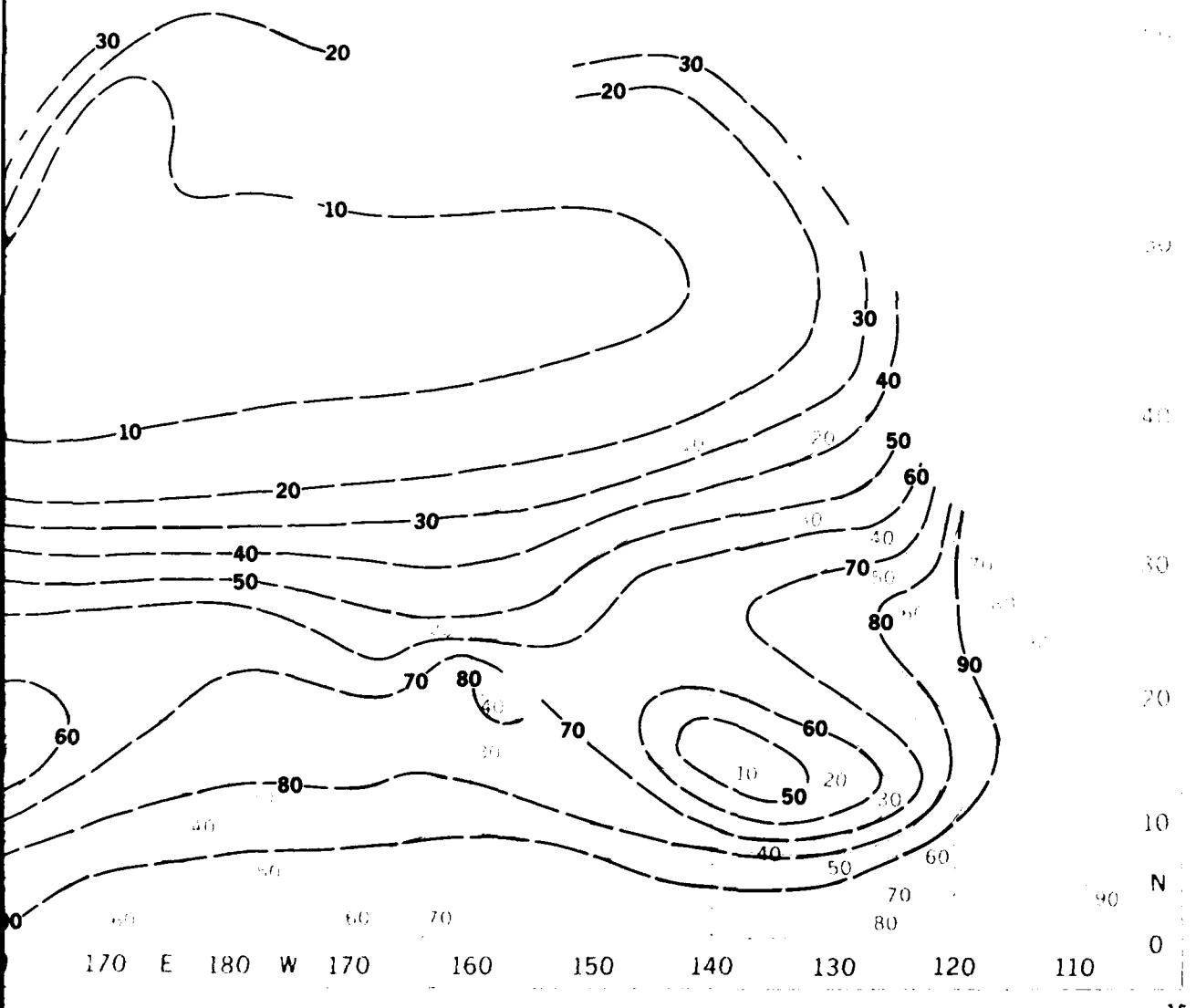
WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



FEBRUARY

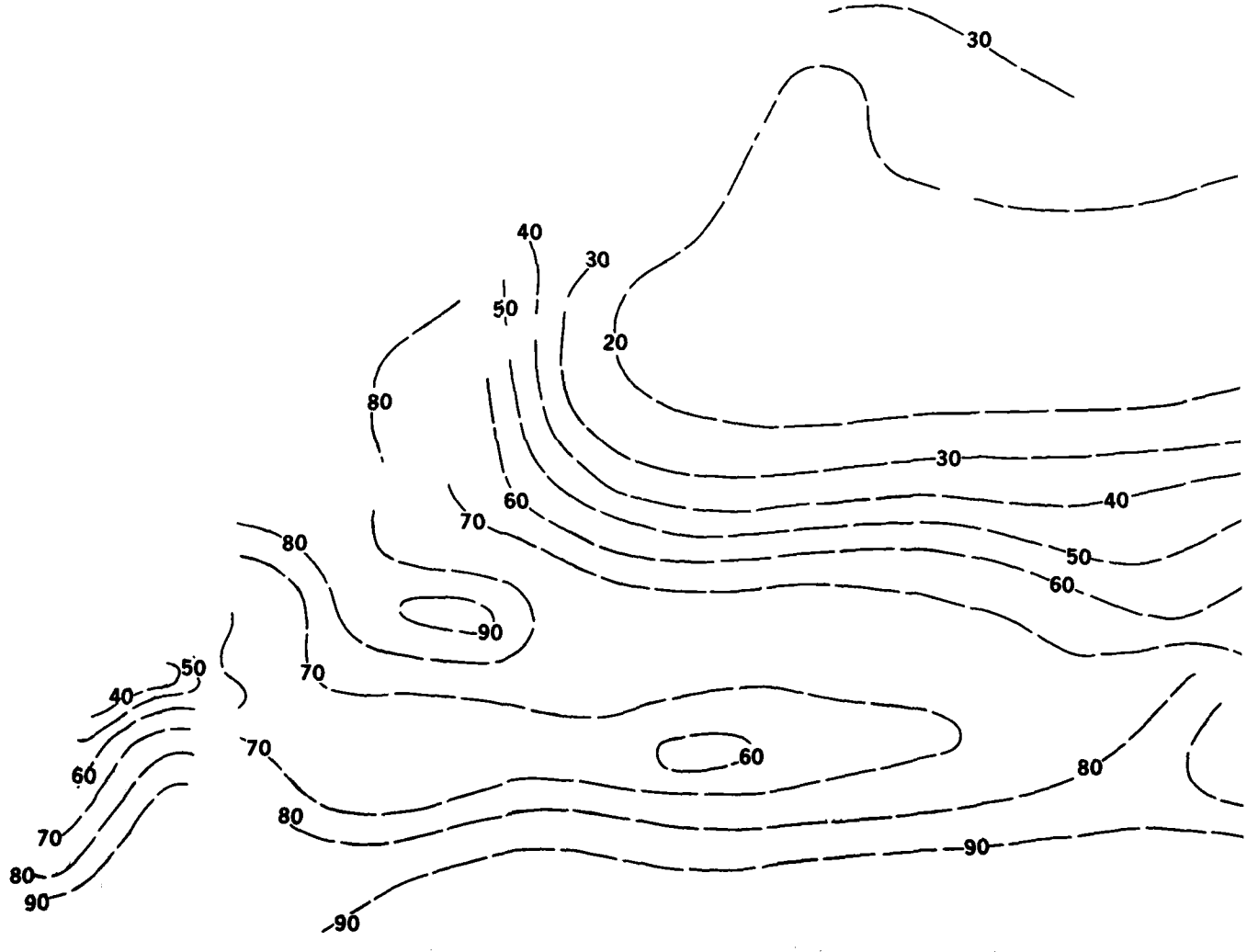

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170 E 180 W 170 160 150 140 130 120 110

MARCH

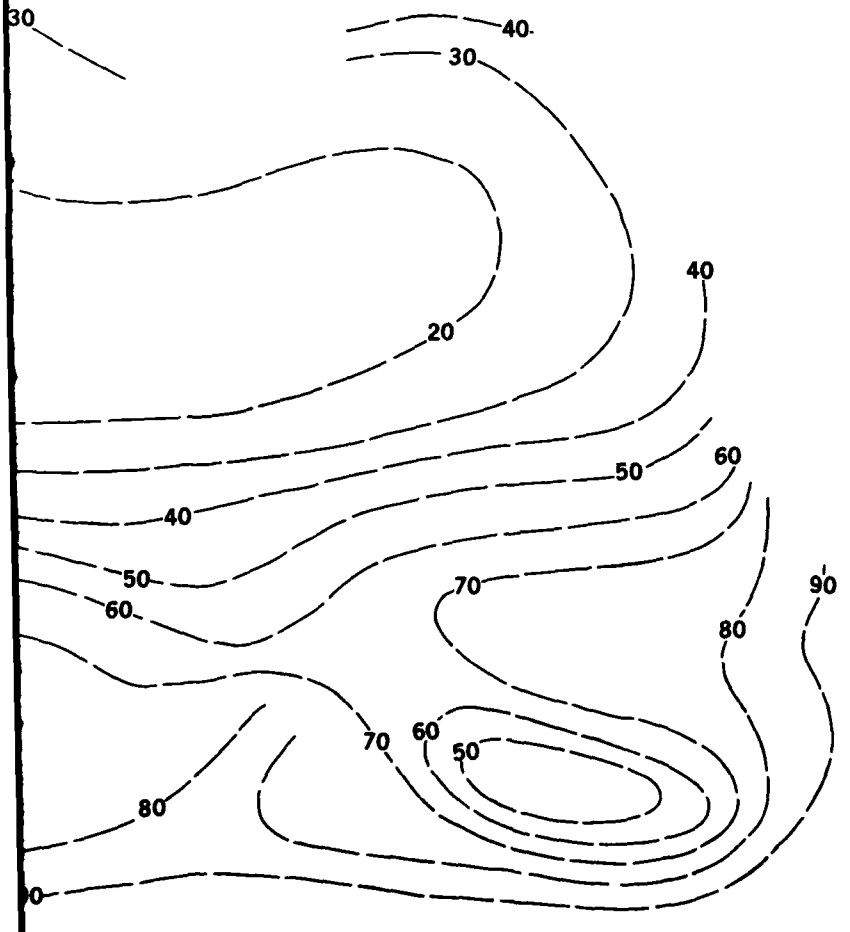
W.

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



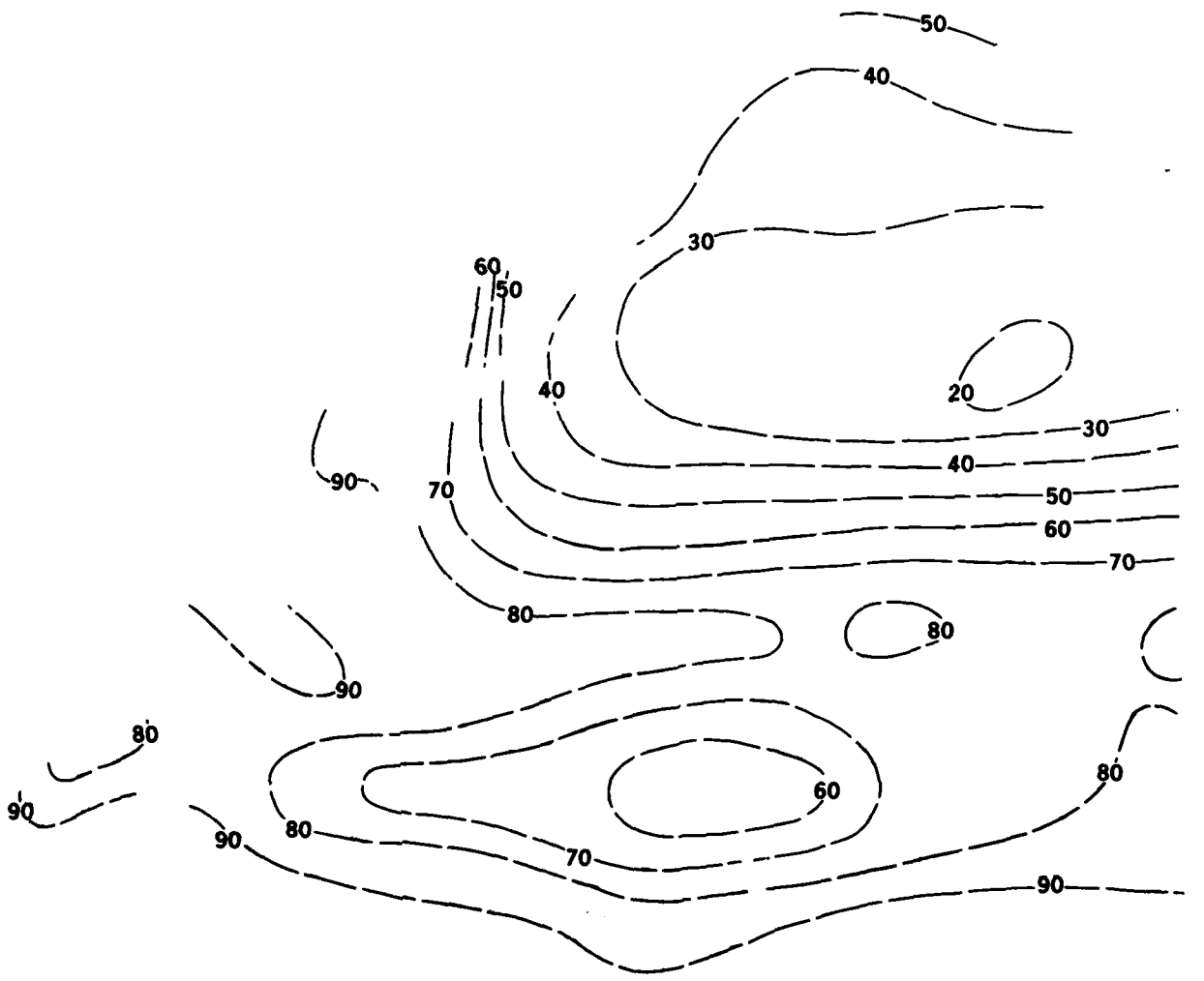
WAVE HEIGHT (<5 AND <8 FEET)



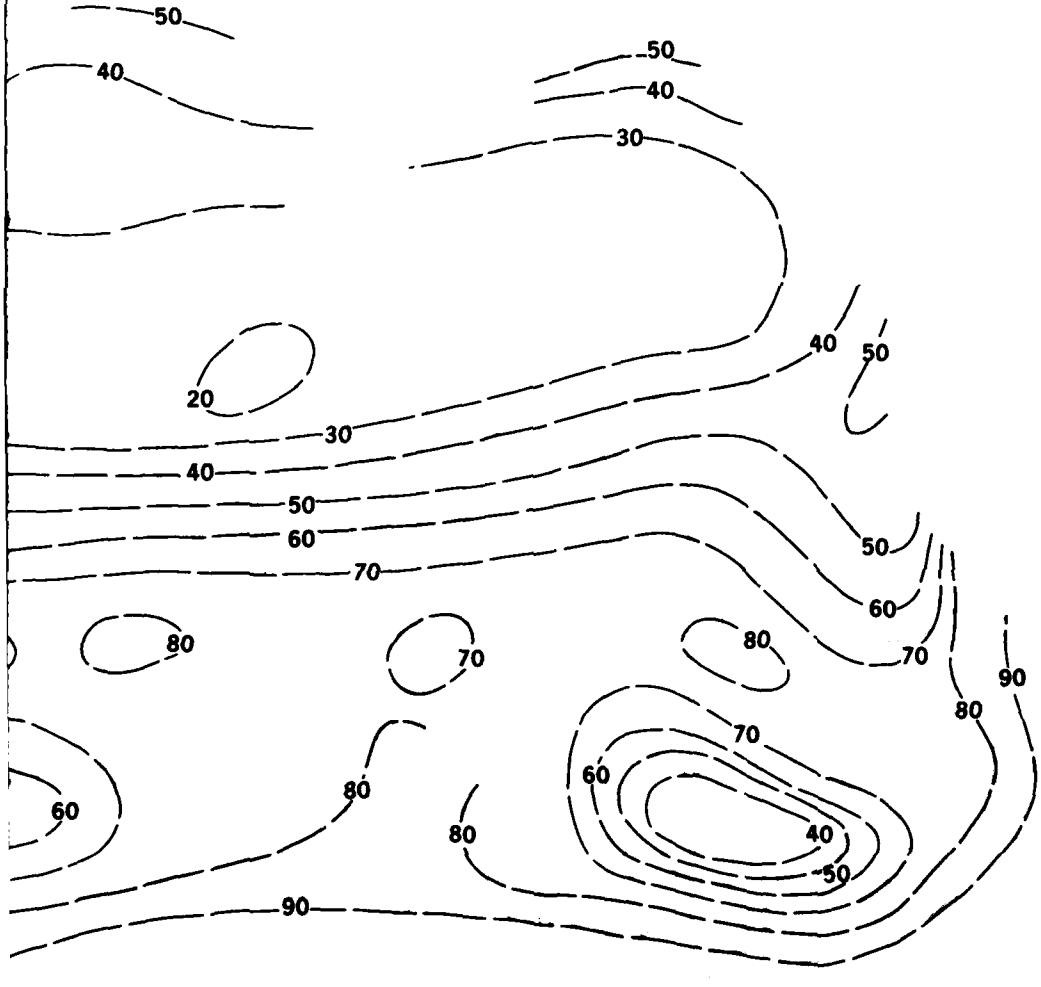
WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



APRIL

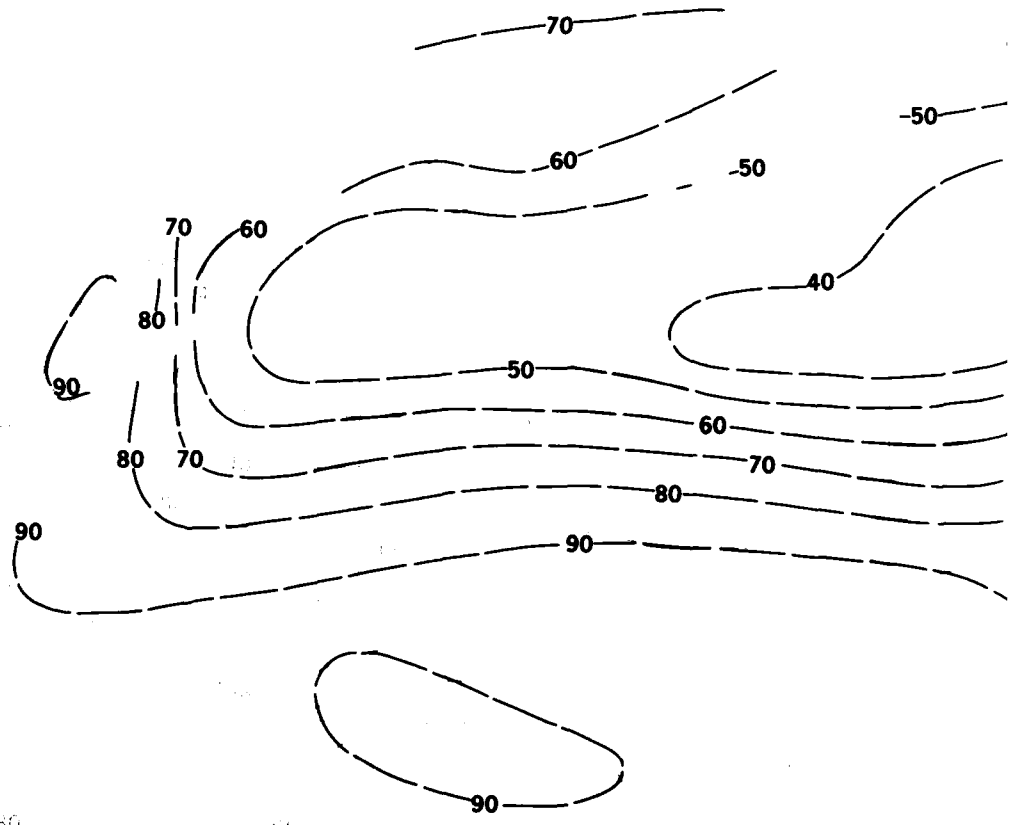

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MAY

WAV

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



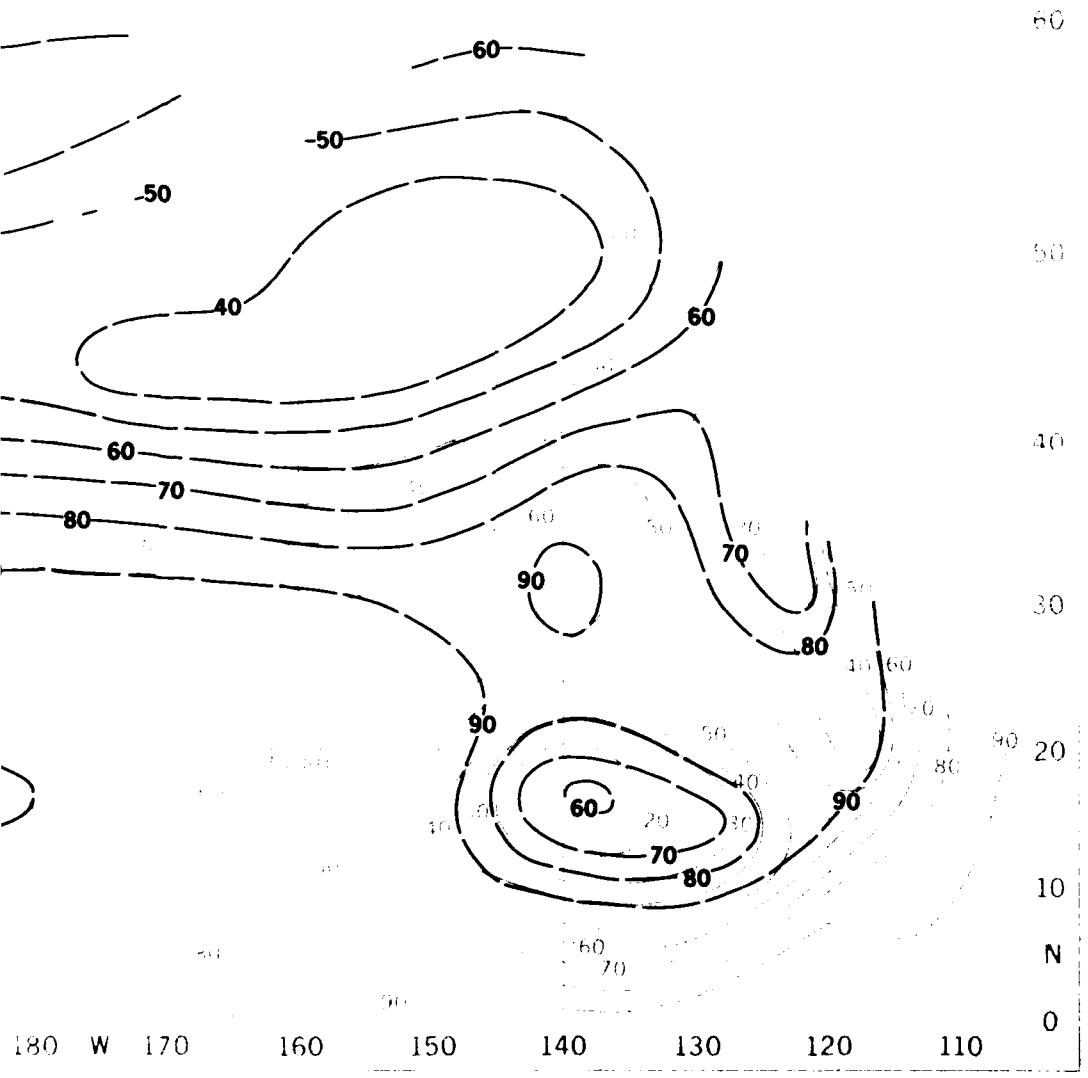
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N

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100 110 120 130 140 150 160 170 E 180 W 170 160

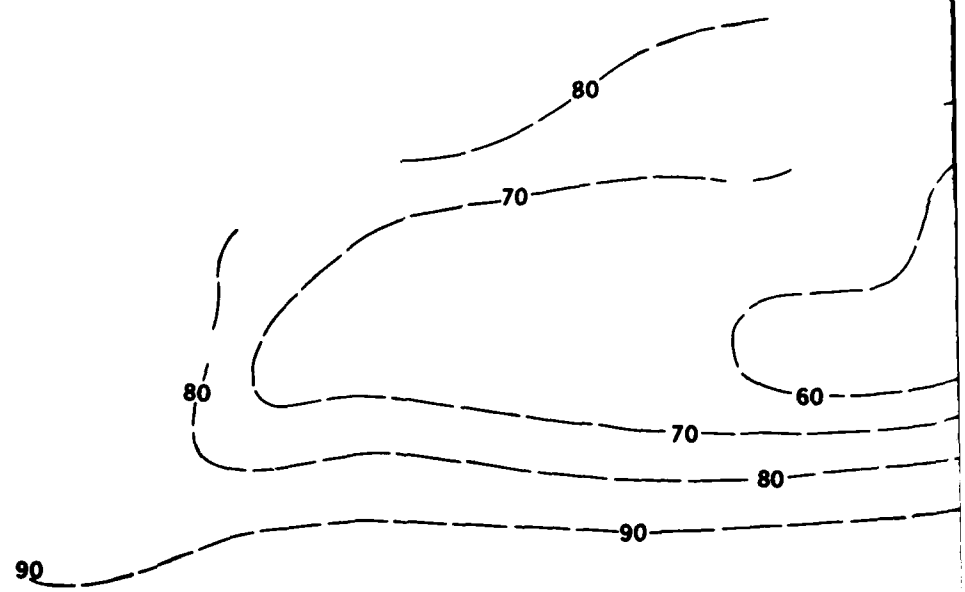
WAVE HEIGHT (<5 AND <8 FEET)



WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



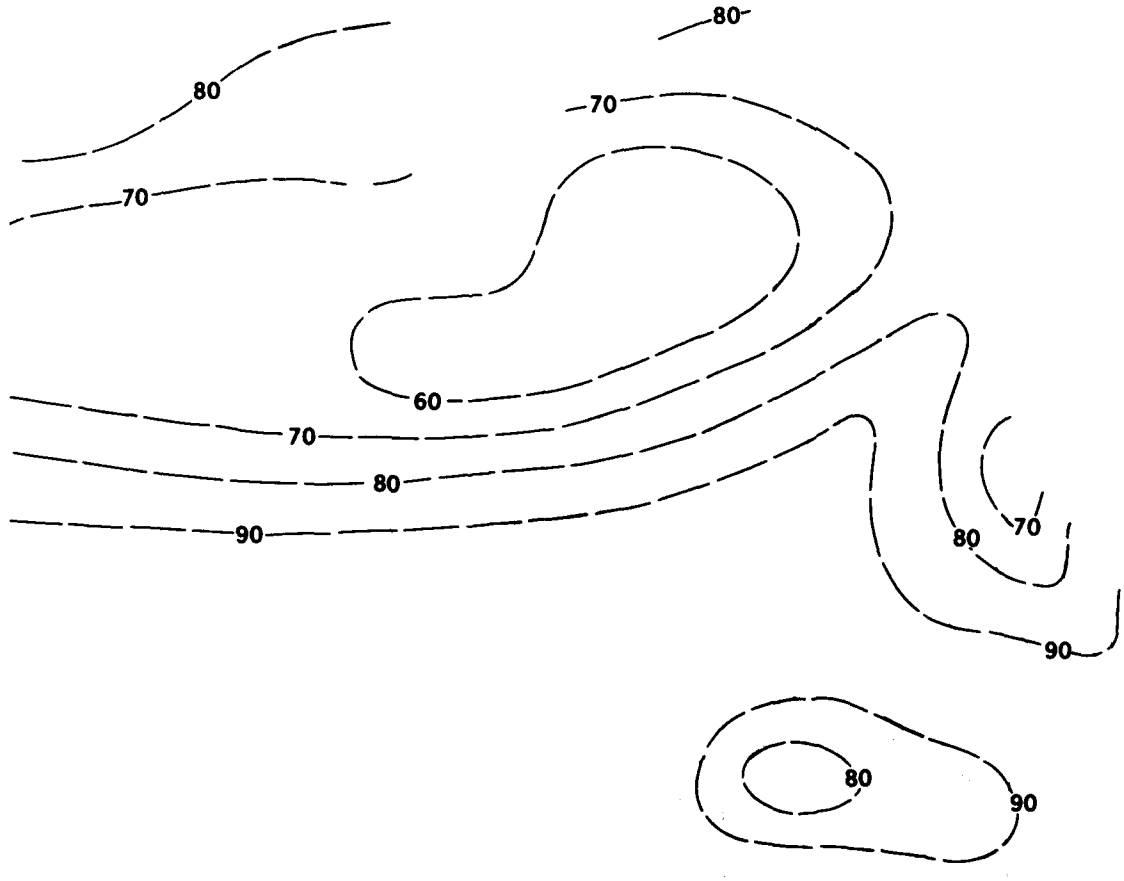
10

N

0

100 110 120 130 140 150 160 170 E 180 W 170

JUNE



160 150 140 130 120 110

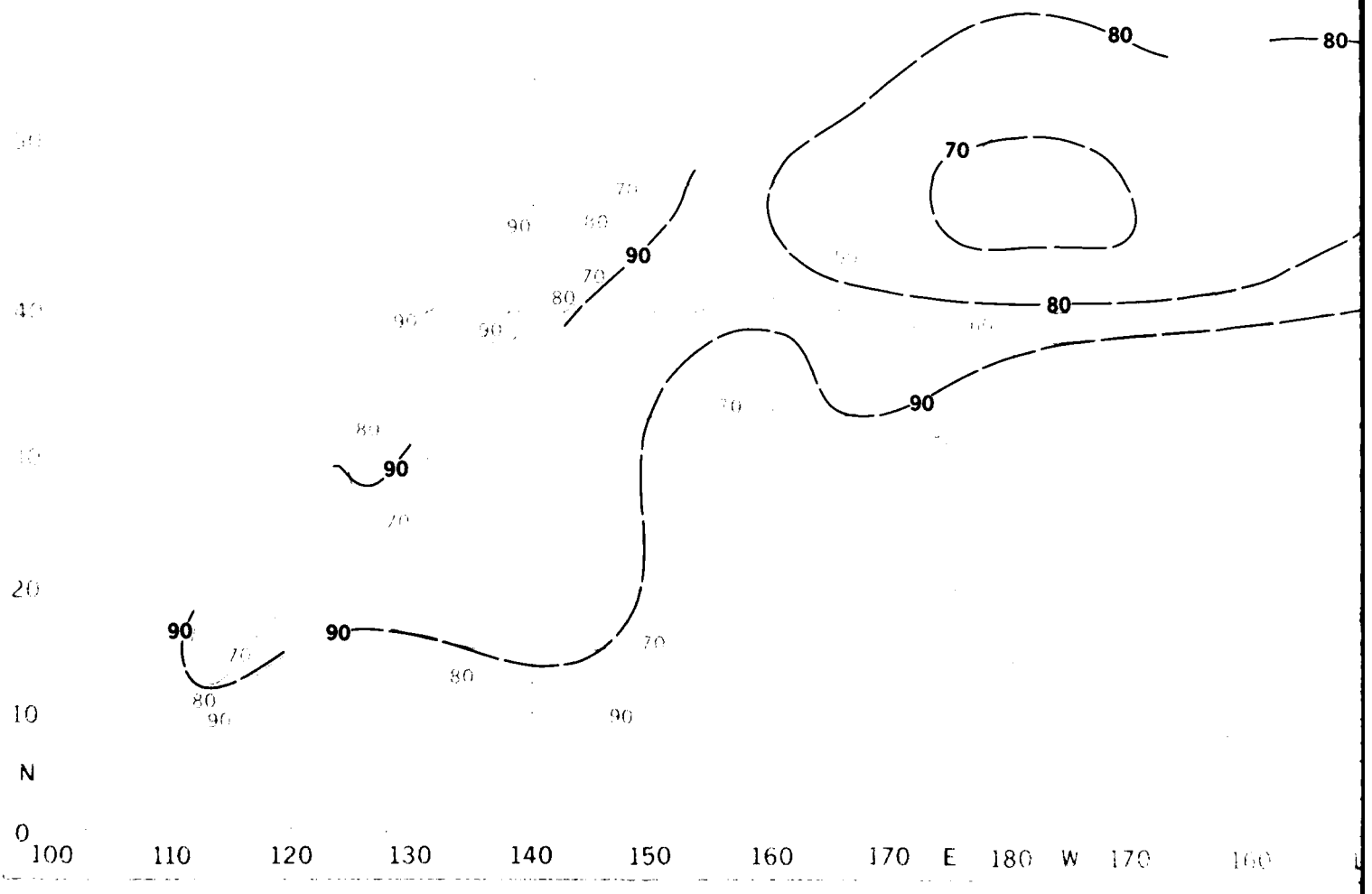
19

JULY

WAV

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

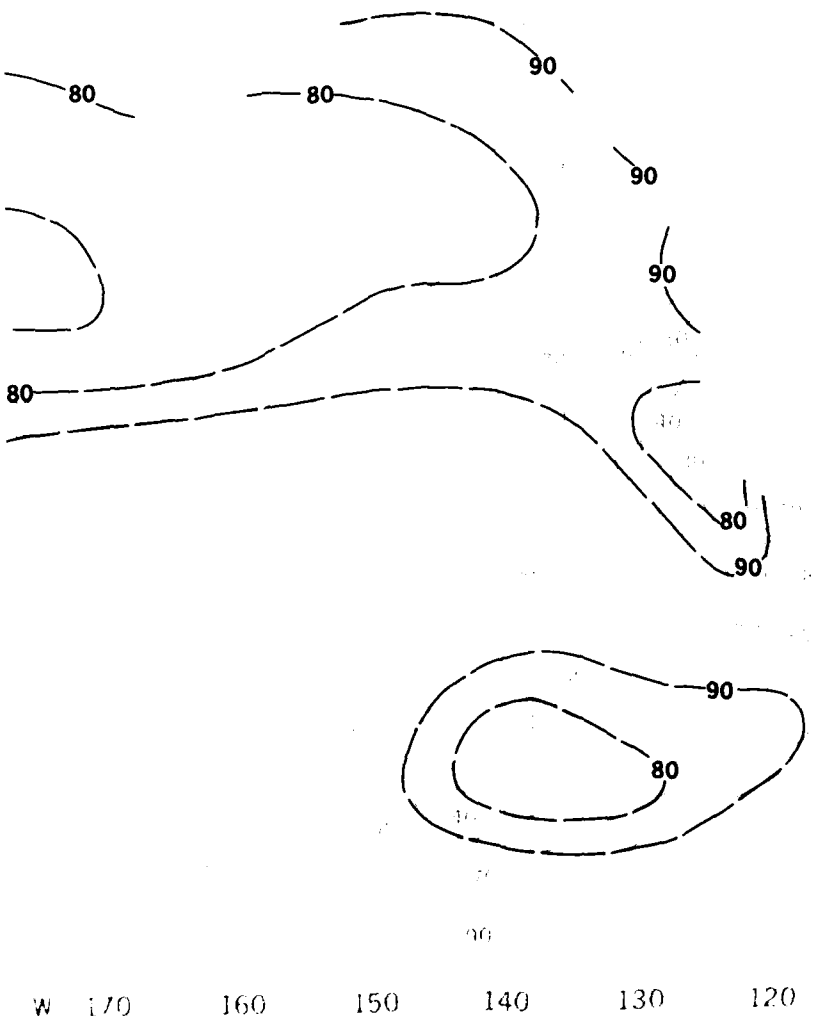
Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



3

20

WAVE HEIGHT (<5 AND <8 FEET)



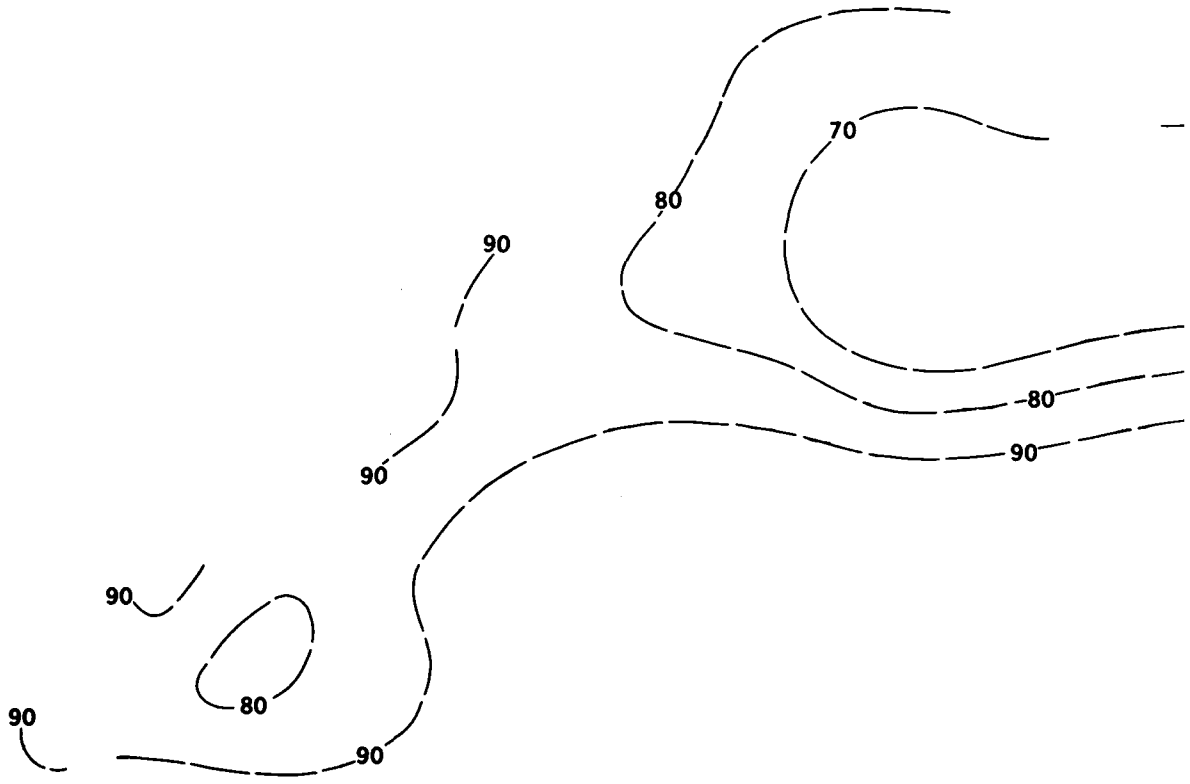
W 170 160 150 140 130 120 110

N

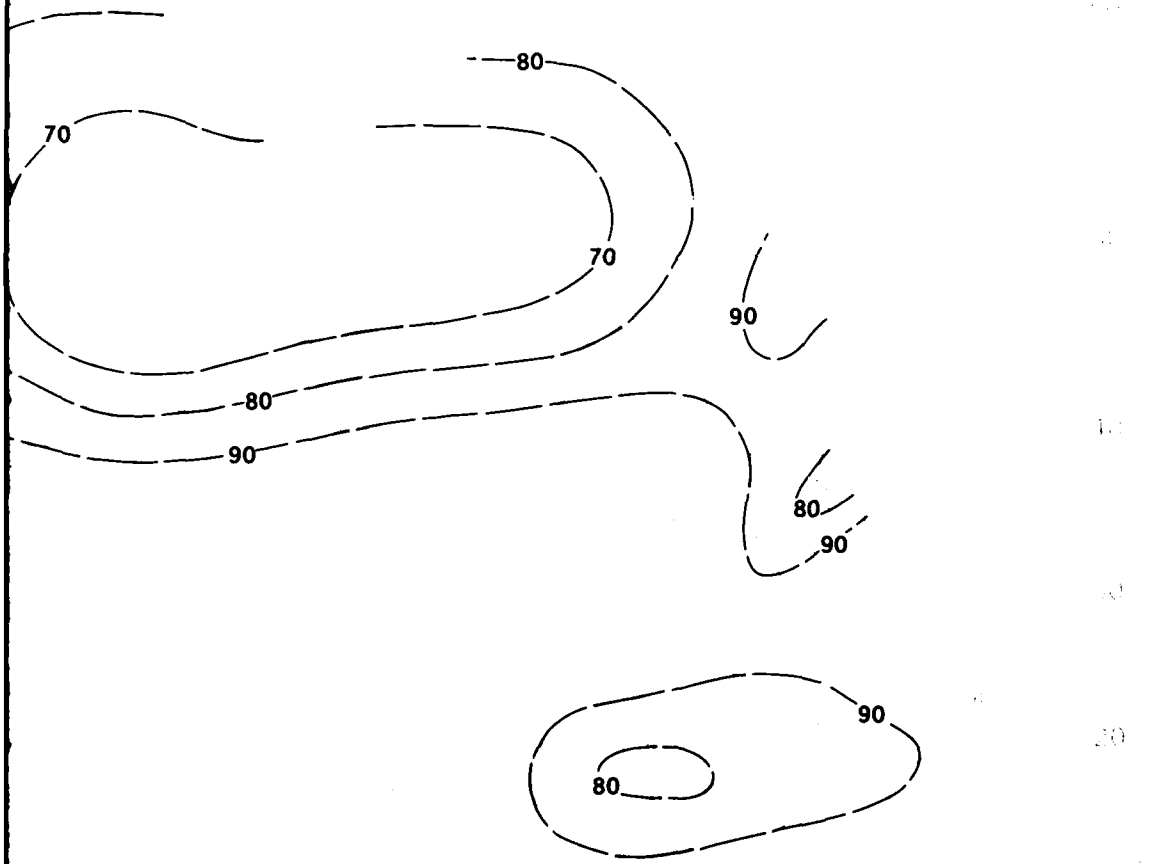
WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



AUGUST

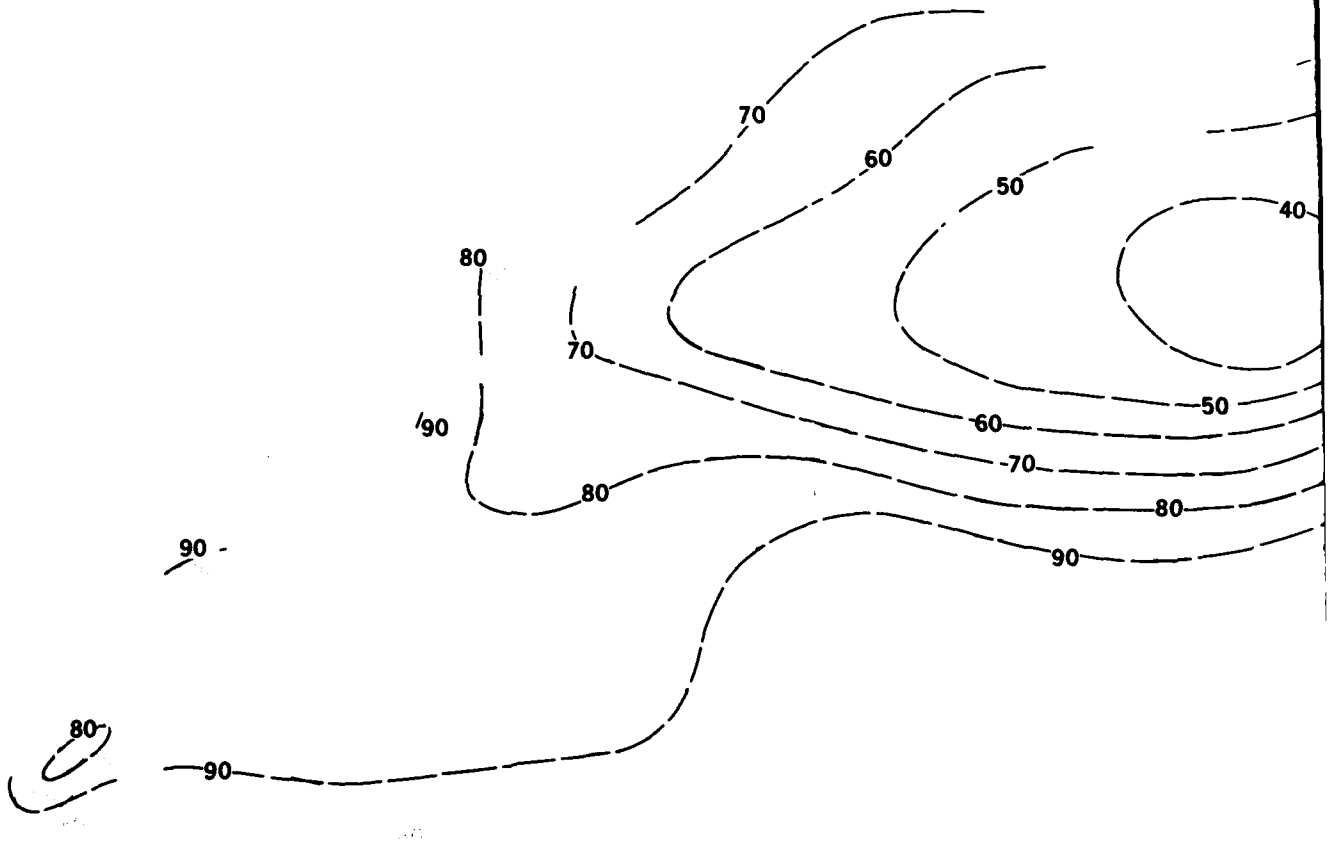


SEPTEMBER

WAV

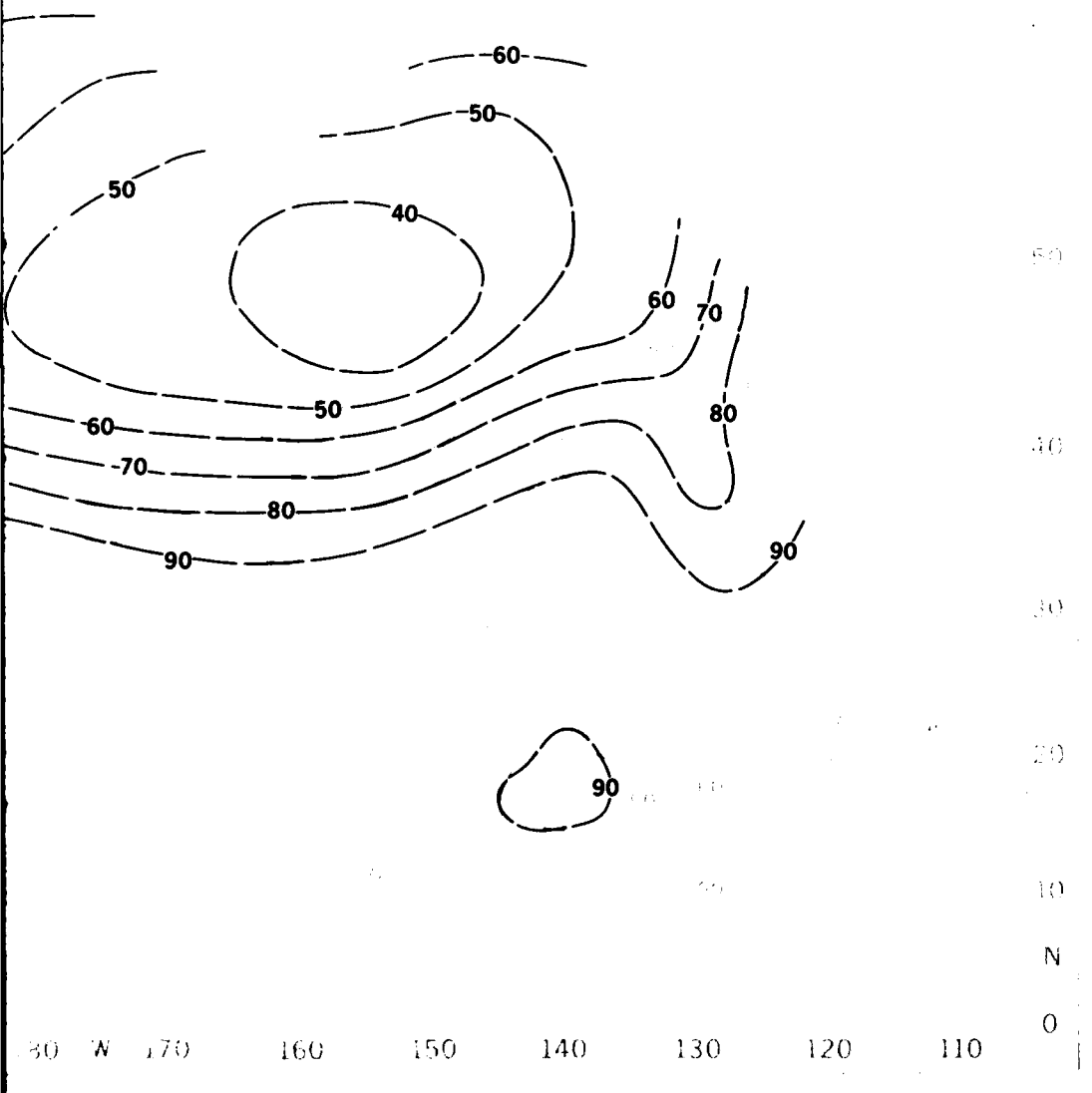
Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



0 100 110 120 130 140 150 160 170 E 180 W 170 160

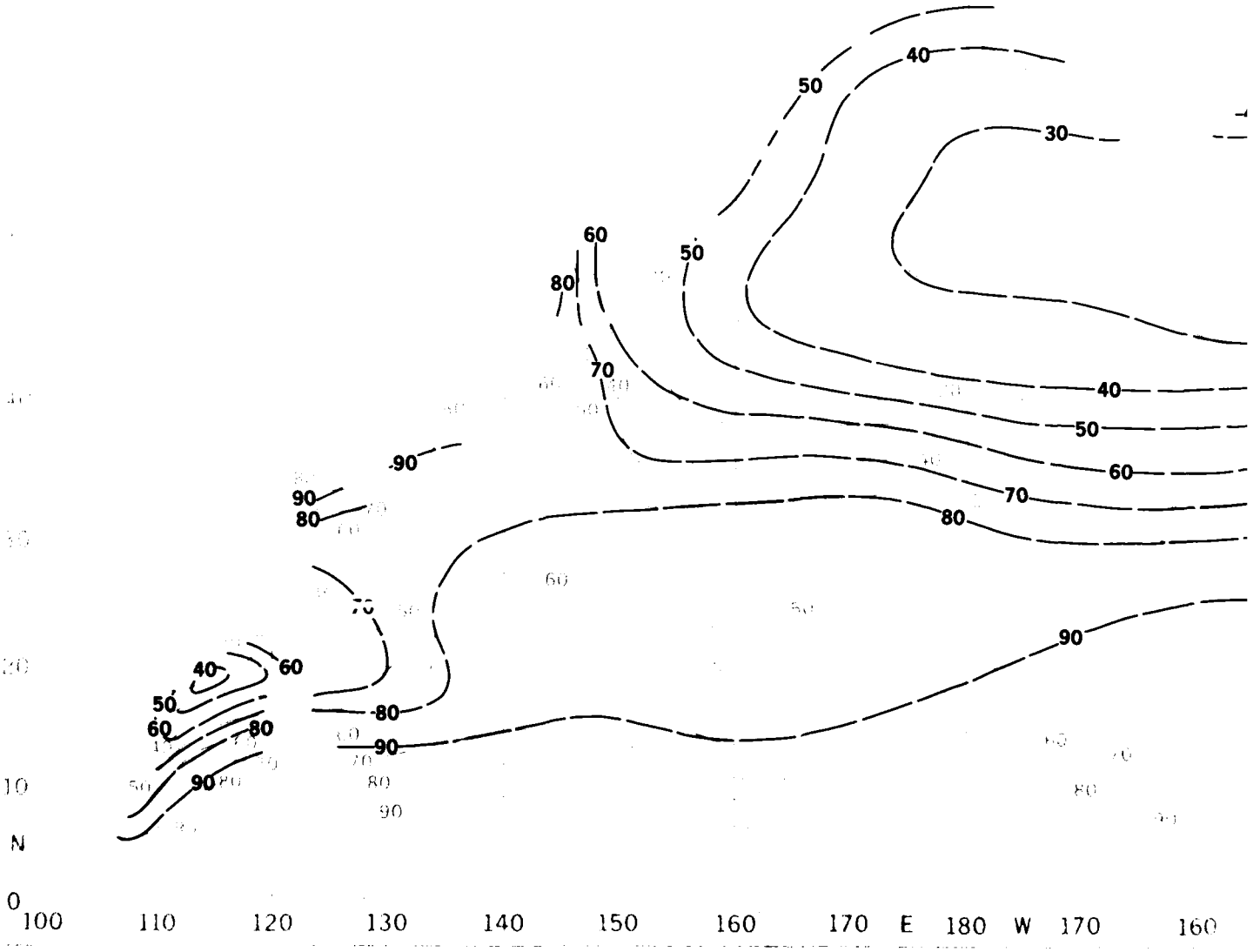
WAVE HEIGHT (<5 AND <8 FEET)



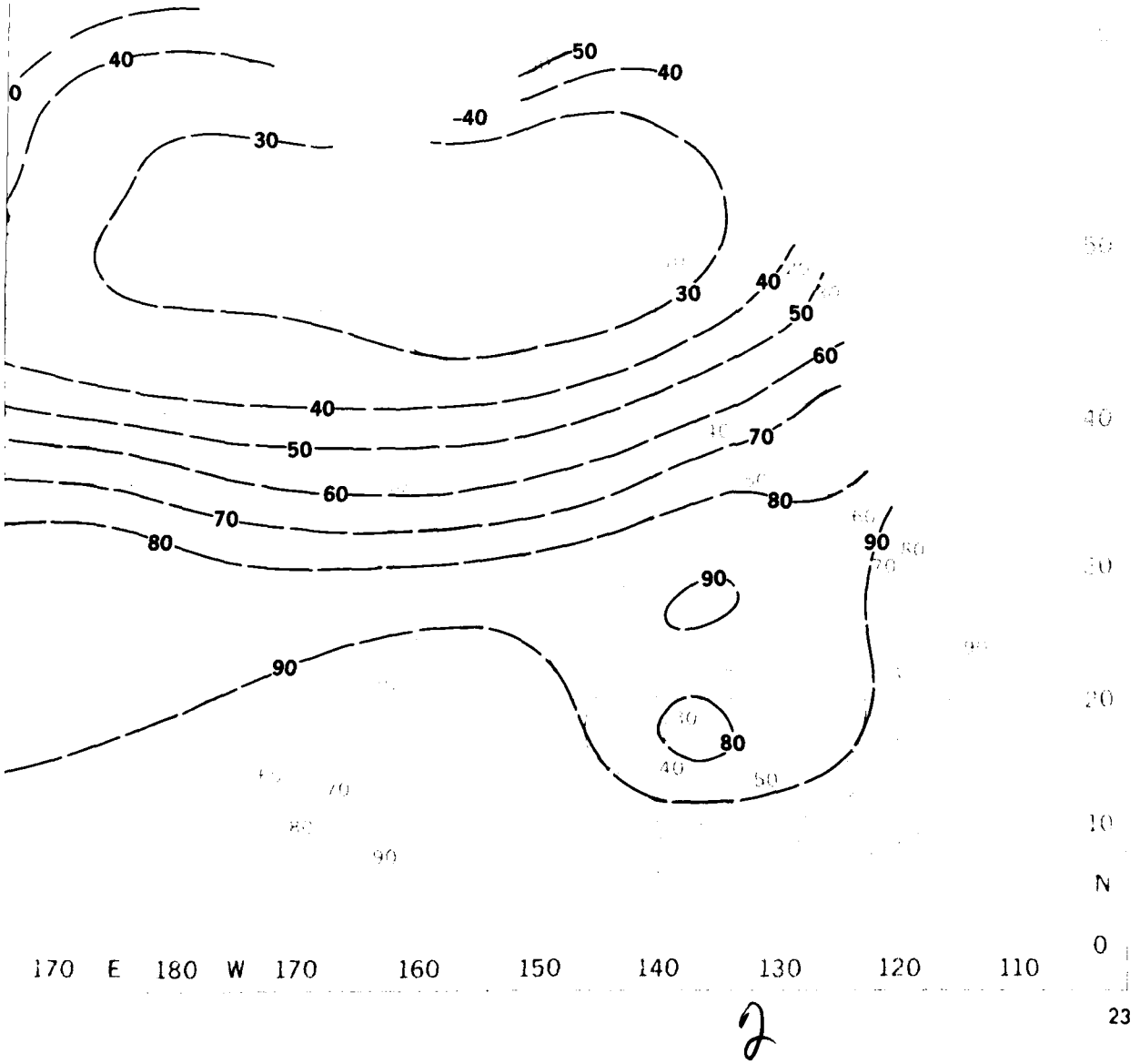
WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



OCTOBER

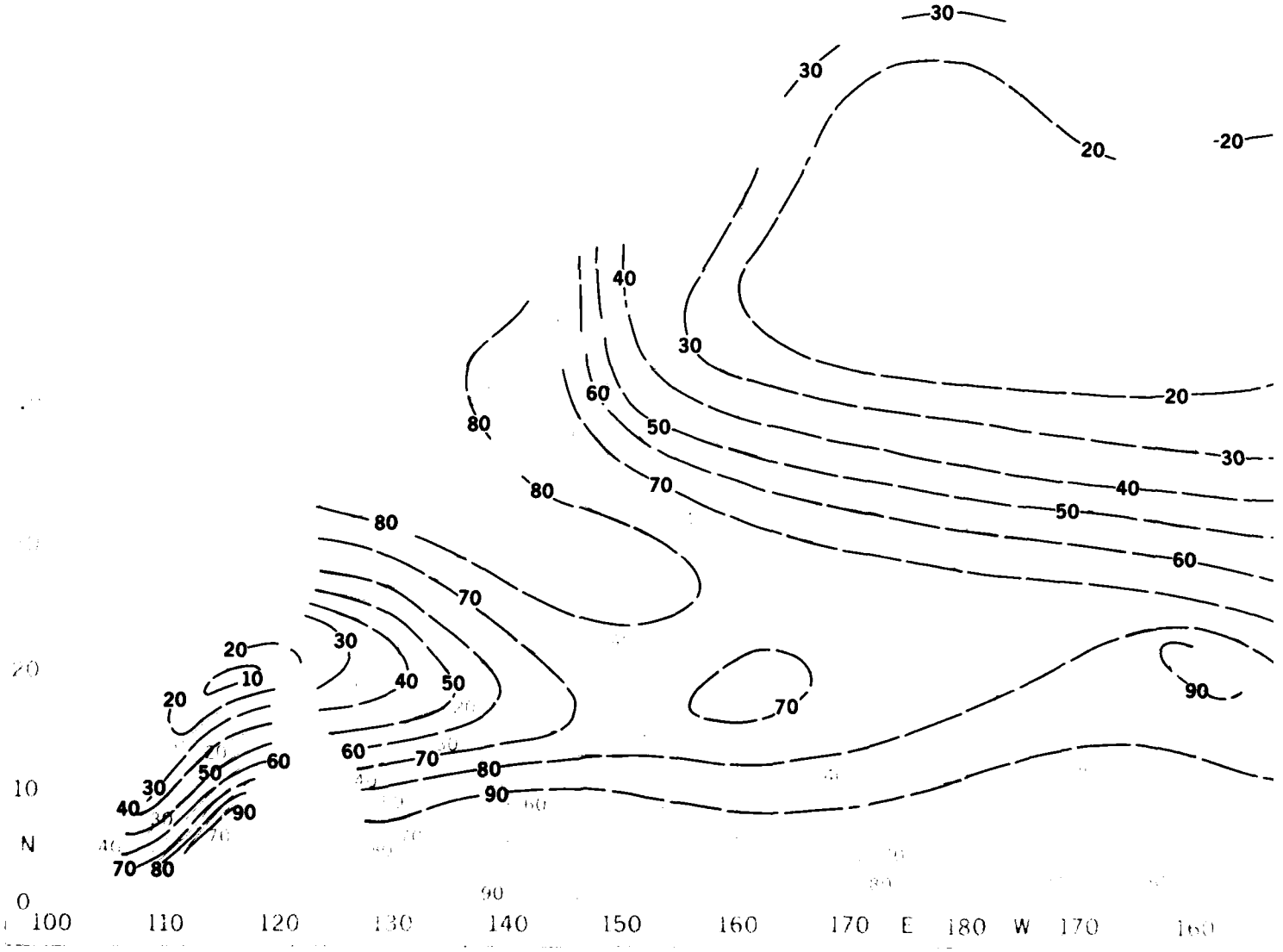

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170 E 180 W 170 160 150 140 130 120 110

NOVEMBER

WA

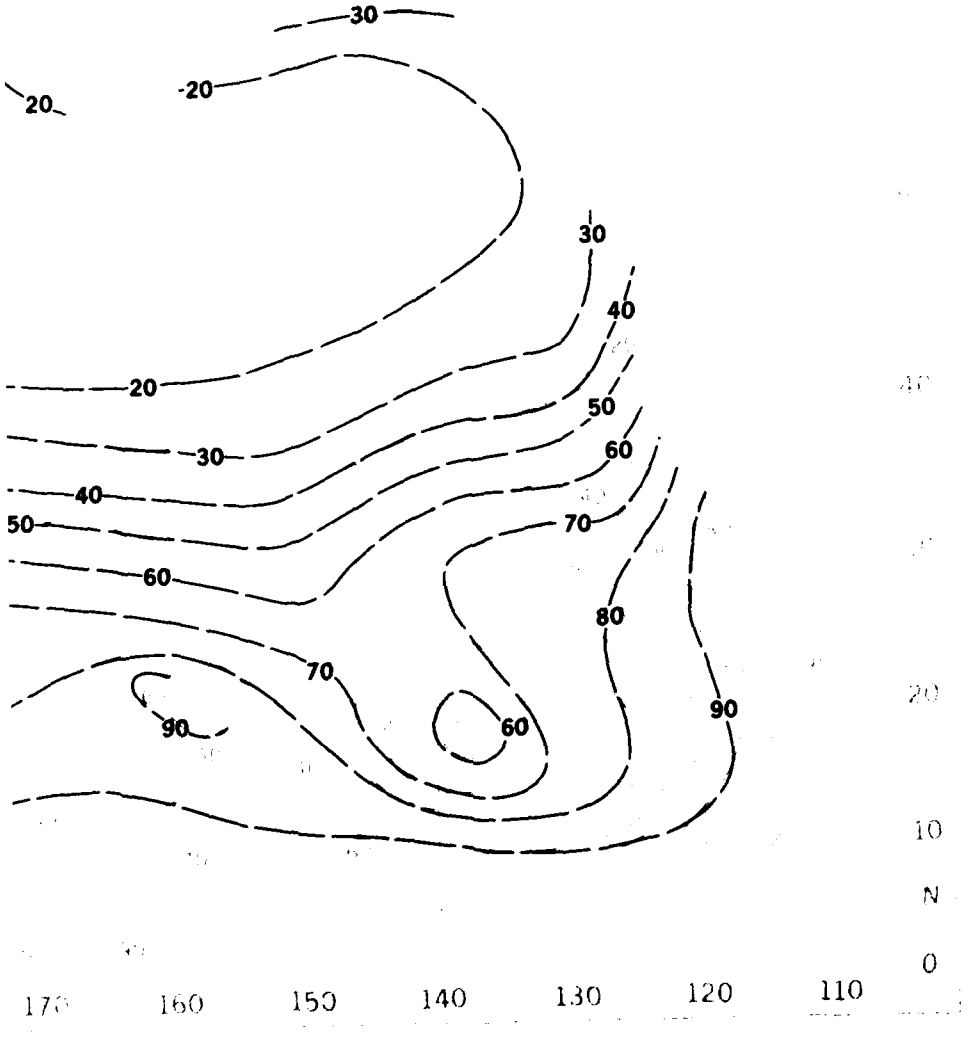
Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



24

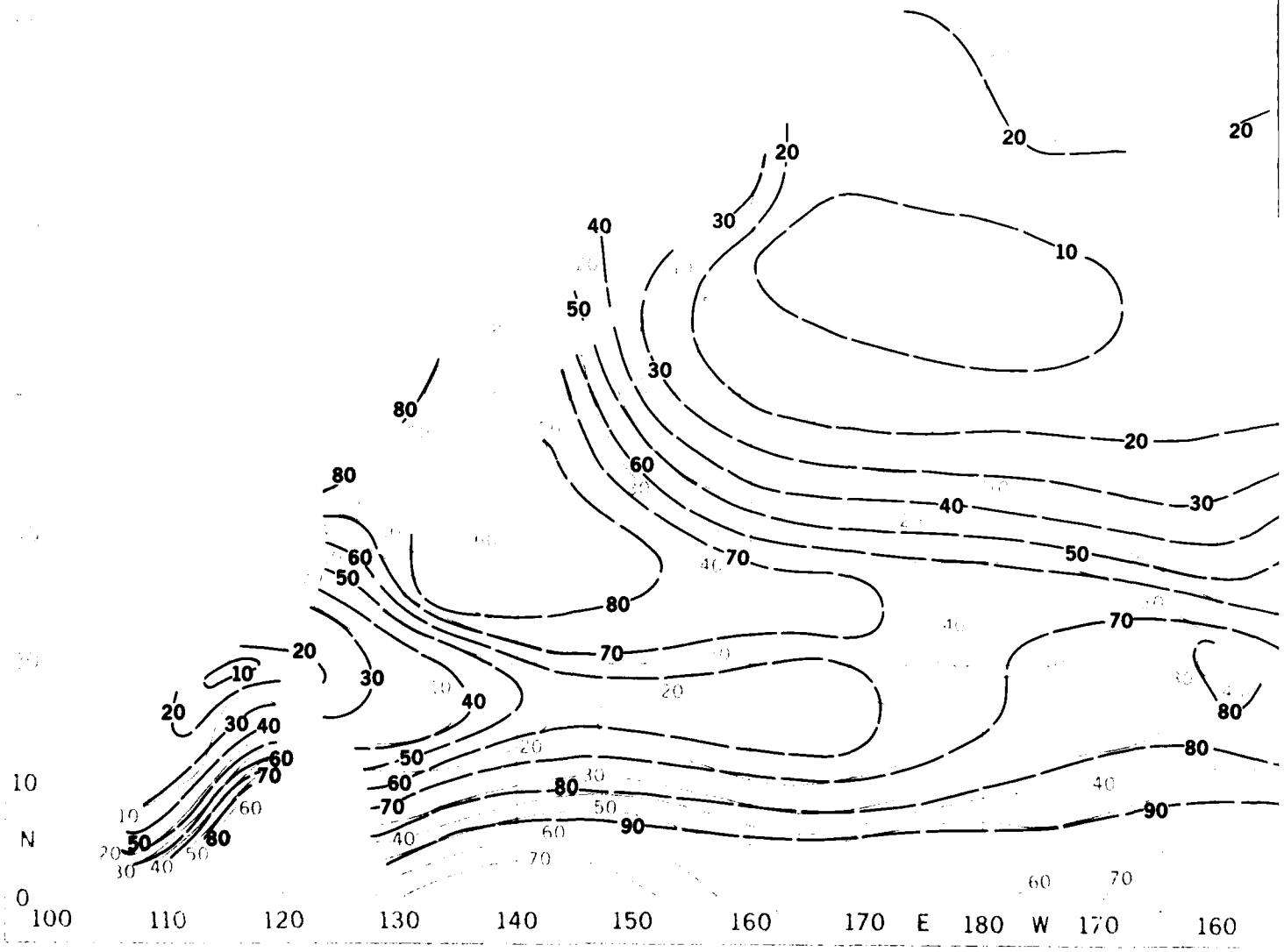
WAVE HEIGHT (<5 AND <8 FEET)



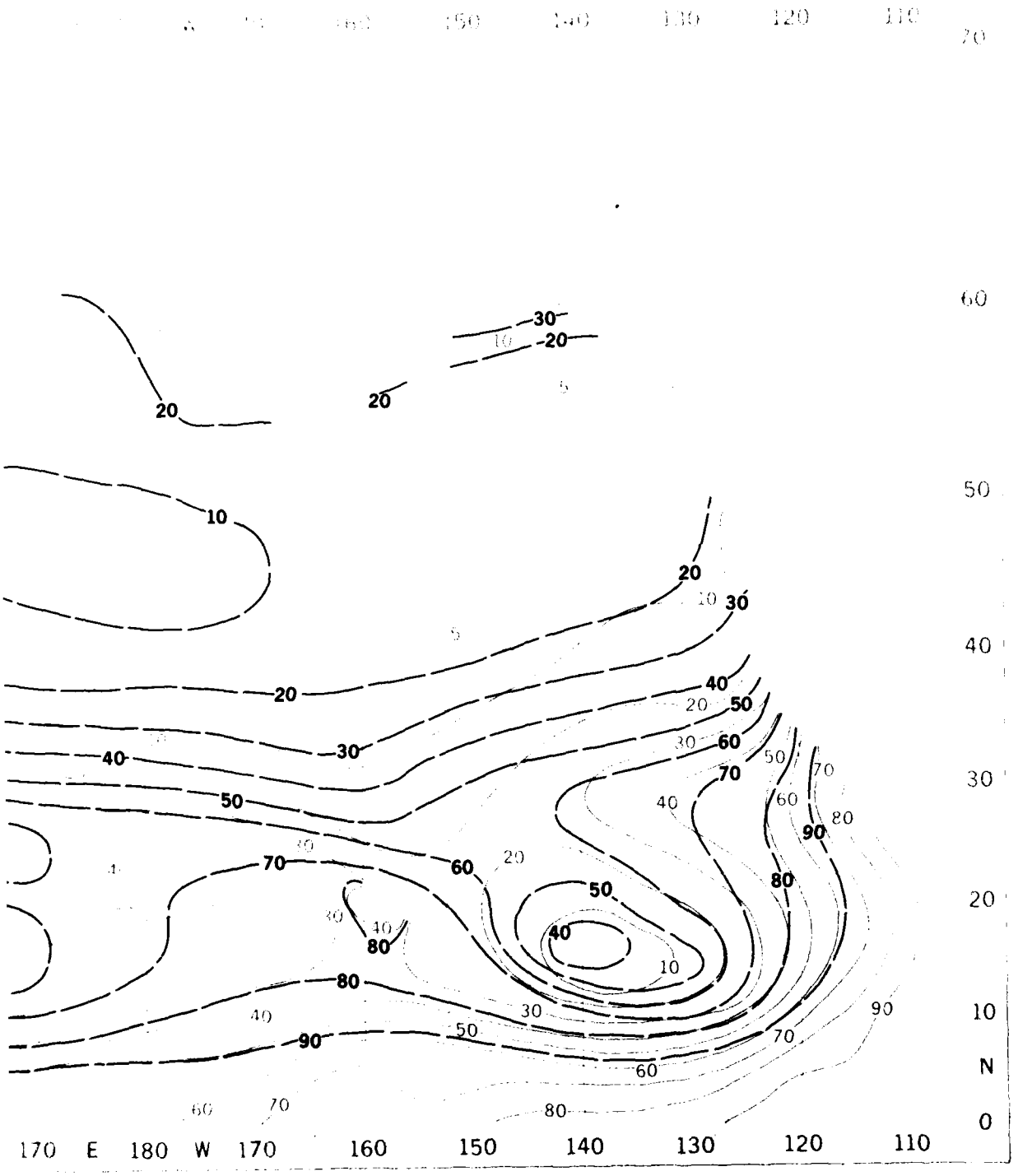
WAVE HEIGHT (<5 AND <8 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



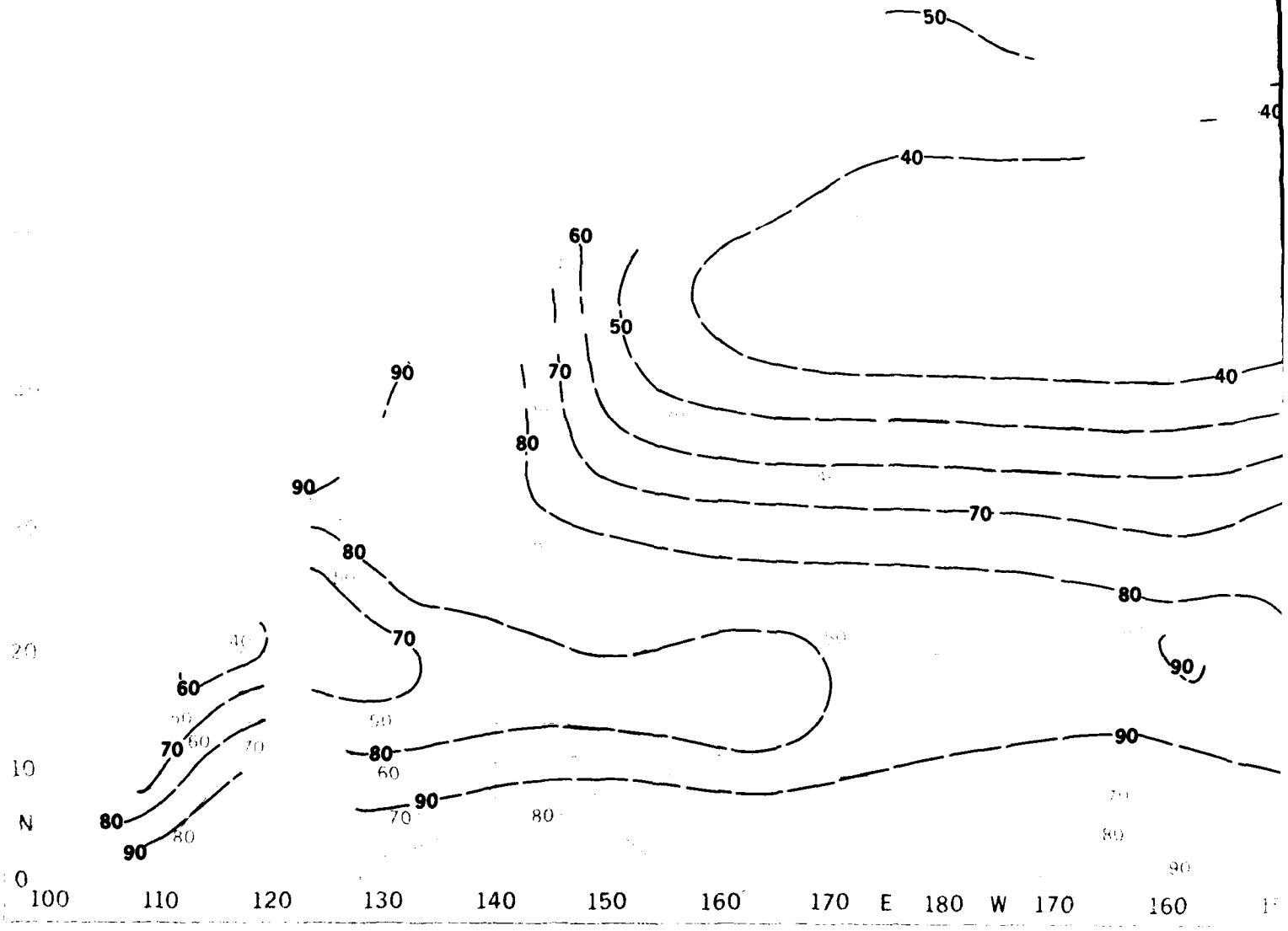
DECEMBER



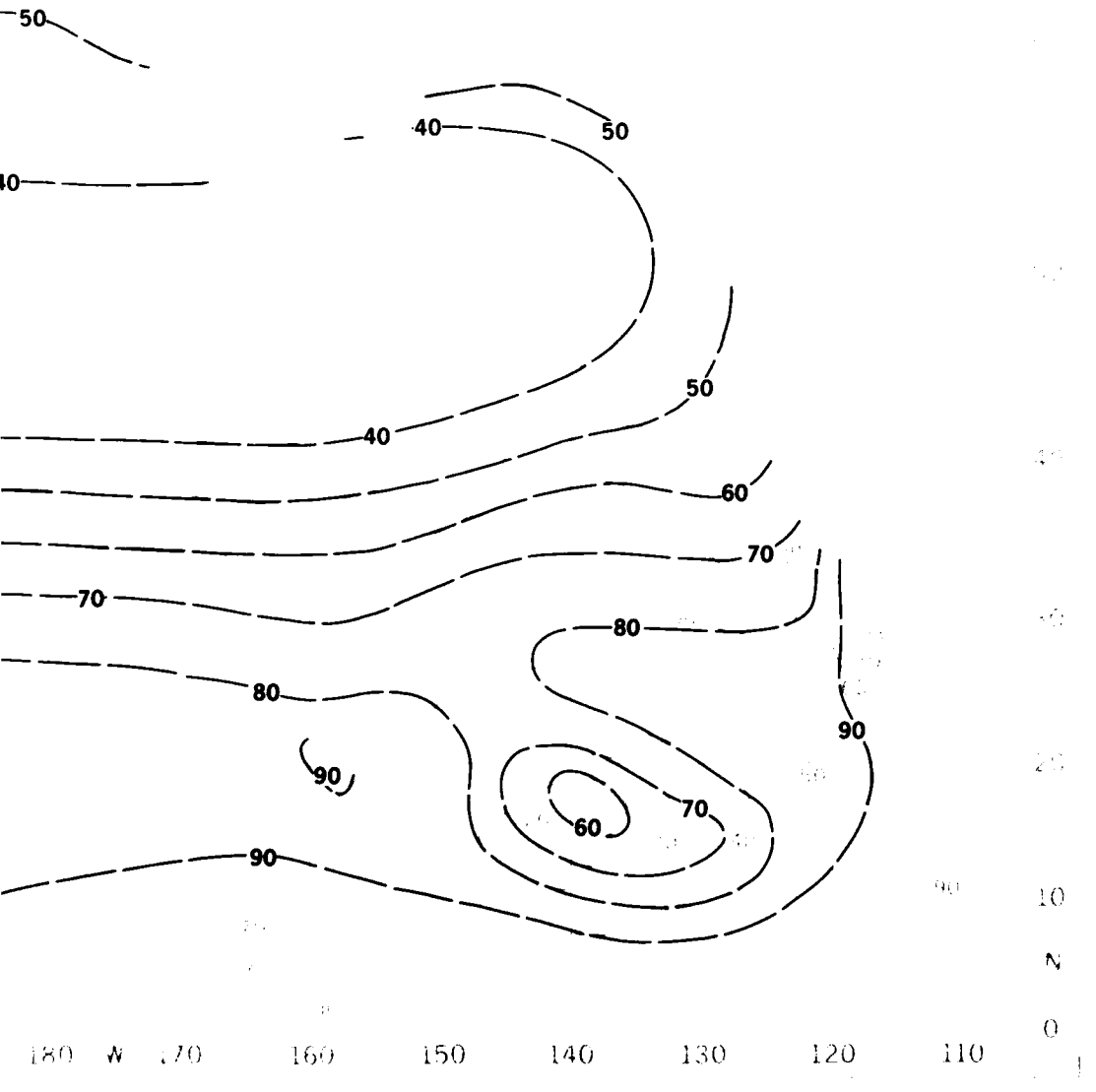
ANNUAL WAV

Solid Lines (dotted intermediates) - Percent frequency of wave heights <5 feet (<1.5 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights <8 feet (<2.4 meters)



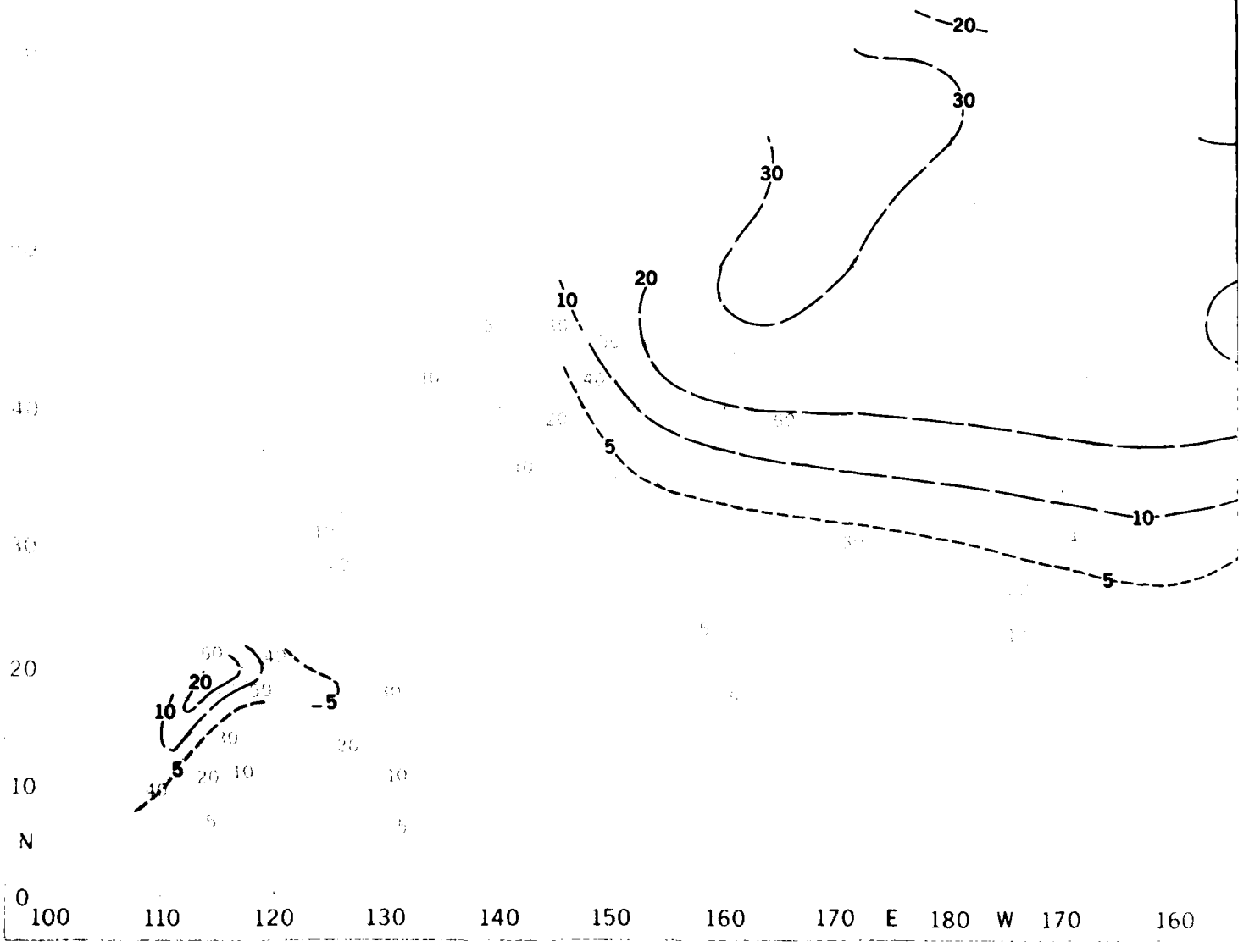
WAVE HEIGHT (<5 AND <8 FEET)



WAVE HEIGHT (≥12 AND ≥20 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)

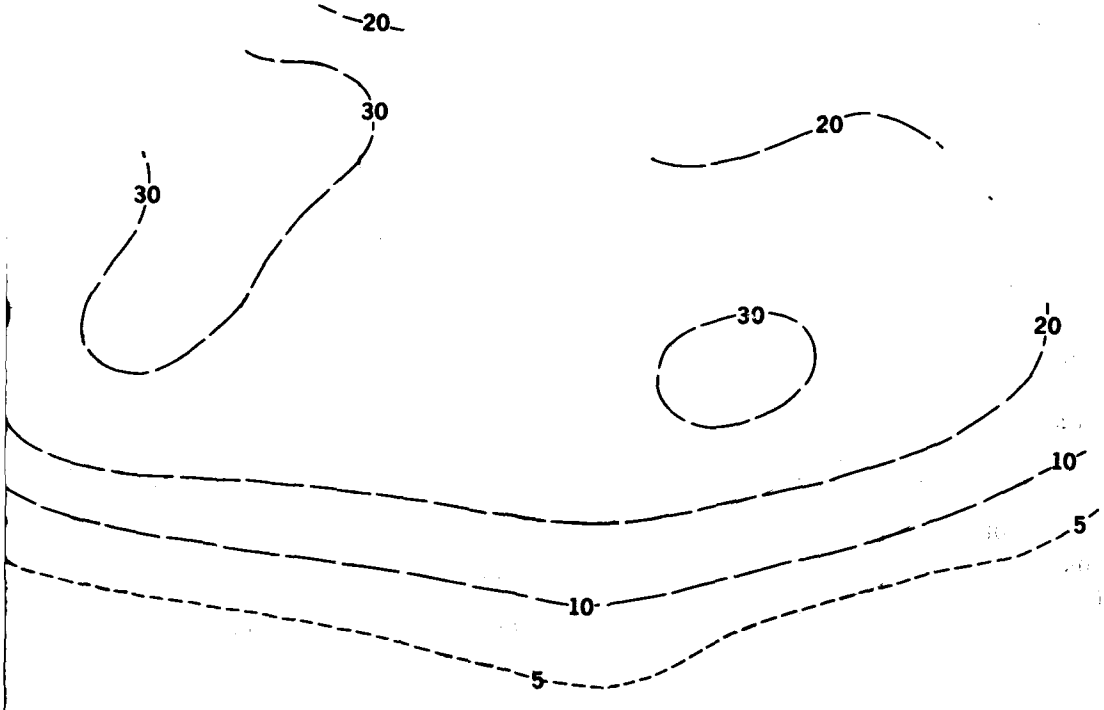


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160 170 E 180 W 170 160 150 140 130 120 110

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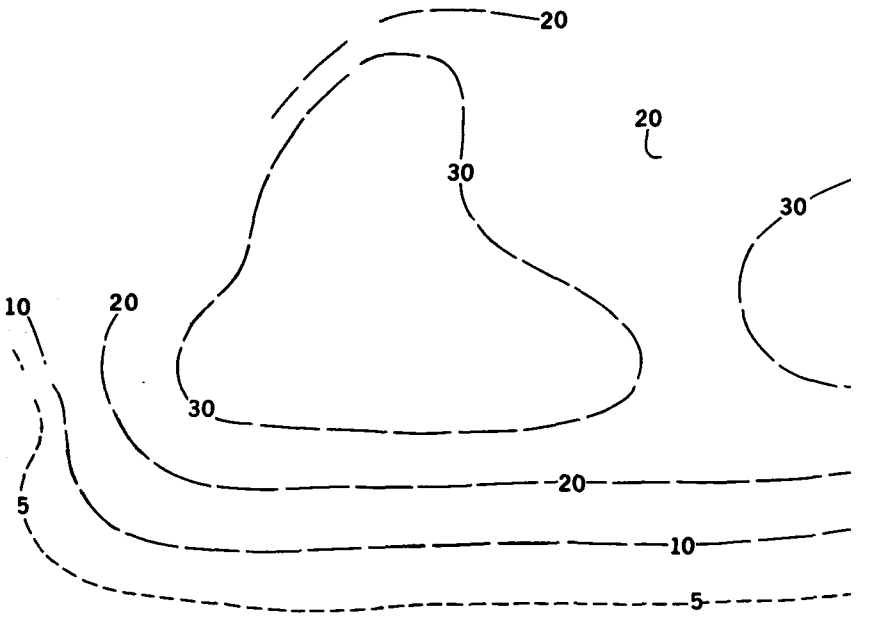
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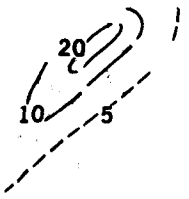
FEBRUARY

WAVE

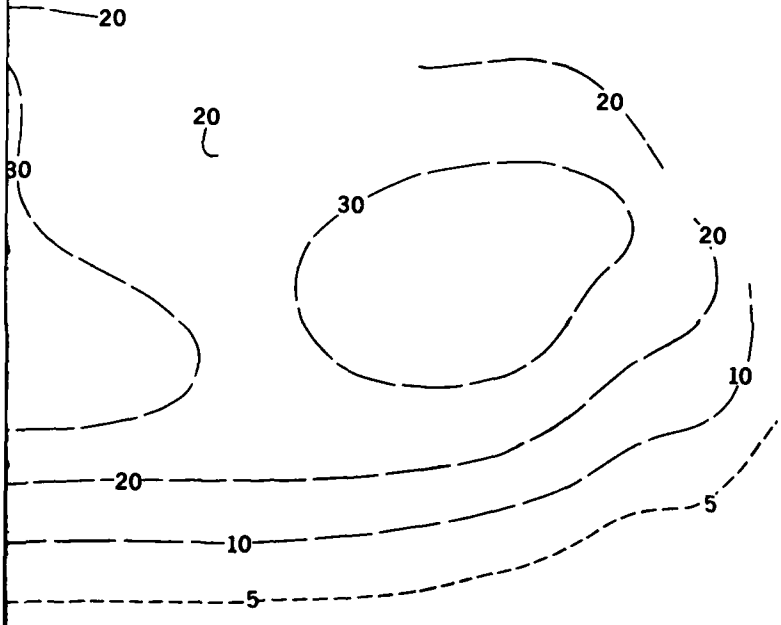
Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)





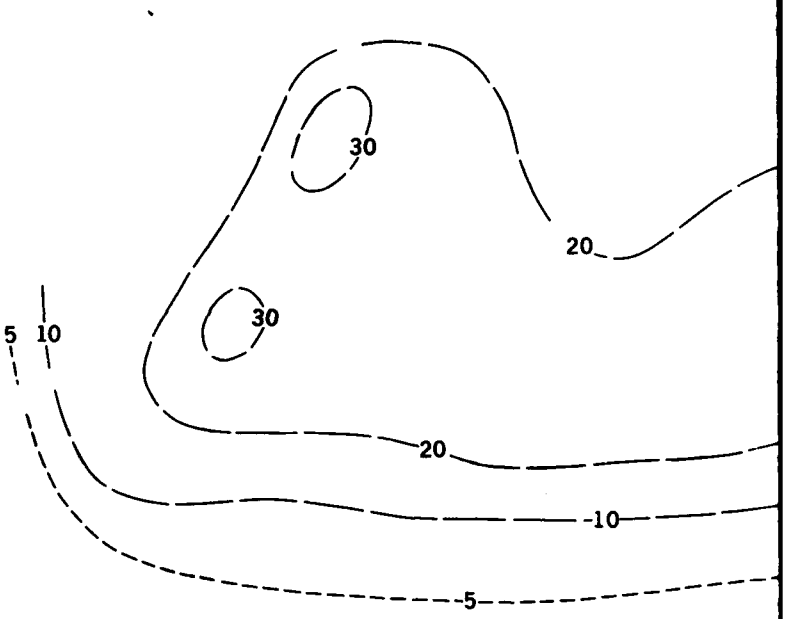
WAVE HEIGHT (≥12 AND ≥20 FEET)



WAVE HEIGHT (≥12 AND ≥20 FEET)

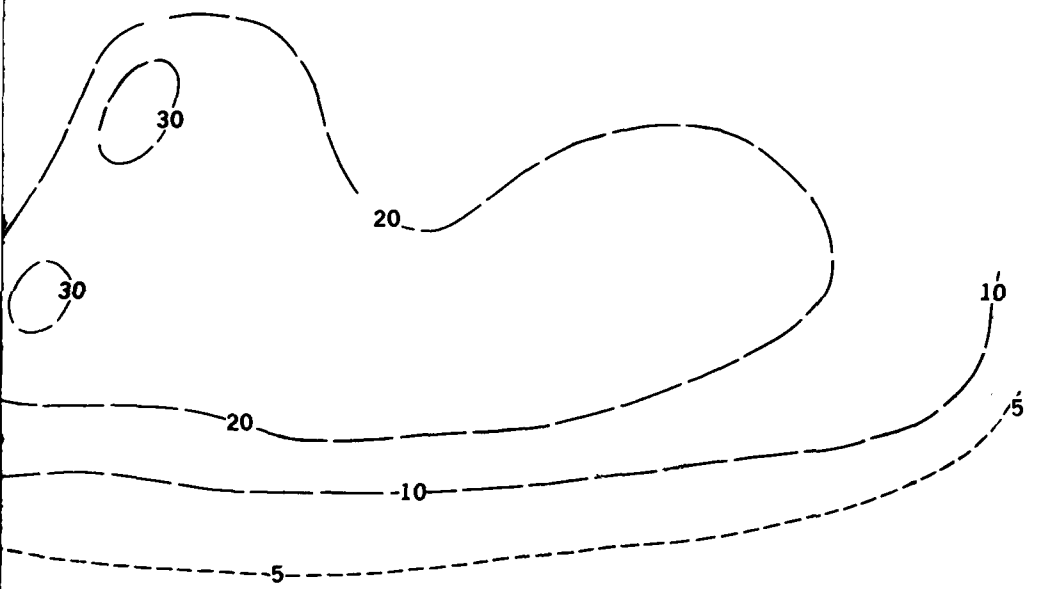
Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



5

MARCH

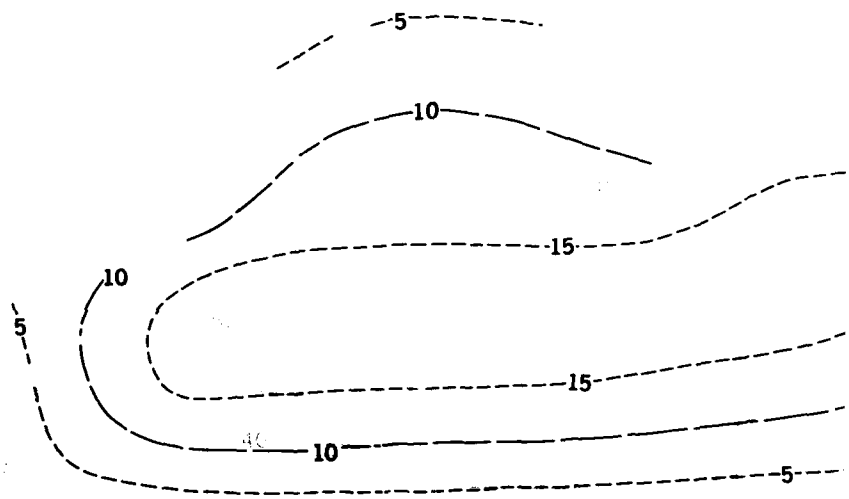


APRIL

WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



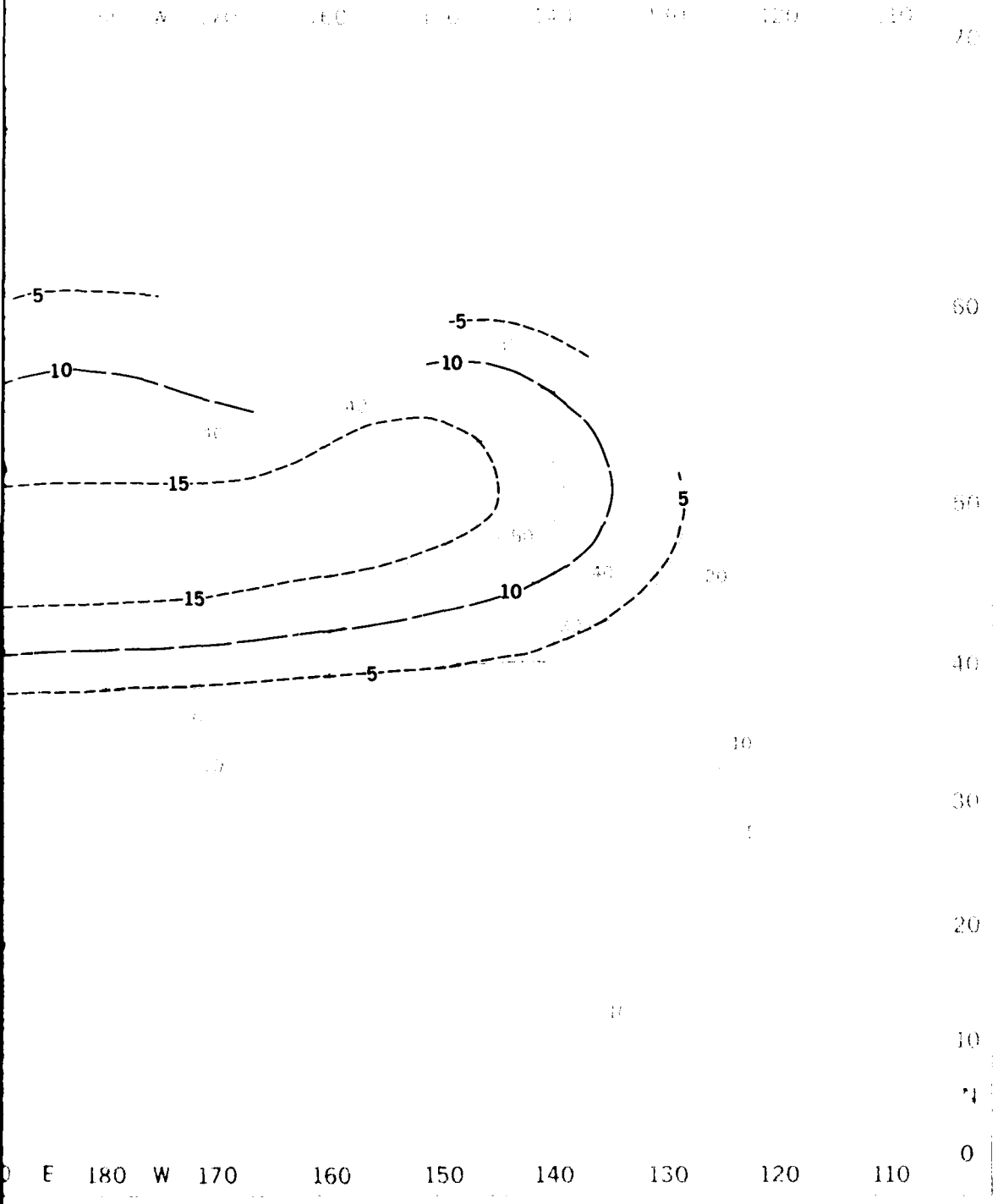
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WAVE HEIGHT (≥12 AND ≥20 FEET)

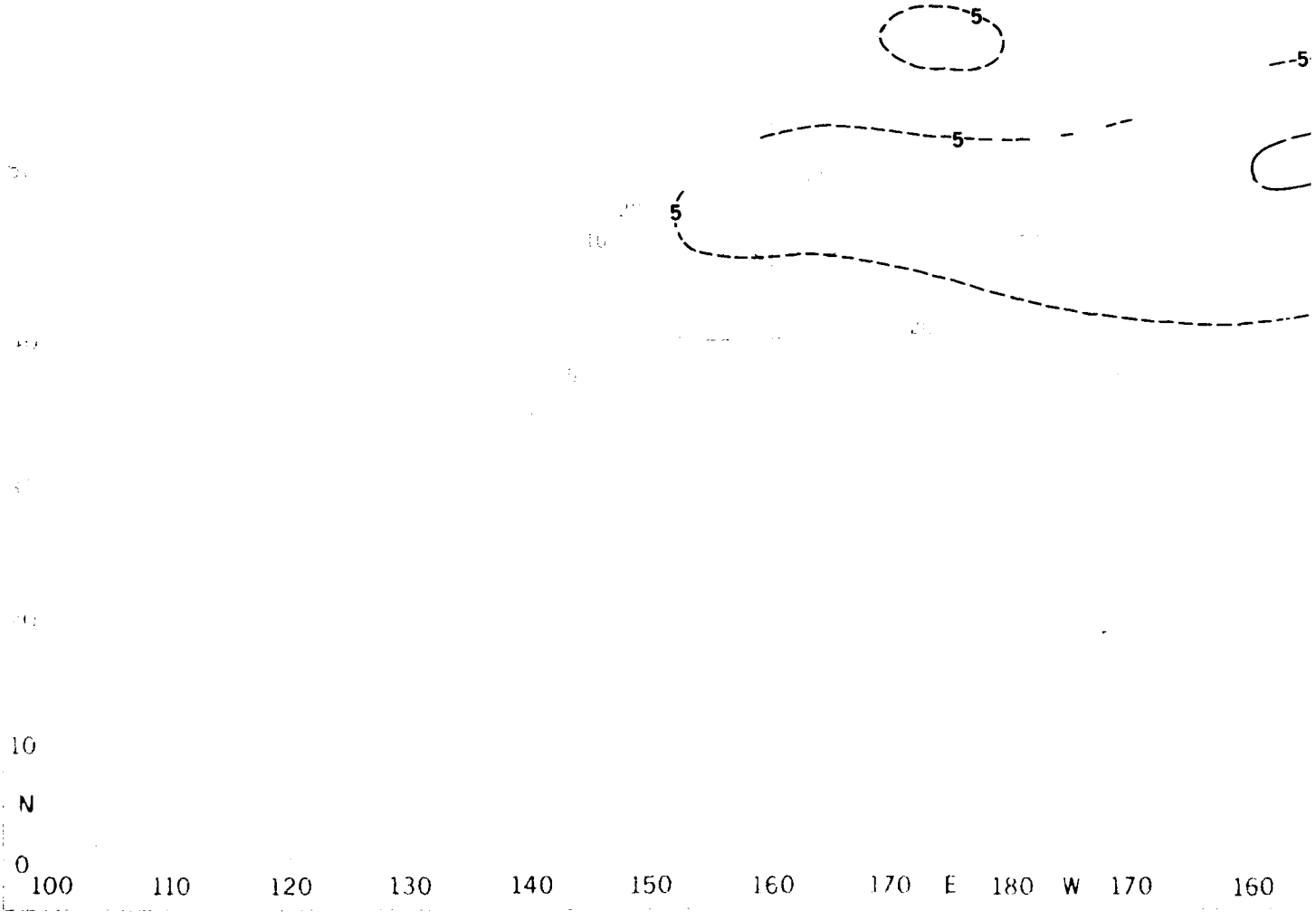


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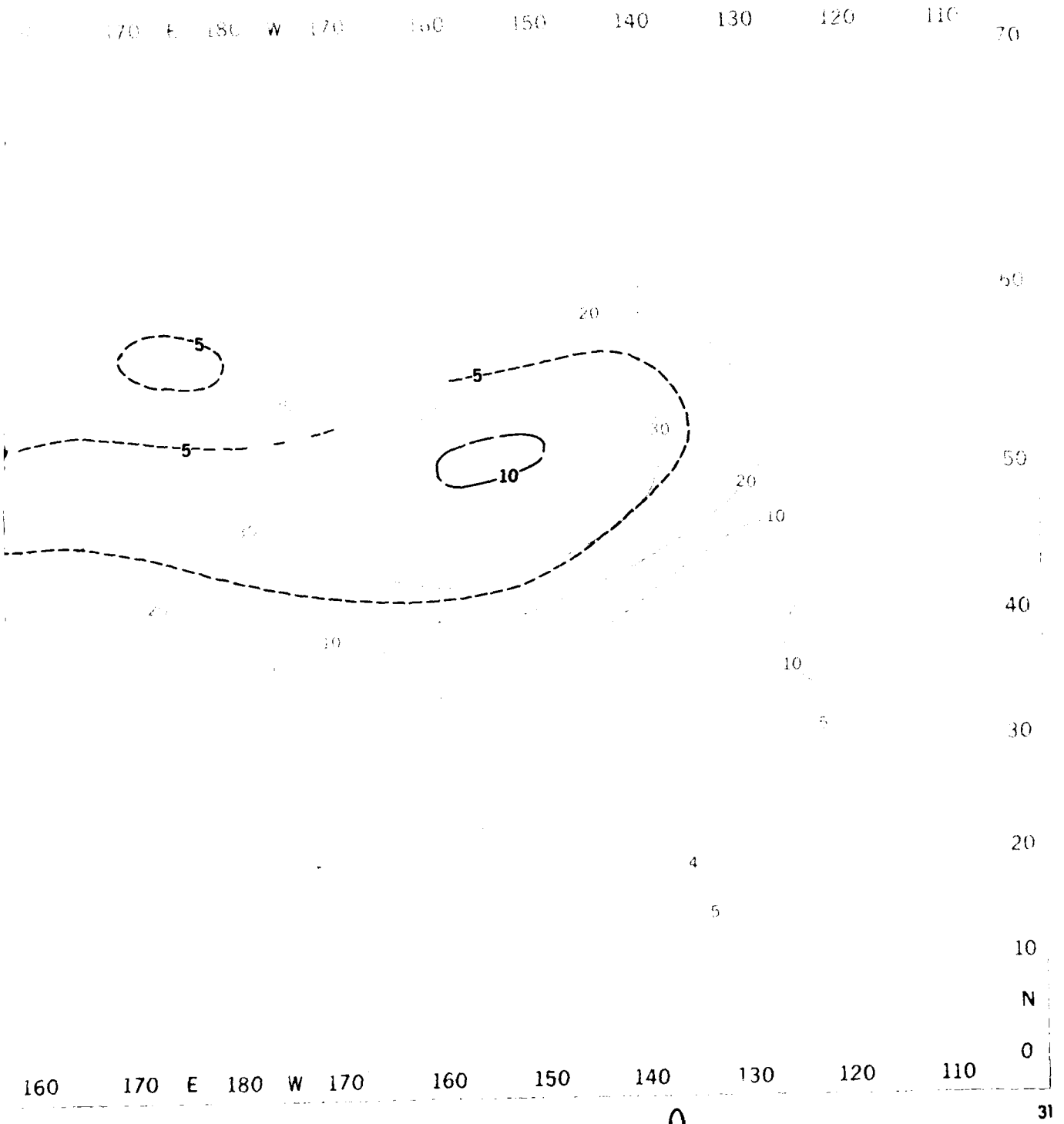
WAVE HEIGHT (≥12 AND ≥20 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



MAY

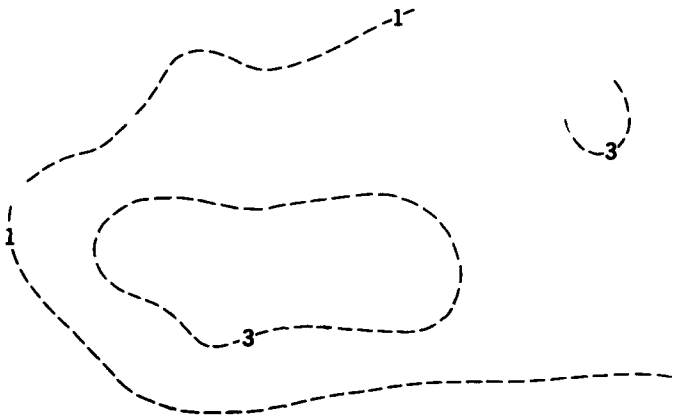

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JUNE

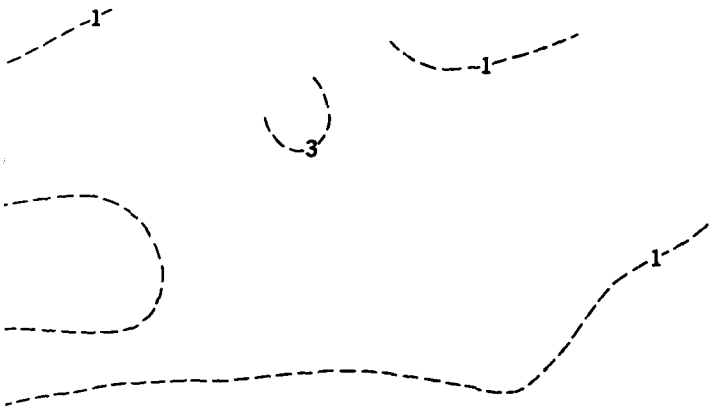
WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



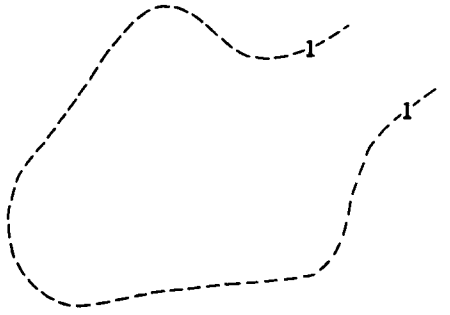
WAVE HEIGHT (≥12 AND ≥20 FEET)



WAVE HEIGHT (≥12 AND ≥20 FEET)

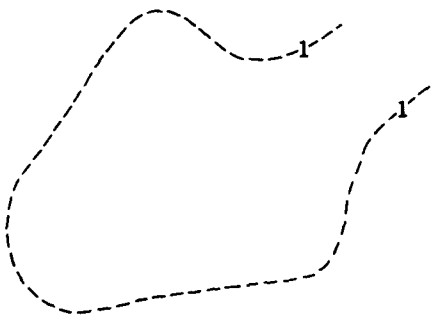
Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)





JULY

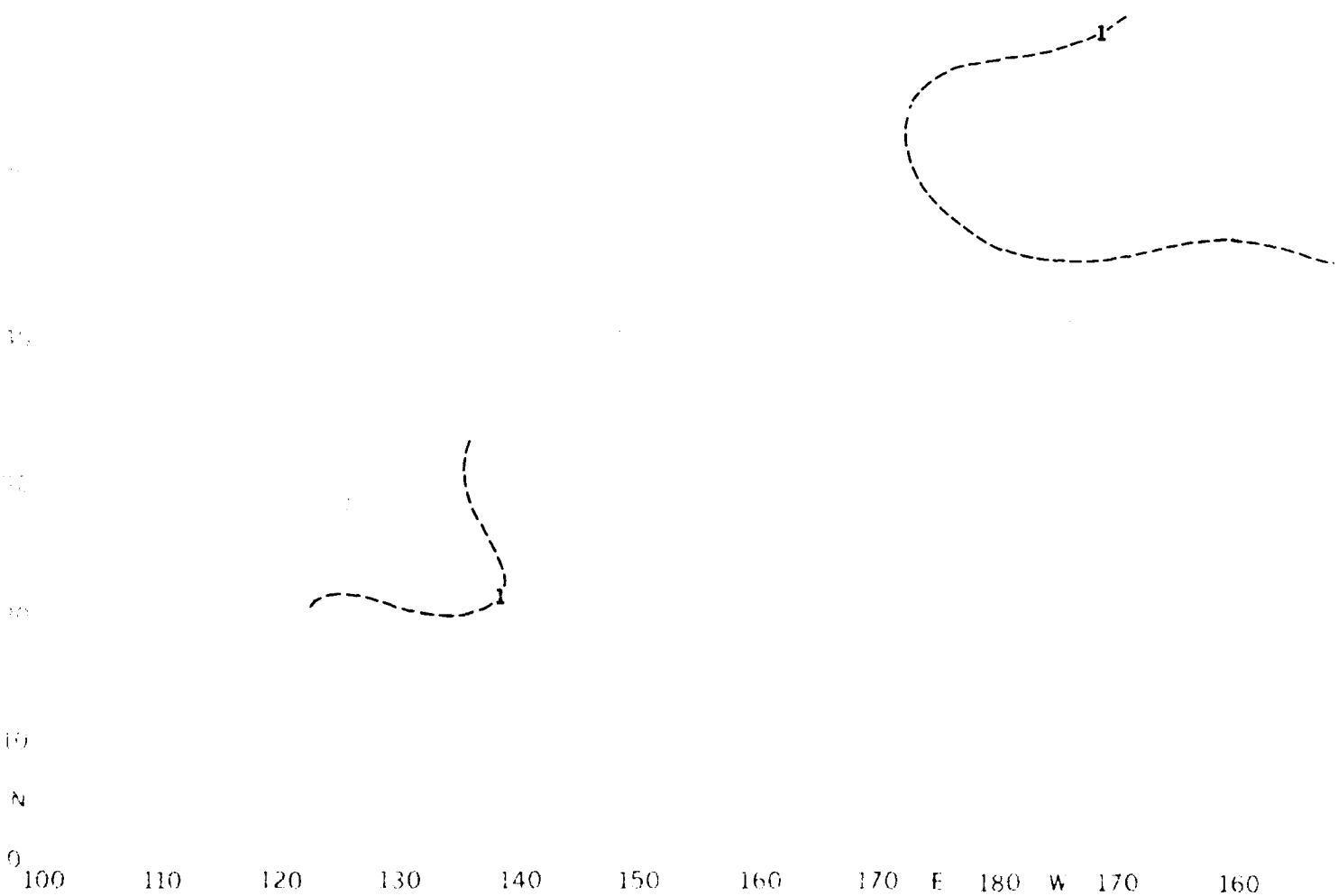


AUGUST

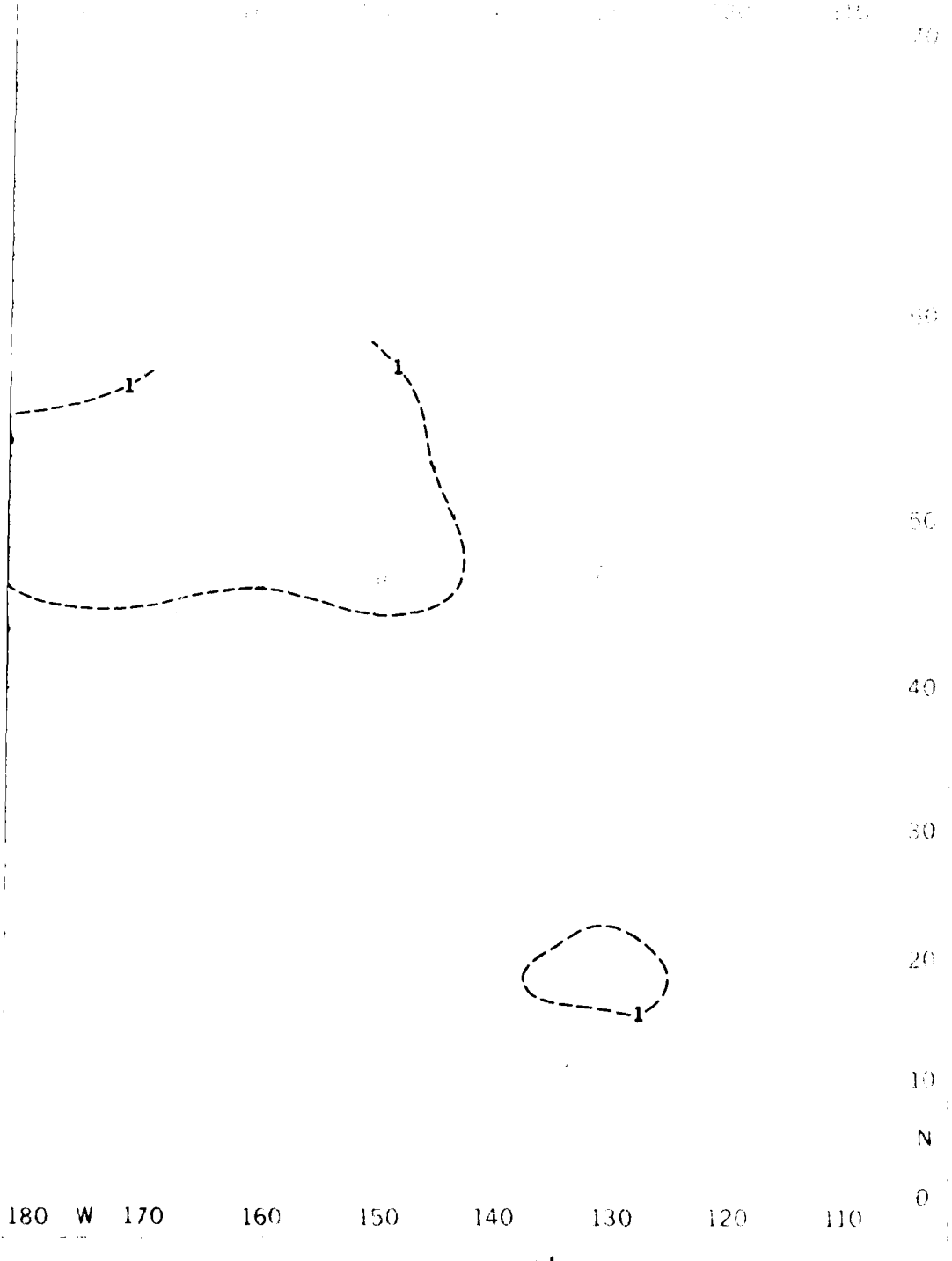
WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



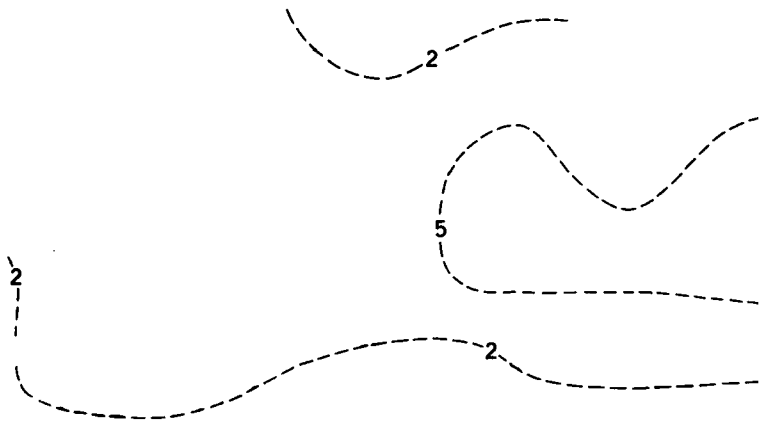
WAVE HEIGHT (≥12 AND ≥20 FEET)



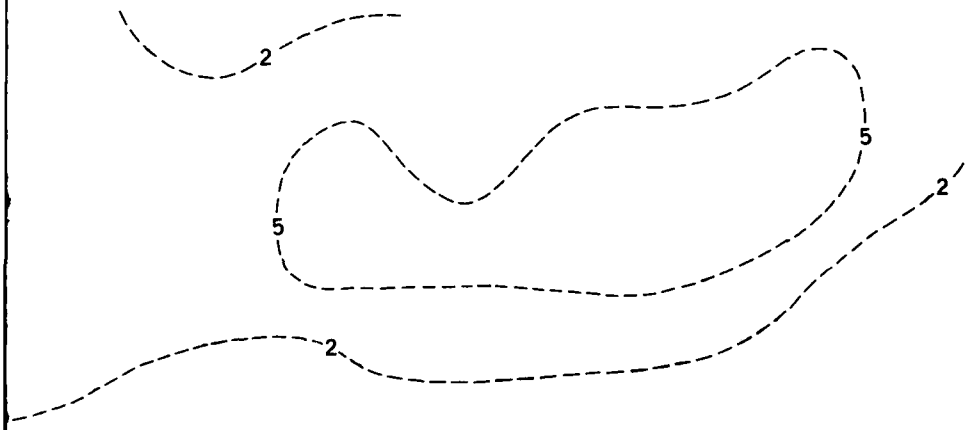
WAVE HEIGHT (≥12 AND ≥20 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



SEPTEMBER

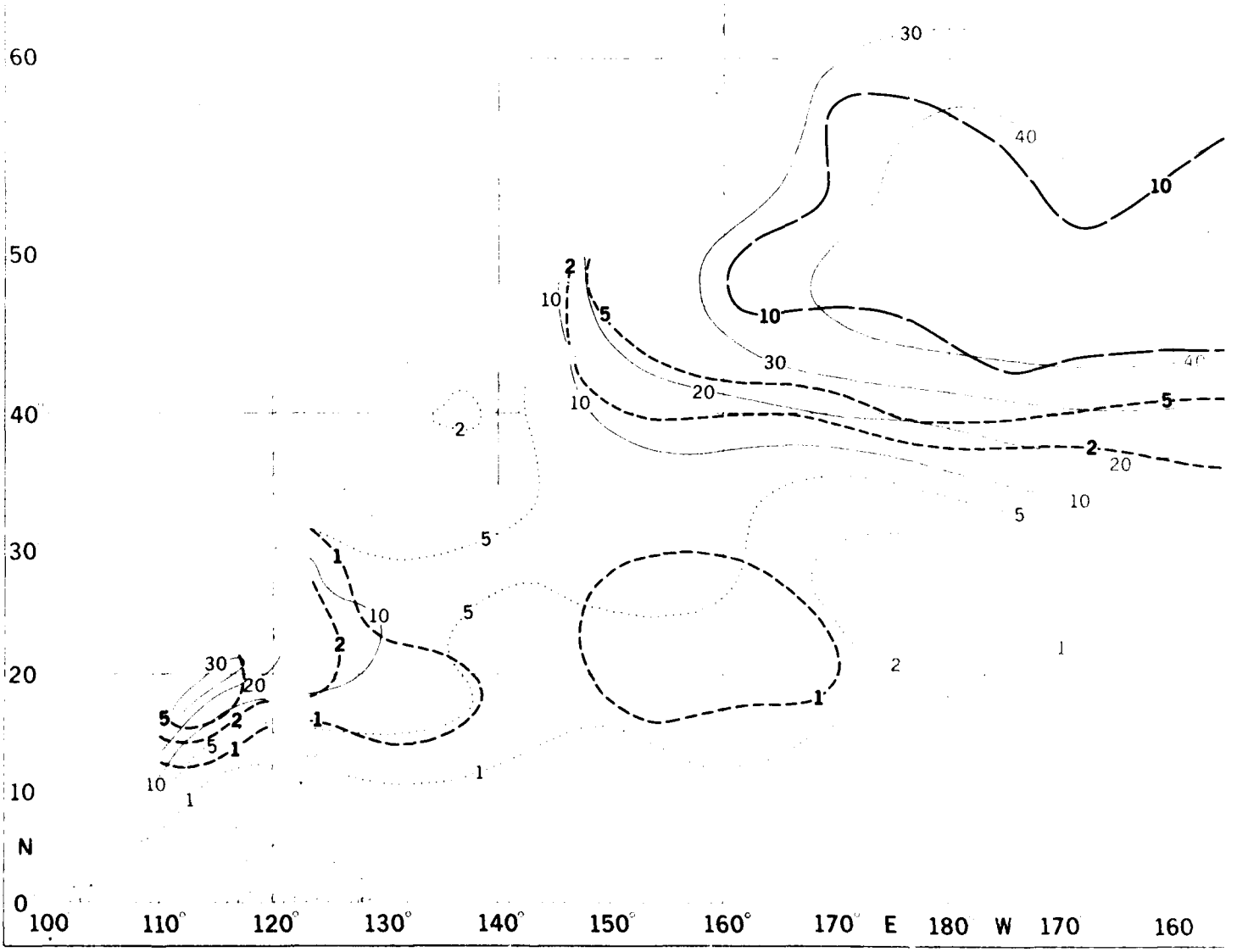


OCTOBER

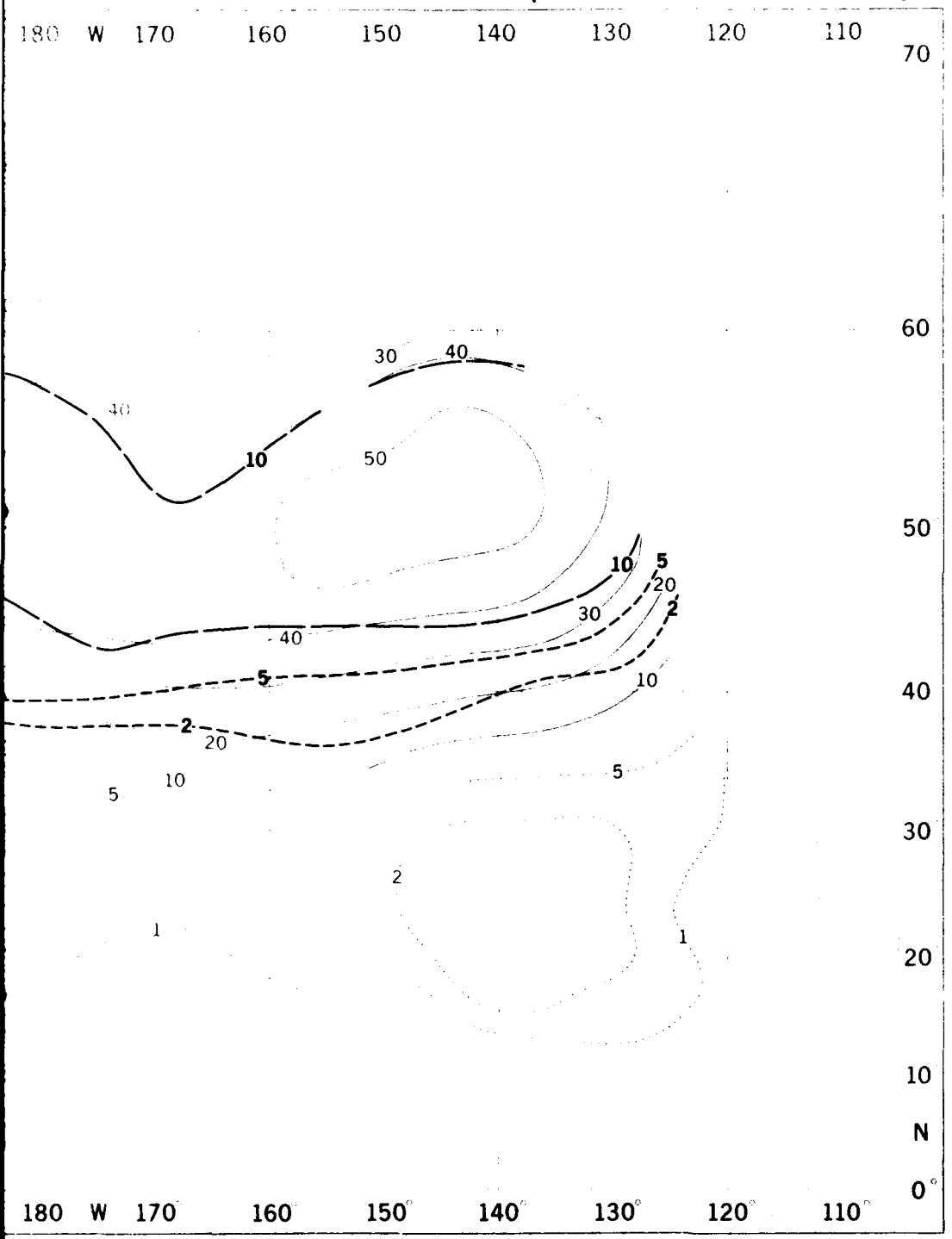
WAV

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



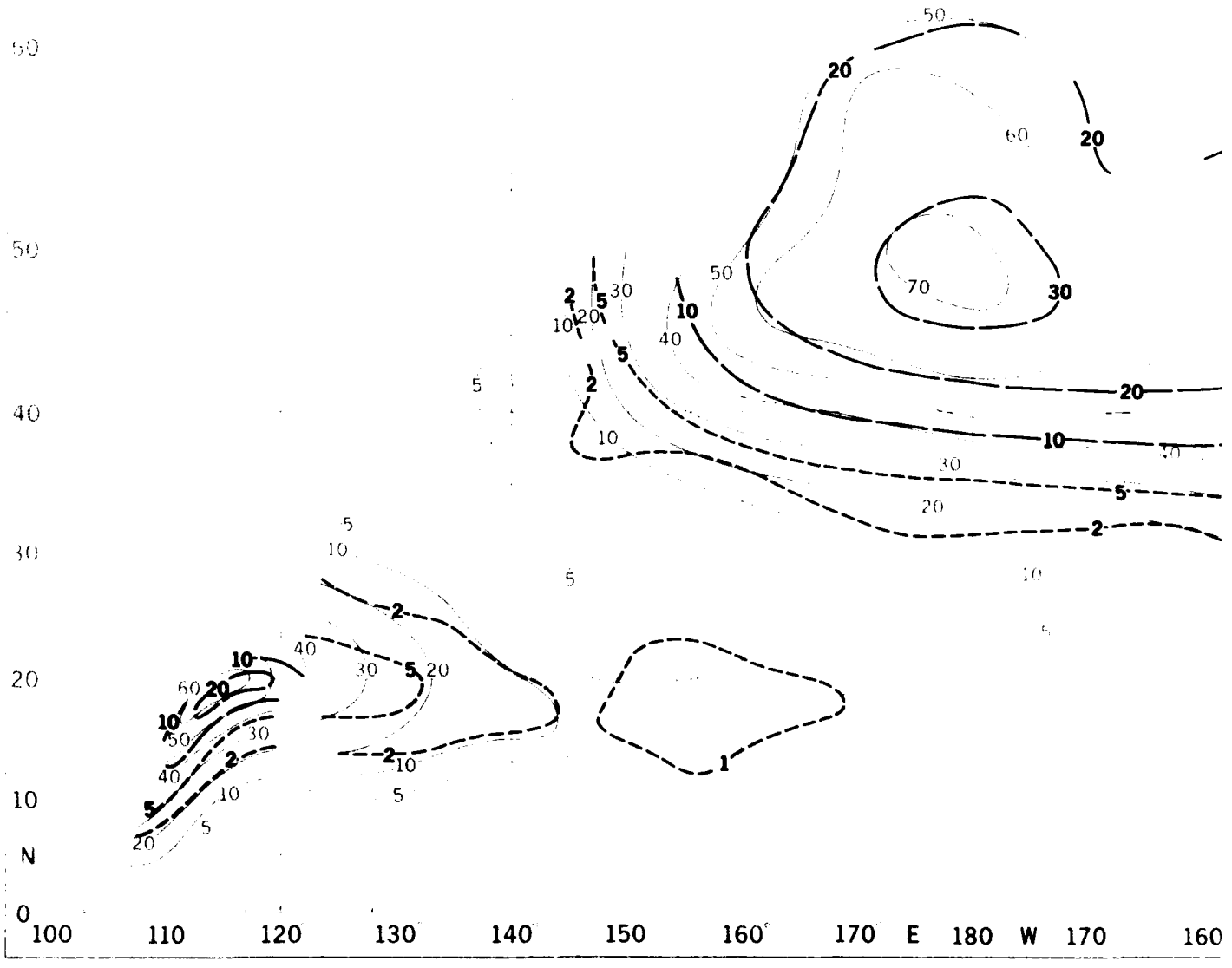
WAVE HEIGHT (≥12 AND ≥20 FEET)

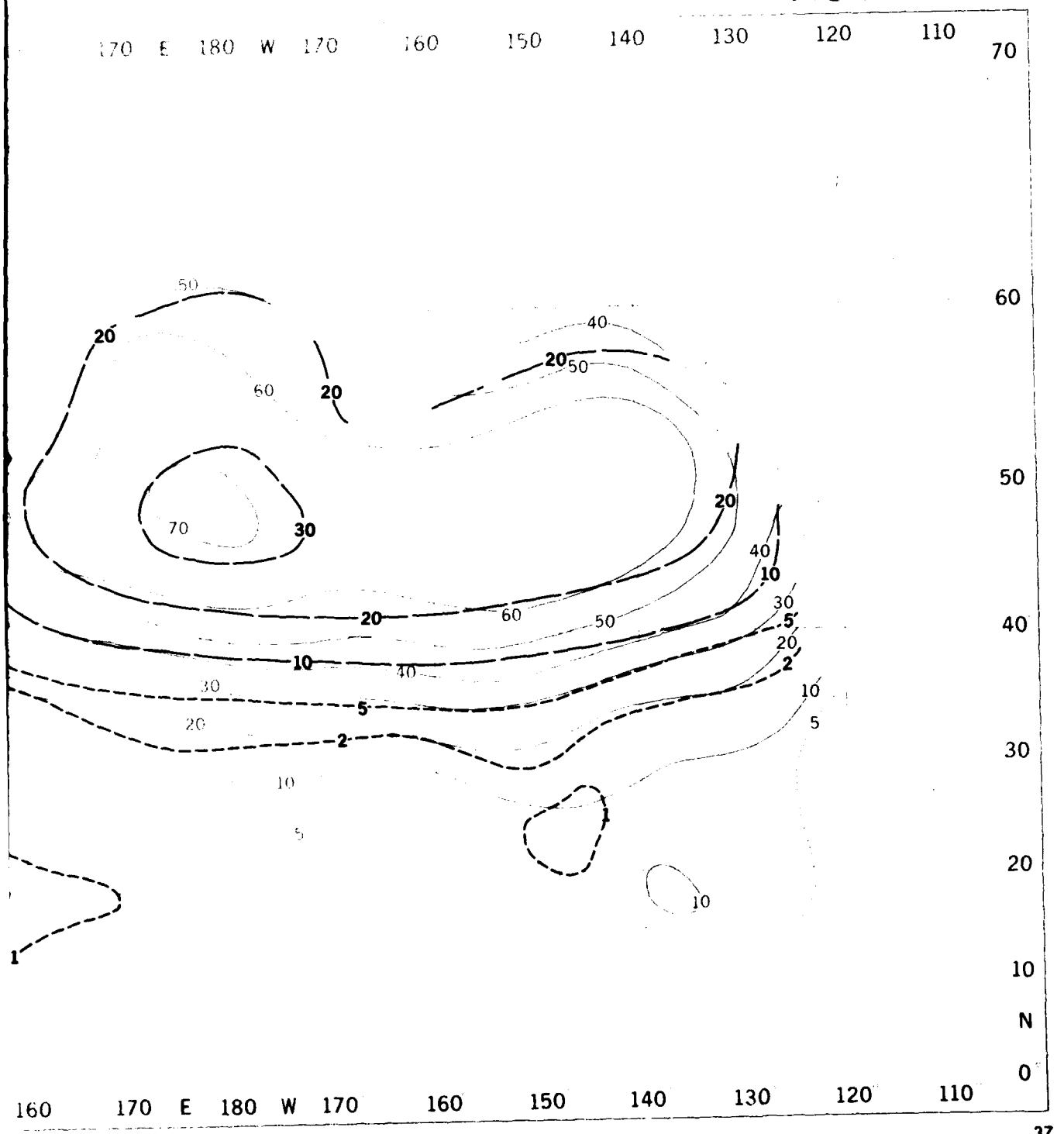


WAVE HEIGHT (≥12 AND ≥20 FEET)

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



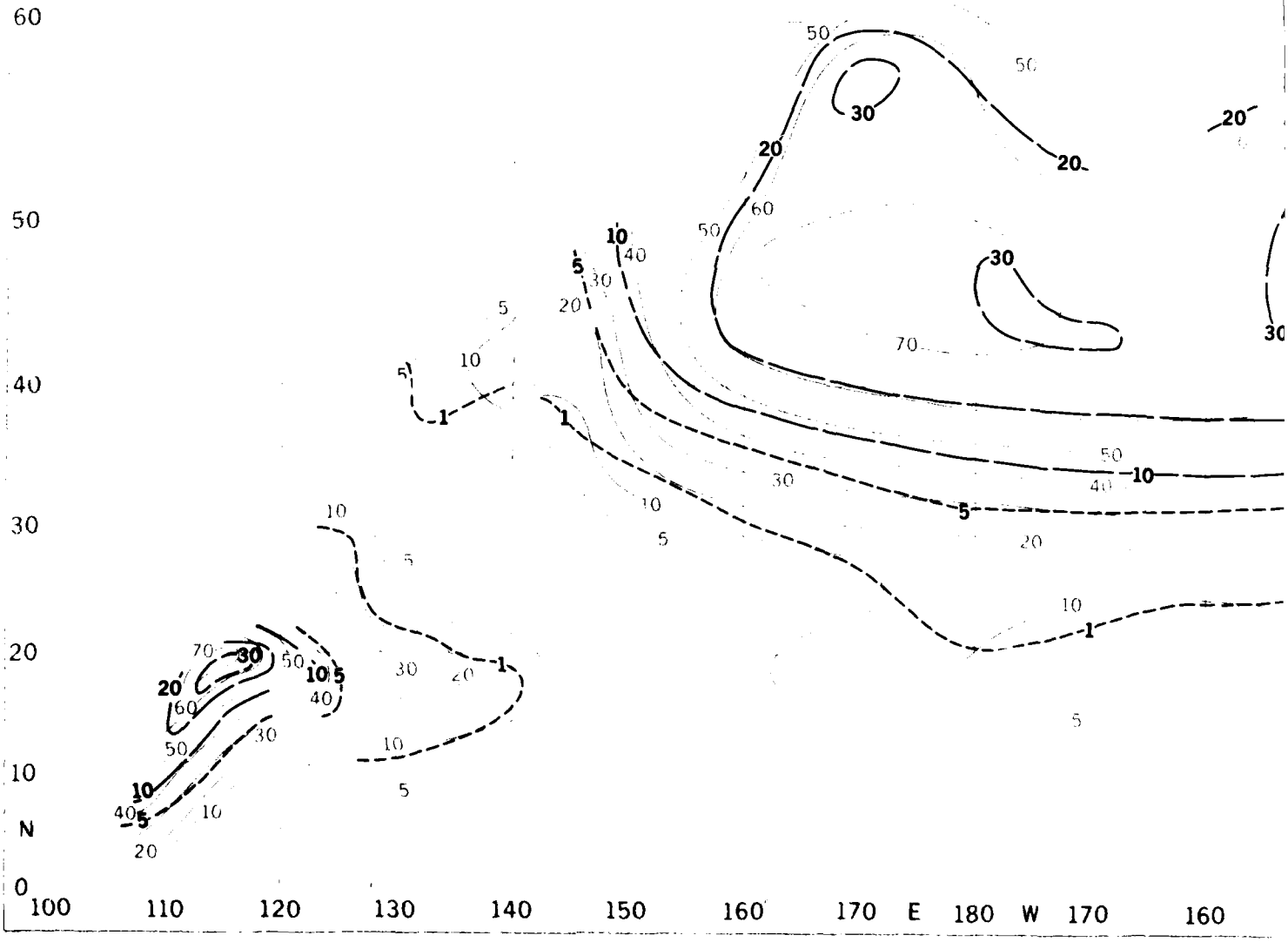

NOVEMBER
170 E 180 W 170 160 150 140 130 120 110
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DECEMBER

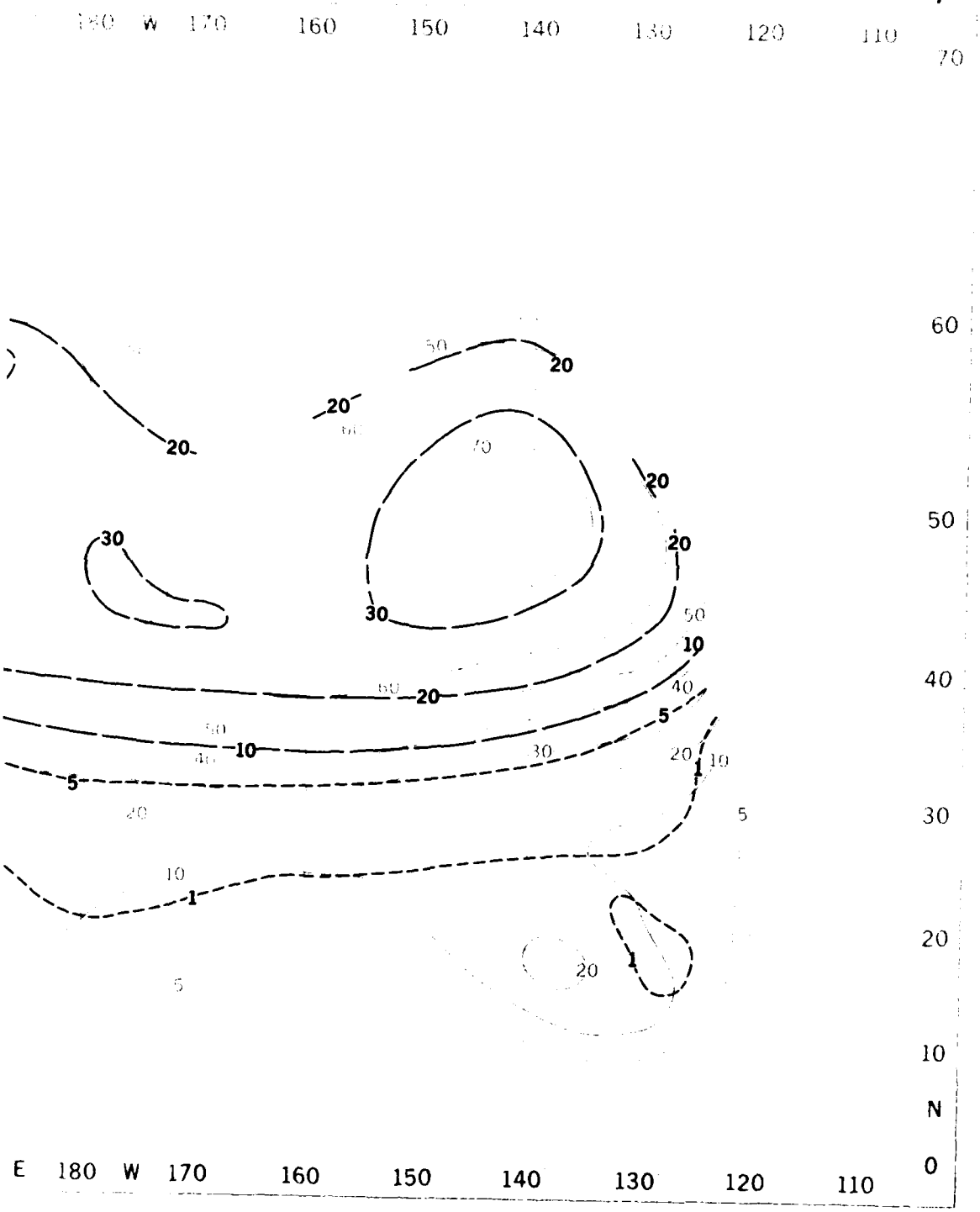
WAV

Solid Lines (dotted intermediates) - Percent frequency of wave heights ≥12 feet (≥3.7 meters)

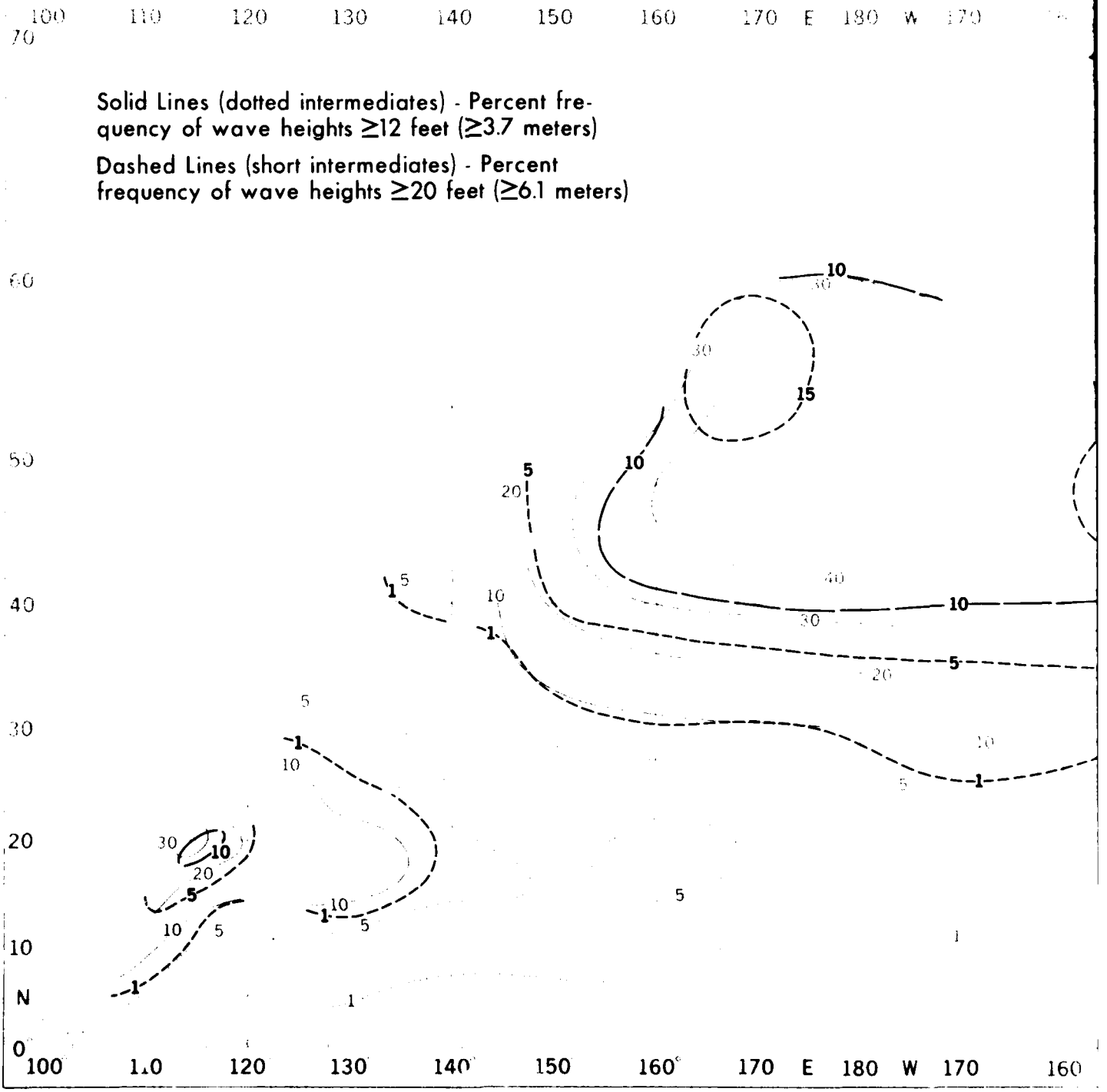
Dashed Lines (short intermediates) - Percent frequency of wave heights ≥20 feet (≥6.1 meters)



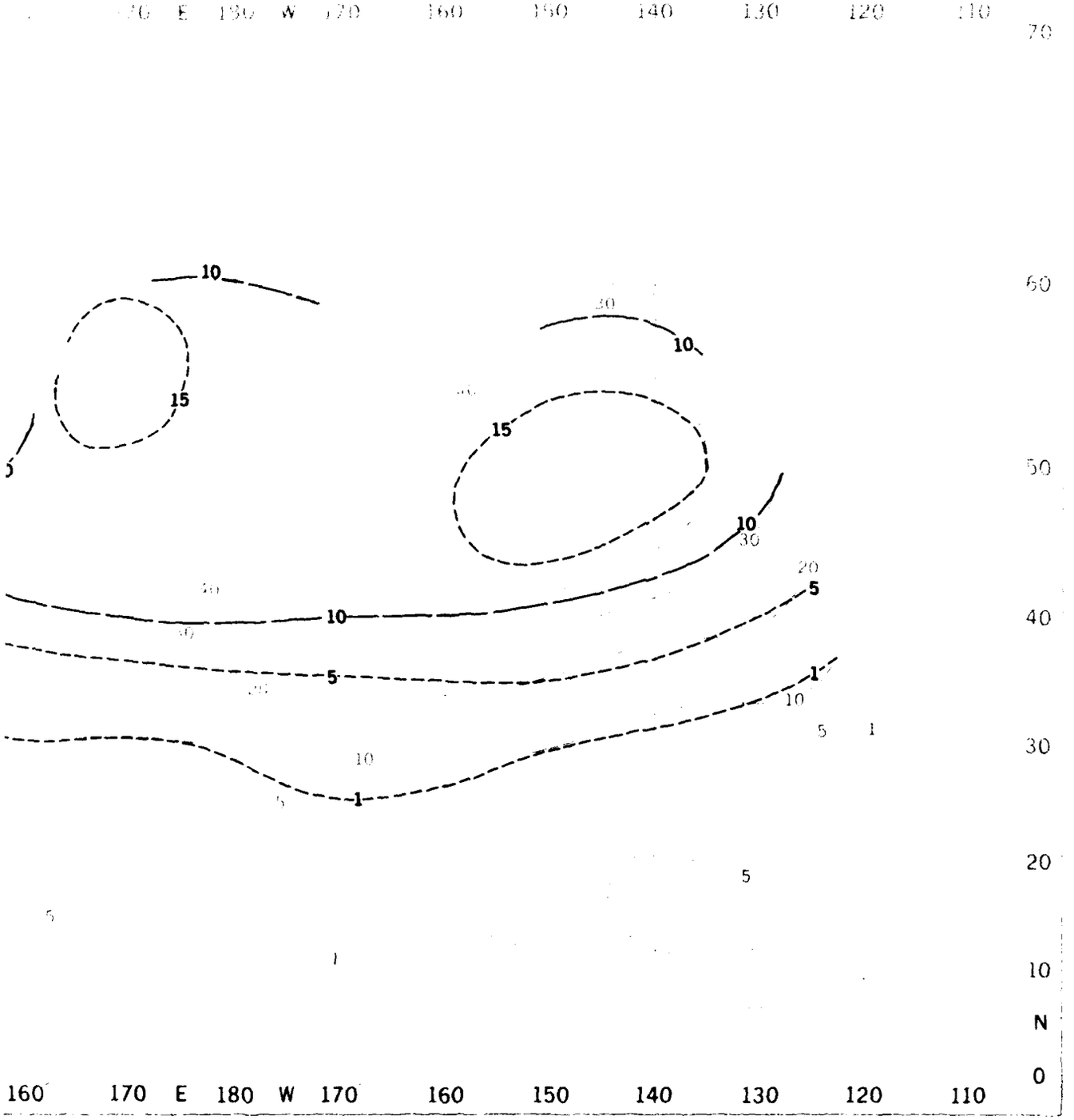
WAVE HEIGHT (≥12 AND ≥20 FEET)



WAVE HEIGHT (≥12 AND ≥20 FEET)



ANNUAL


160 170 E 180 W 170 160 150 140 130 120 110
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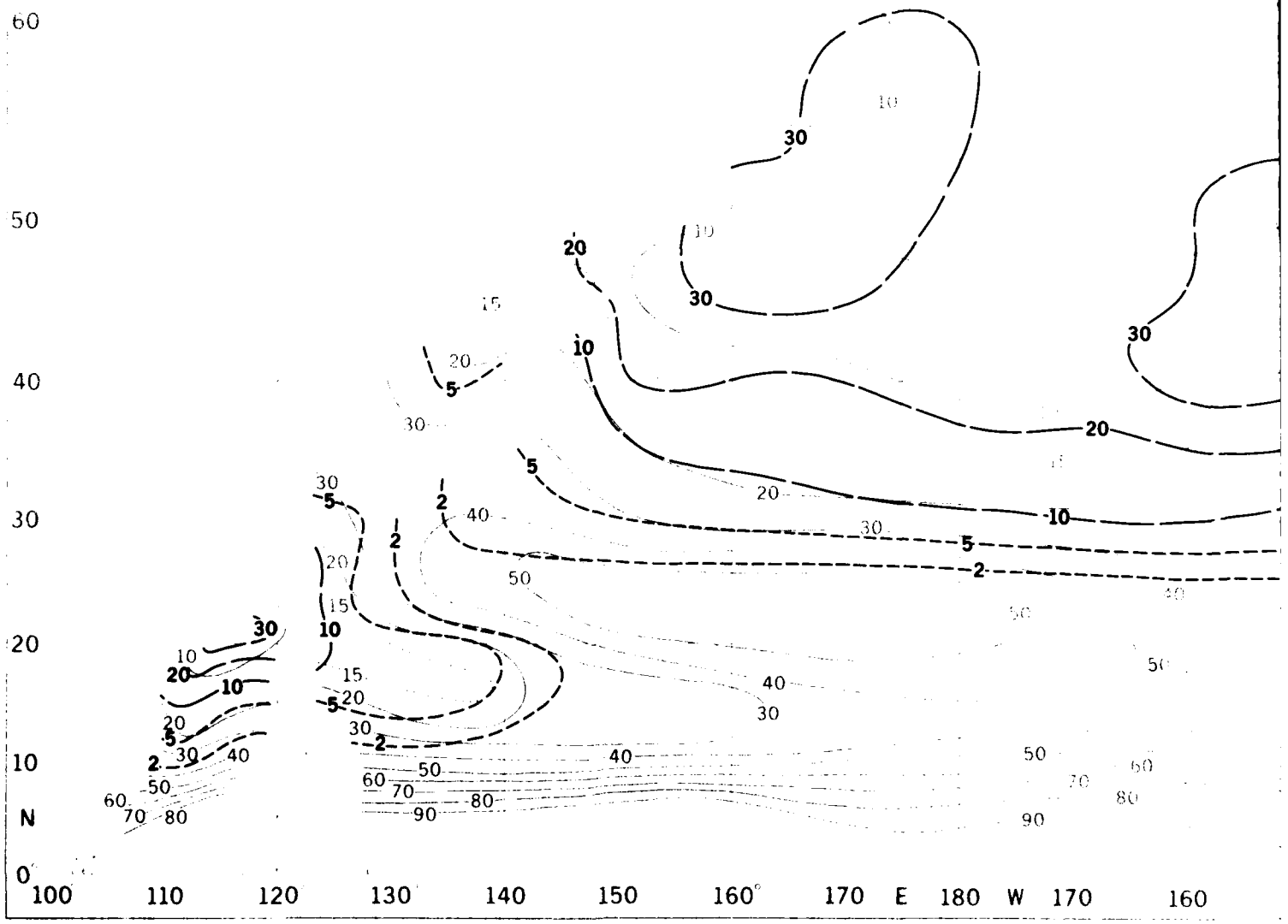
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JANUARY

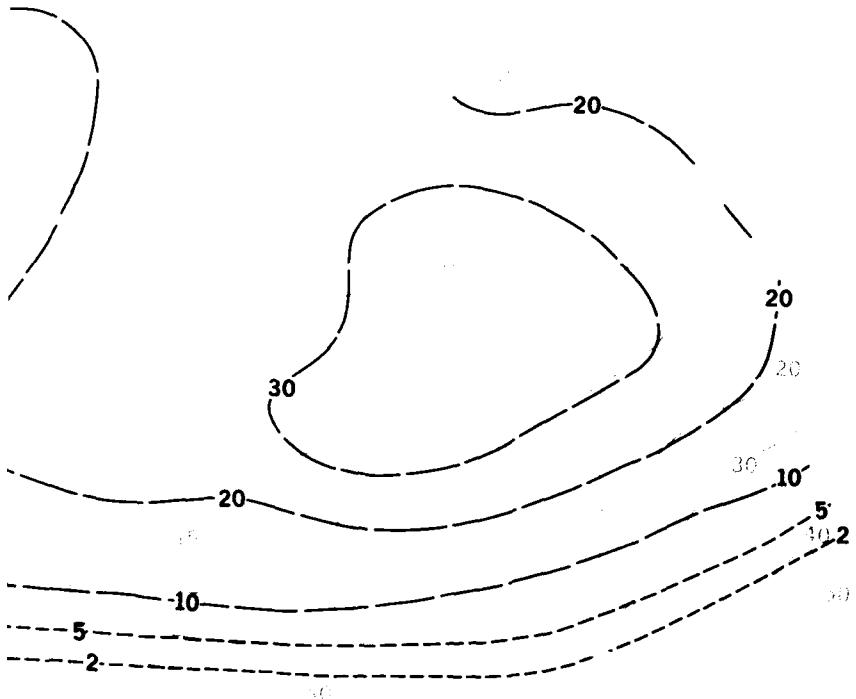
WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

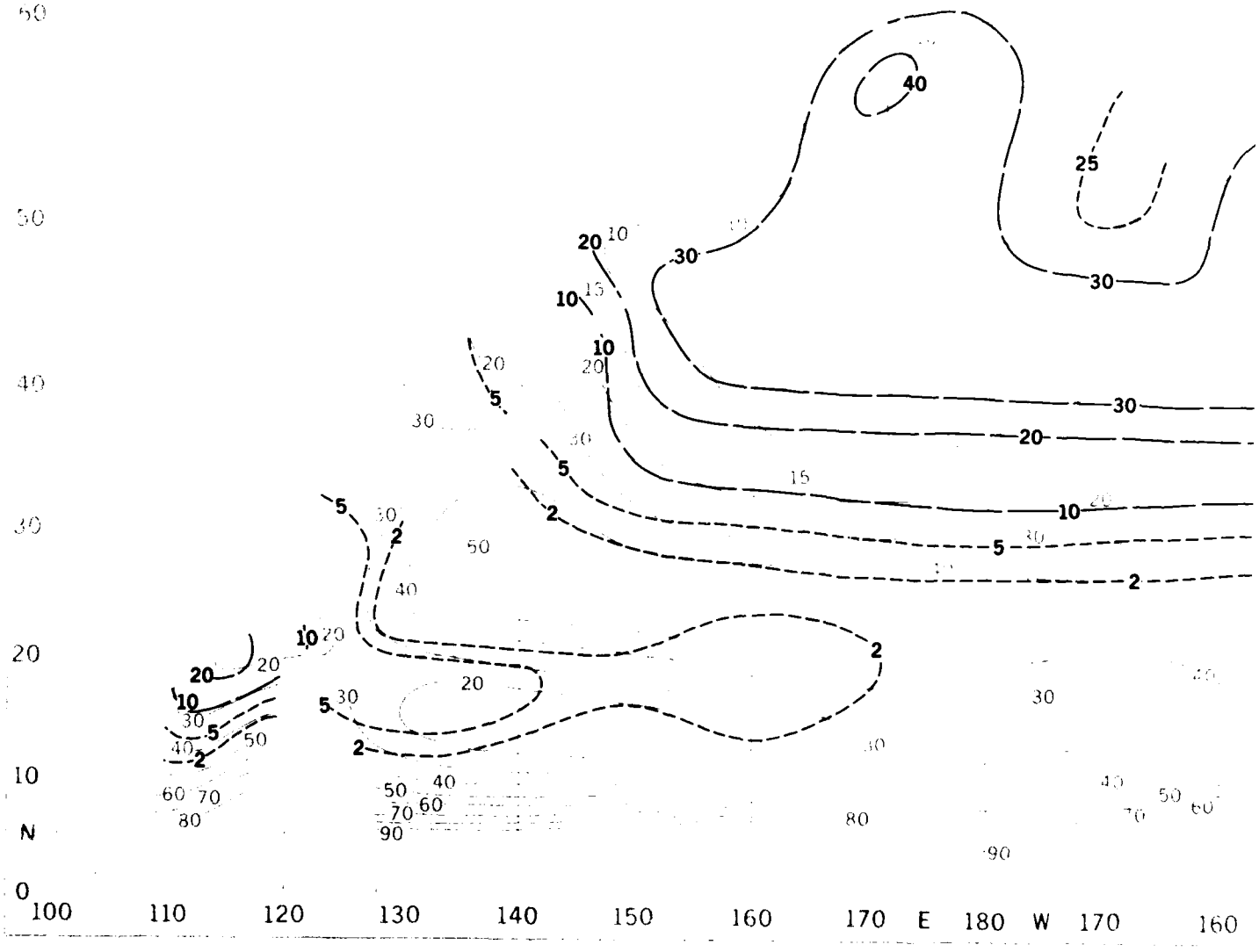


180 W 170 160 150 140 130 120 110

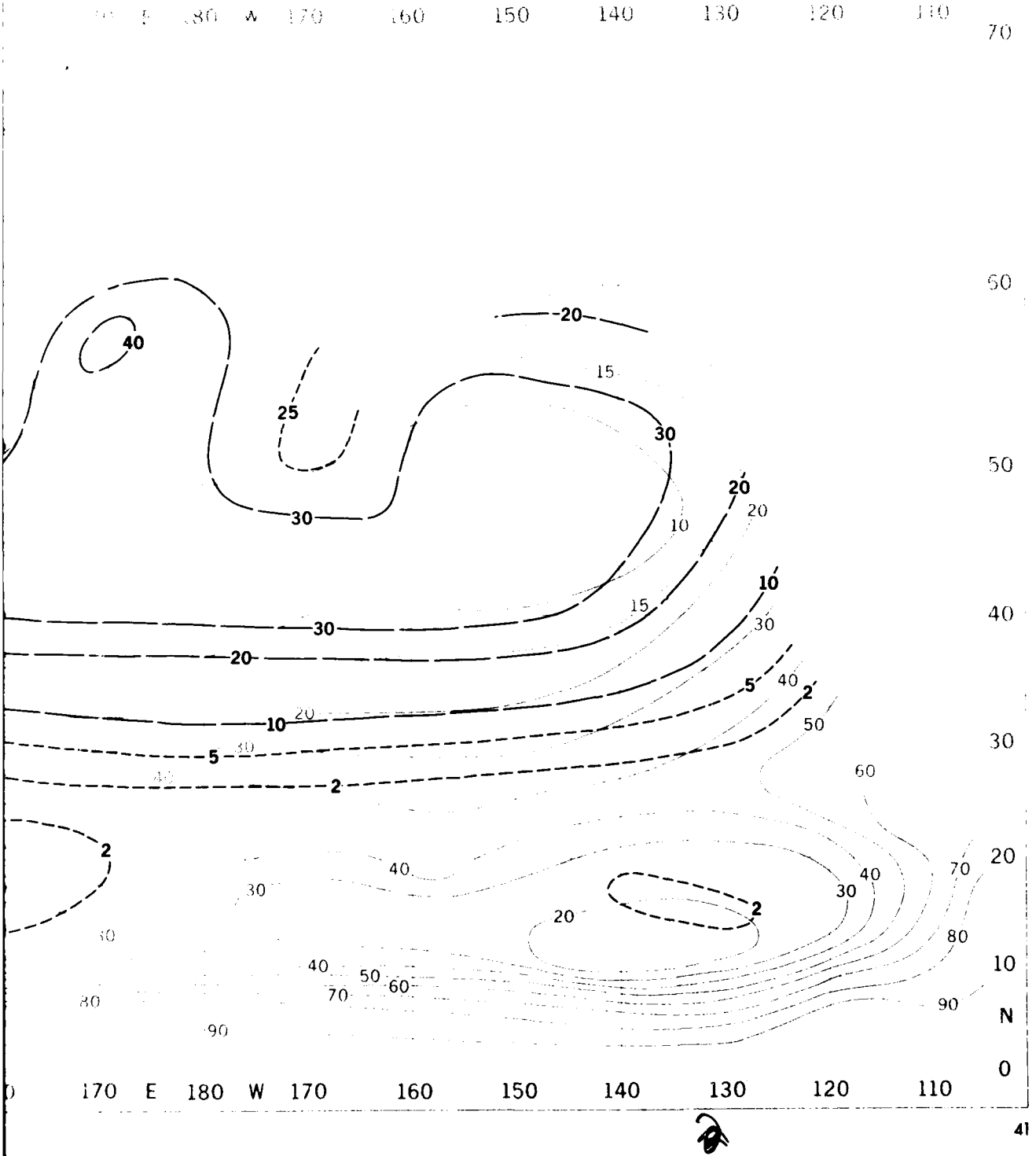
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



FEBRUARY

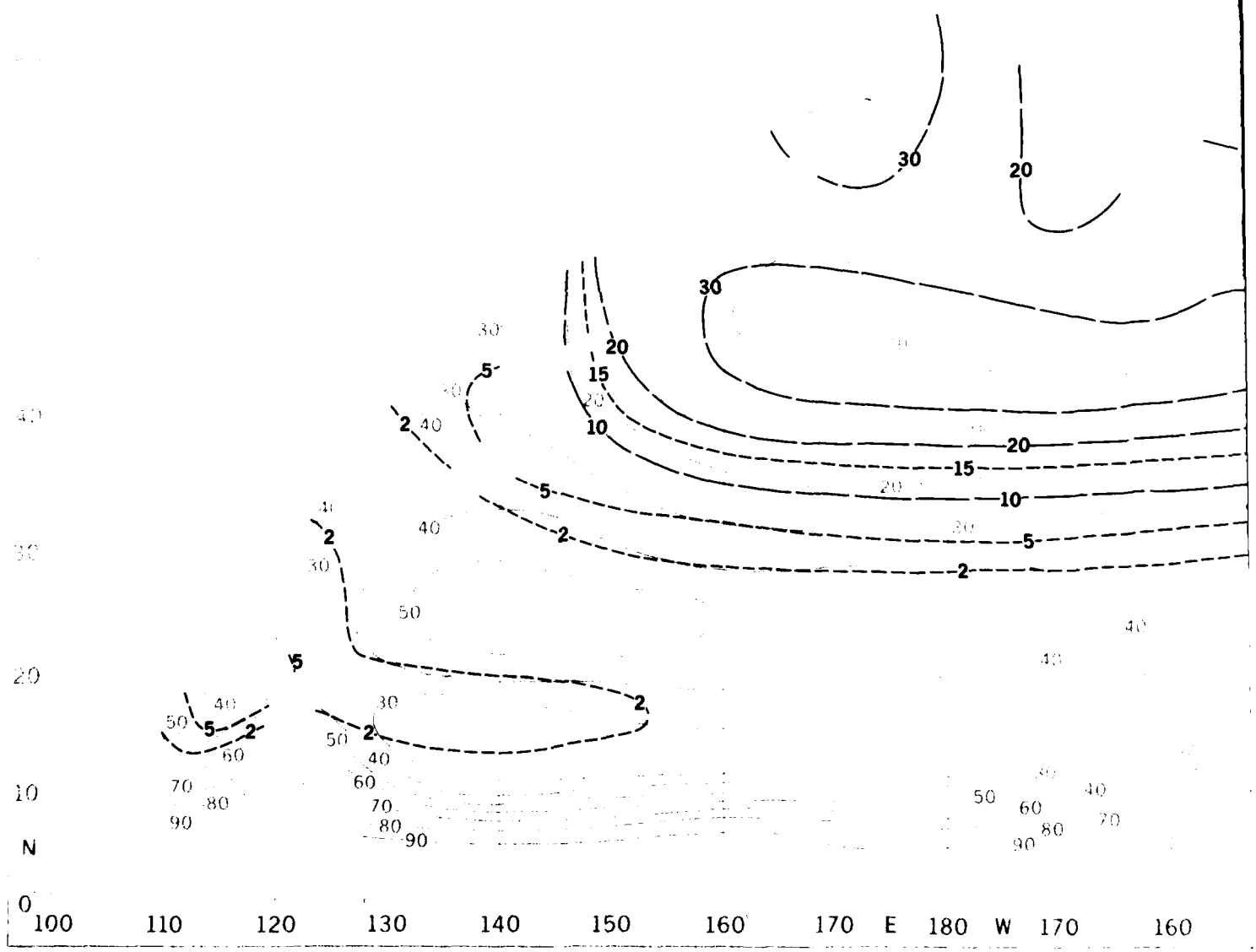

170 E
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41

MARCH

WAVE

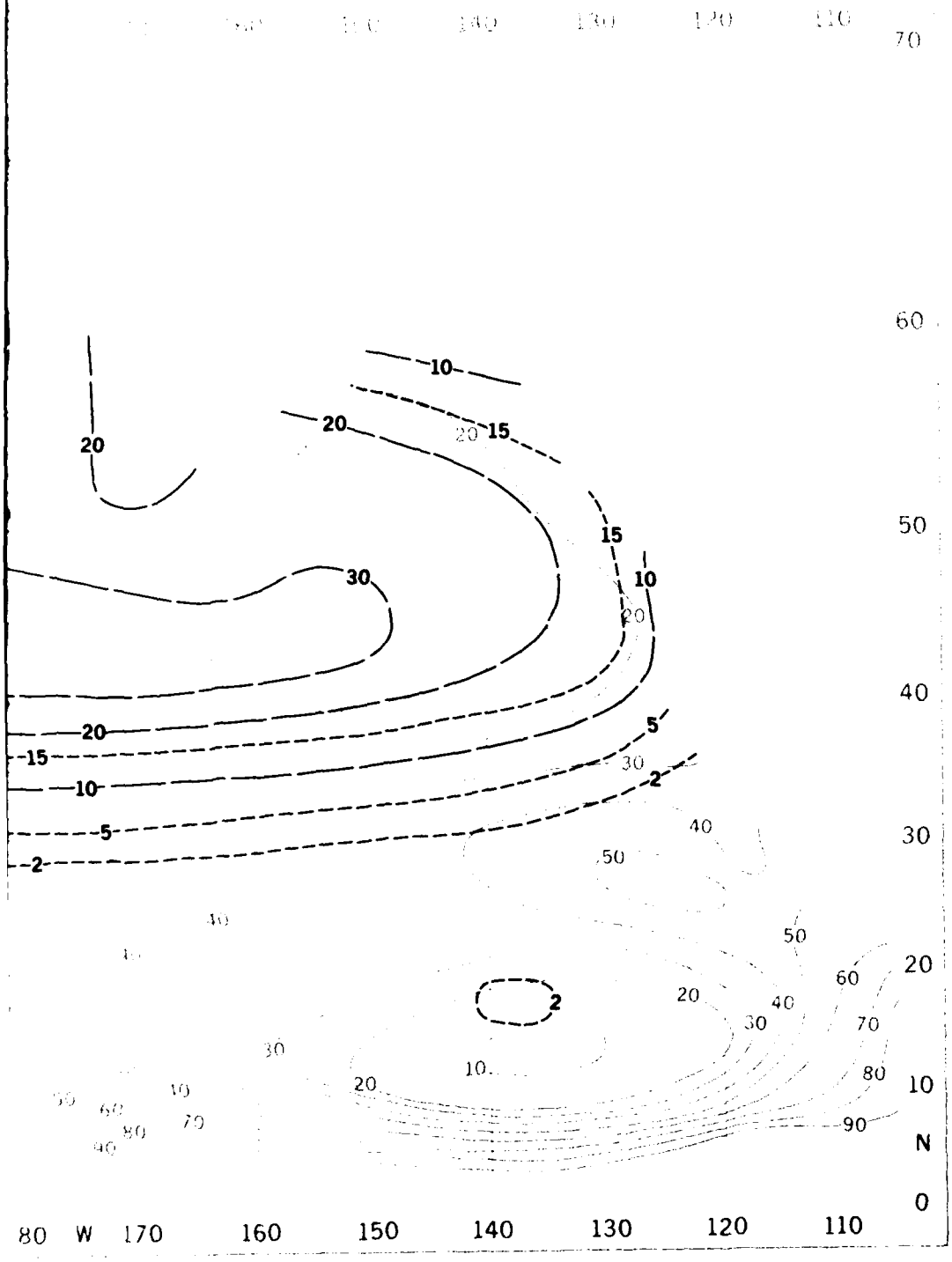
Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



3

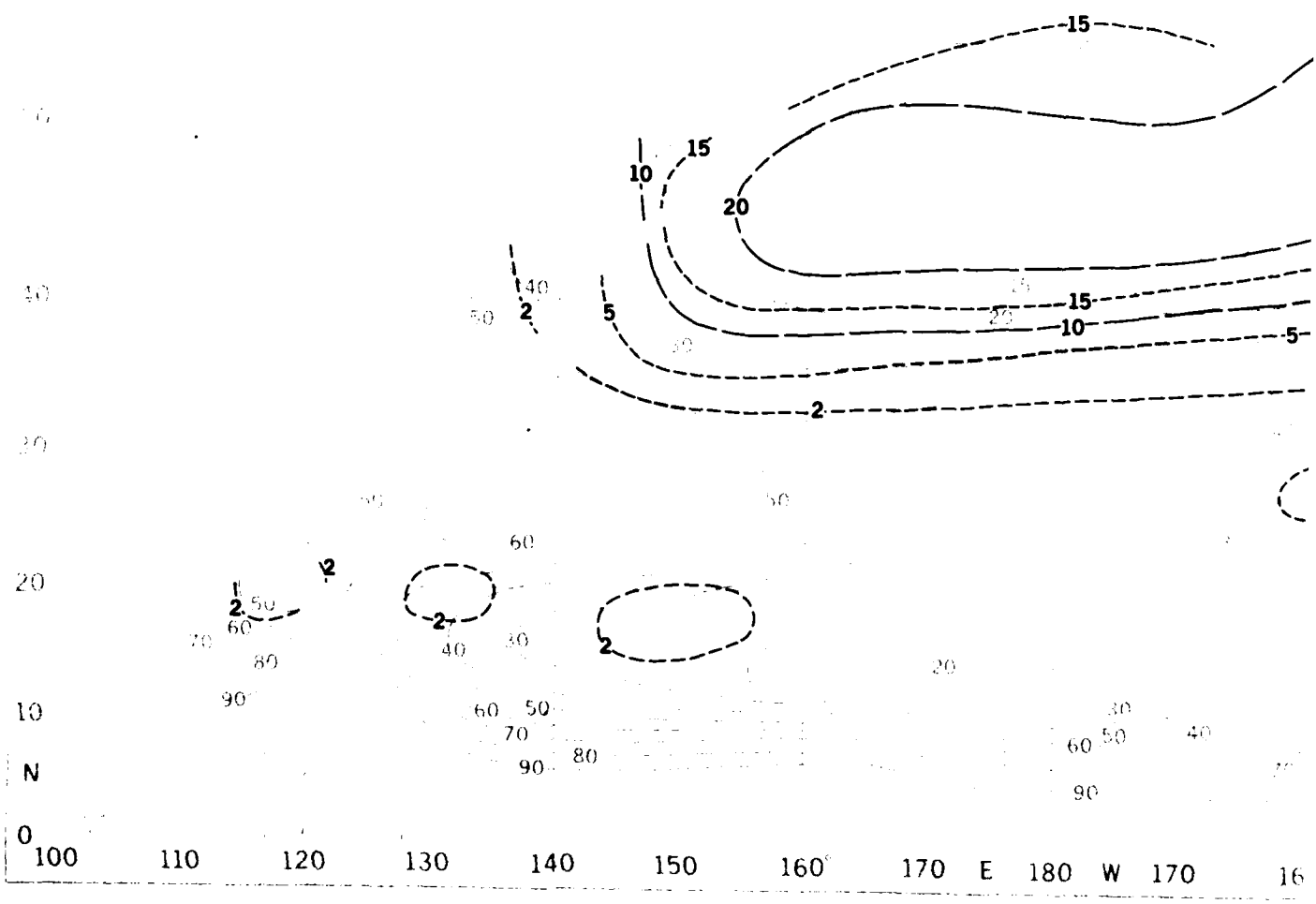
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)



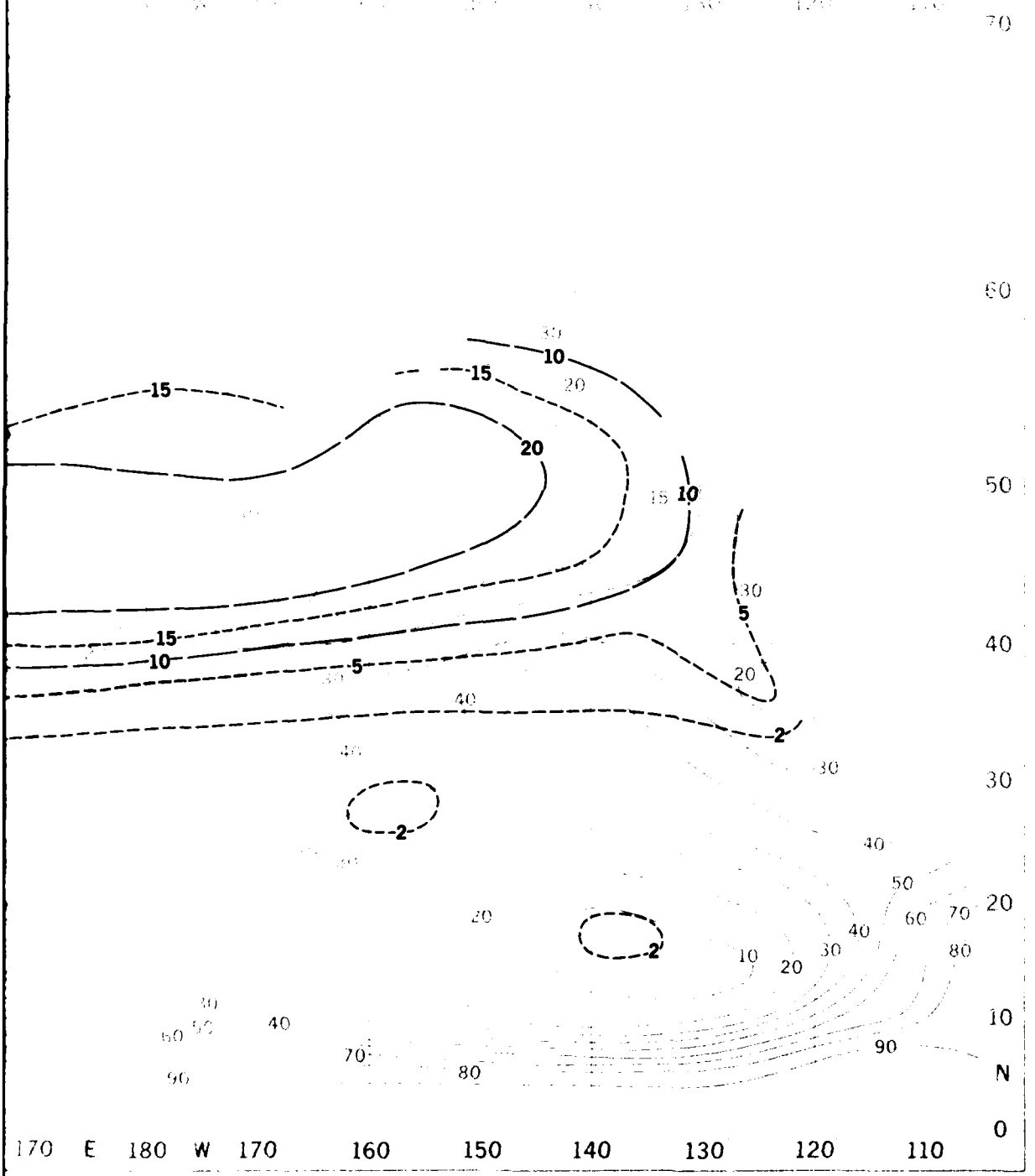
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



APRIL


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170 E 180 W 170 160 150 140 130 120 110
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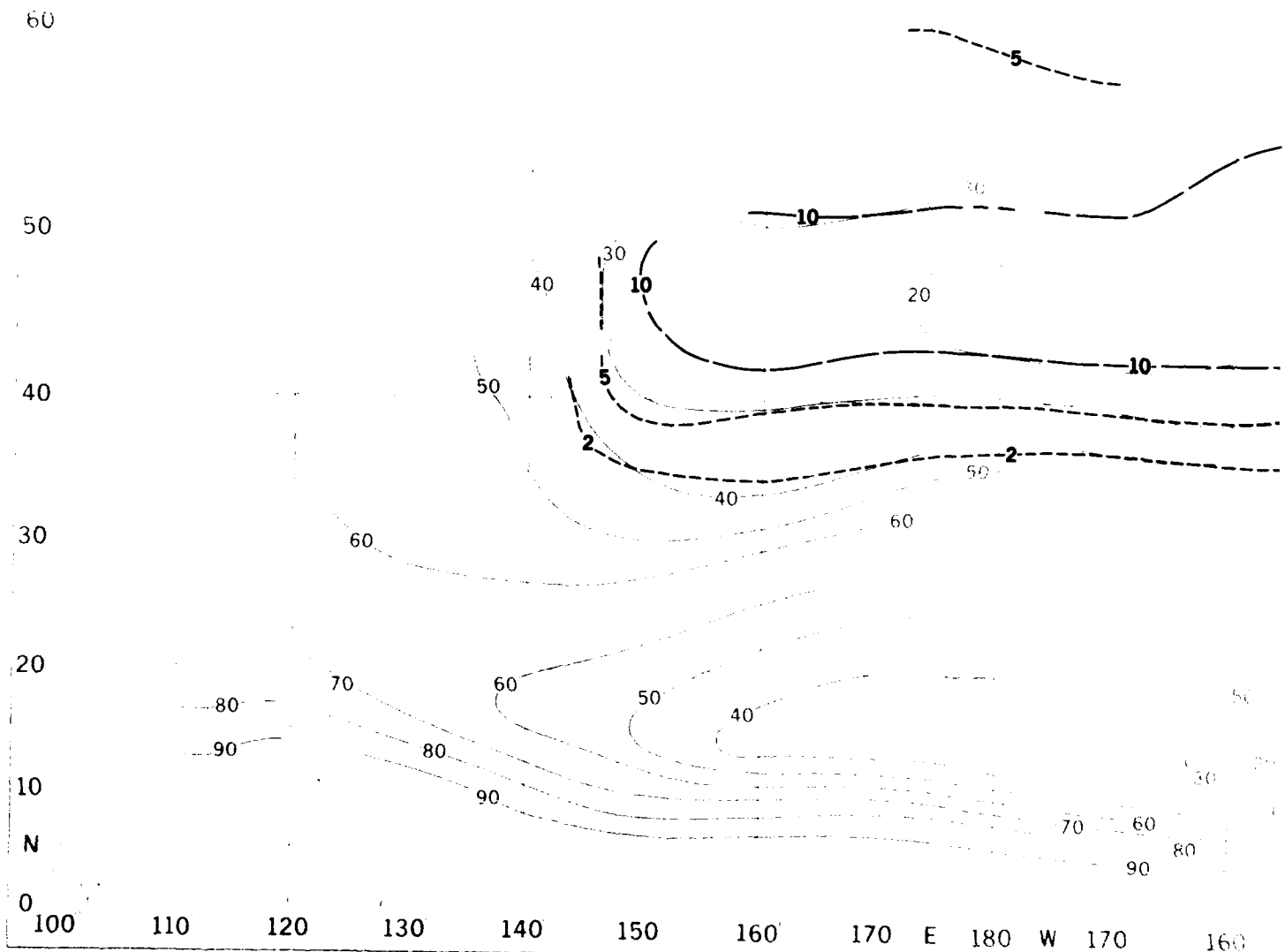
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MAY

WA\

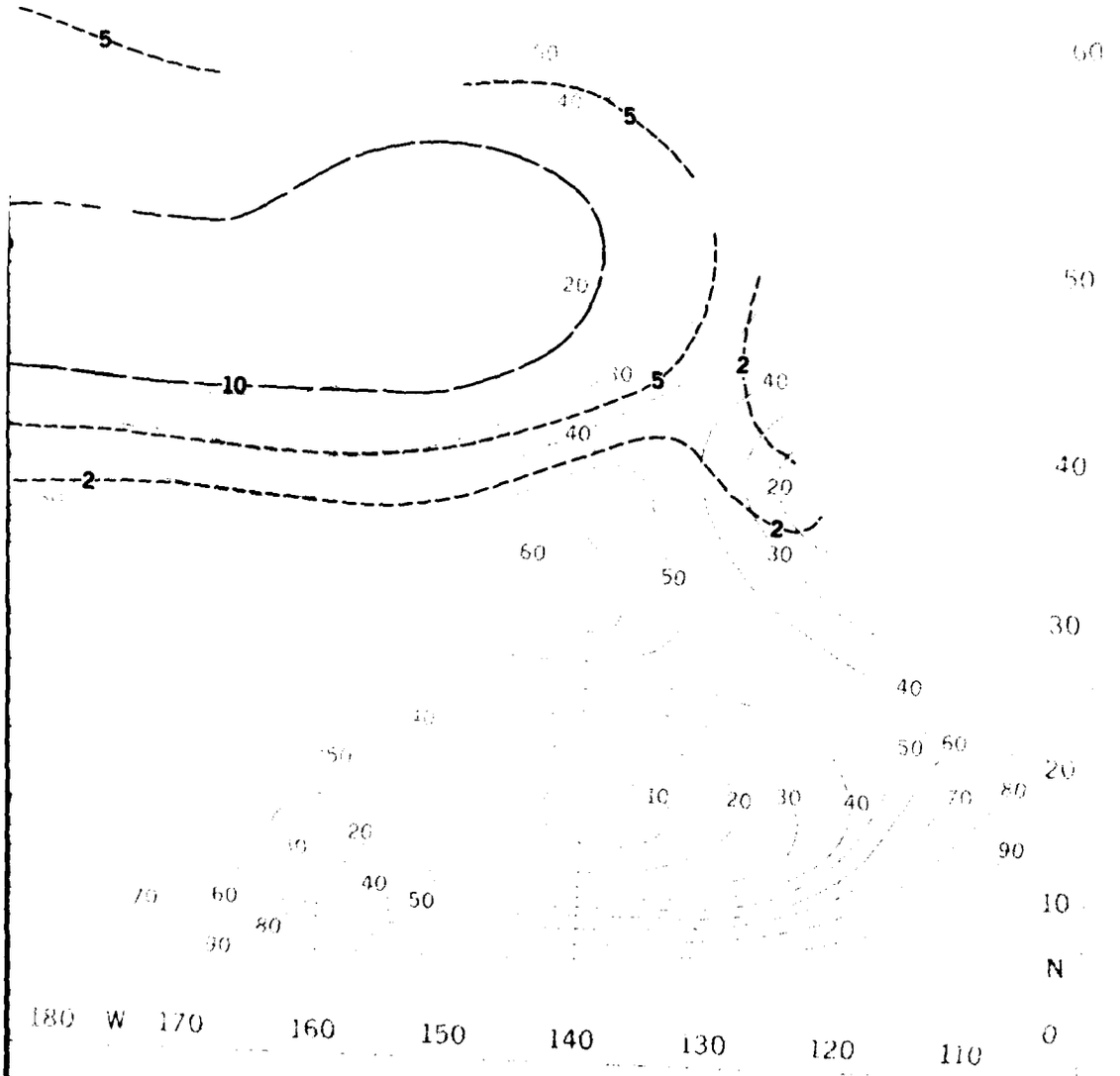
Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



3

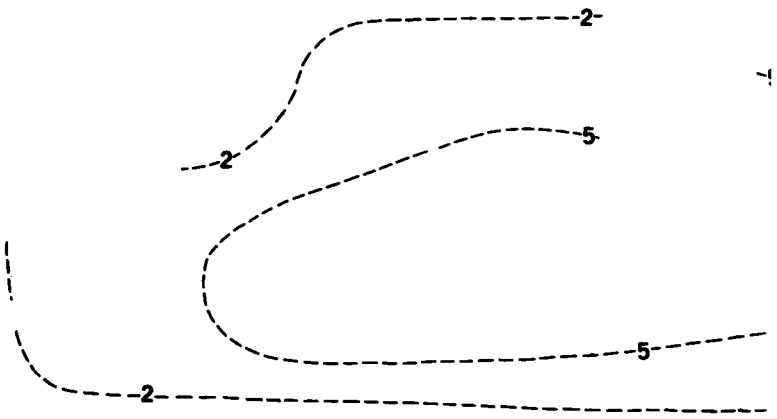
WAVE SLOPE (α) (≤ 0.05 AND ≥ 0.10)



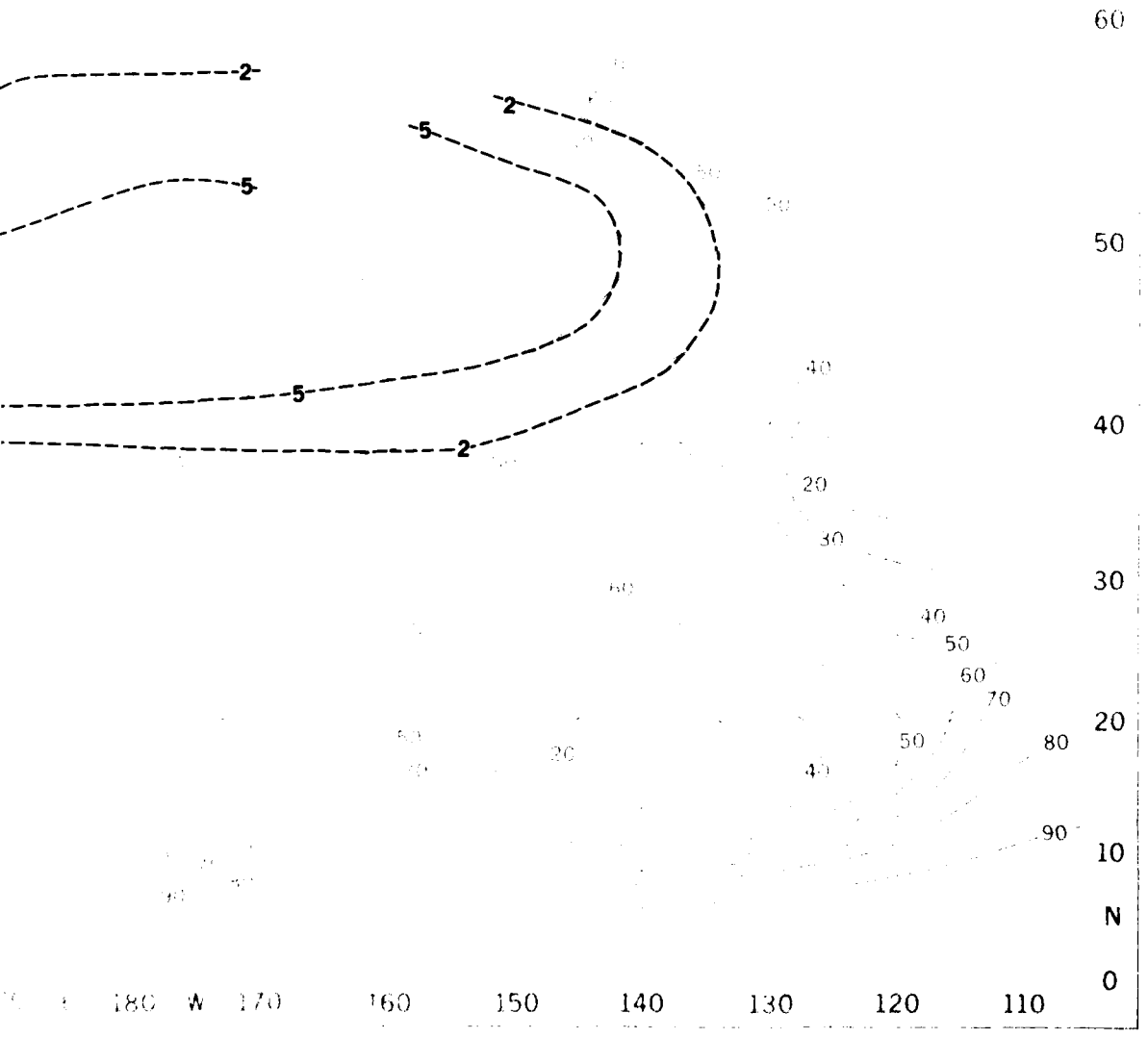
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



JUNE

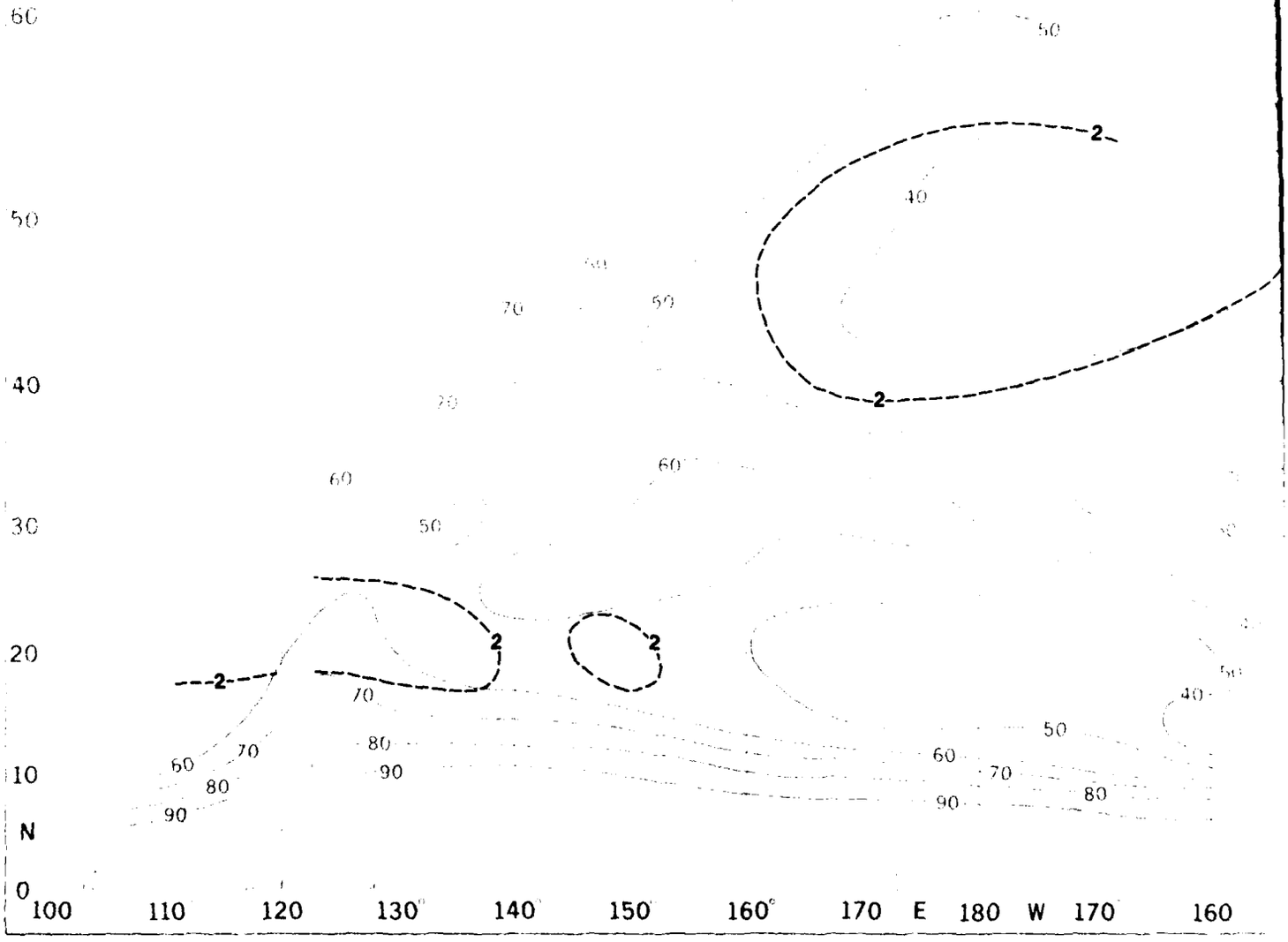


JULY

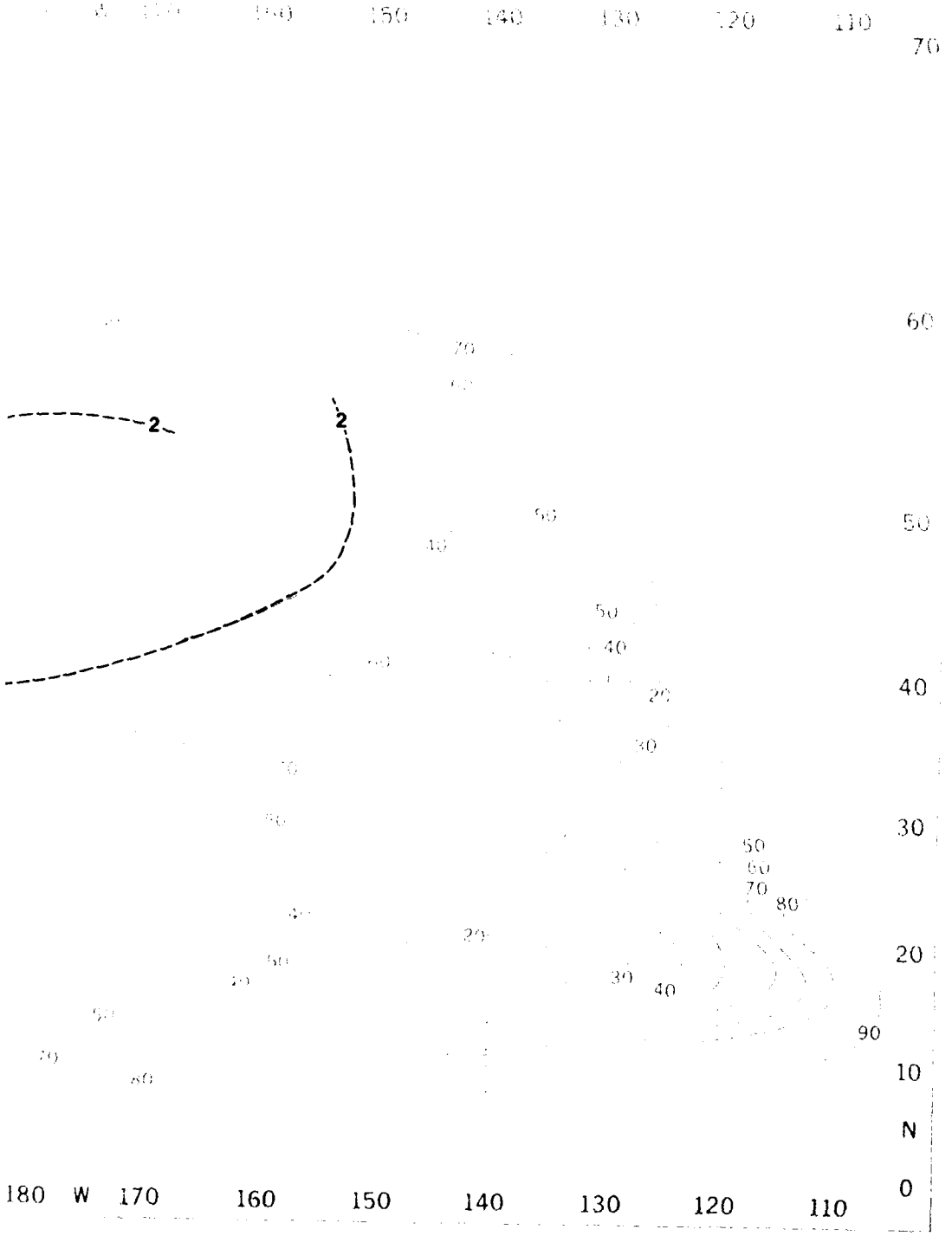
WAV

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

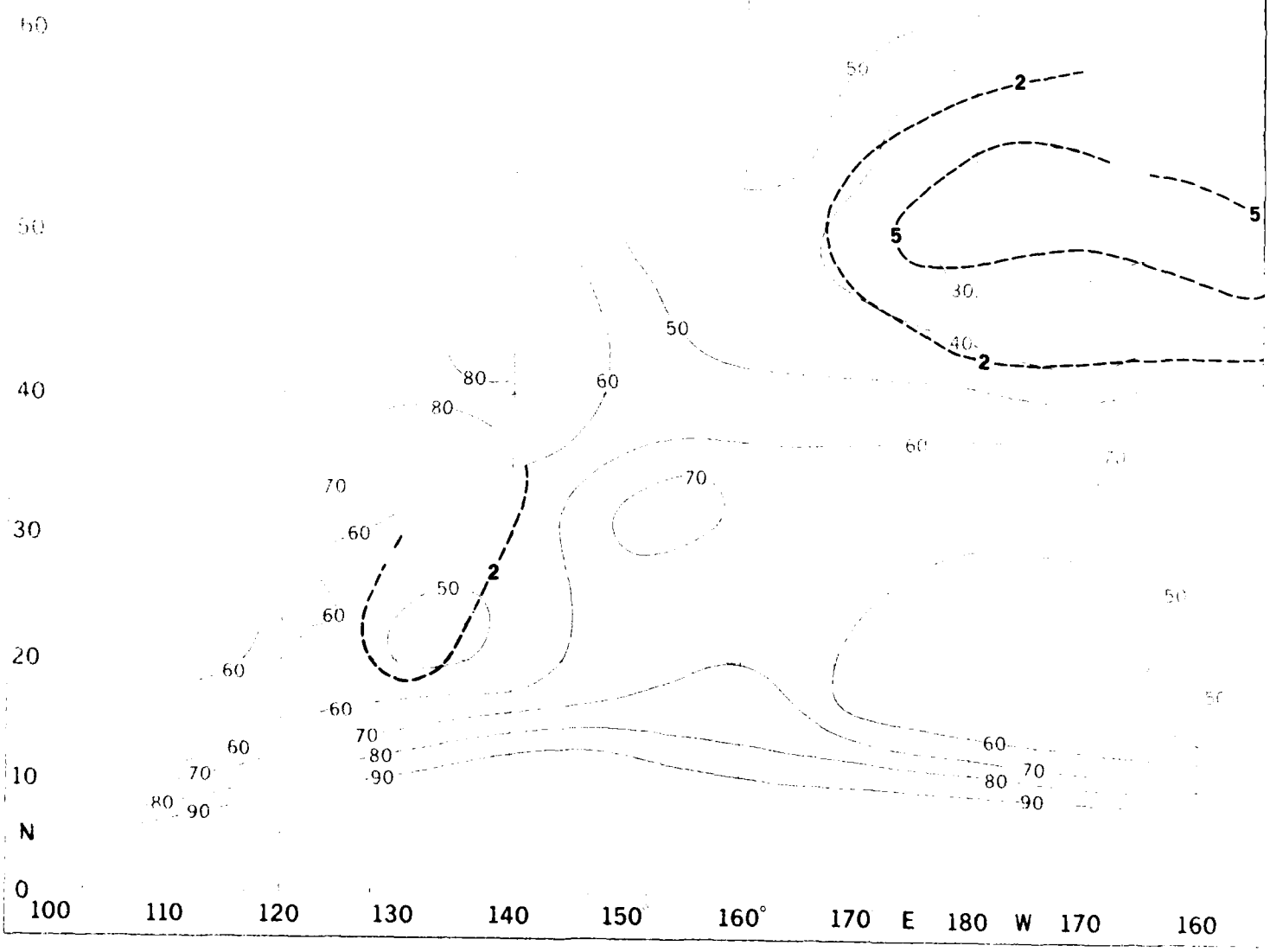


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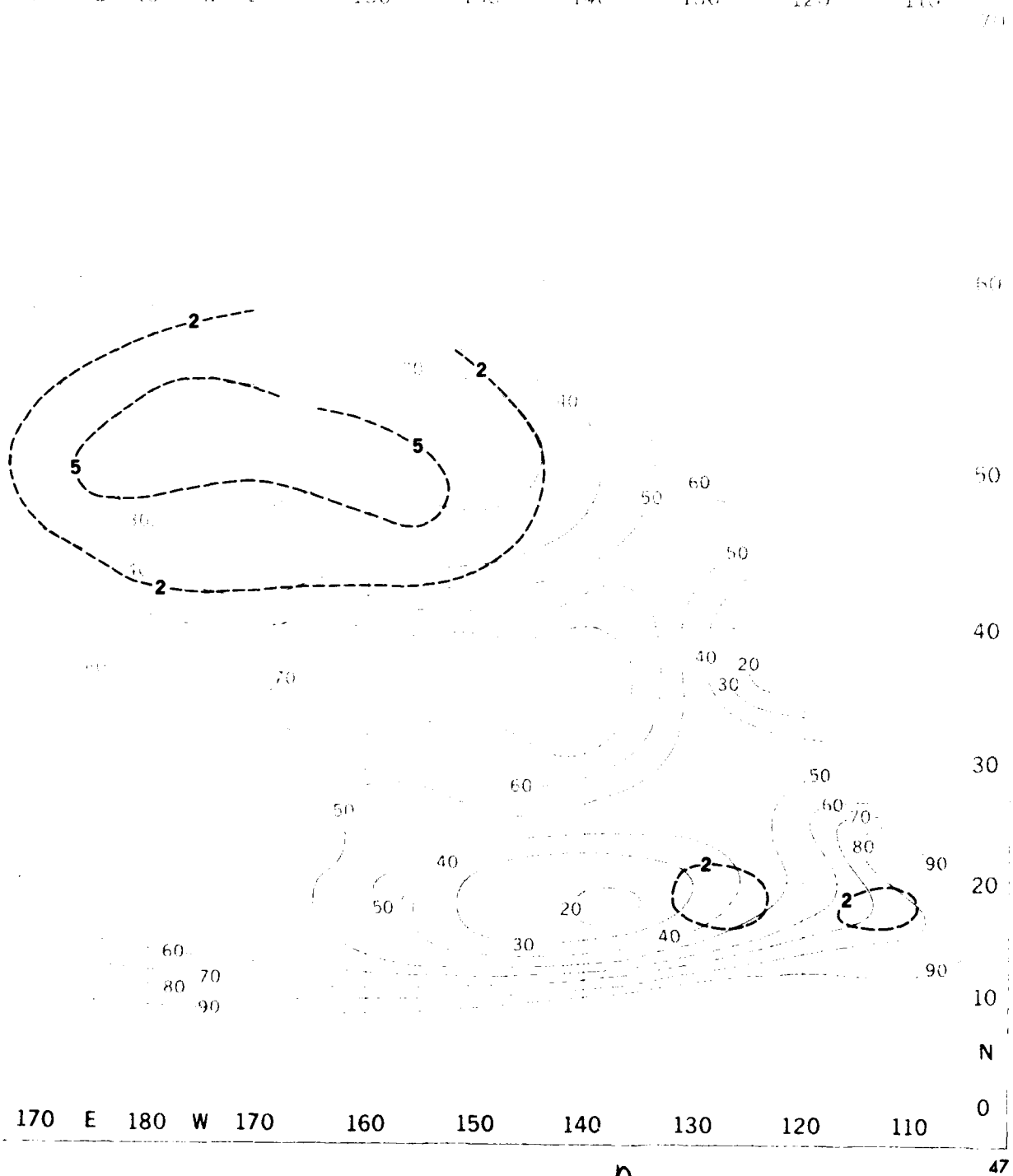
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



AUGUST

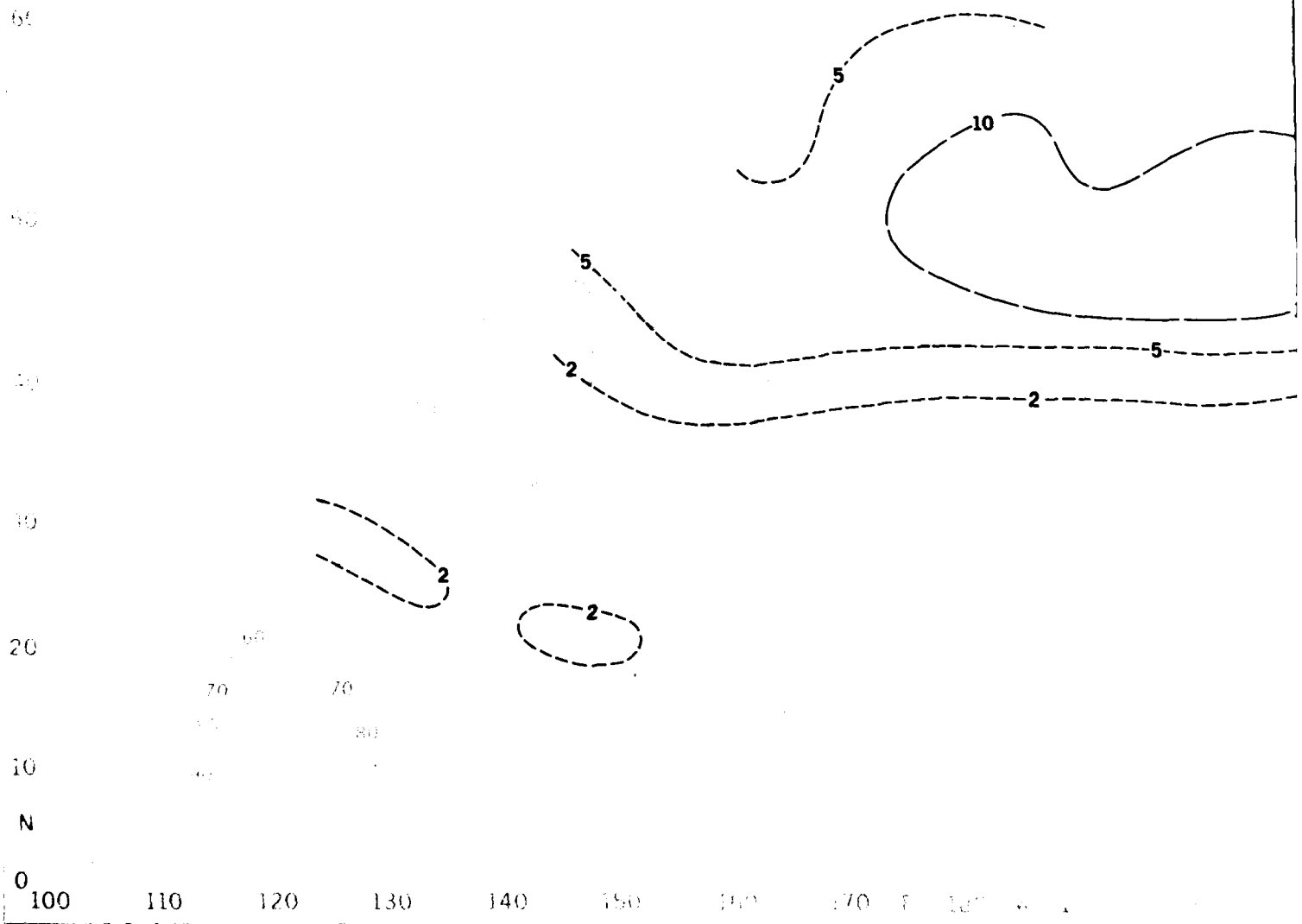

170 E 180 W 170 160 150 140 130 120 110
60 50 40 30 20 10 N 0
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SEPTEMBER

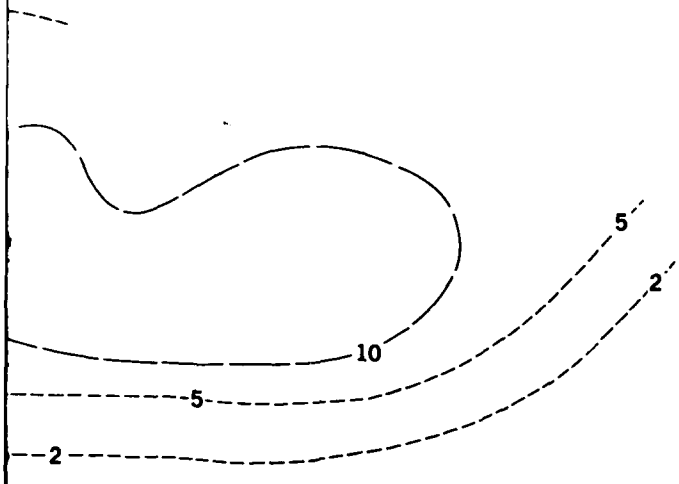
WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



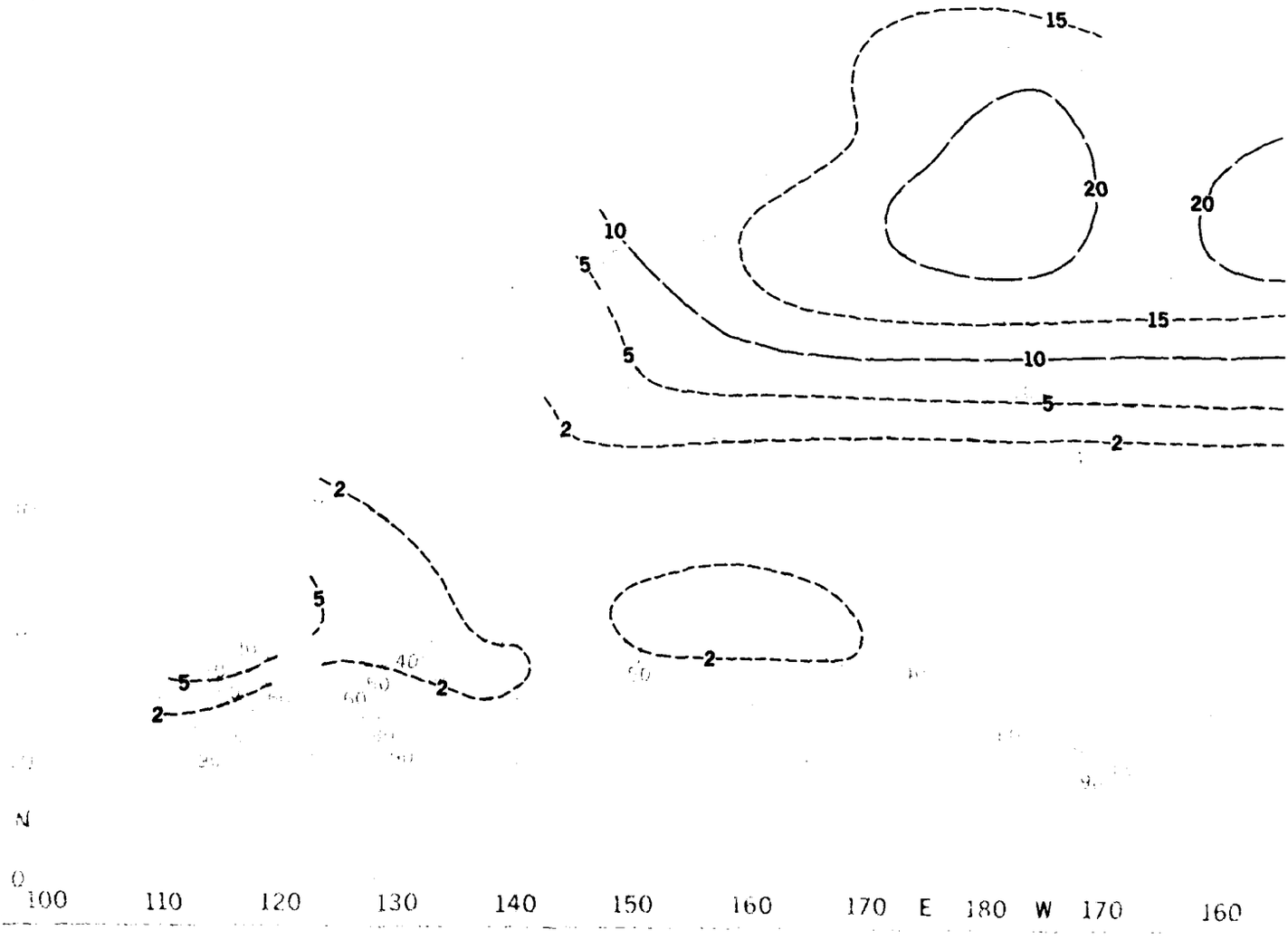
WAVE SLOPE (α) (≤ 0.05 AND ≥ 0.10)



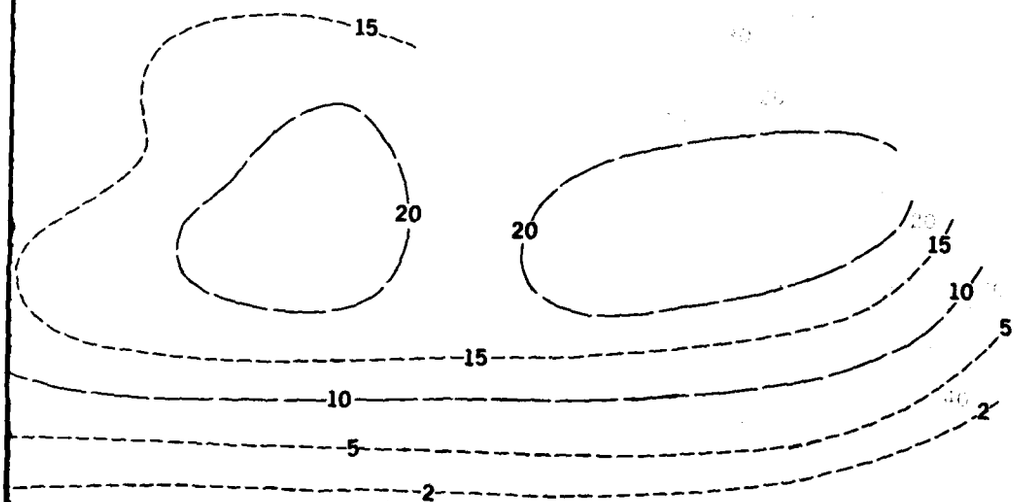
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



OCTOBER

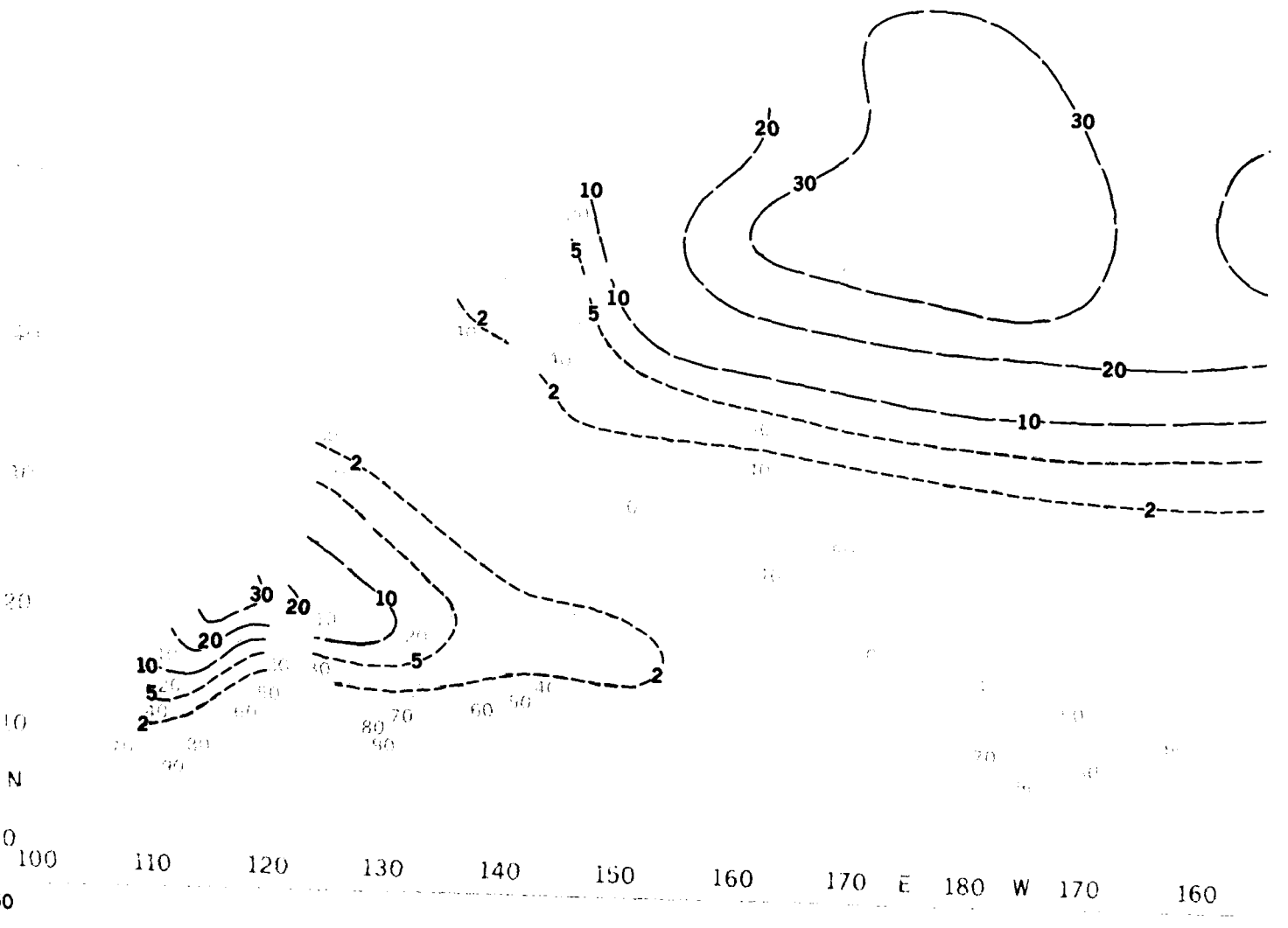


NOVEMBER

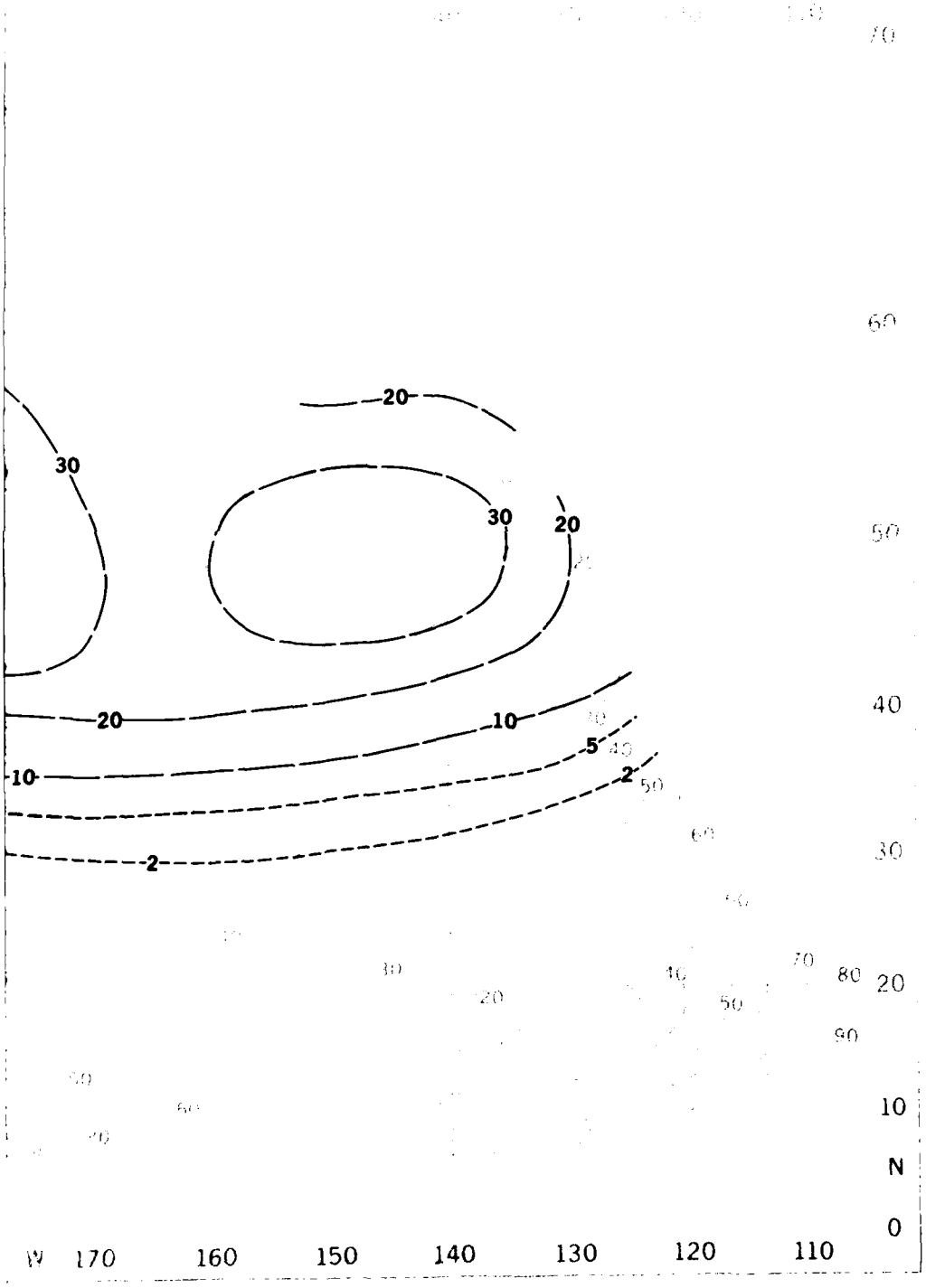
WA

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10



WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

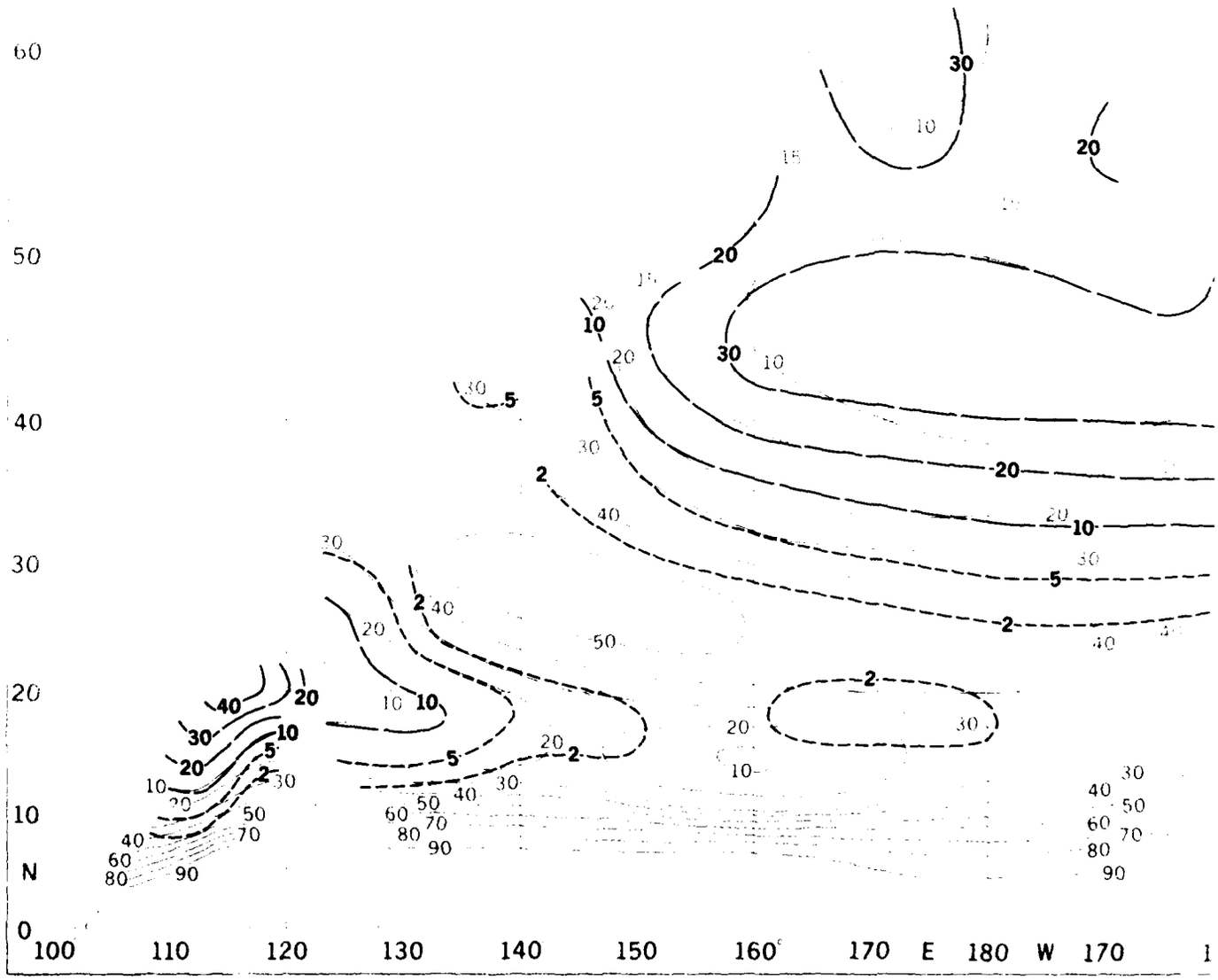


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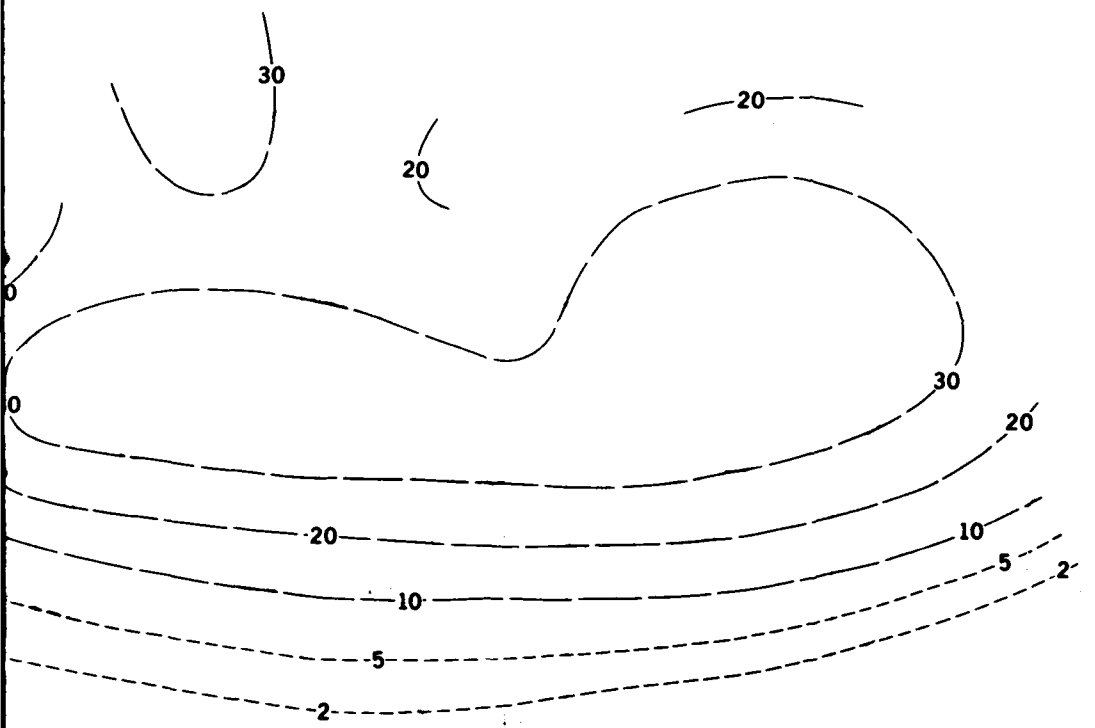
WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) $\leq$0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) $\geq$0.10



DECEMBER



10
N
0

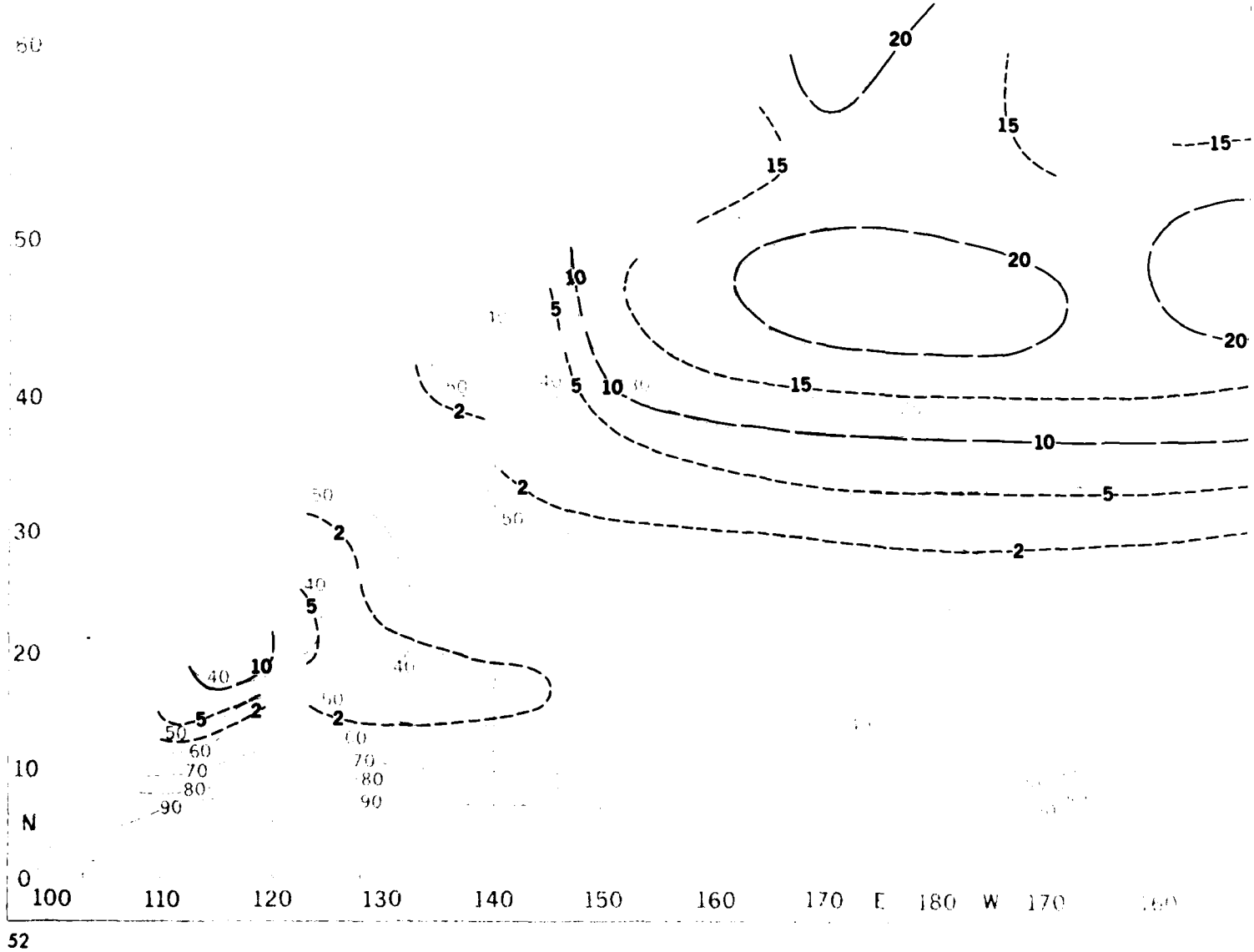
160 170 E 180 W 170 160 150 140 130 120 110

51

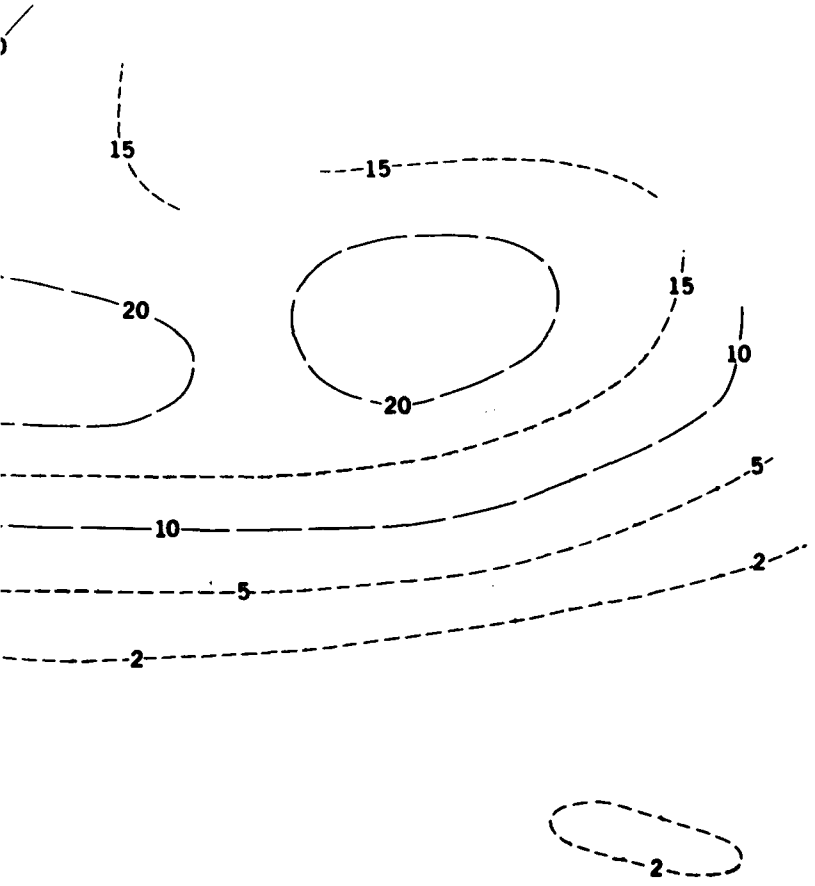
ANNUAL WAVE

Solid Lines (dotted intermediates) - Percent frequency of wave slope parameter (α) ≤ 0.05

Dashed Lines (short intermediates) - Percent frequency of wave slope parameter (α) ≥ 0.10

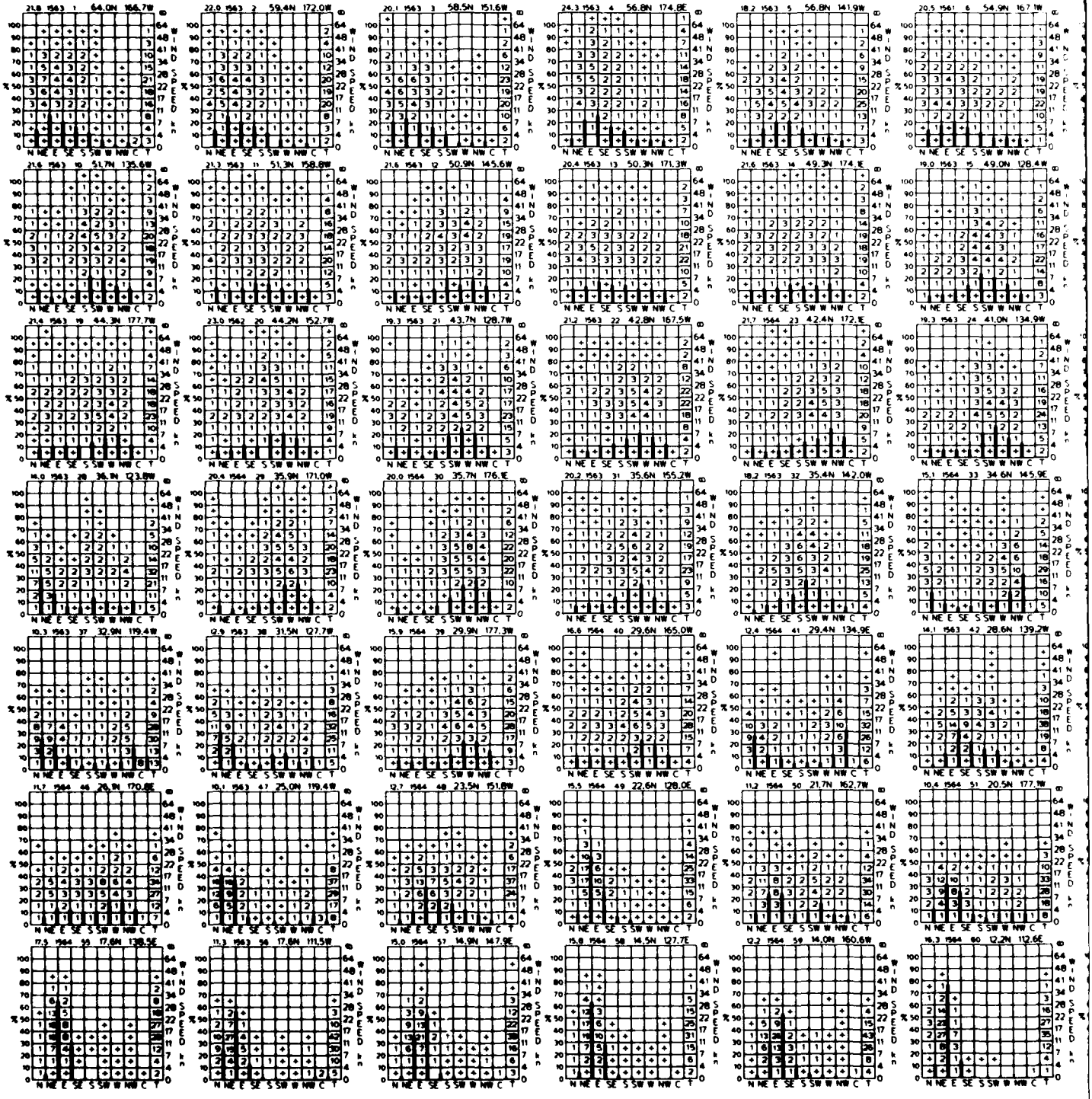


WAVE SLOPE (α) ($\leq$0.05 AND $\geq$0.10)

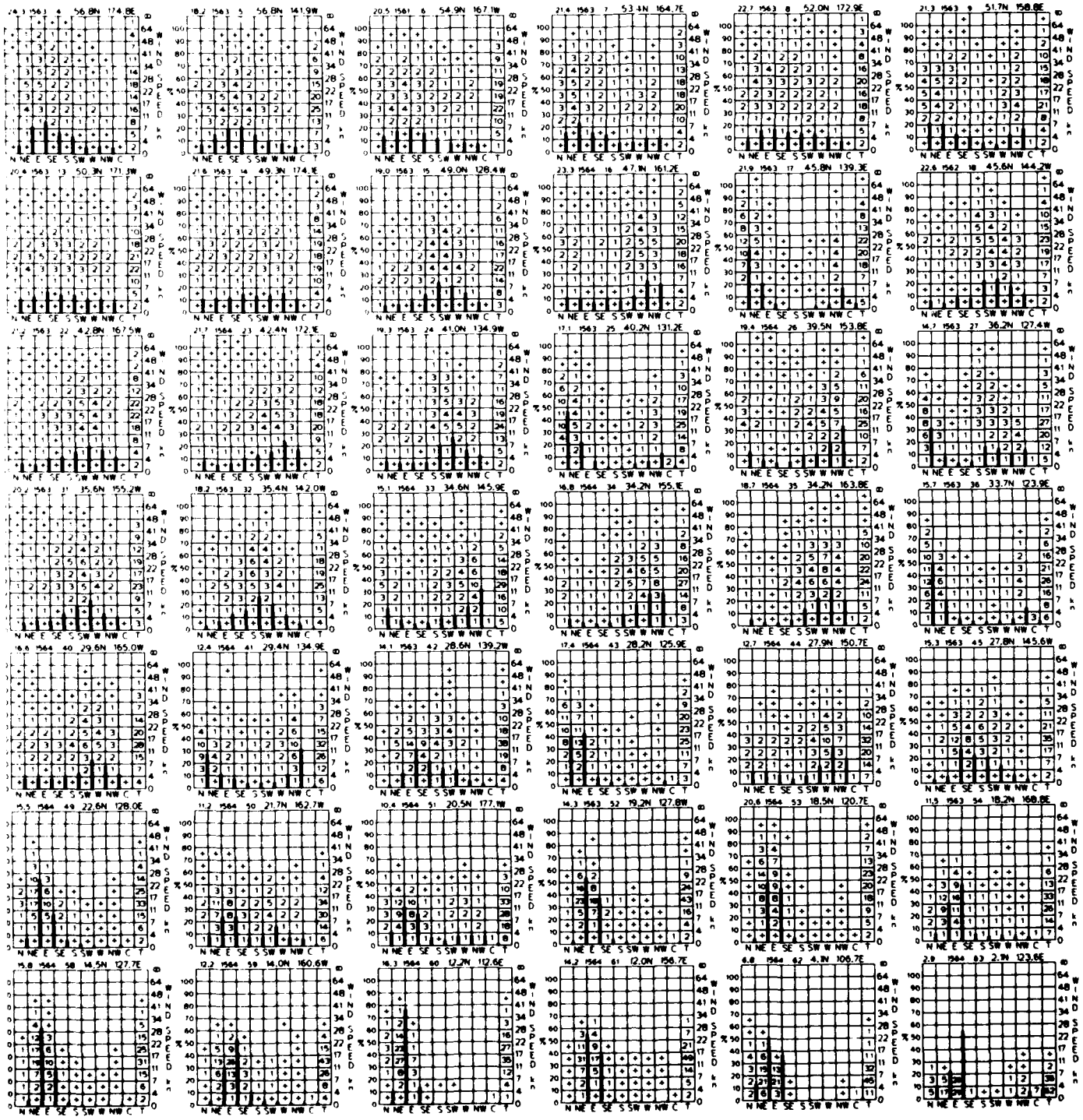


180 W 170 160 150 140

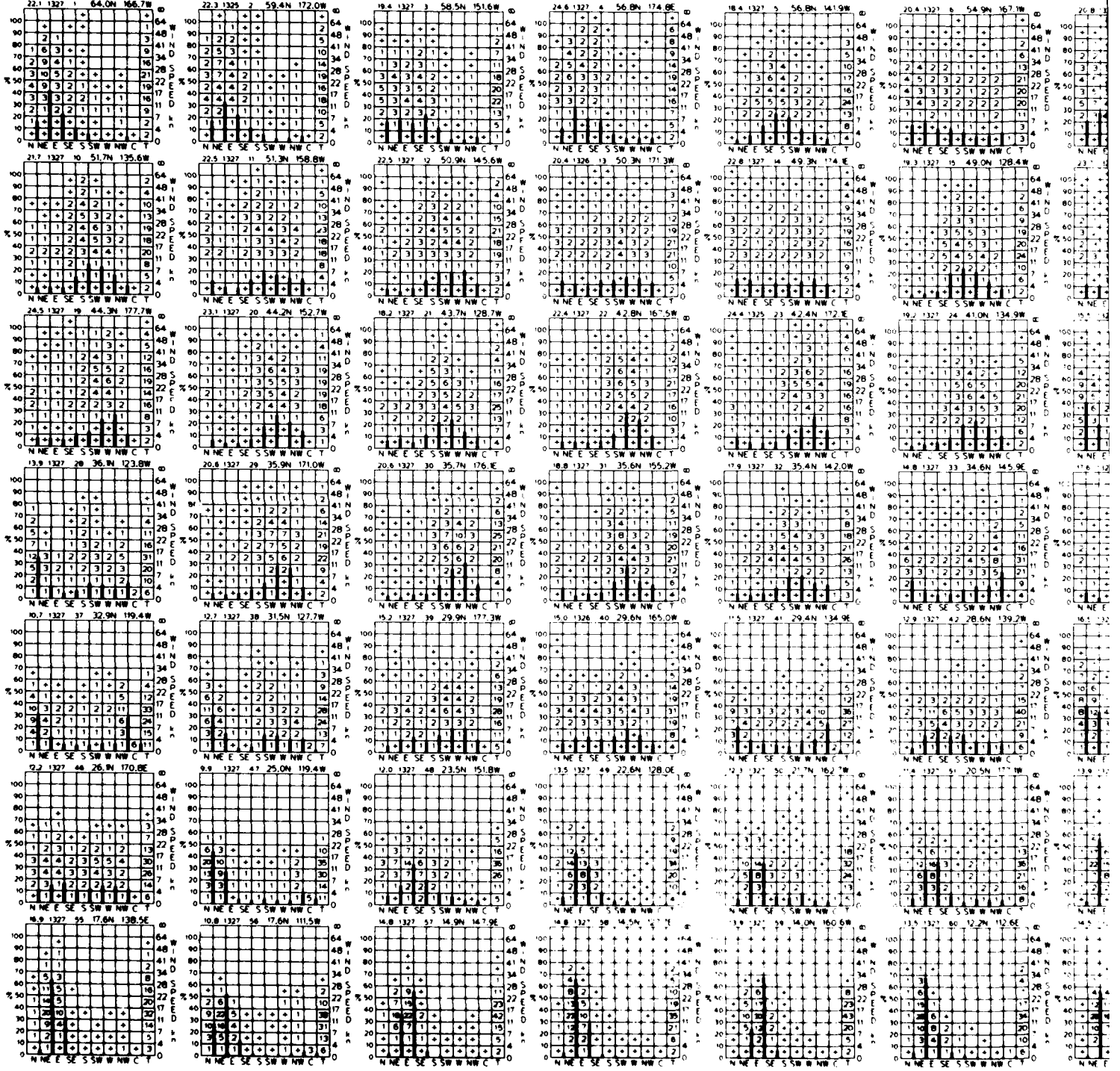
WIND DIRECTION AND SPEED



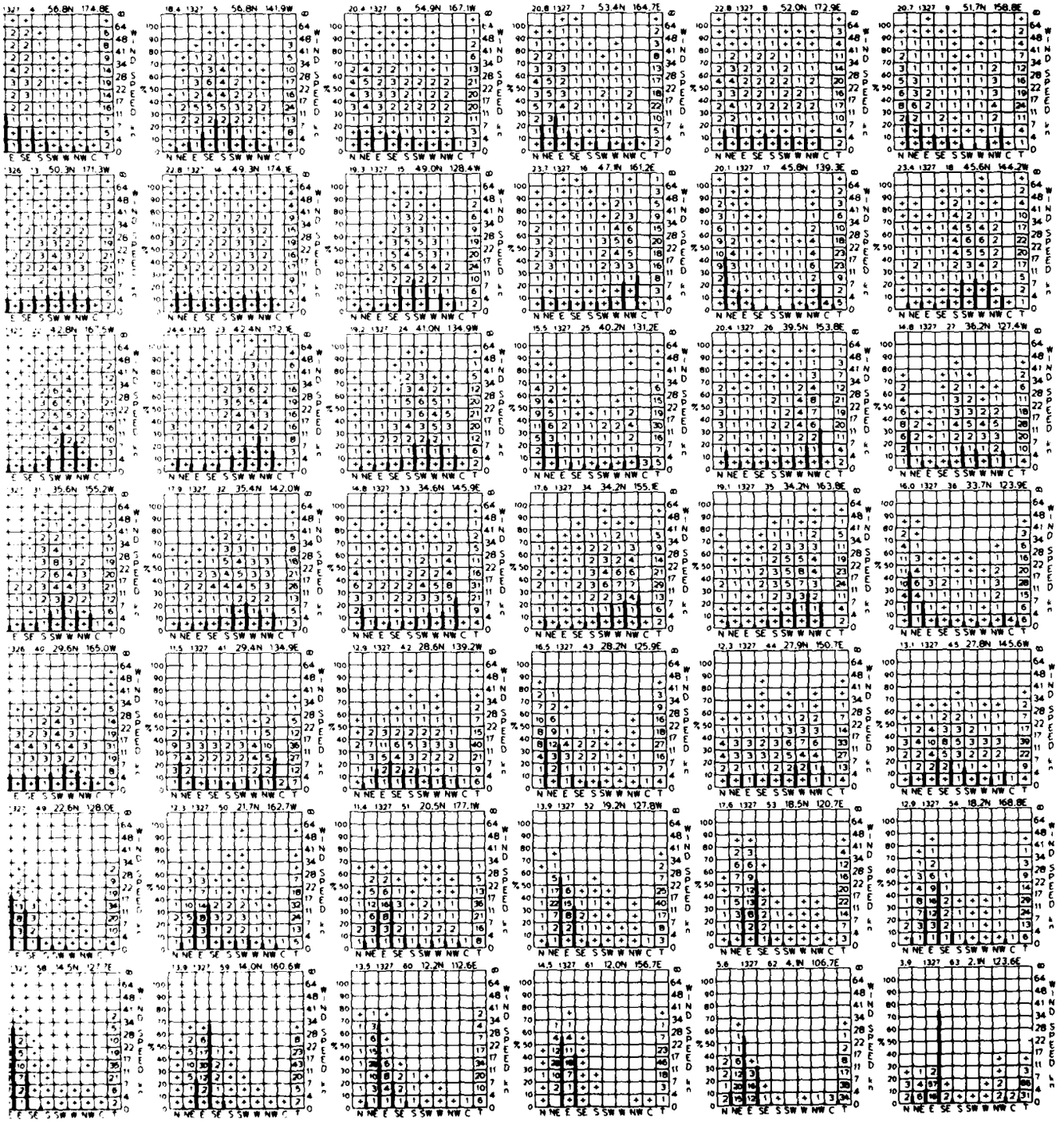
JANUARY



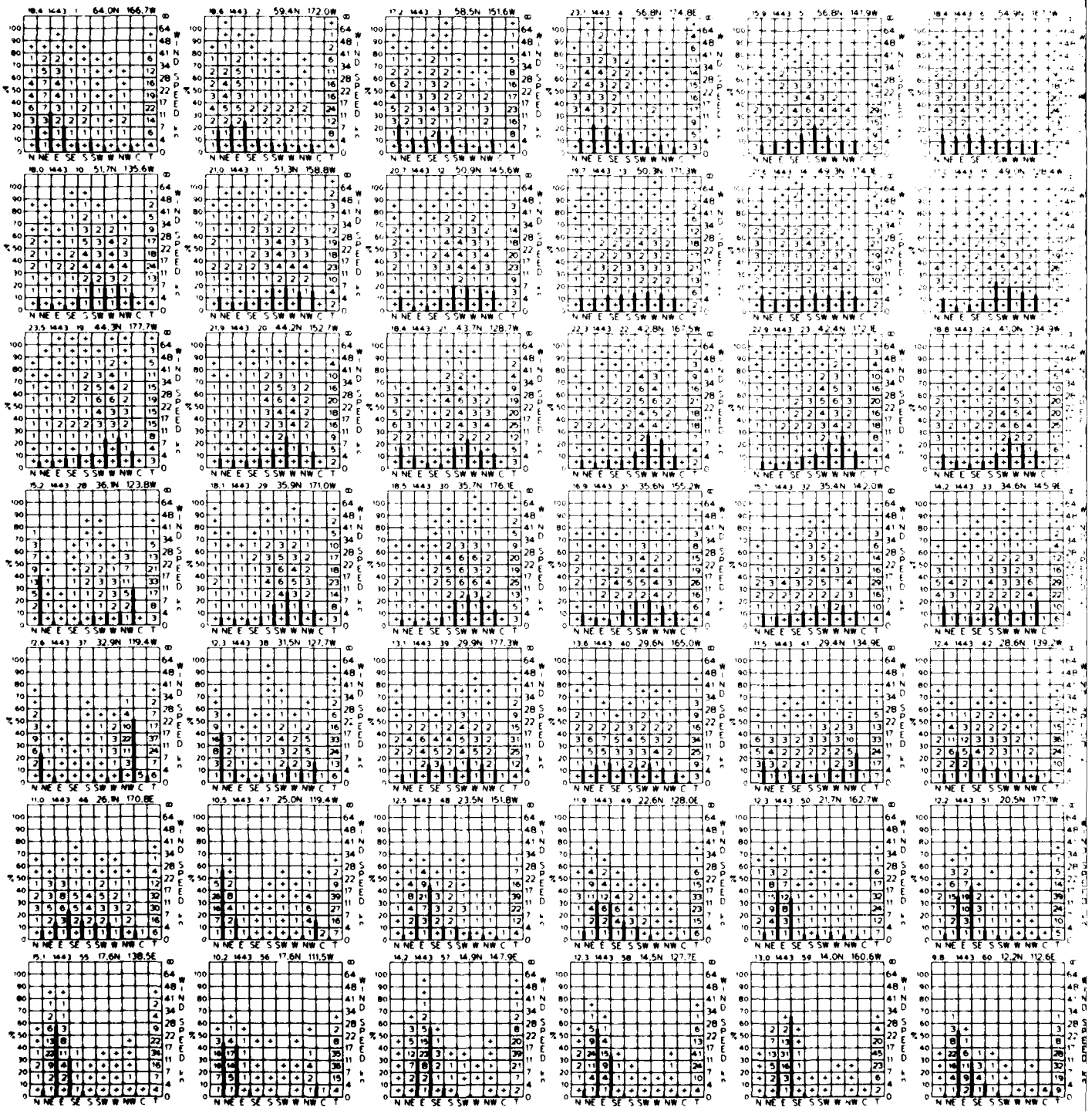
FEBRUARY

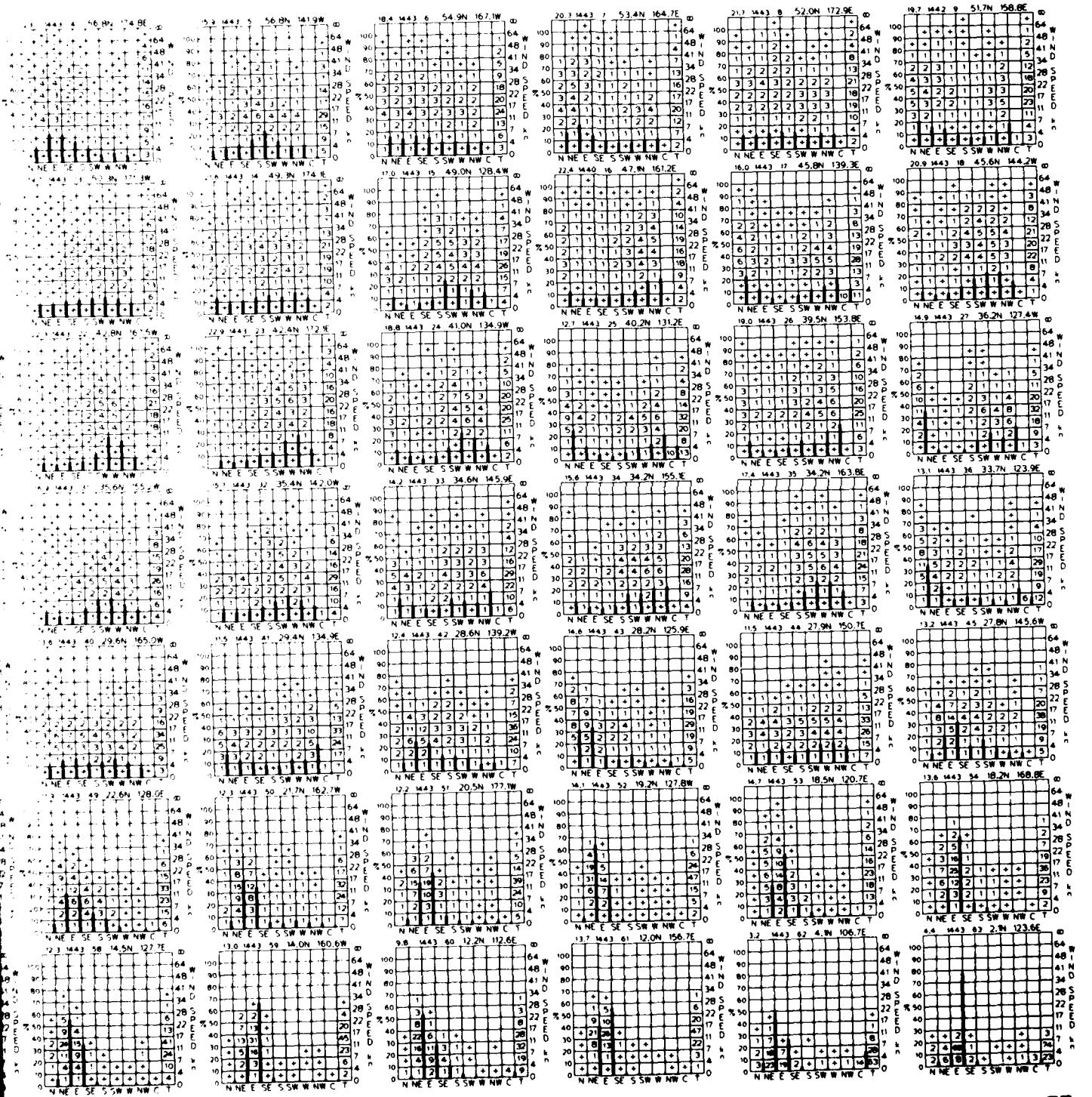

22.1 1327 1 64.0N 166.7W
22.3 1325 2 59.4N 172.0W
19.4 1327 3 58.5N 151.6W
24.6 1327 4 56.8N 174.8E
18.4 1327 5 56.8N 141.9W
20.4 1327 6 54.9N 167.1W
21.7 1327 10 51.7N 135.6W
22.5 1327 11 51.3N 158.8W
22.5 1327 12 50.9N 145.6W
20.4 1326 13 50.3N 171.3W
22.8 1327 14 49.3N 174.1E
19.3 1327 15 49.0N 128.4W
24.5 1327 19 44.3N 177.7W
23.1 1327 20 44.2N 152.7W
18.2 1327 21 43.7N 128.7W
22.4 1327 22 42.8N 167.5W
24.4 1325 23 42.4N 172.1E
19.2 1327 24 41.0N 134.9W
13.9 1327 28 36.1N 123.8W
20.8 1327 29 35.9N 171.0W
20.6 1327 30 35.7N 176.1E
18.8 1327 31 35.6N 155.2W
17.9 1327 32 35.4N 142.0W
14.8 1327 33 34.6N 145.9E
10.7 1327 37 32.9N 119.4W
12.7 1327 38 31.5N 127.7W
15.2 1327 39 29.9N 177.3W
15.0 1326 40 29.6N 165.0W
11.5 1327 41 29.4N 134.9E
12.9 1327 42 28.6N 139.2W
12.2 1327 46 26.1N 170.8E
9.9 1327 47 25.0N 119.4W
12.0 1327 48 23.5N 151.8W
13.5 1327 49 22.6N 128.0E
16.9 1327 55 17.6N 138.5E
10.8 1327 56 17.6N 111.5W
14.8 1327 57 14.9N 147.9E
N NE E SE S SW W NW C T
WIND SPEED kts

WIND DIRECTION AND SPEED

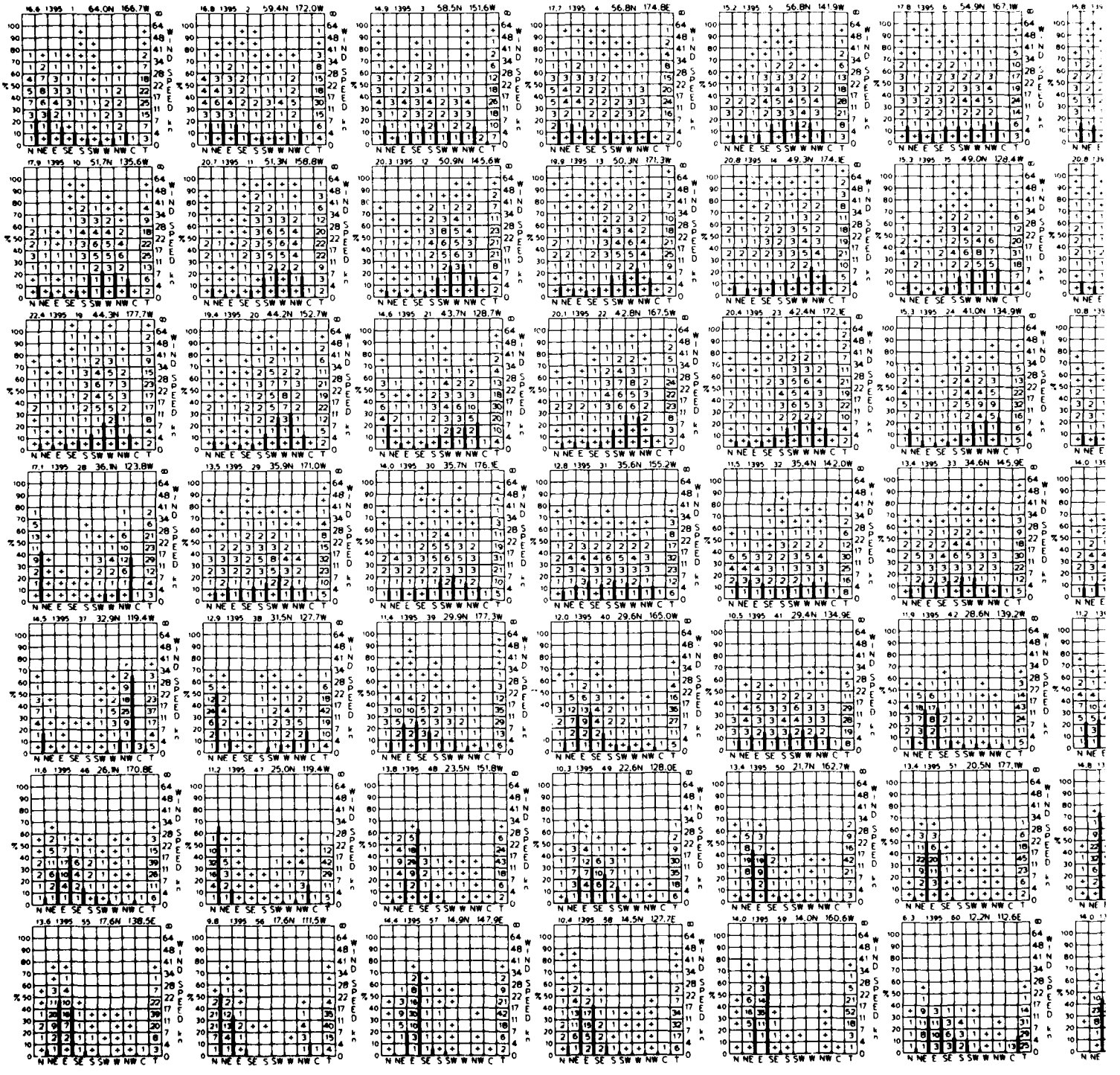


WIND DIRECTION AND SPEED

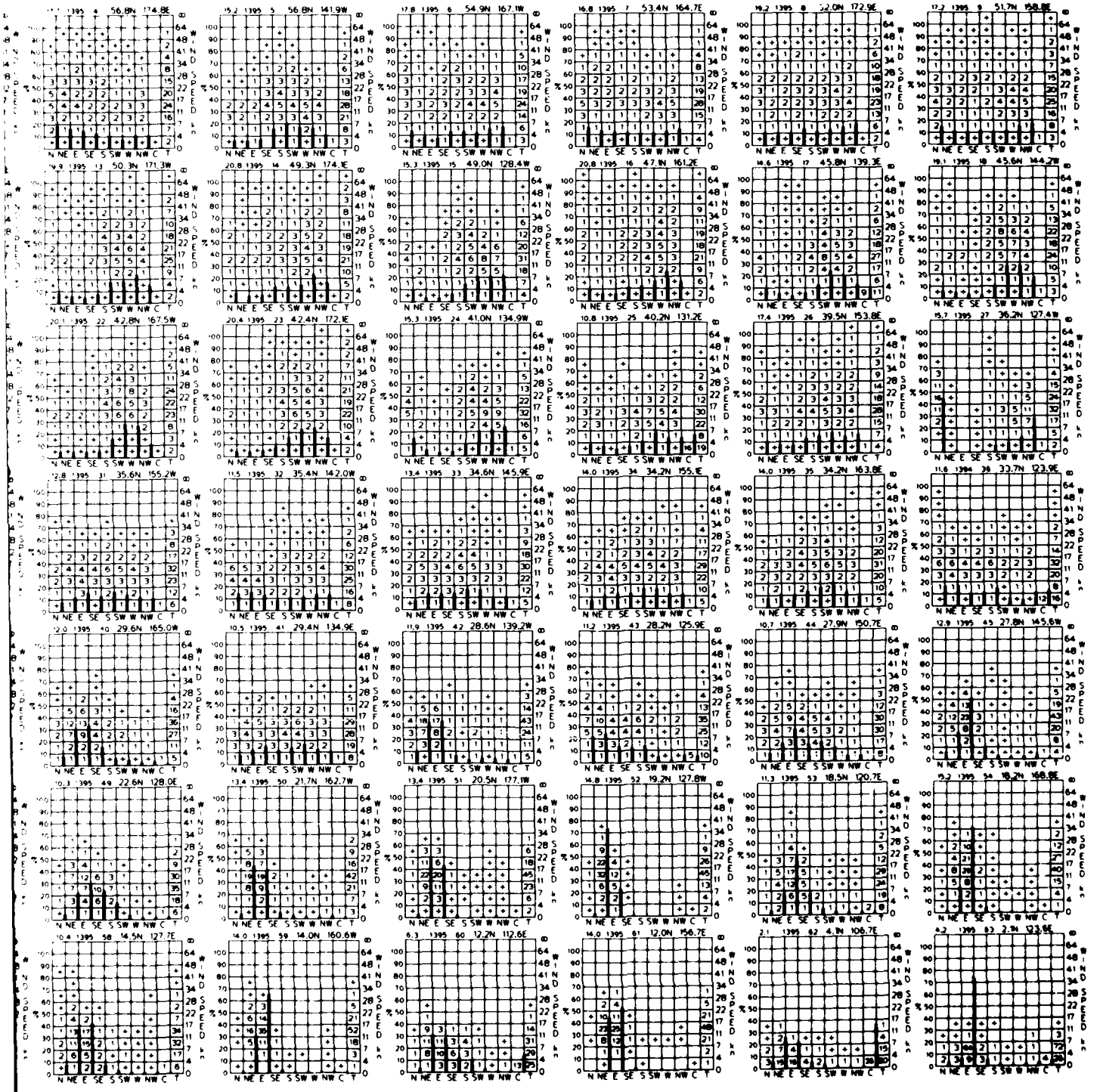




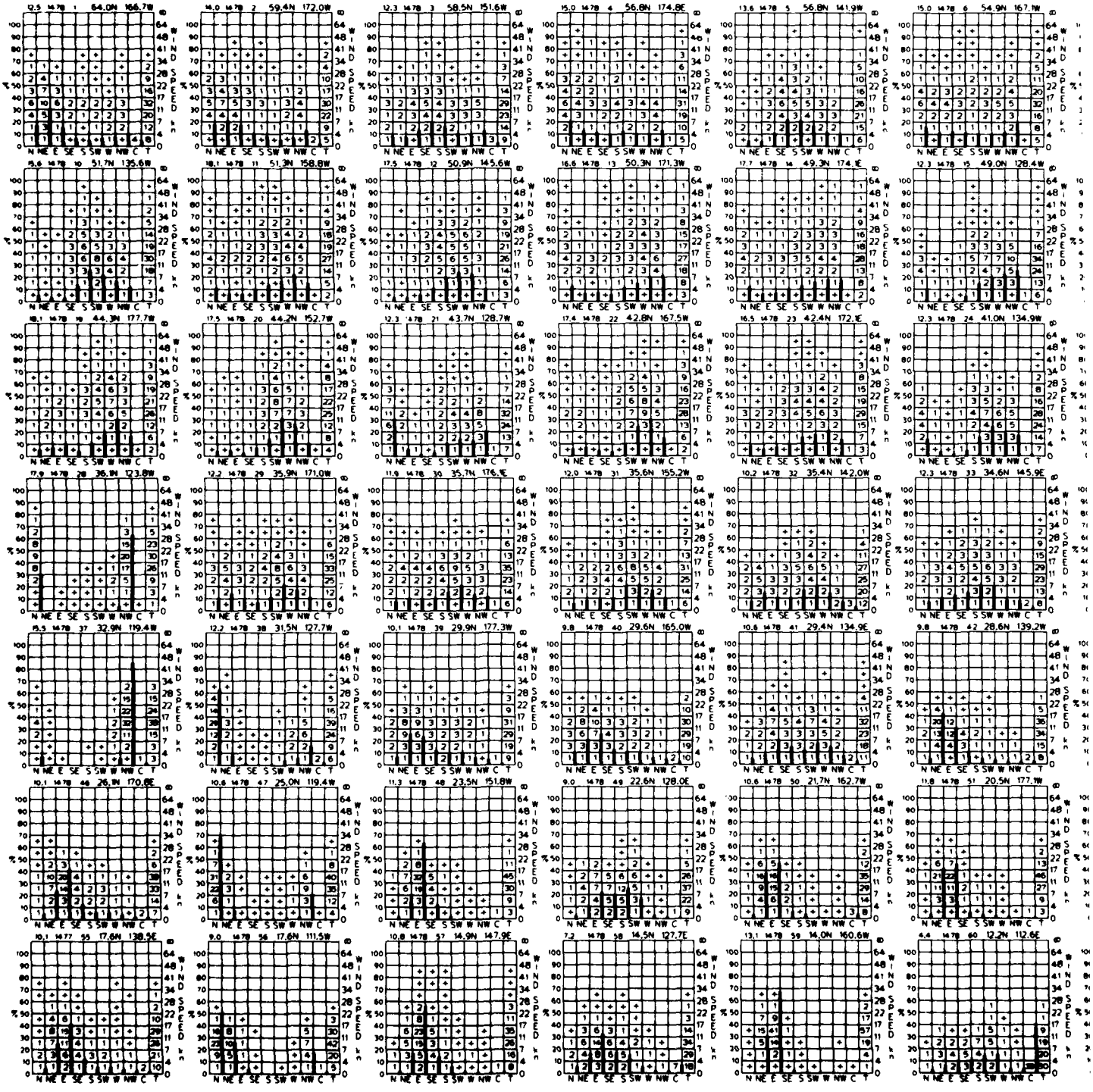
APRIL

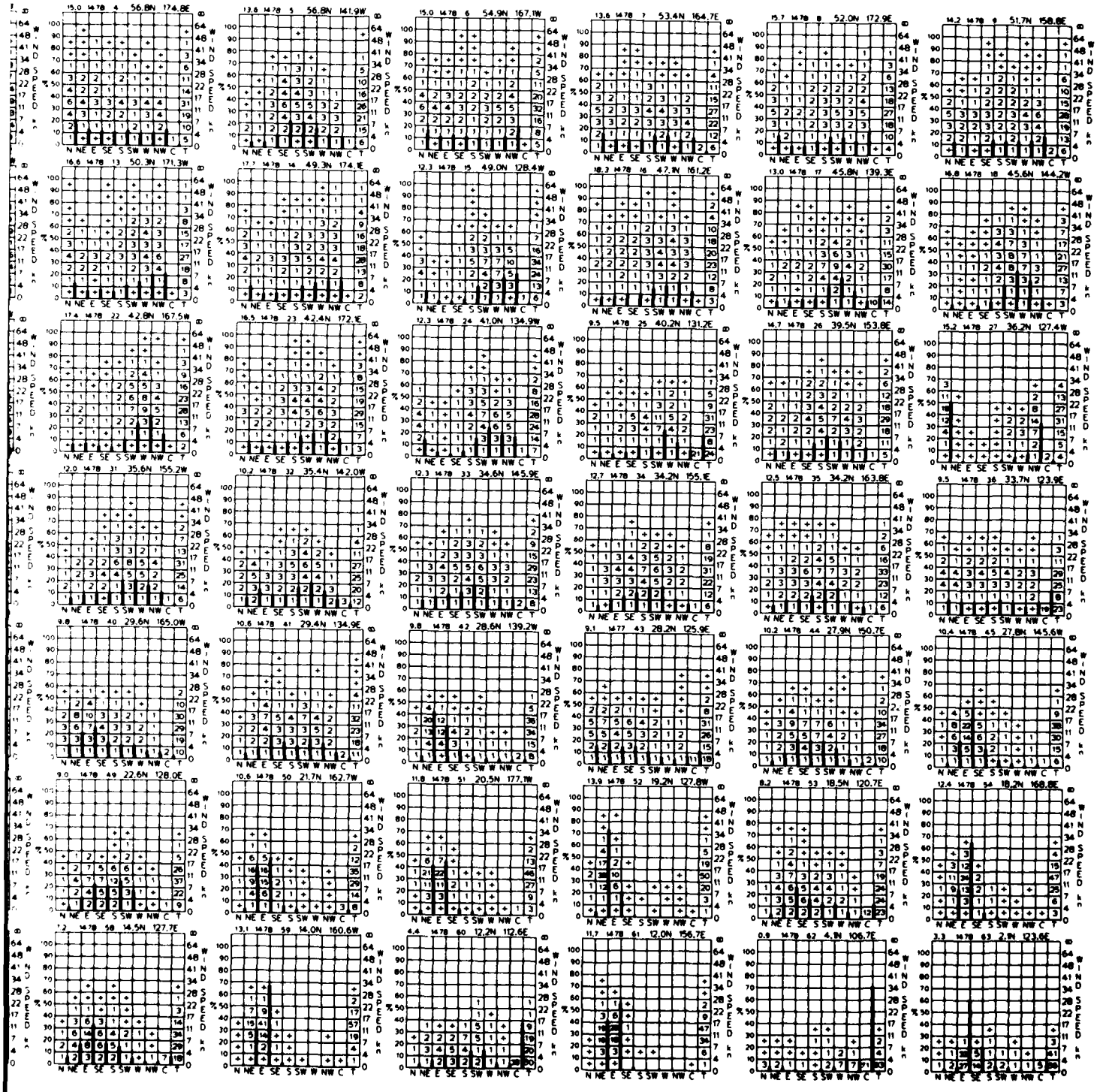

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16.8 1395 2 59.4N 172.0W
14.9 1395 3 58.5N 151.6W
17.7 1395 4 56.8N 174.8E
15.2 1395 5 56.8N 141.9W
17.8 1395 6 54.9N 167.1W
17.9 1395 10 51.7N 135.6W
20.7 1395 11 51.3N 158.8W
20.3 1395 12 50.9N 145.6W
19.9 1395 13 50.3N 171.3W
20.8 1395 14 49.3N 174.1E
15.3 1395 15 49.0N 128.4W
22.4 1395 19 44.3N 177.7W
19.4 1395 20 44.2N 152.7W
14.6 1395 21 43.7N 128.7W
20.1 1395 22 42.8N 167.5W
20.4 1395 23 42.4N 172.1E
15.3 1395 24 41.0N 134.9W
17.1 1395 28 36.1N 123.8W
13.5 1395 29 35.9N 171.0W
14.0 1395 30 35.7N 176.1E
12.8 1395 31 35.6N 155.2W
11.5 1395 32 35.4N 142.0W
13.4 1395 33 34.6N 145.9E
14.5 1395 37 32.9N 119.4W
12.9 1395 38 31.5N 127.7W
11.4 1395 39 29.9N 177.3W
12.0 1395 40 29.6N 165.0W
10.5 1395 41 29.4N 134.9E
11.9 1395 42 28.6N 139.2W
11.6 1395 46 26.1N 170.8E
11.2 1395 47 25.0N 119.4W
13.8 1395 48 23.5N 151.8W
10.3 1395 49 22.6N 128.0E
13.4 1395 50 21.7N 162.7W
13.4 1395 51 20.5N 177.1W
13.6 1395 55 17.6N 138.5E
9.8 1395 56 17.6N 111.5W
14.4 1395 57 14.9N 147.9E
10.4 1395 58 14.5N 127.7E
14.0 1395 59 14.0N 160.6W
6.3 1395 60 12.2N 112.6E
N NE E SE S SW W NW C T
WIND SPEED kn
%

WIND DIRECTION AND SPEED

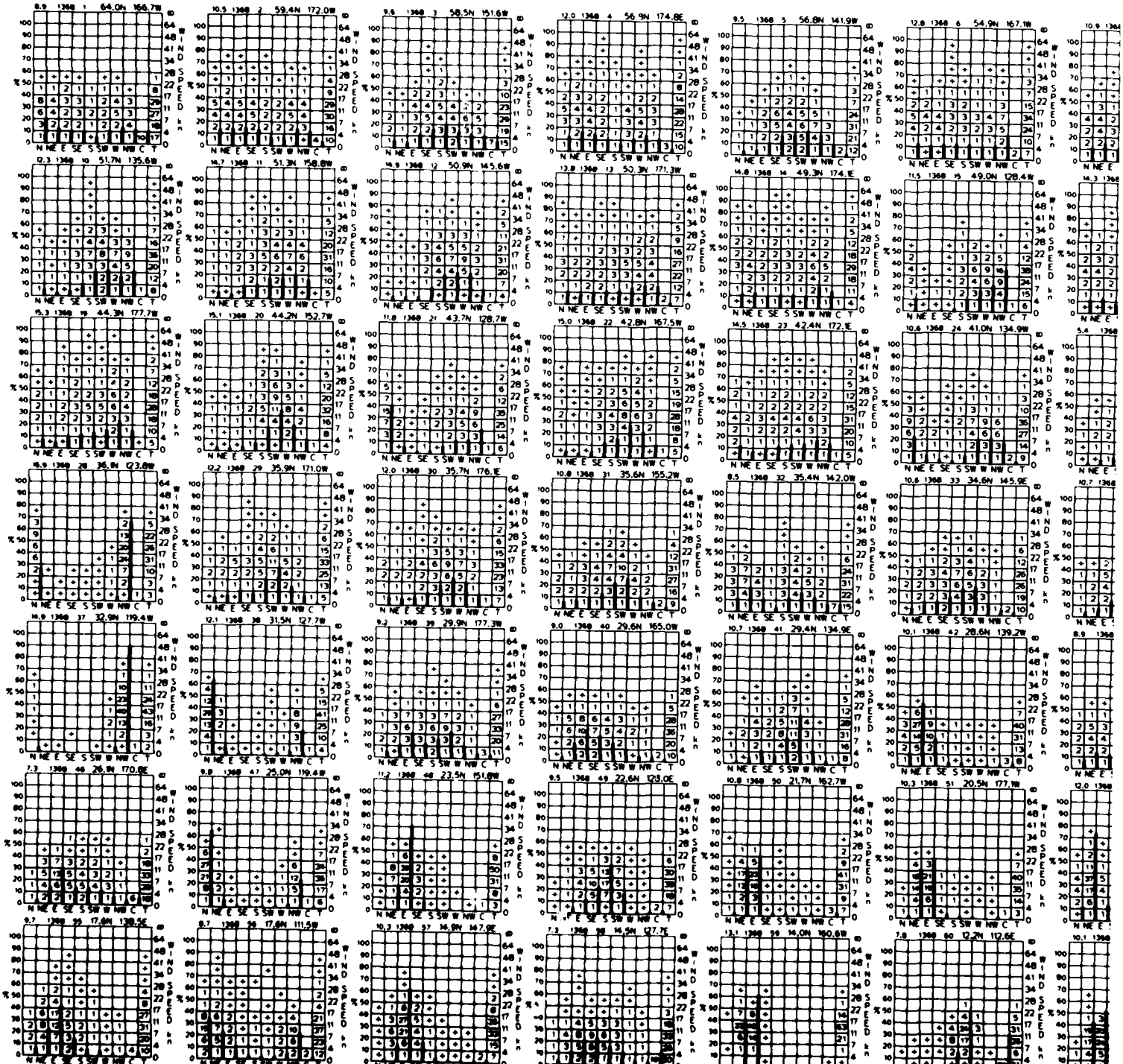


WIND DIRECTION AND SPEED

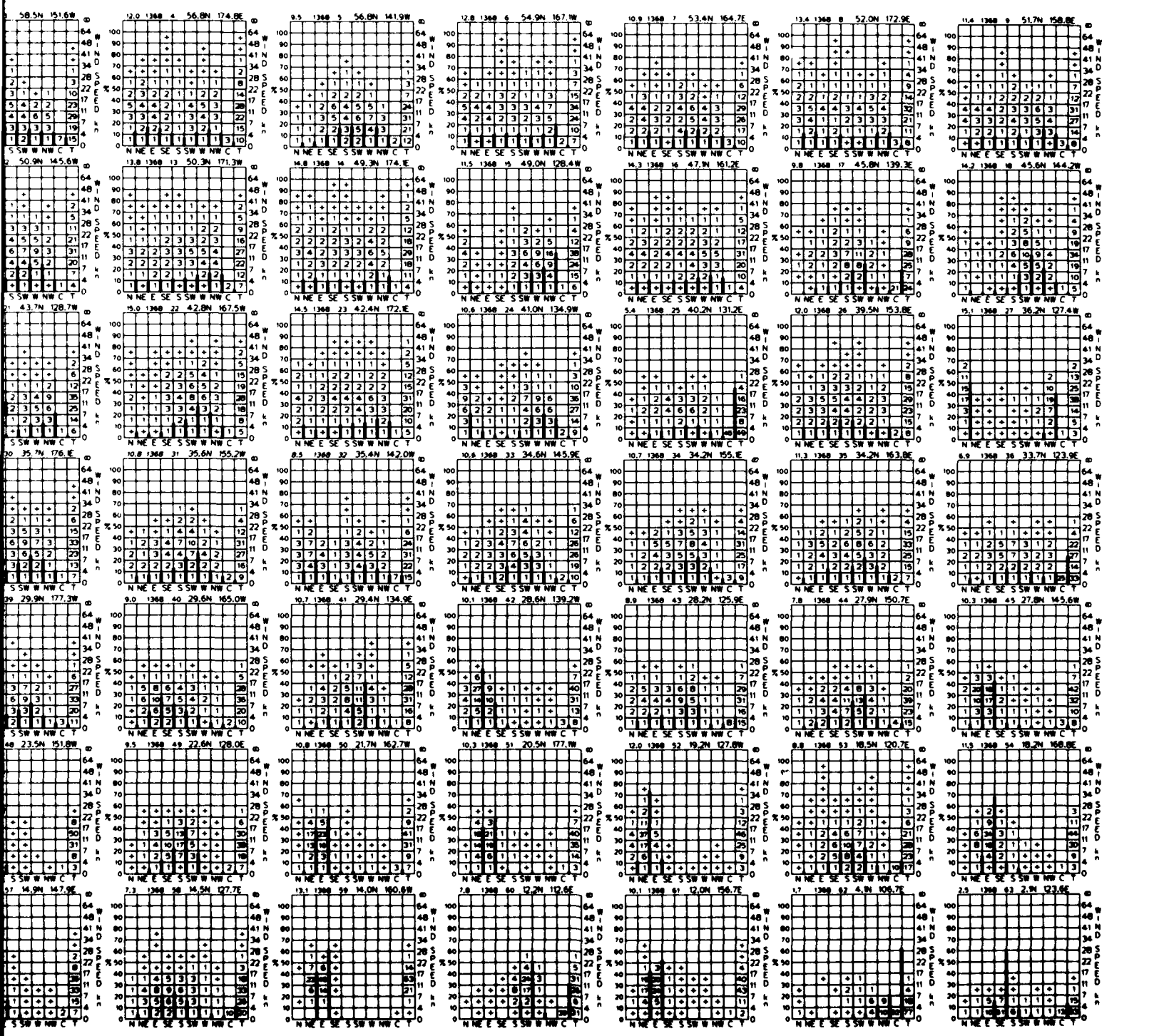




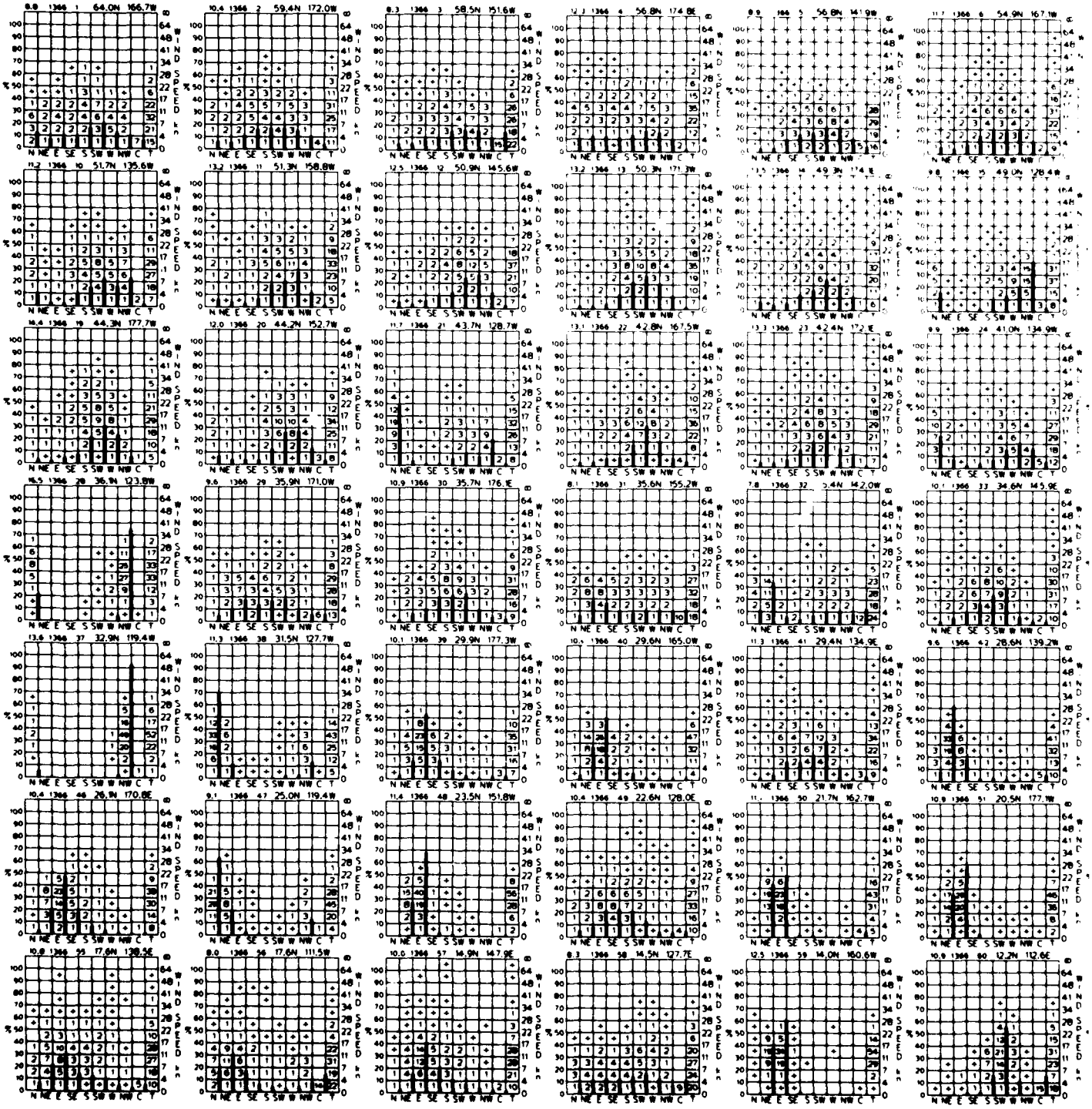
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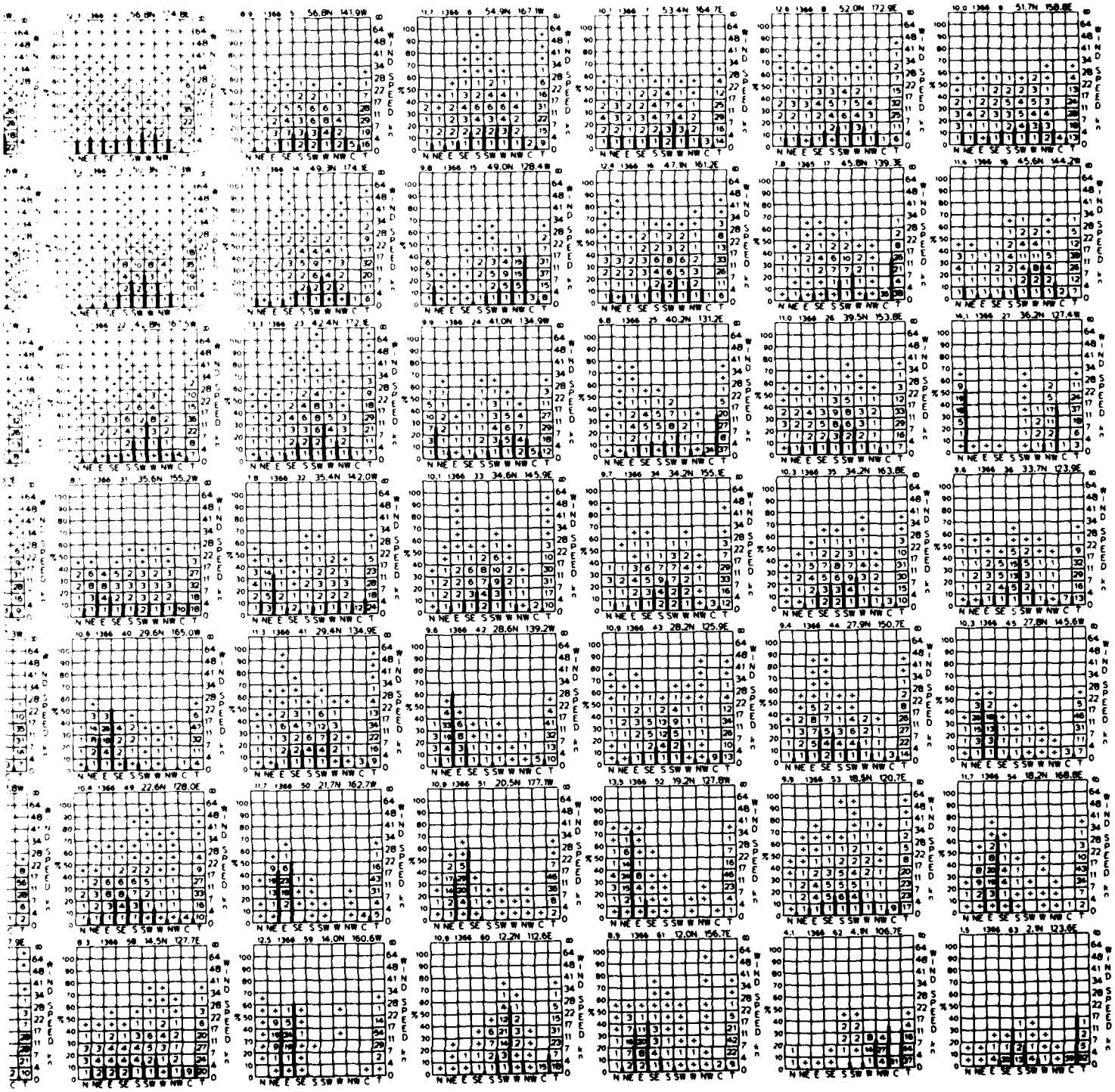


WIND DIRECTION AND SPEED



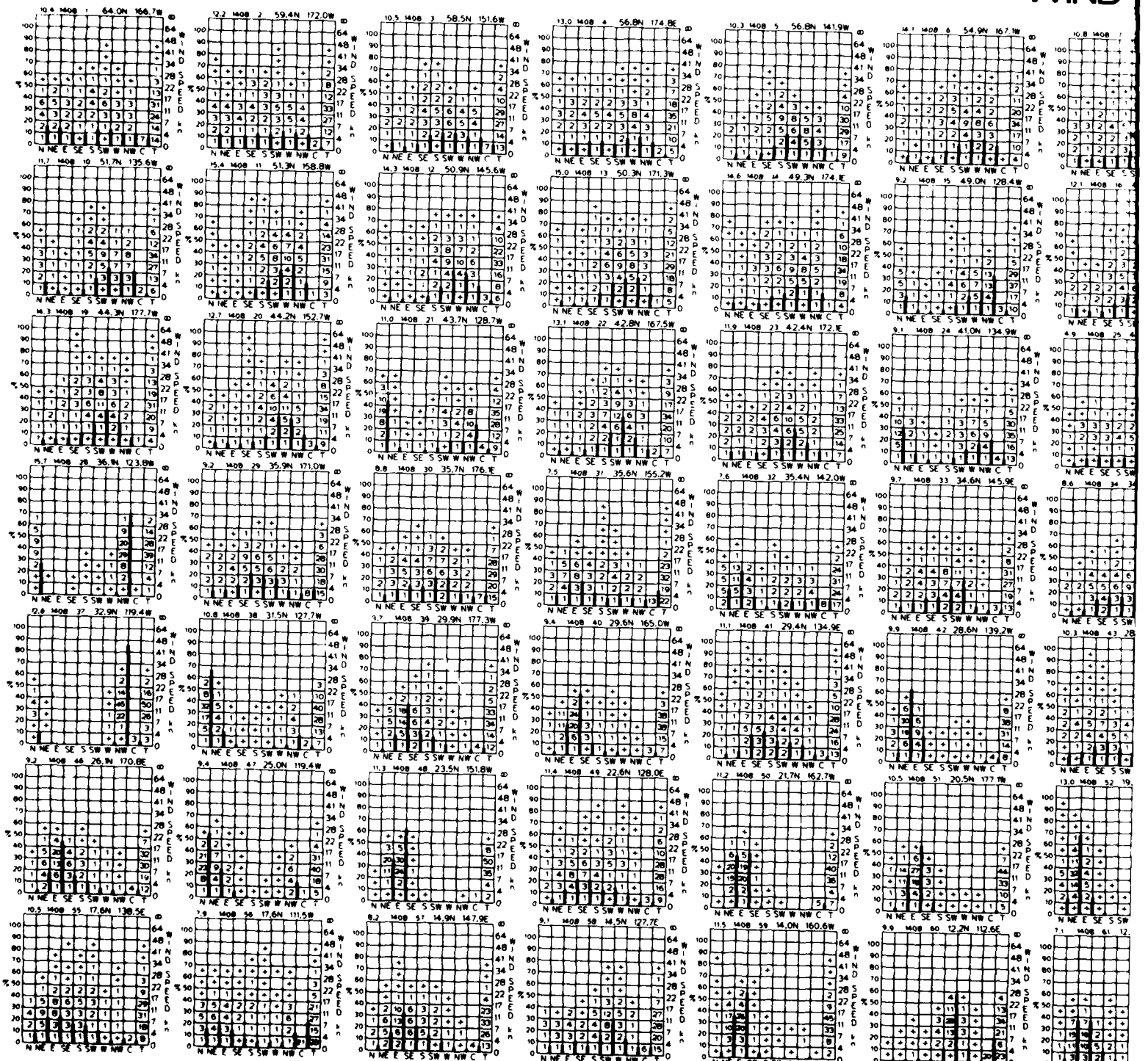
WIND DIRECTION AND SPEED



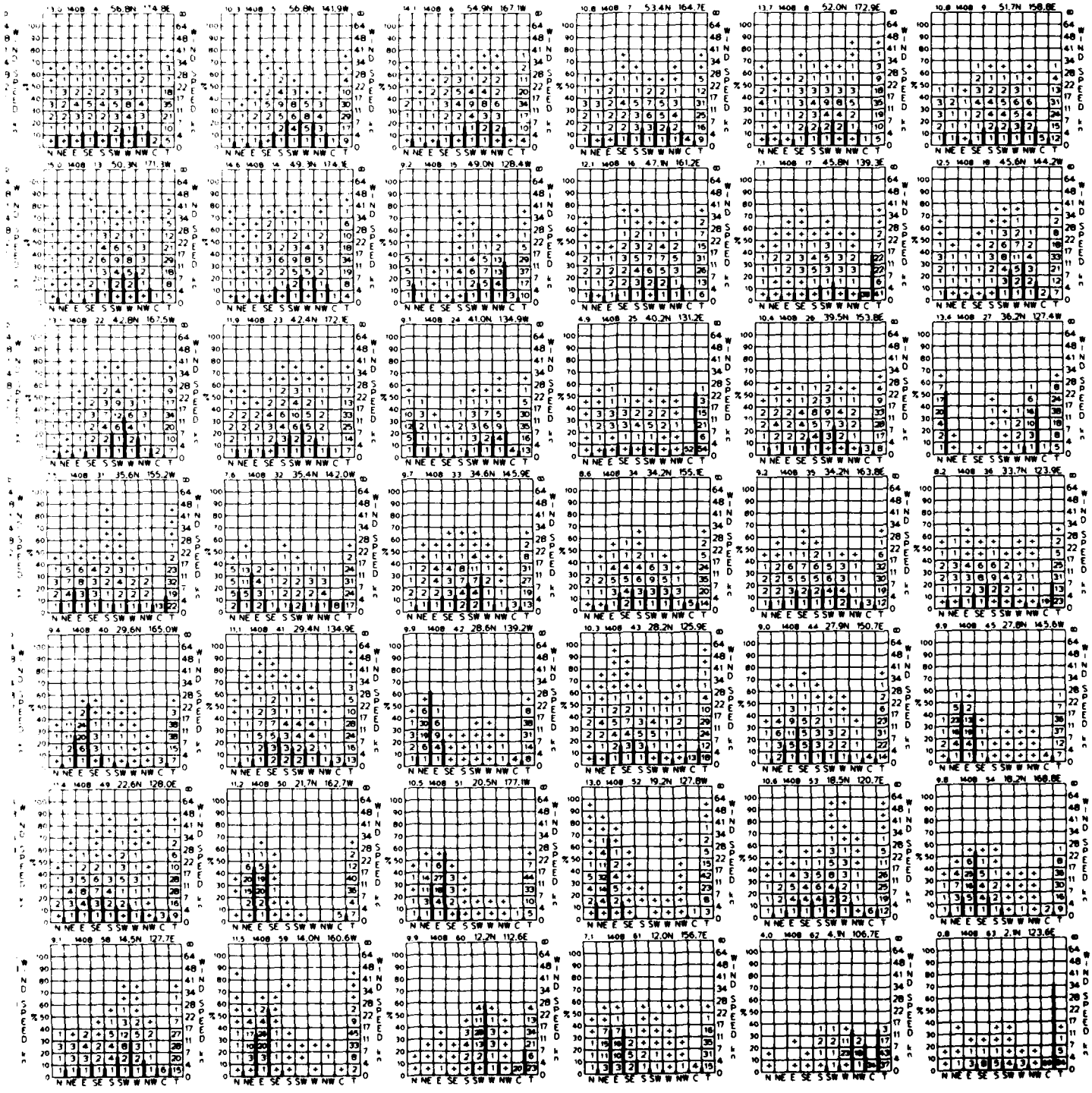


AUGUST

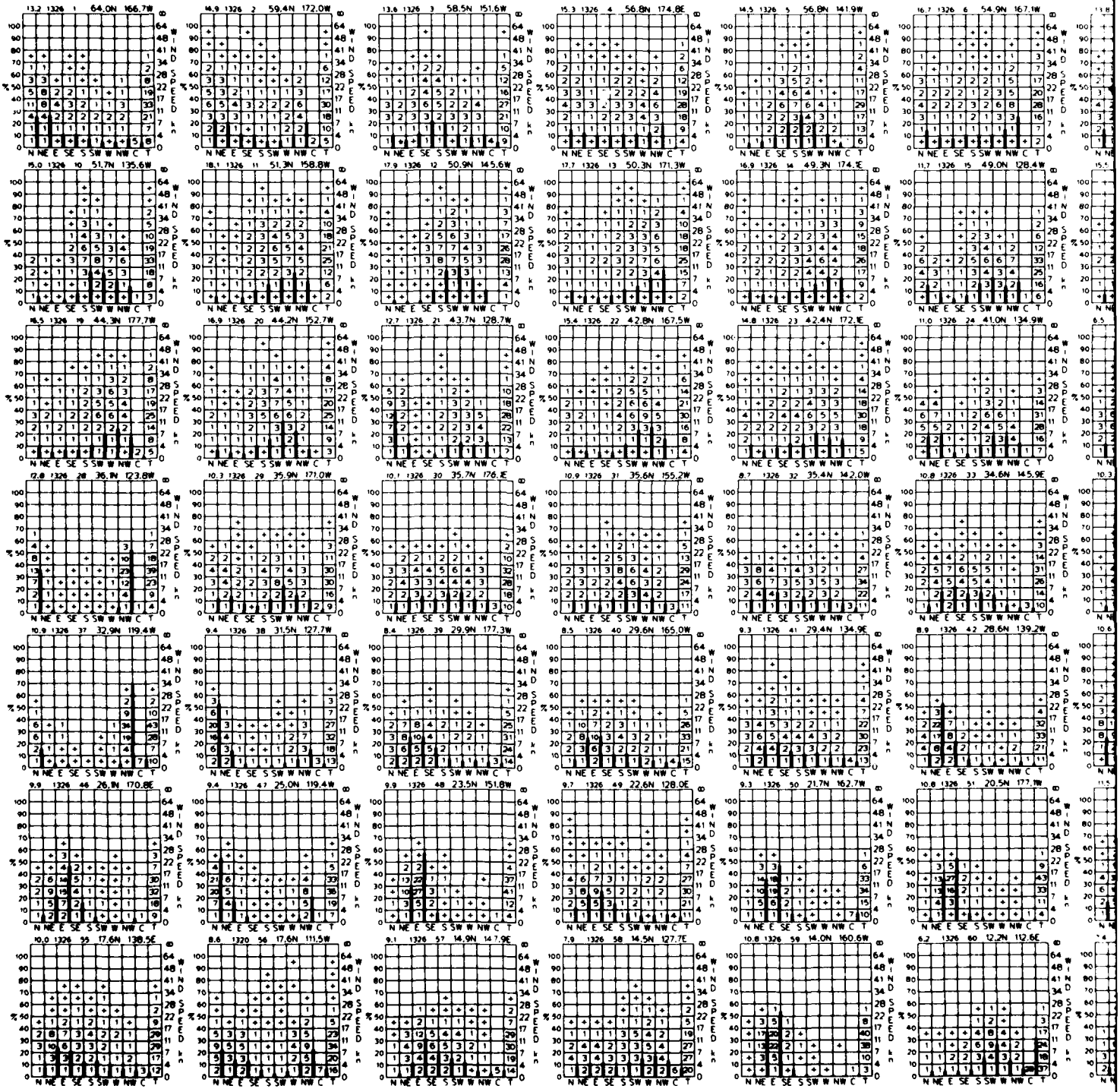
WIND



WIND DIRECTION AND SPEED

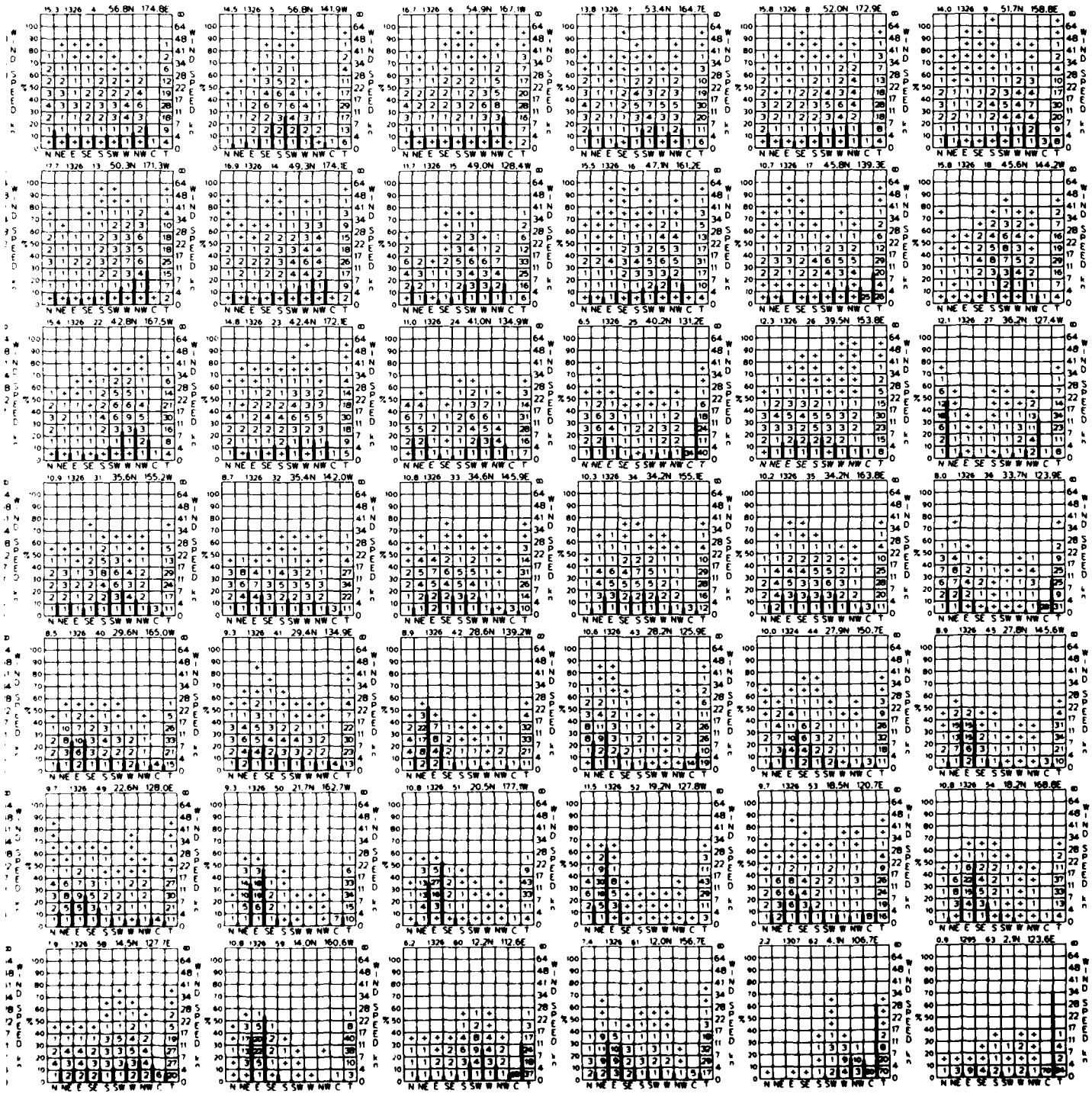


WIND DIRECTION AND SPEED

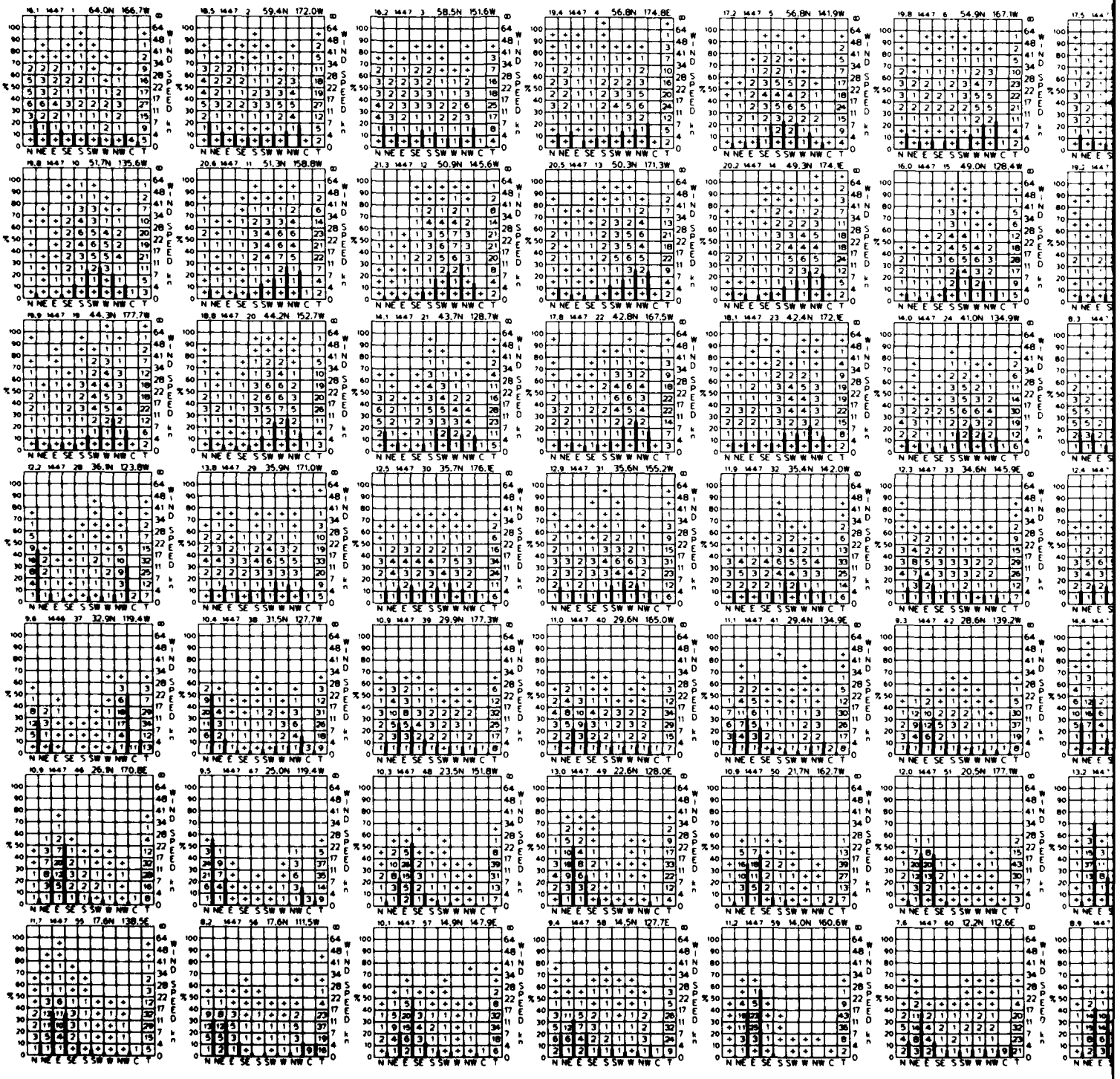


ED

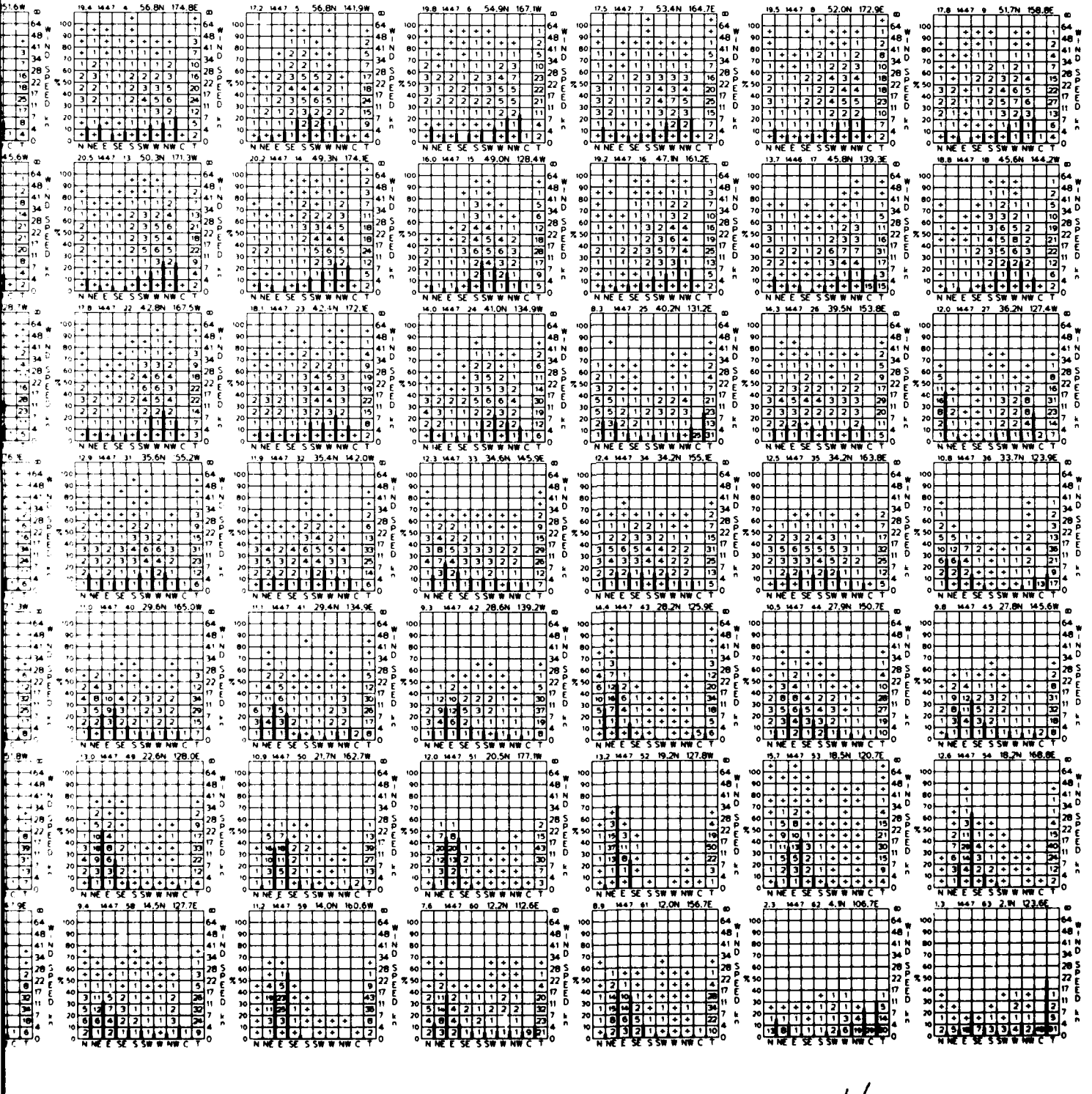
SEPTEMBER



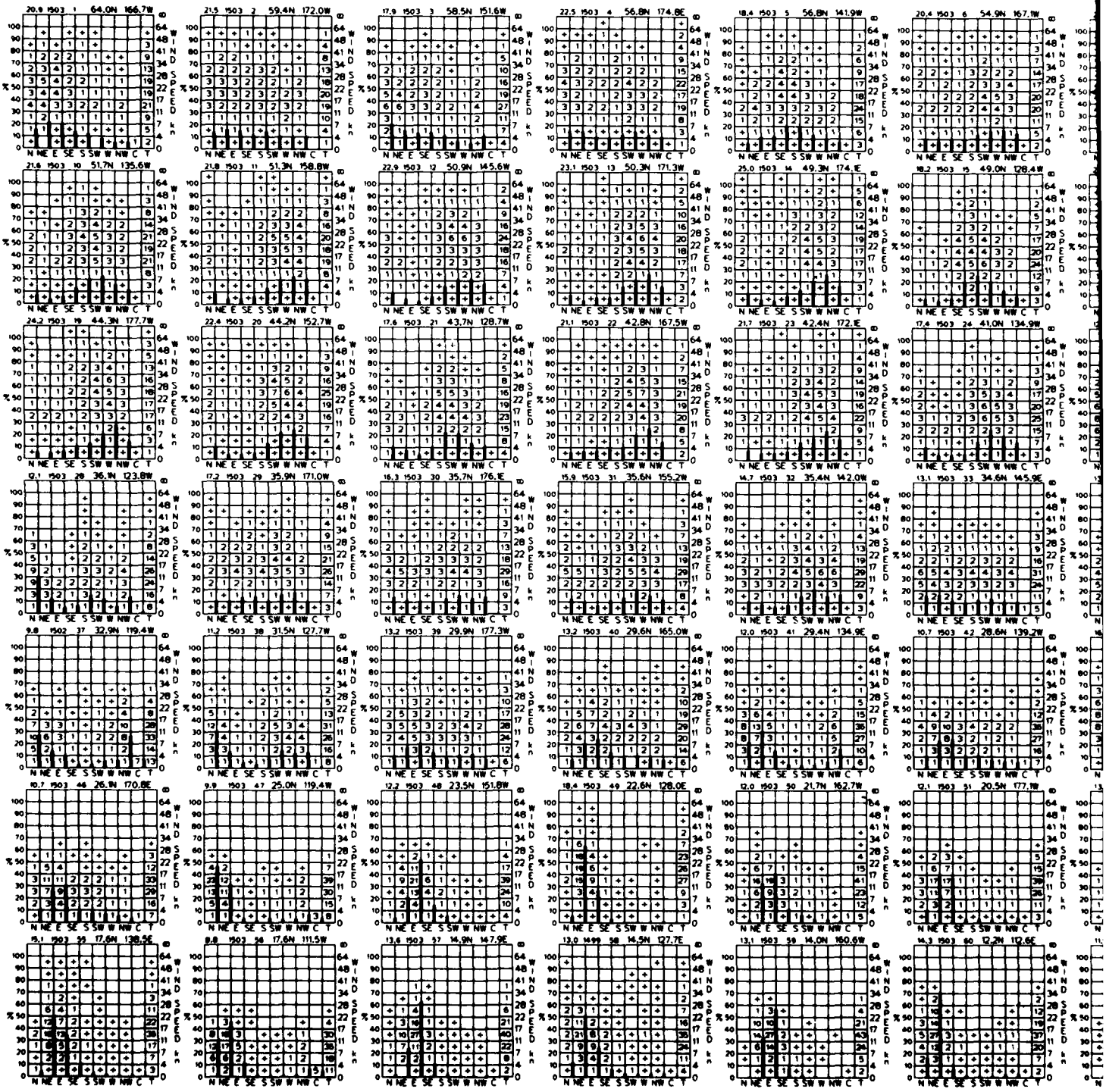
OCTOBER

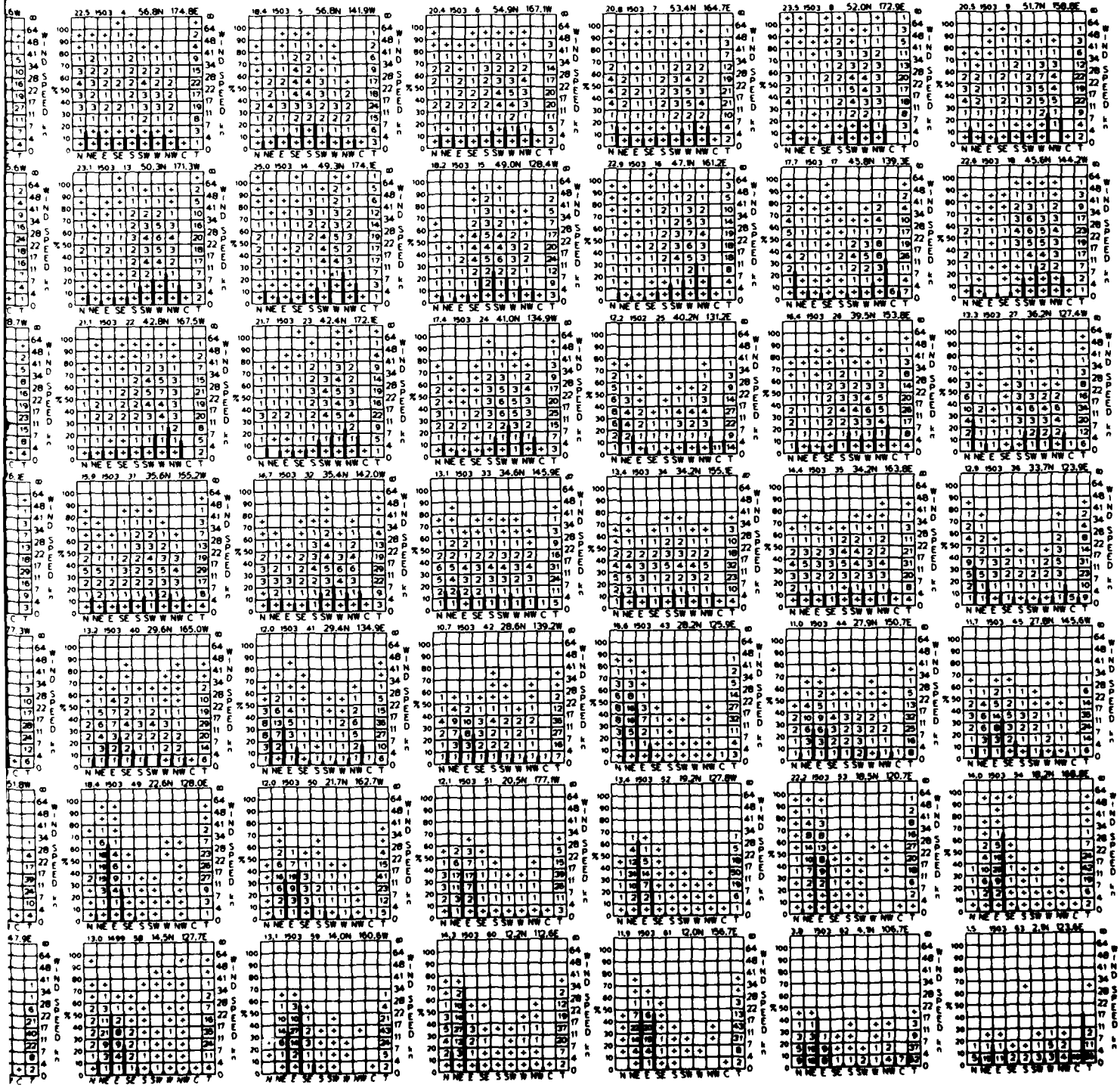

16.1 1447 1 64.0N 166.7W
18.5 1447 2 59.4N 172.0W
16.2 1447 3 58.5N 151.6W
19.4 1447 4 56.8N 174.8E
17.2 1447 5 56.8N 141.9W
19.8 1447 6 54.9N 167.1W
19.8 1447 10 51.7N 135.6W
20.6 1447 11 51.3N 158.8W
21.3 1447 12 50.9N 145.6W
20.5 1447 13 50.3N 171.3W
20.2 1447 14 49.3N 174.1E
16.0 1447 15 49.0N 128.4W
19.9 1447 19 44.3N 177.7W
18.8 1447 20 44.2N 152.7W
14.1 1447 21 43.7N 128.7W
17.8 1447 22 42.8N 167.5W
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14.0 1447 24 41.0N 134.9W
12.2 1447 28 36.8N 123.8W
13.8 1447 29 35.9N 171.0W
12.5 1447 30 35.7N 176.1E
12.9 1447 31 35.6N 155.2W
11.9 1447 32 35.4N 142.0W
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9.8 1446 37 32.9N 119.4W
10.4 1447 38 31.5N 127.7W
10.9 1447 39 29.9N 177.3W
11.0 1447 40 29.6N 165.0W
11.1 1447 41 29.4N 134.9E
9.3 1447 42 28.6N 139.2W
10.9 1447 46 26.9N 170.8E
9.5 1447 47 25.0N 119.4W
10.3 1447 48 23.5N 151.8W
13.0 1447 49 22.6N 128.0E
10.9 1447 50 21.7N 162.7W
12.0 1447 51 20.5N 177.1W
11.7 1447 55 17.6N 138.5E
8.2 1447 56 17.6N 111.5W
10.1 1447 57 14.9N 147.9E
9.4 1447 58 14.5N 127.7E
11.2 1447 59 14.0N 160.6W
7.6 1447 60 12.2N 112.6E
WIND SPEED kn
N NE E SE S SW W NW C T

WIND DIRECTION AND SPEED

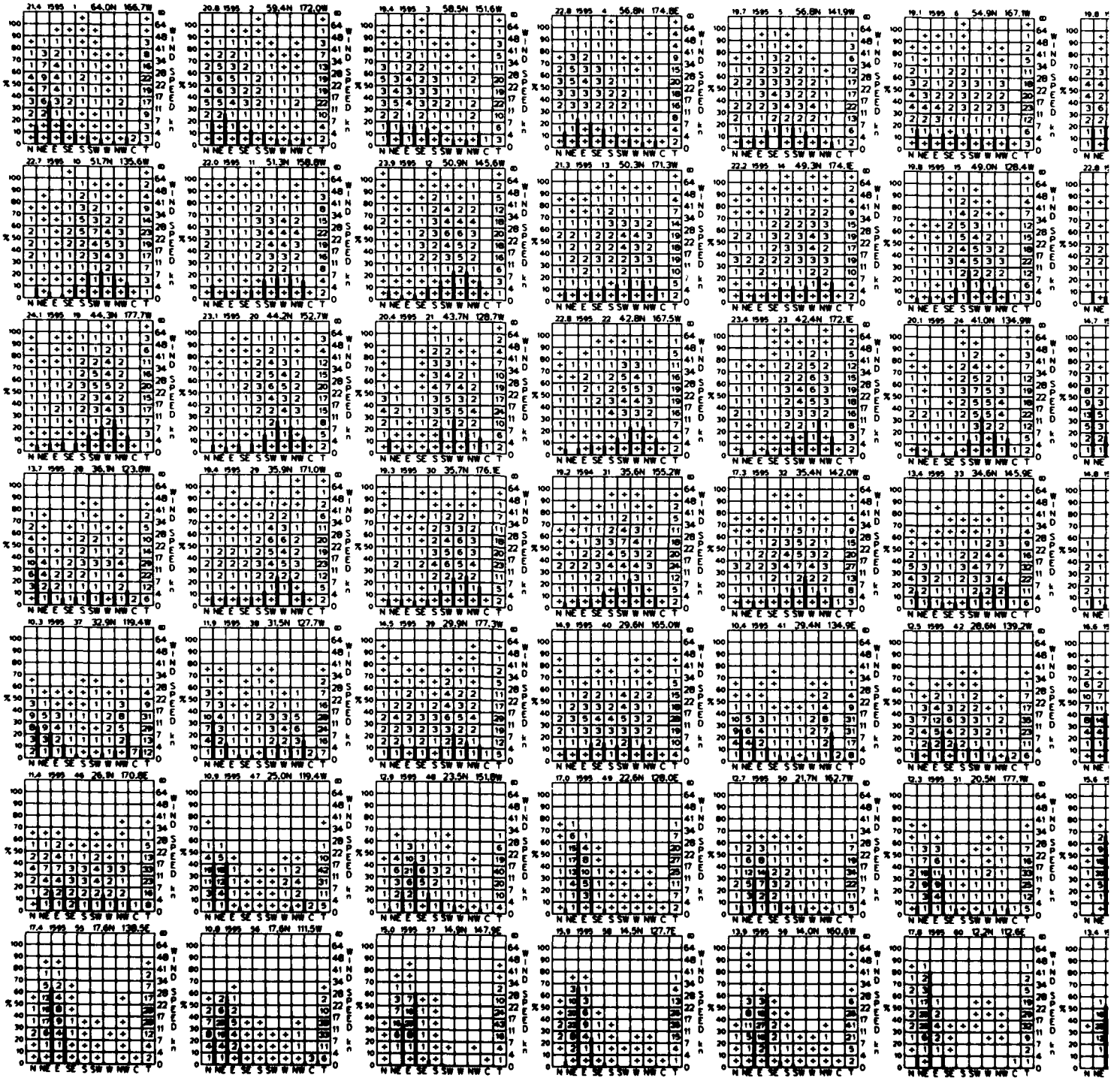


WIND DIRECTION AND SPEED

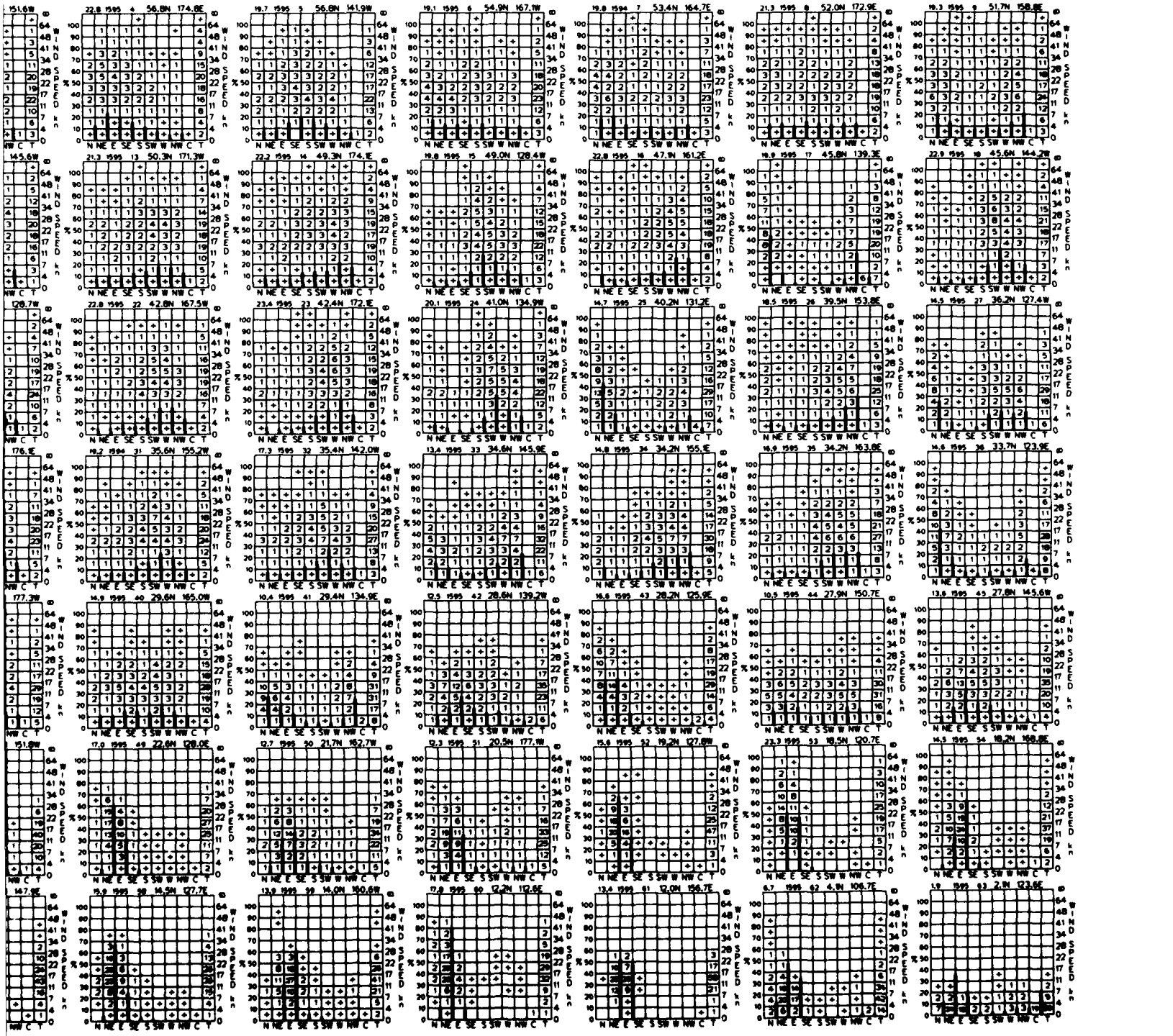




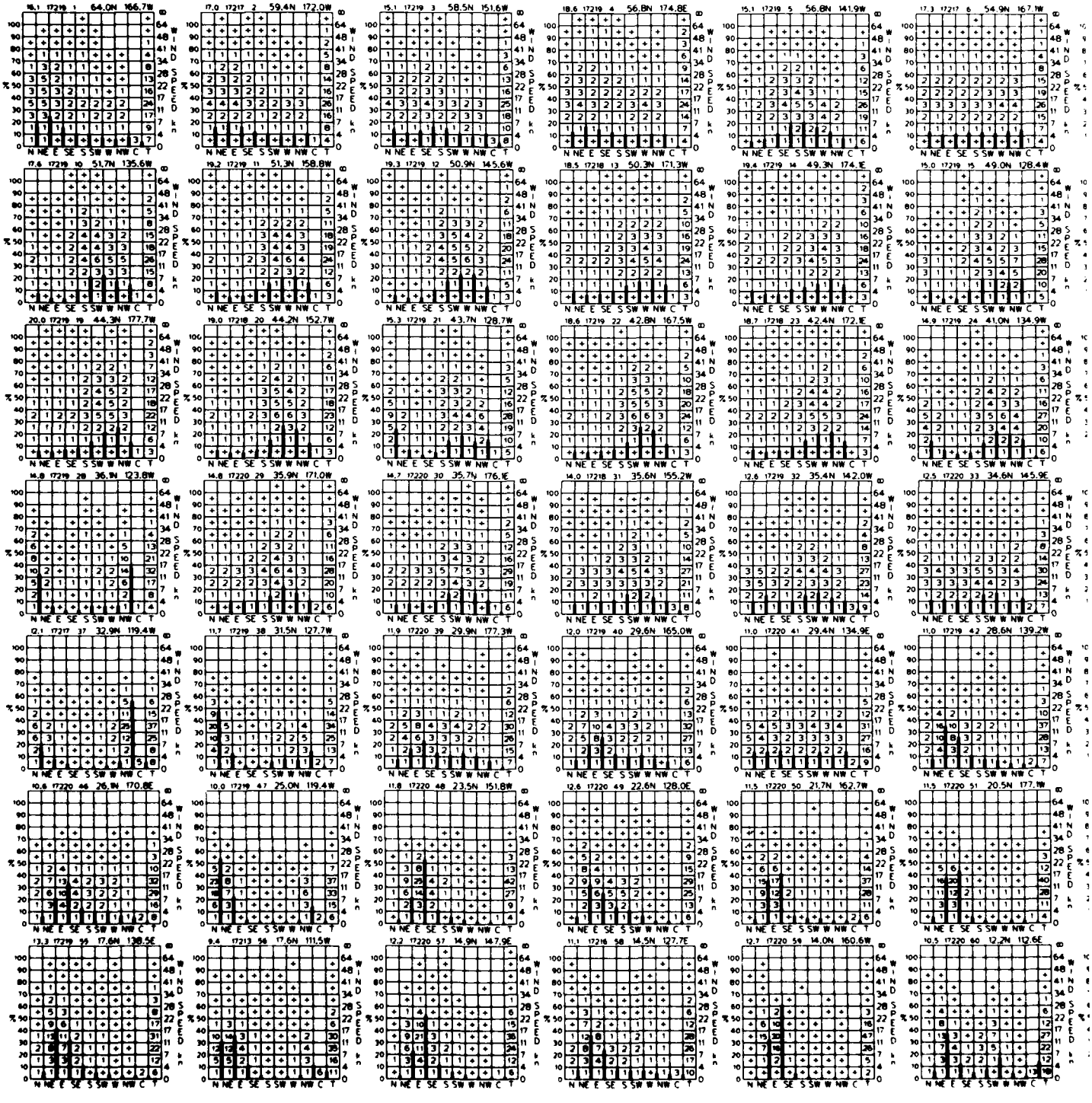
DECEMBER

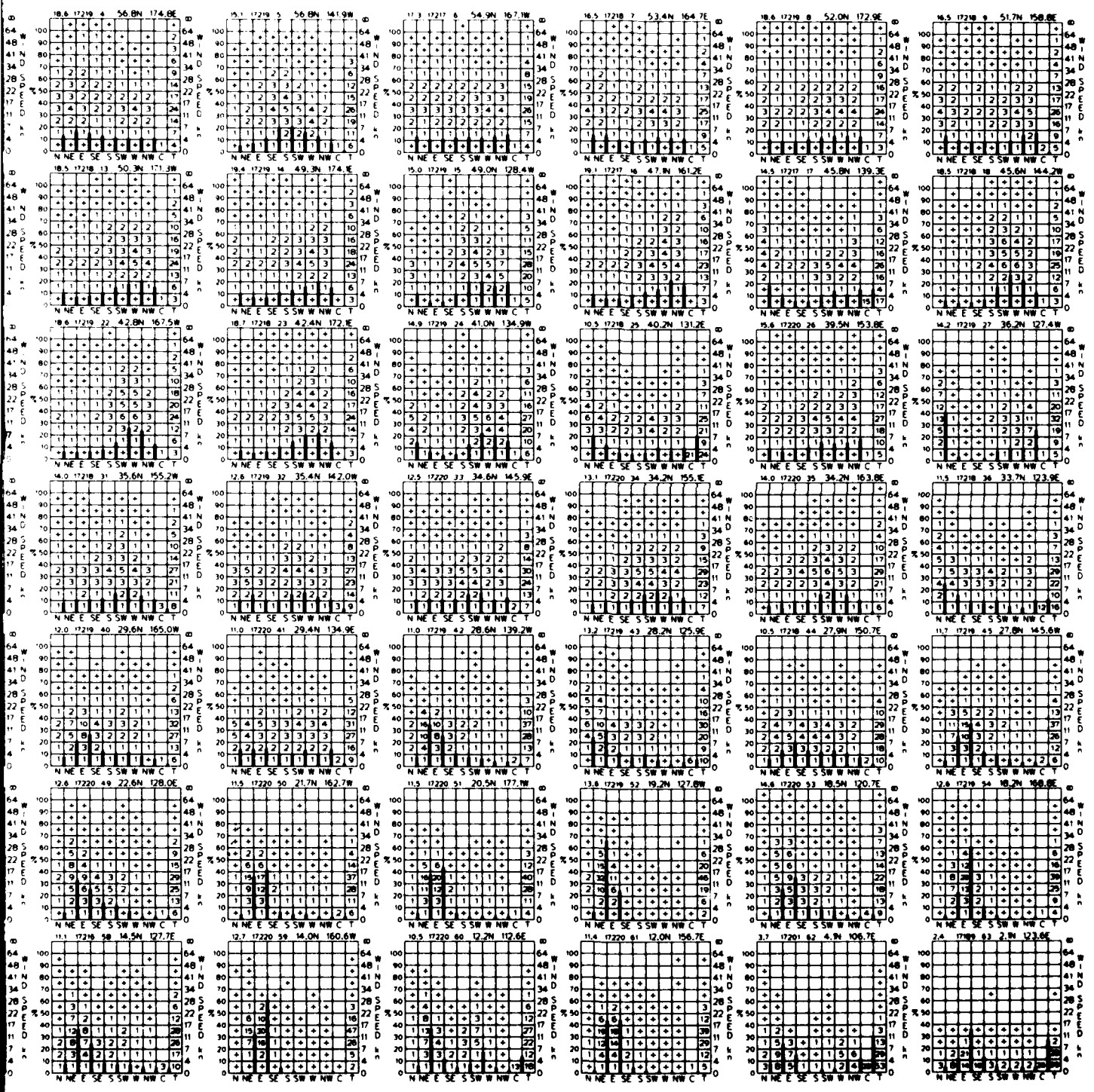

21.4 1995 1 64.0N 166.7W
20.8 1995 2 59.4N 172.0W
19.4 1995 3 58.5N 151.6W
22.8 1995 4 56.8N 174.8E
19.7 1995 5 56.8N 141.9W
19.1 1995 6 54.9N 167.1W
22.7 1995 10 51.7N 135.6W
22.0 1995 11 51.3N 158.8W
23.9 1995 12 50.9N 145.6W
21.3 1995 13 50.3N 171.3W
22.2 1995 14 49.3N 174.1E
19.8 1995 15 49.0N 128.4W
24.1 1995 19 44.3N 177.7W
23.1 1995 20 44.2N 152.7W
20.4 1995 21 43.7N 128.7W
22.8 1995 22 42.8N 167.5W
23.4 1995 23 42.4N 172.1E
20.1 1995 24 41.0N 134.9W
13.7 1995 28 36.9N 123.0W
18.4 1995 29 35.9N 171.0W
19.3 1995 30 35.7N 176.1E
19.2 1994 31 35.6N 155.2W
17.3 1995 32 35.4N 142.0W
13.4 1995 33 34.6N 145.9E
10.3 1995 37 32.9N 119.4W
11.9 1995 38 31.5N 127.7W
14.5 1995 39 29.9N 177.3W
14.9 1995 40 29.6N 165.0W
10.4 1995 41 29.4N 134.9E
12.5 1995 42 28.6N 139.2W
11.4 1995 46 26.9N 170.8E
10.9 1995 47 25.0N 119.4W
12.9 1995 48 23.5N 151.8W
17.0 1995 49 22.6N 128.0E
12.7 1995 50 21.7N 162.7W
12.3 1995 51 20.5N 177.1W
17.4 1995 55 17.6N 138.5E
10.8 1995 56 17.8N 111.5W
15.0 1995 57 16.9N 147.9E
15.8 1995 58 16.5N 127.7E
13.9 1995 59 14.0N 160.6W
17.8 1995 60 12.2N 112.6E
WIND SPEED kn
N NE E SE S SW W NW C T

WIND DIRECTION AND SPEED



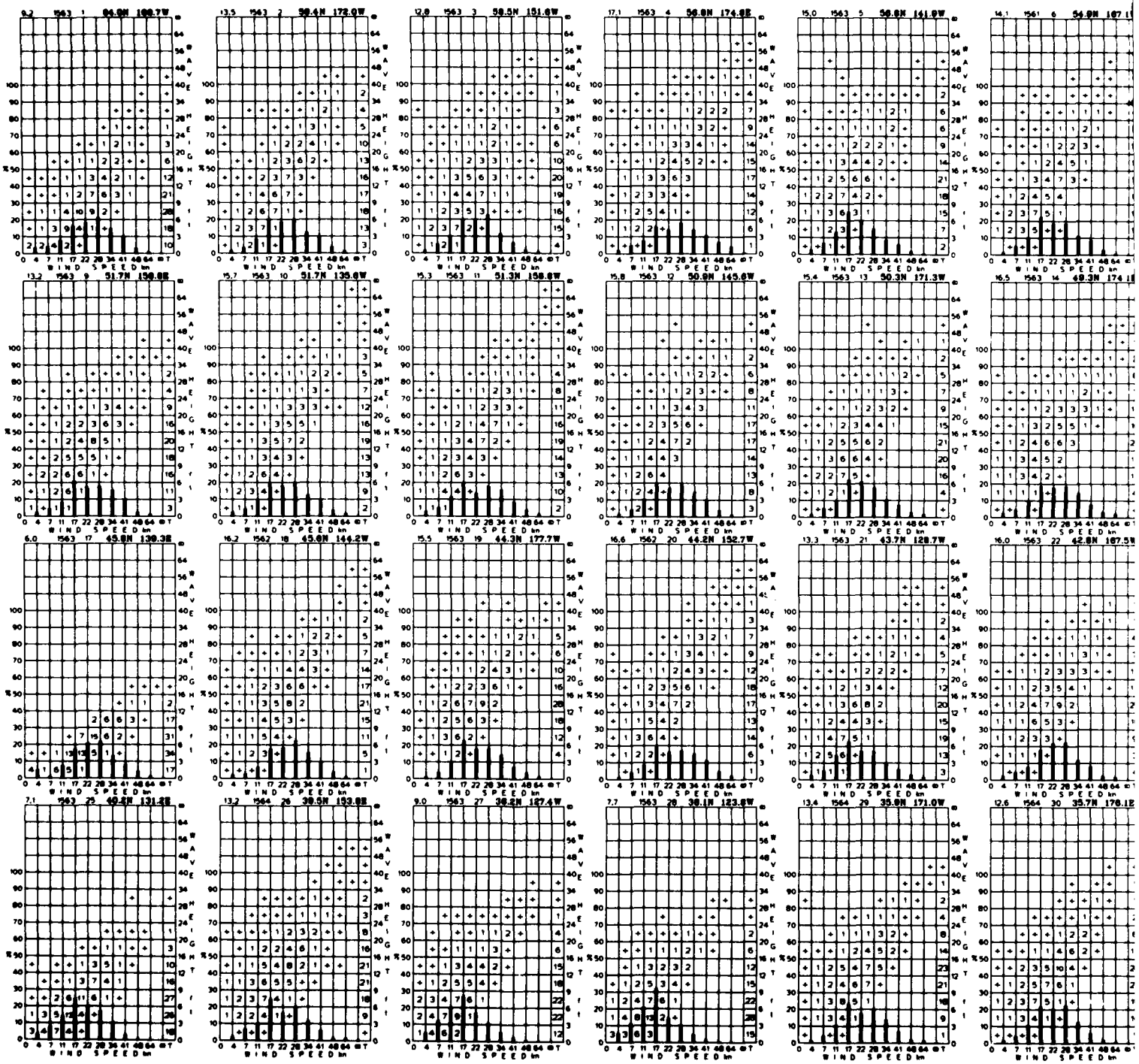
WIND DIRECTION AND SPEED



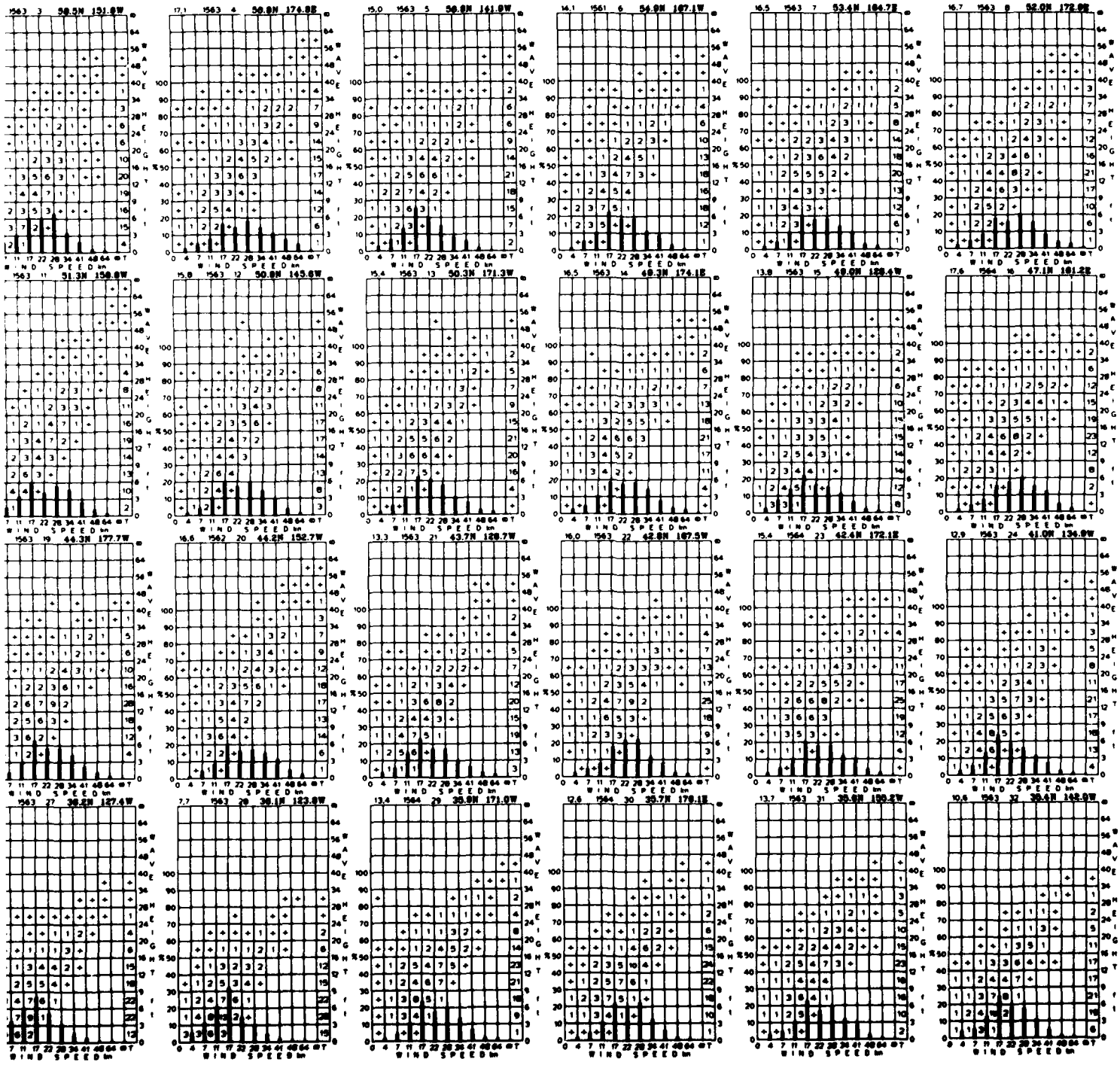


JANUARY

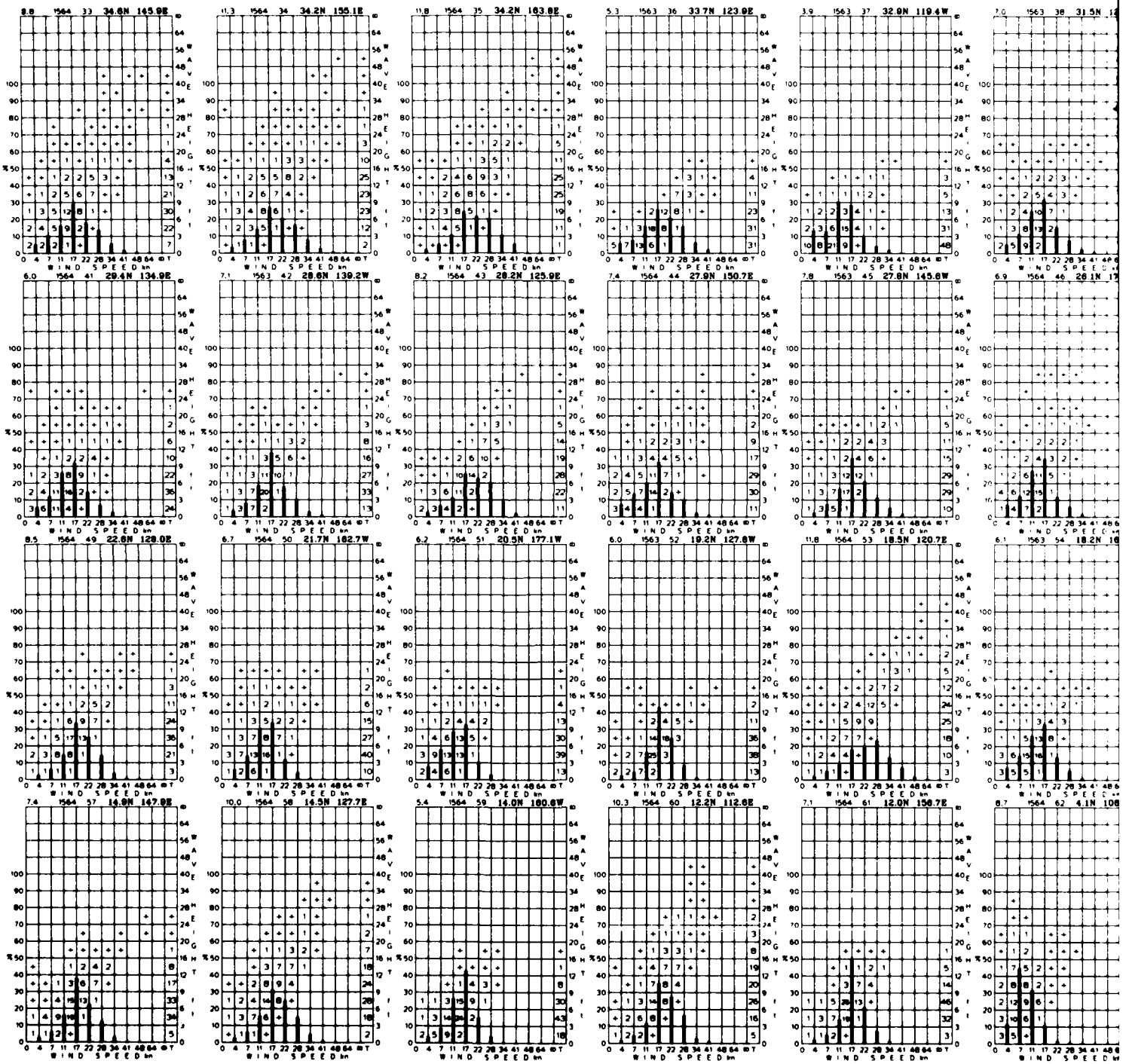
WAVE HEIGH



WAVE HEIGHT AND WIND SPEED

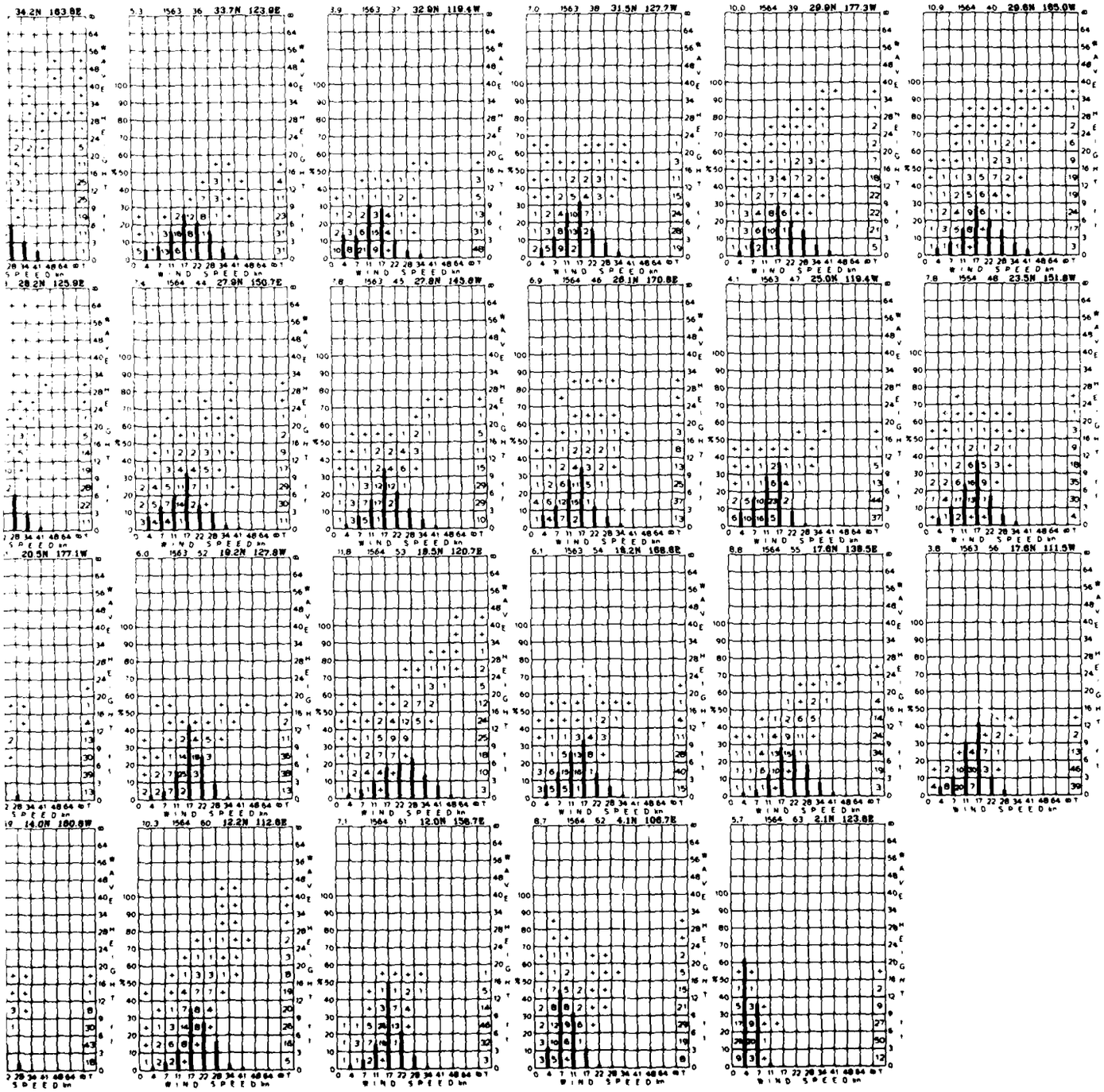


WAVE HEIGHT AND WIND SPEED (Cont'd)



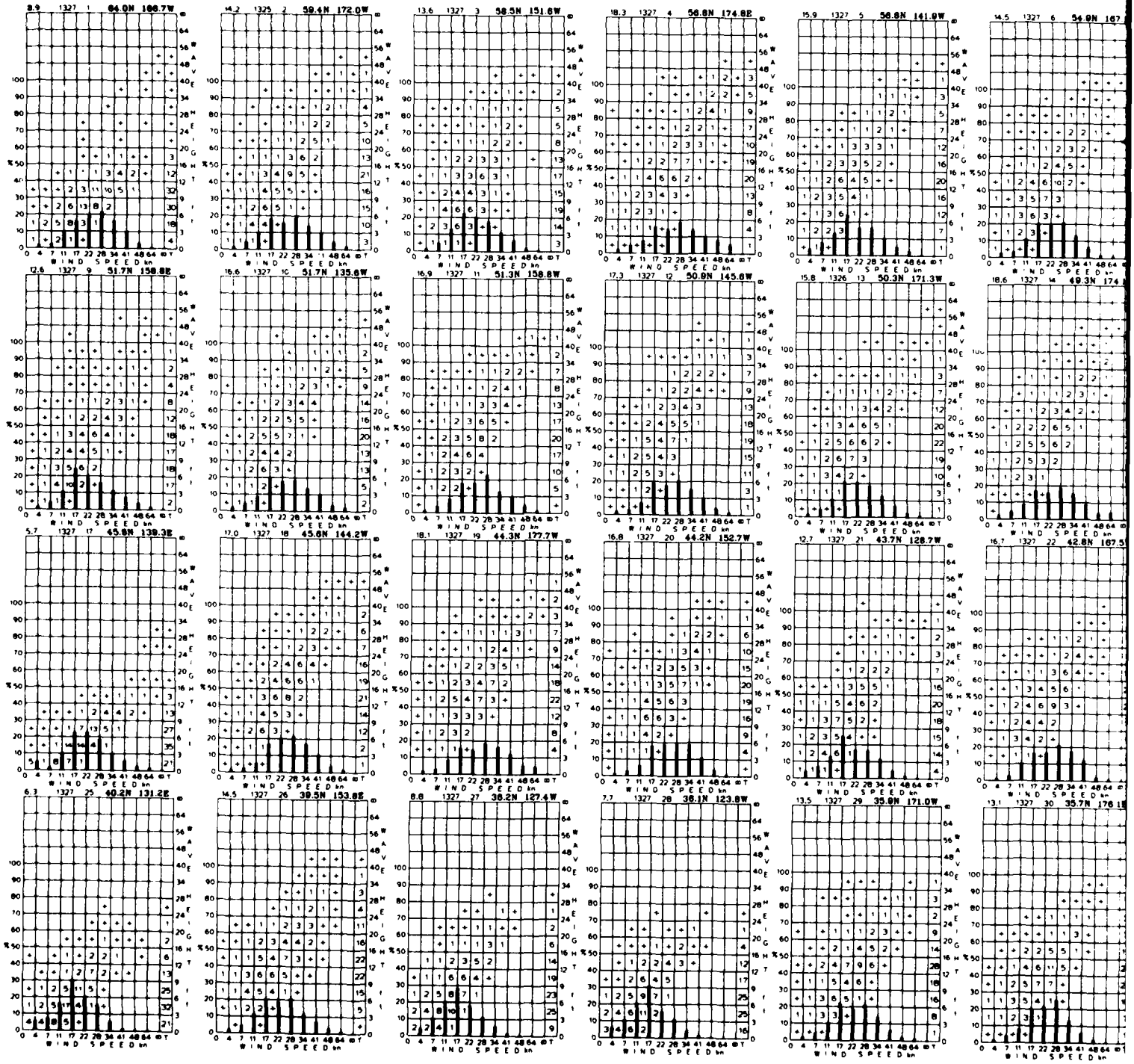
SPEED (Cont'd)

JANUARY



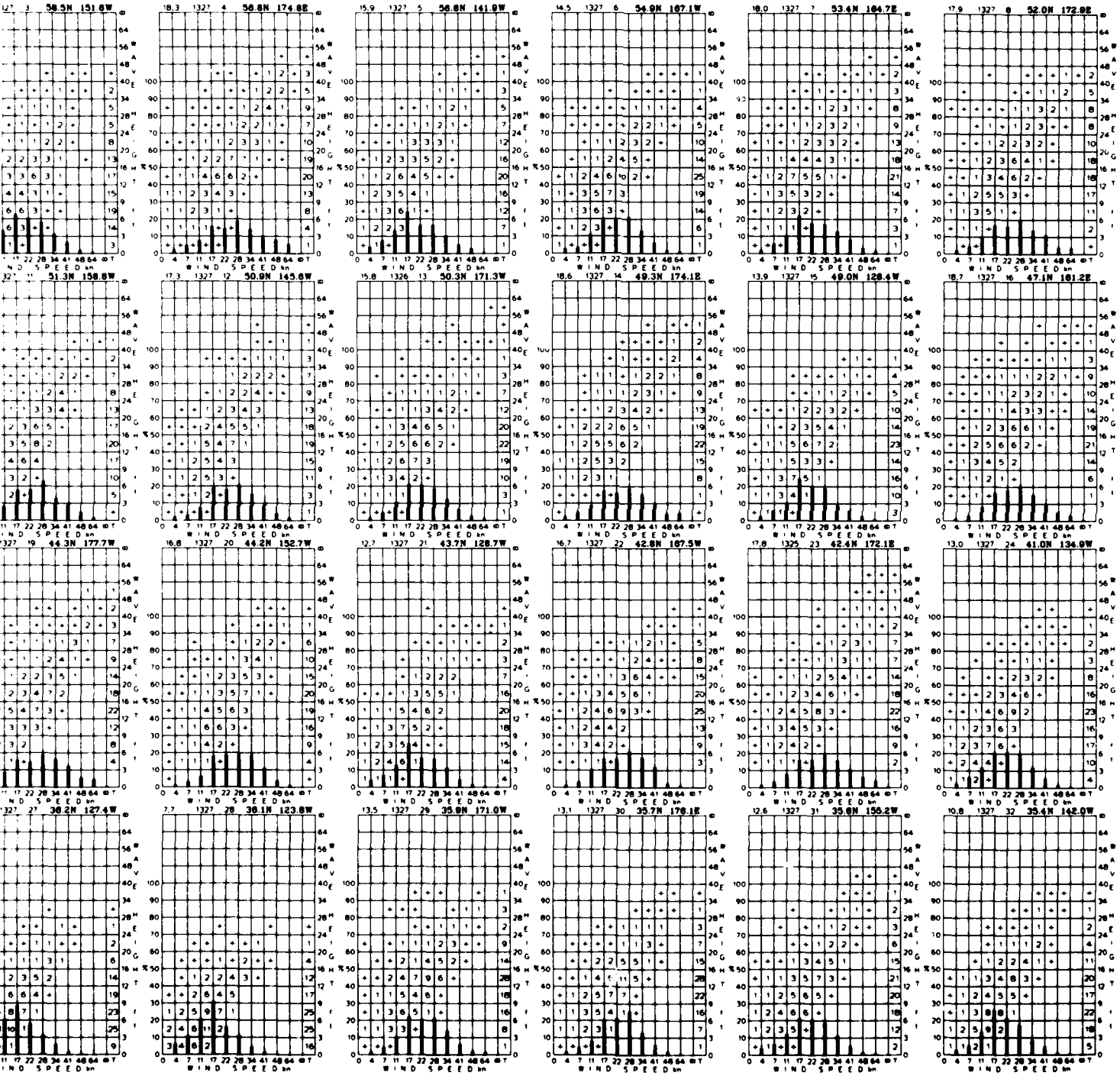
FEBRUARY

WAVE HEIGI

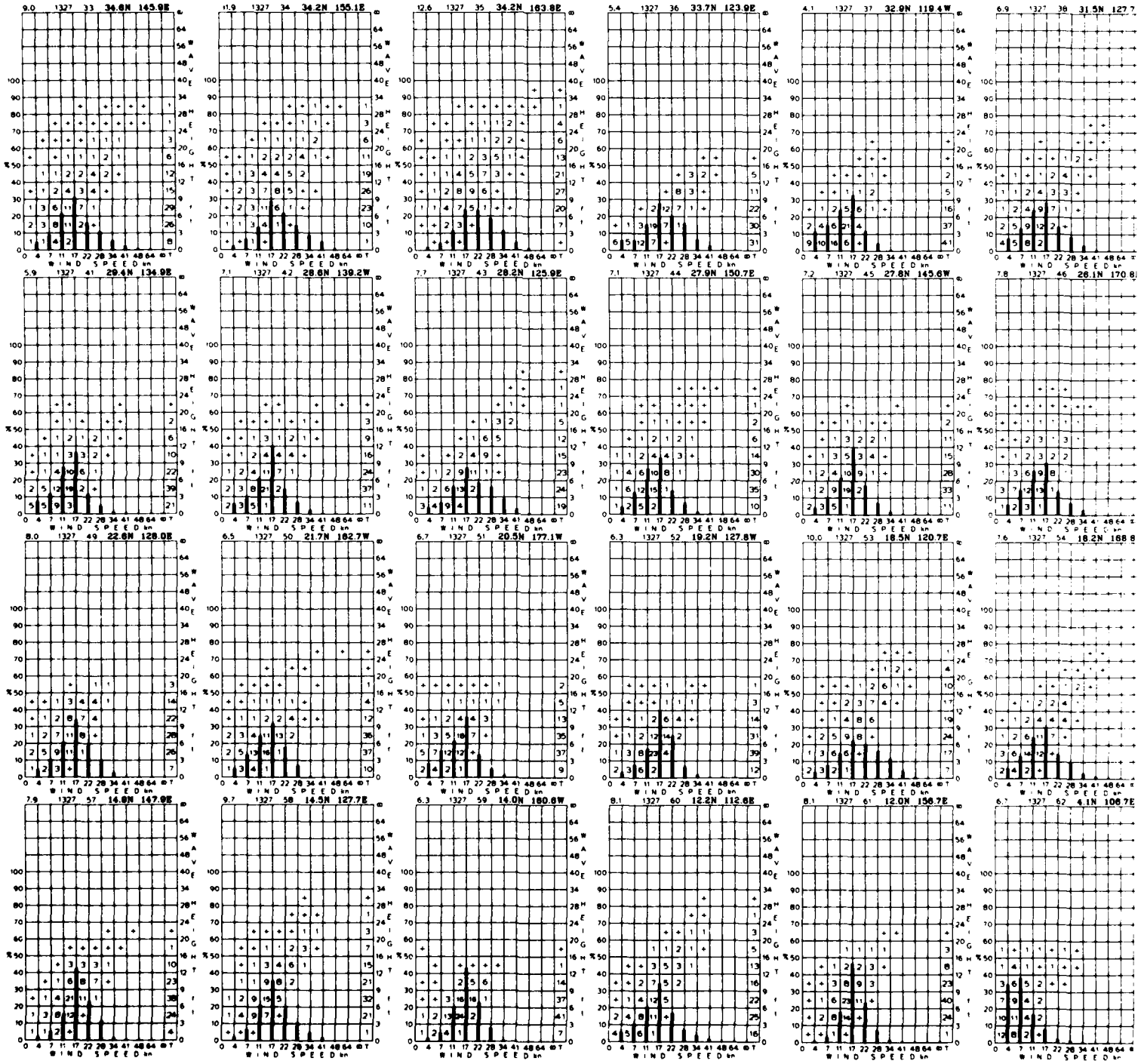


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WAVE HEIGHT AND WIND SPEED

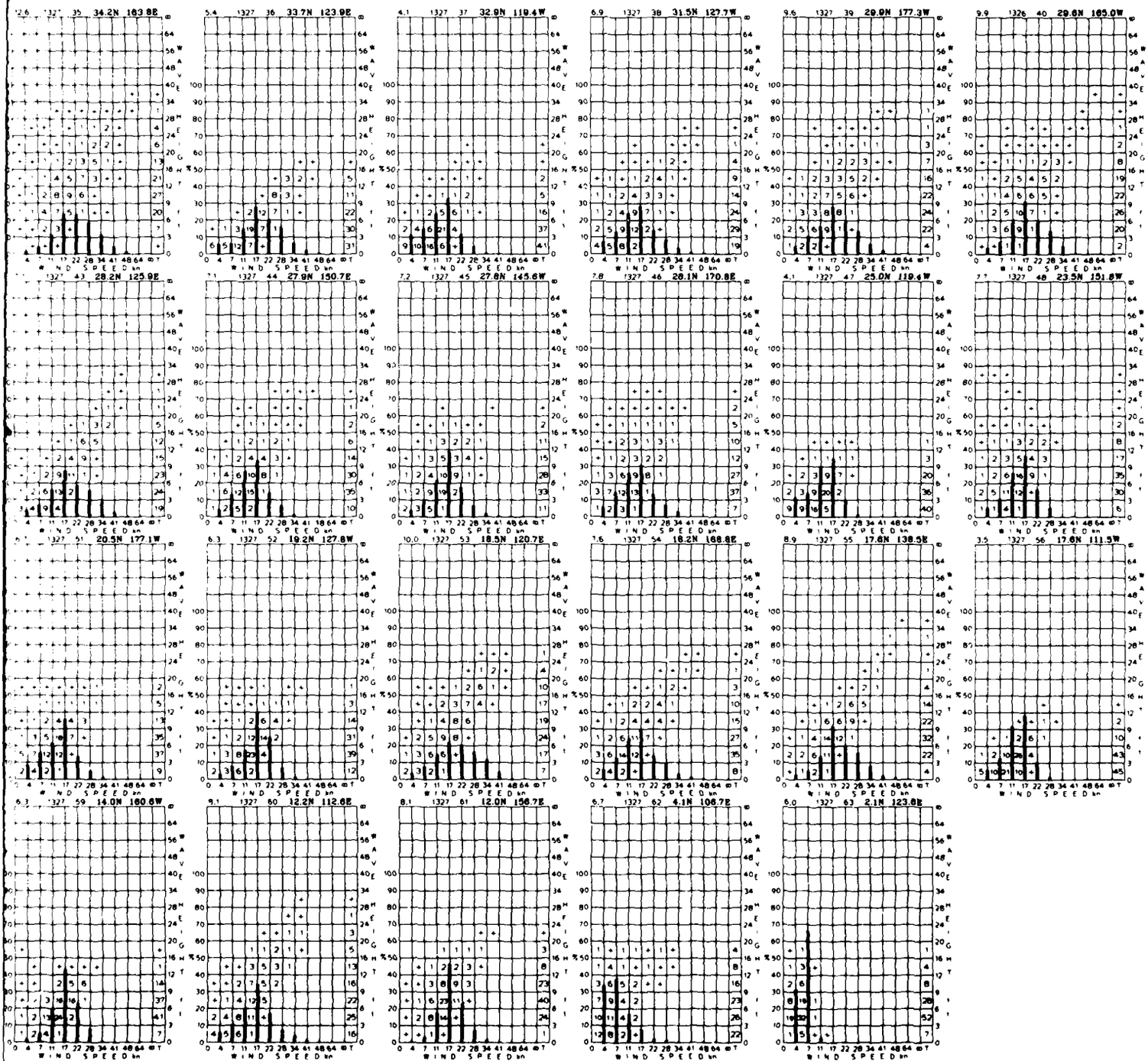


WAVE HEIGHT AND WIND SPEED (Cont'd)



WIND SPEED (Cont'd)

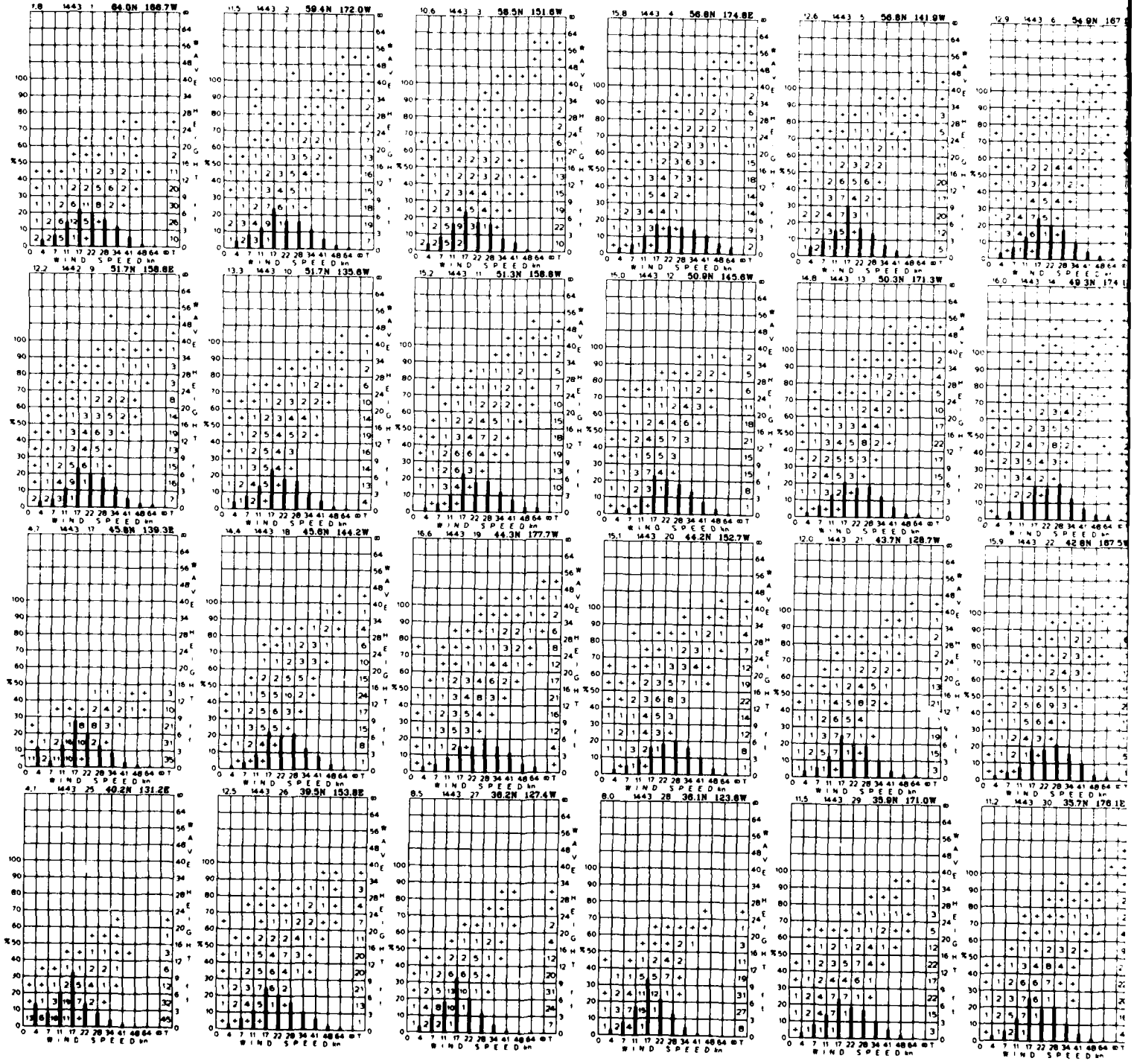
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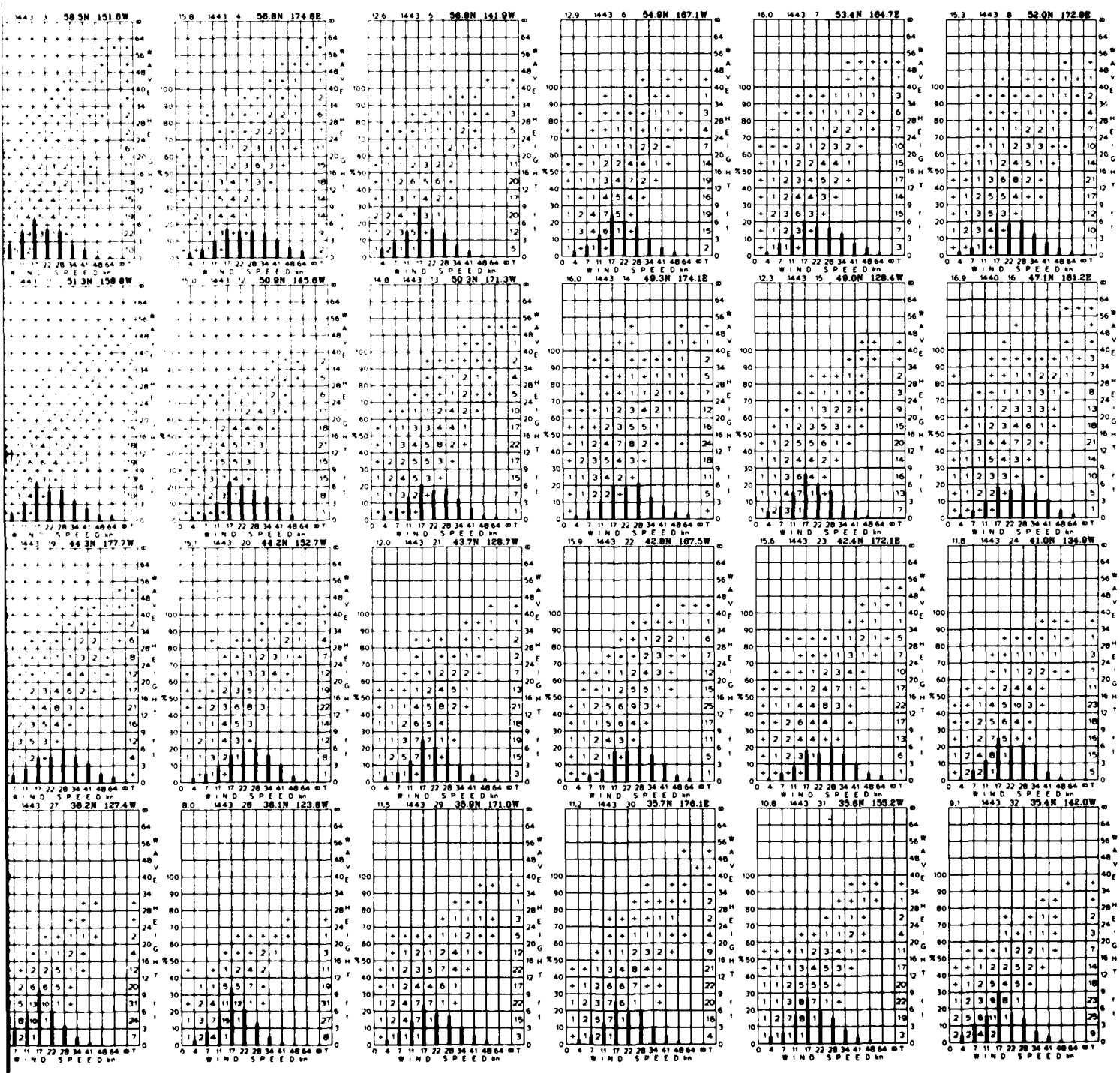
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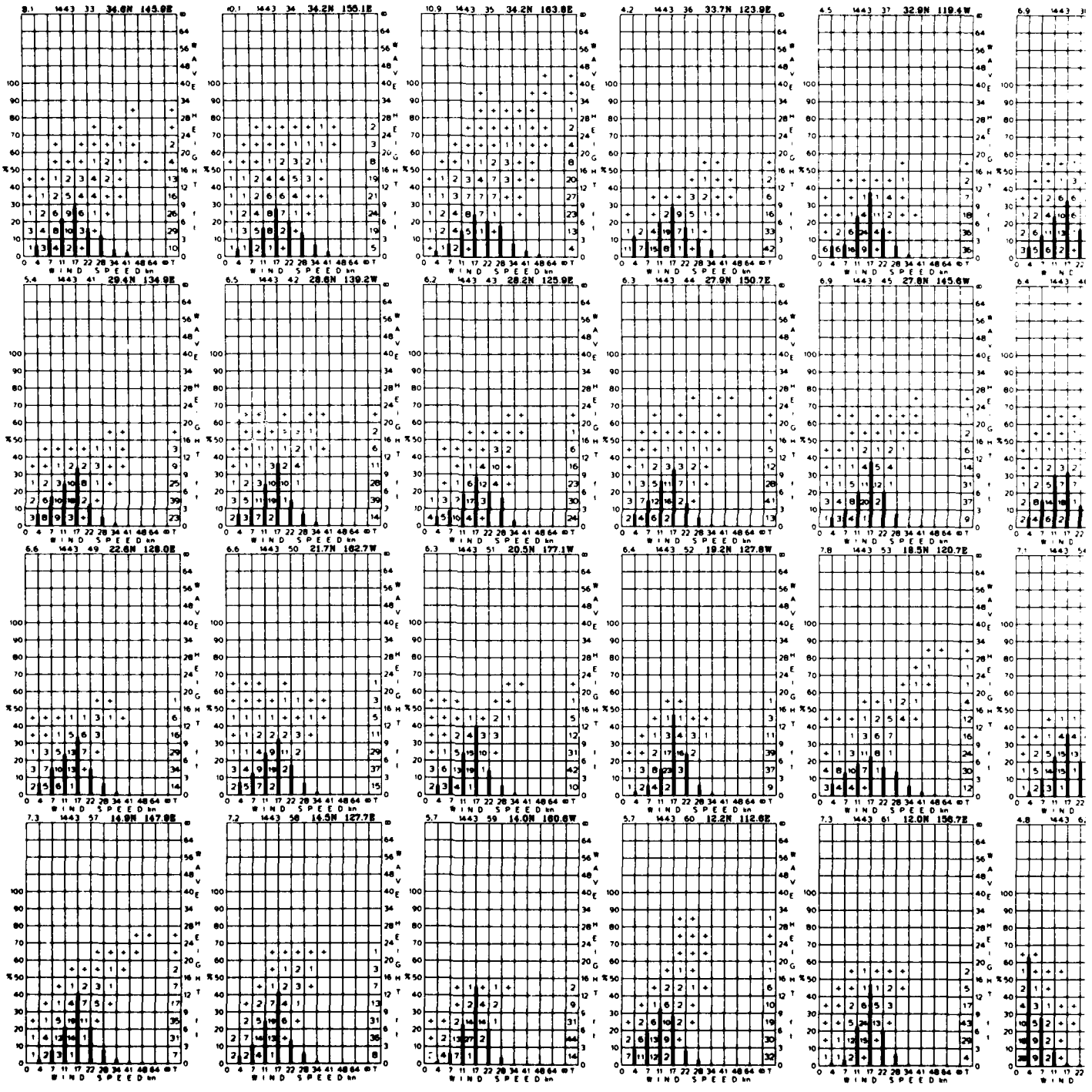
WAVE HEIGH



WAVE HEIGHT AND WIND SPEED

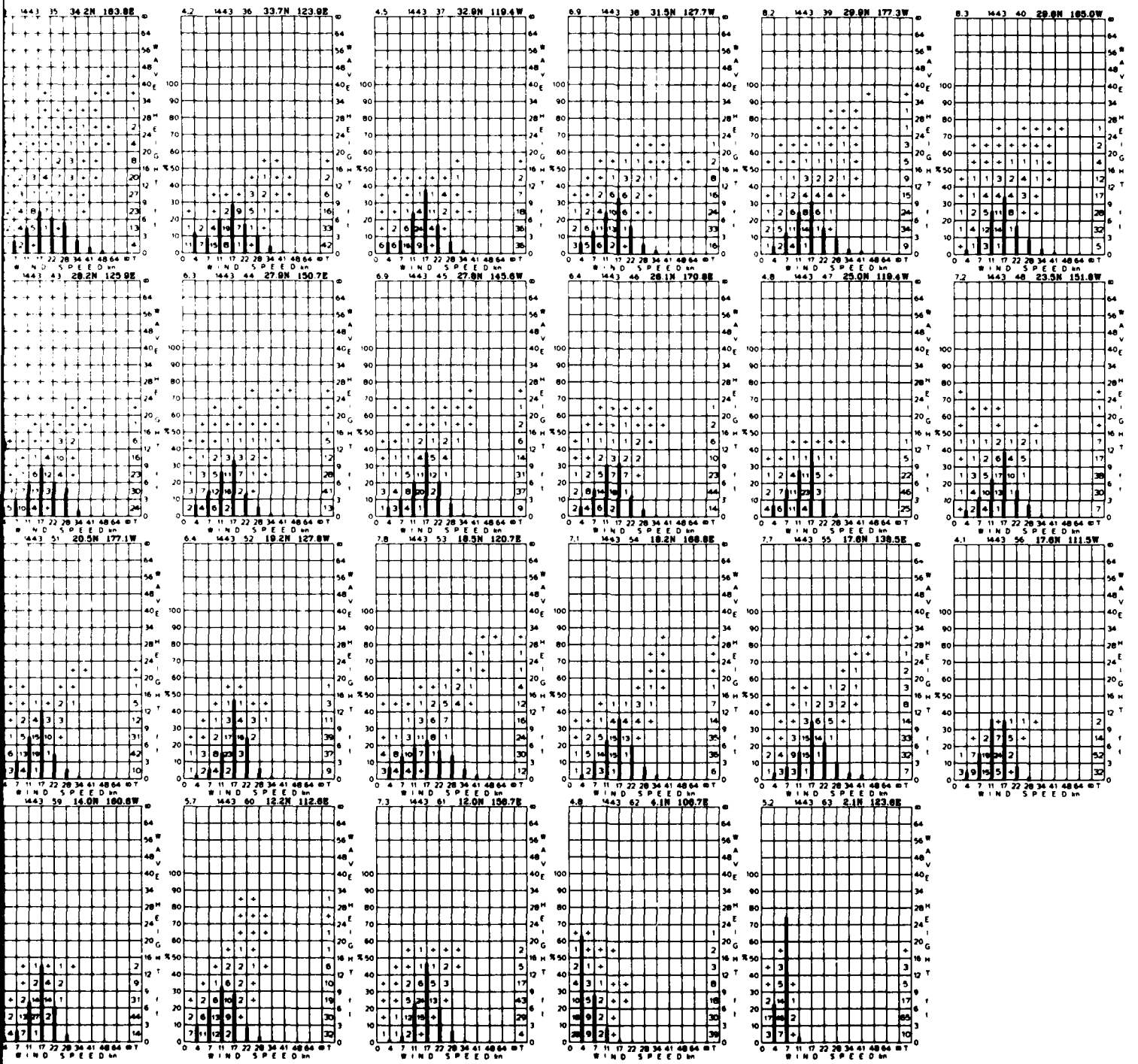


WAVE HEIGHT AND WIND SPEED (Cont'd)



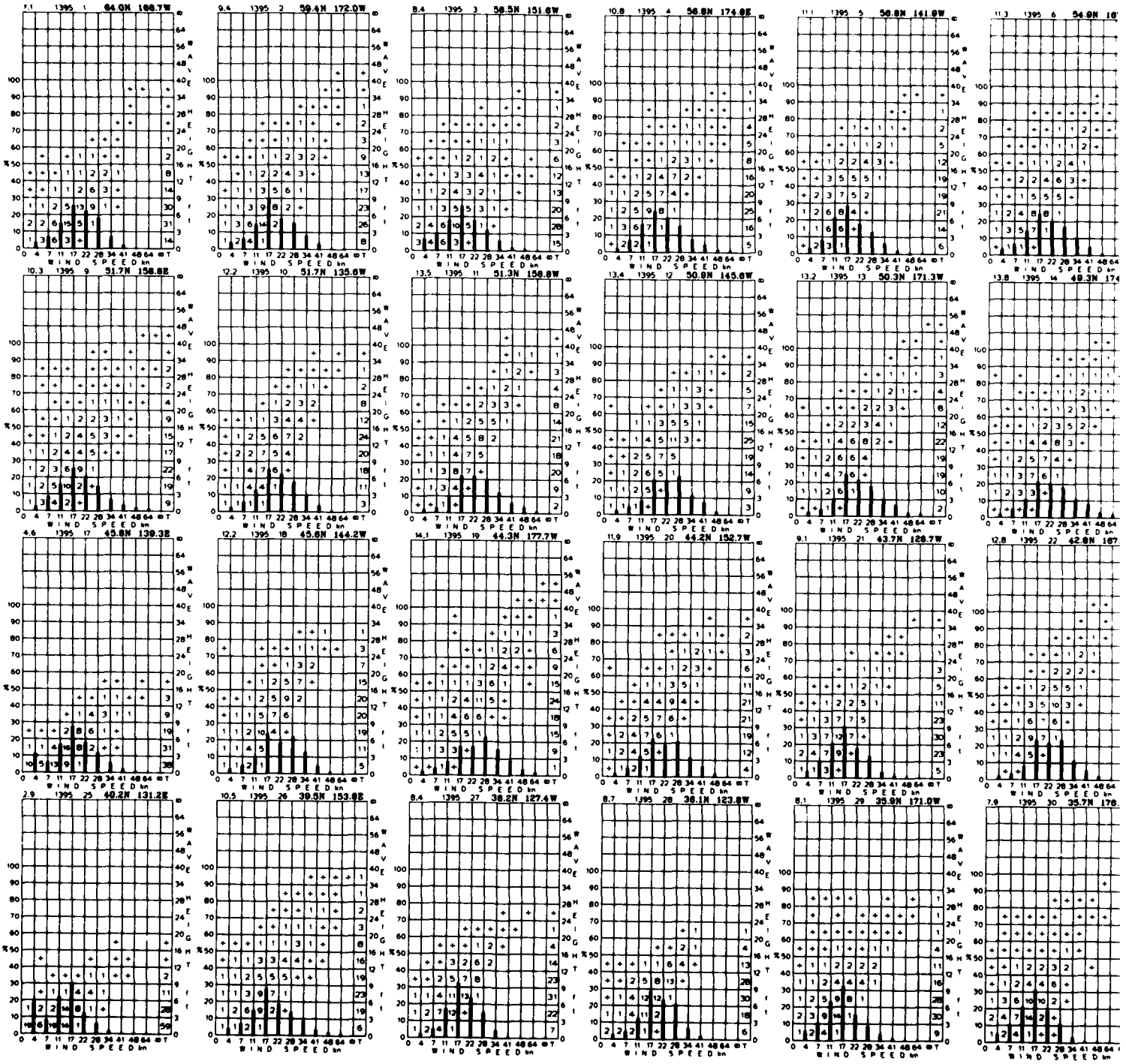
ND SPEED (Cont'd)

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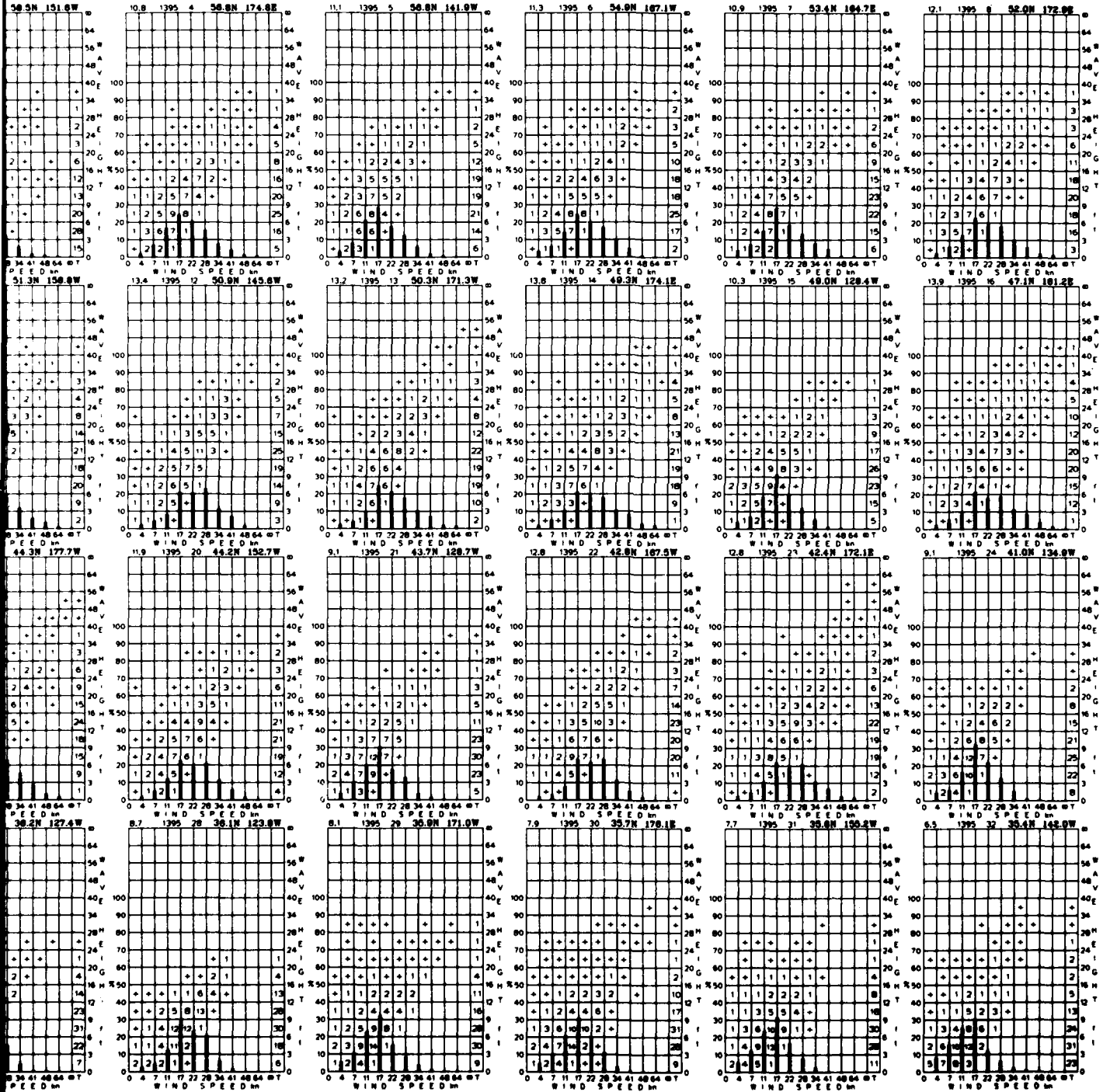


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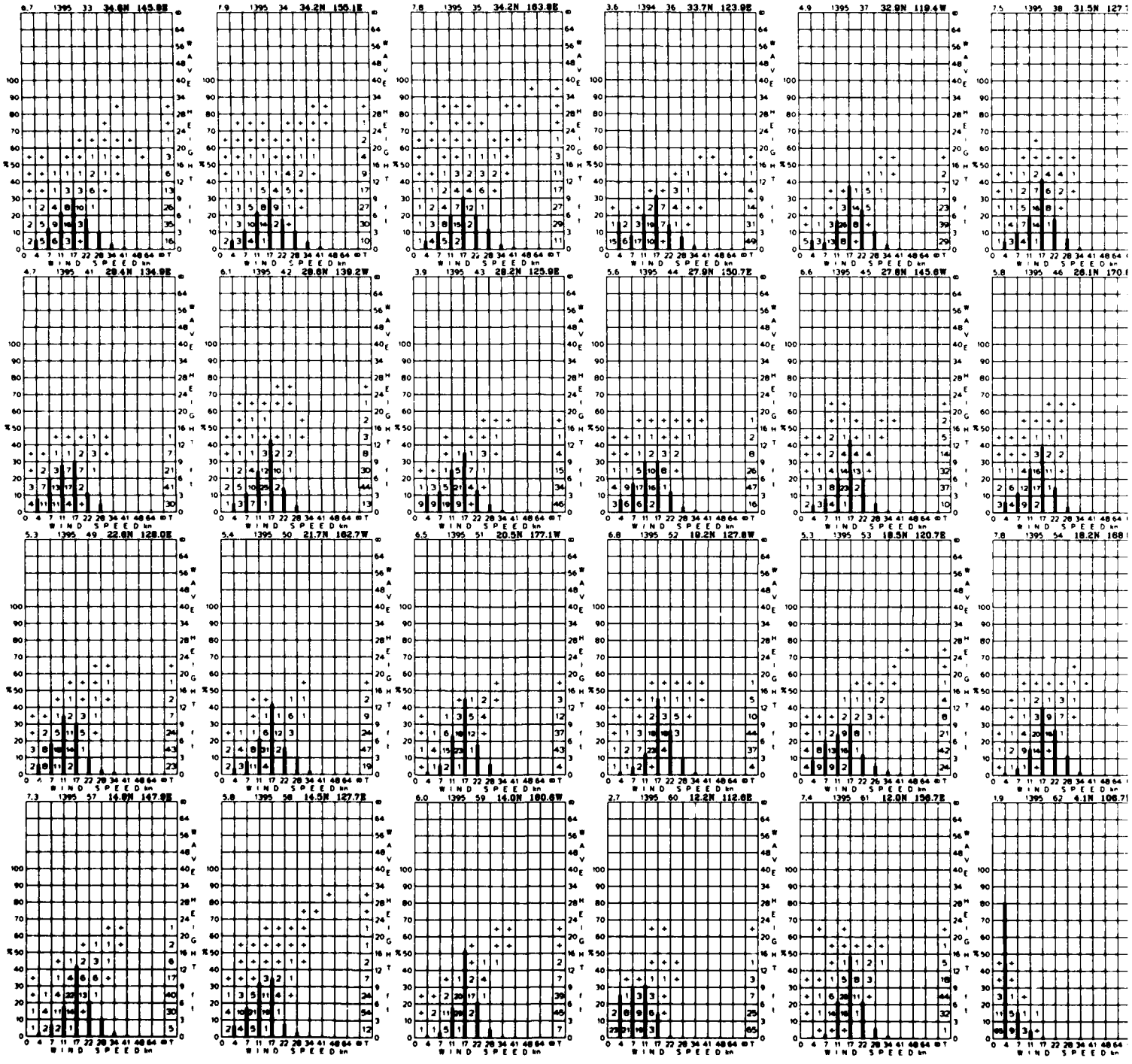
WAVE HEIG



WAVE HEIGHT AND WIND SPEED

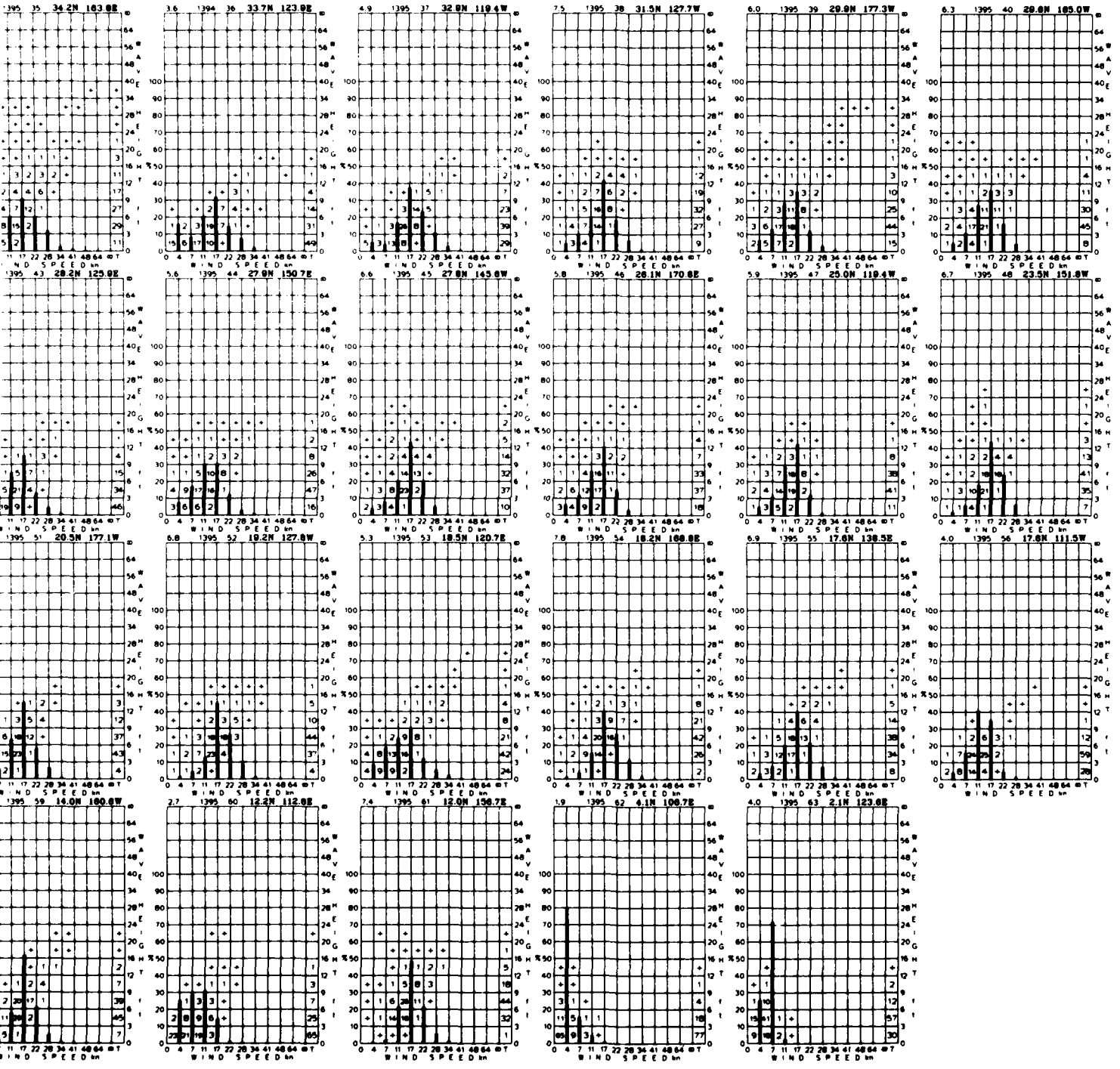


WAVE HEIGHT AND WIND SPEED (Cont'd)



ID SPEED (Cont'd)

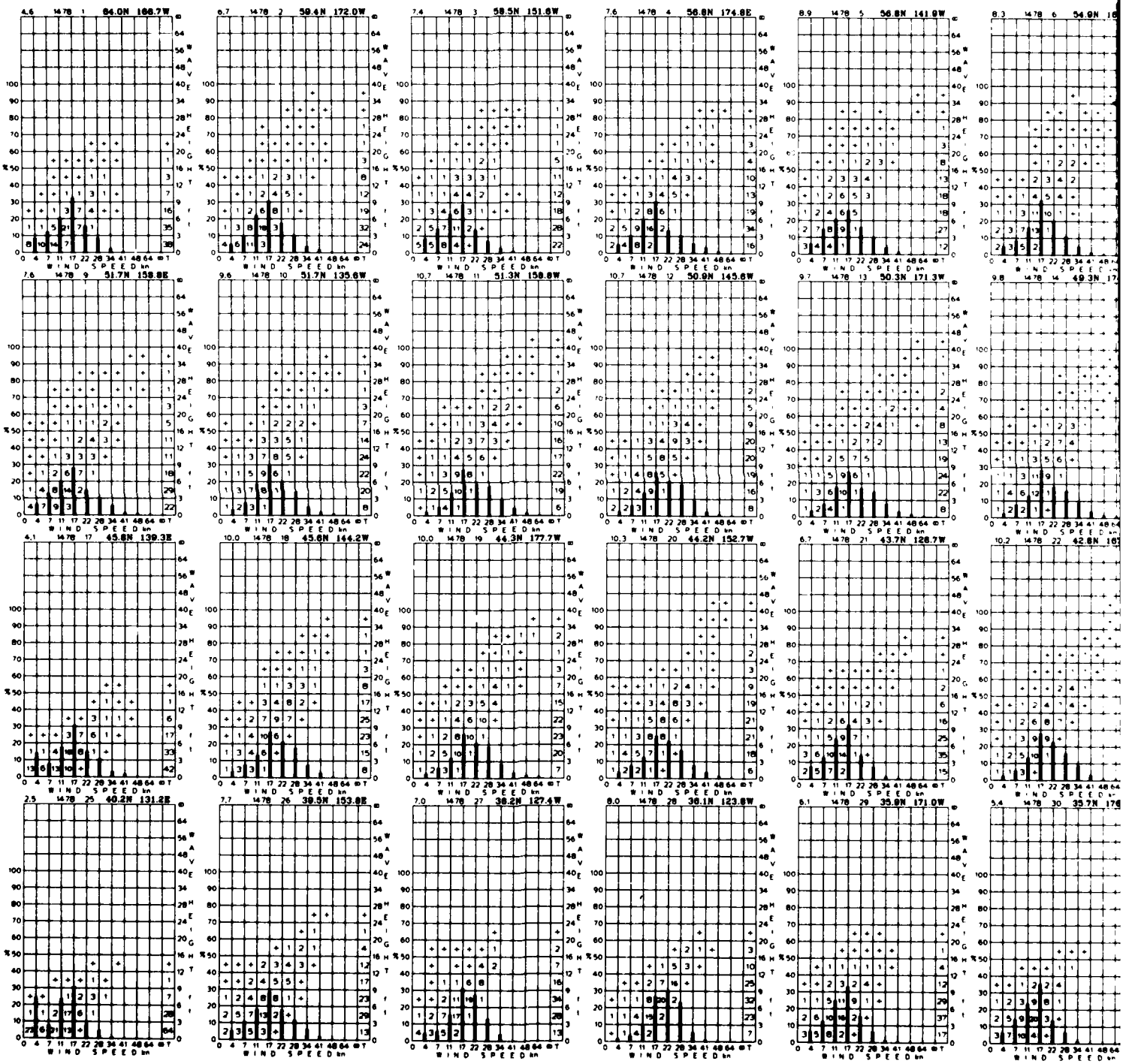
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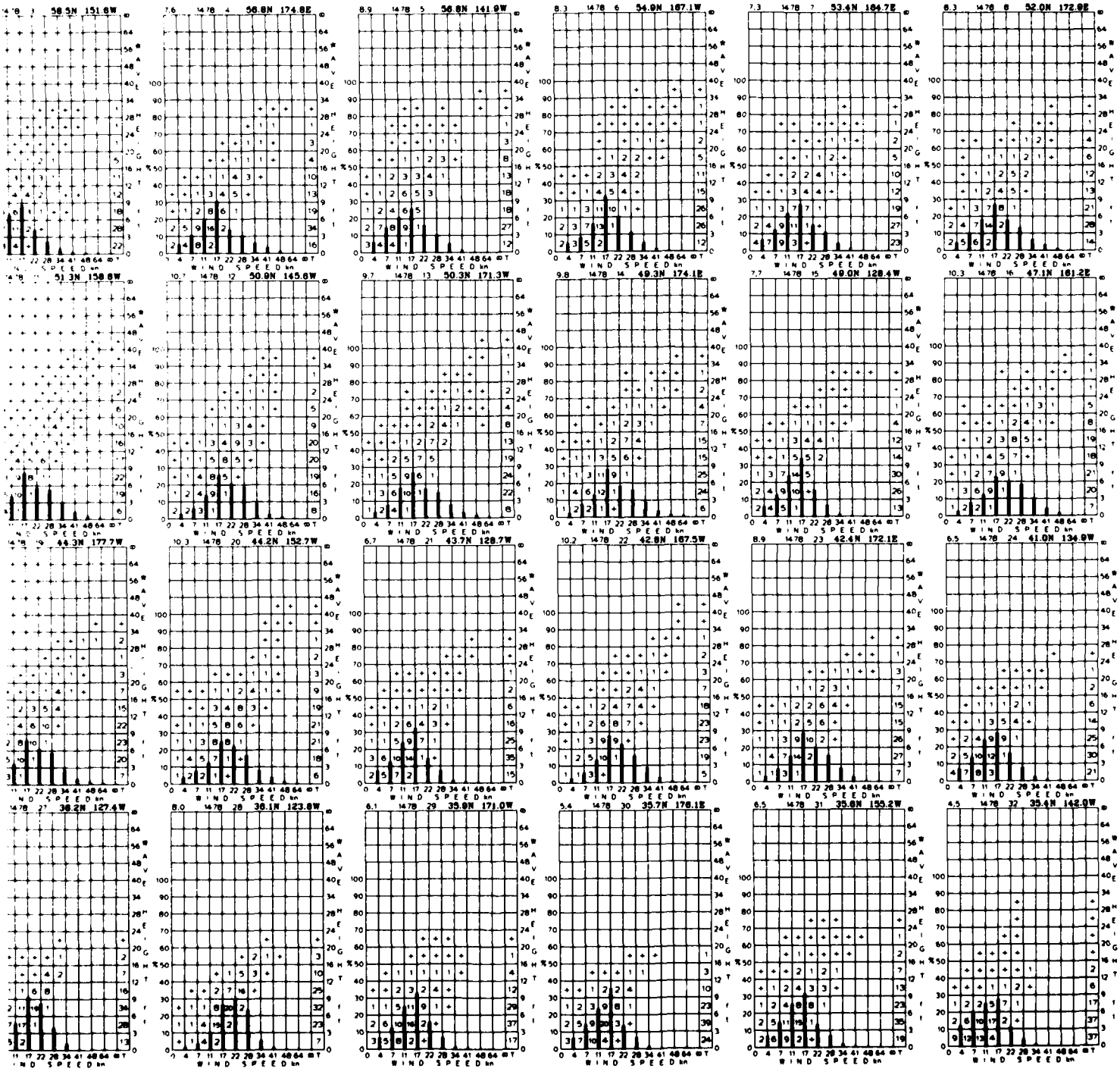
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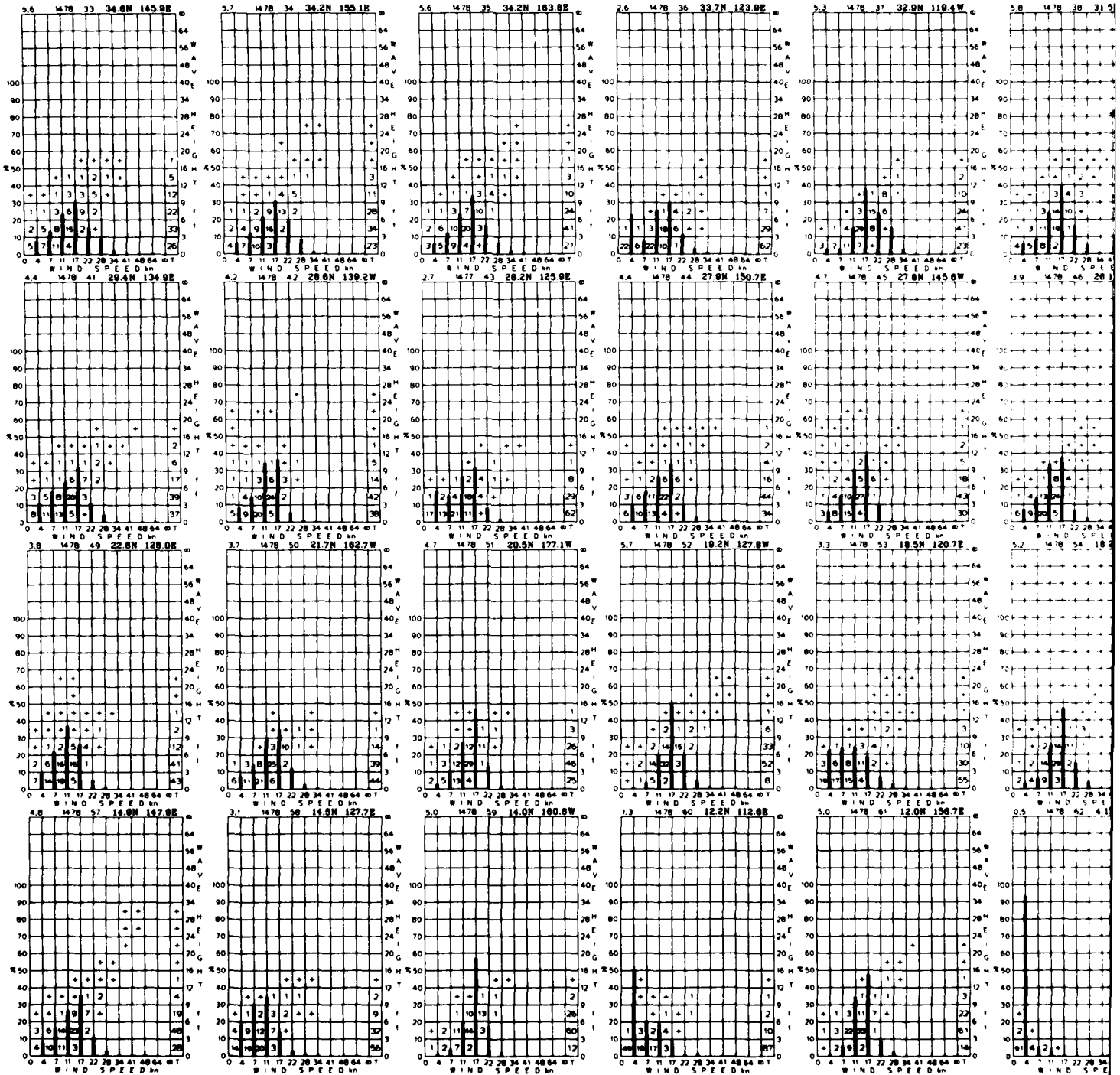
WAVE HEIG



WAVE HEIGHT AND WIND SPEED

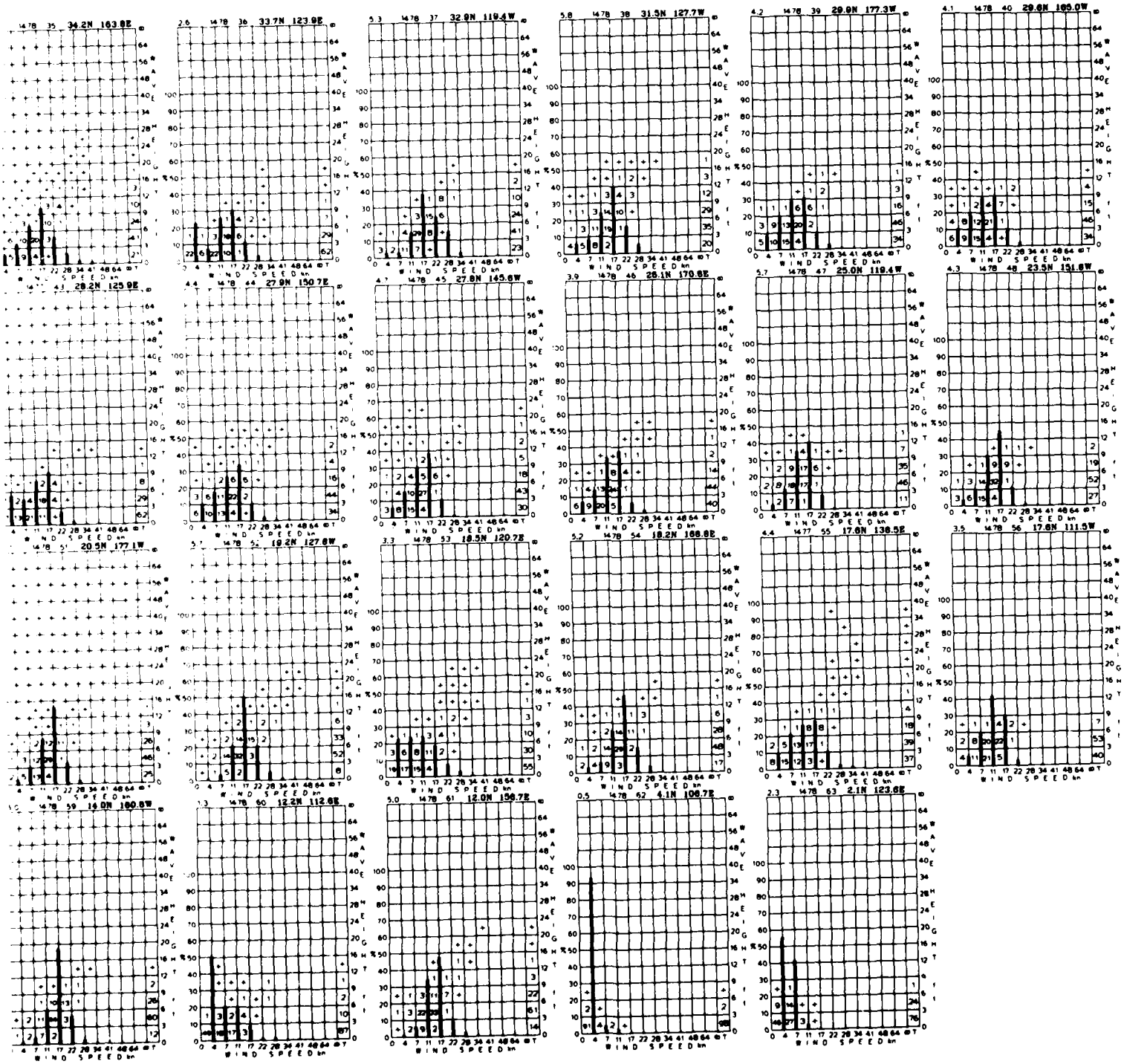


WAVE HEIGHT AND WIND SPEED (Cont'd)



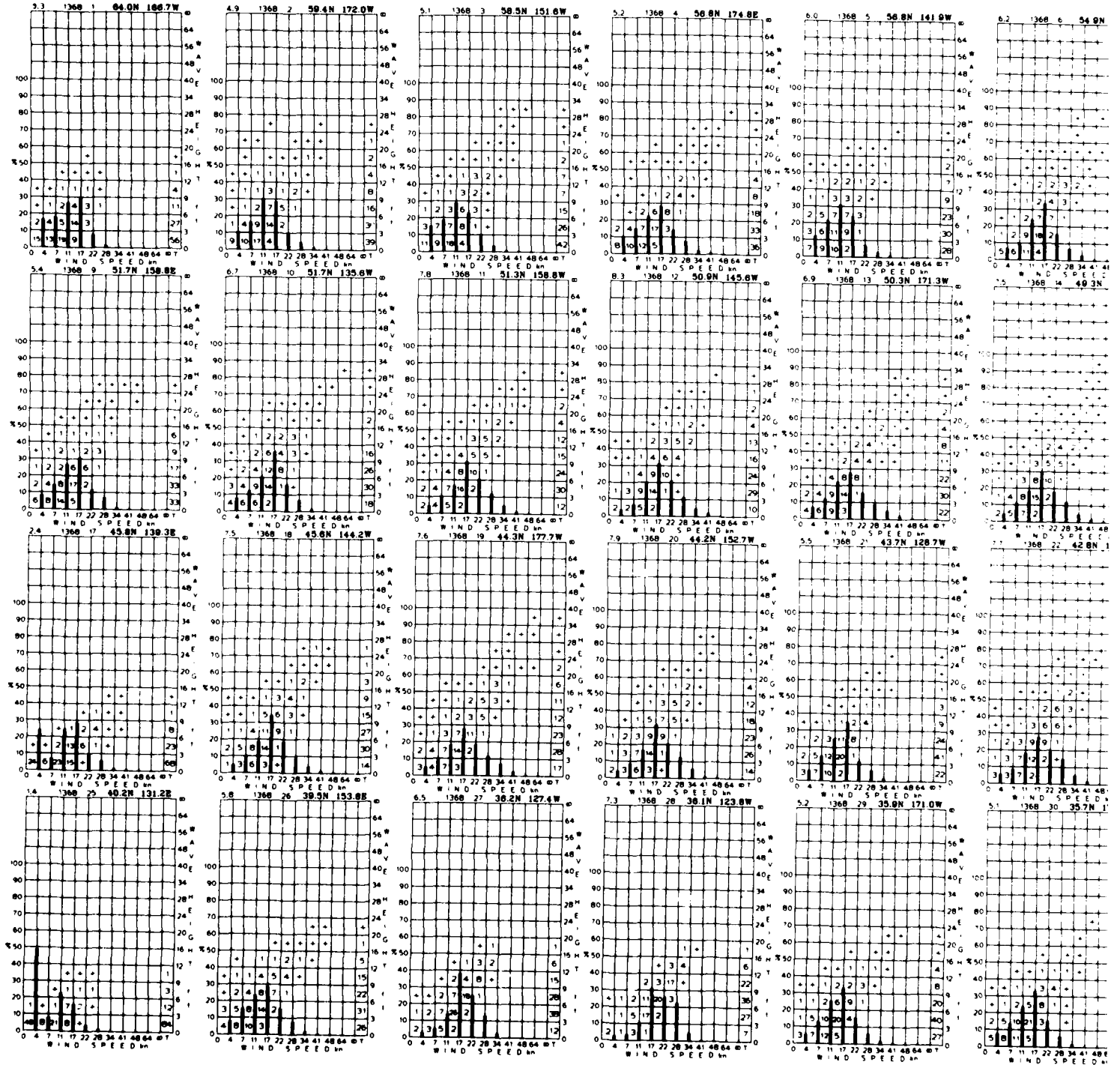
ND SPEED (Cont'd)

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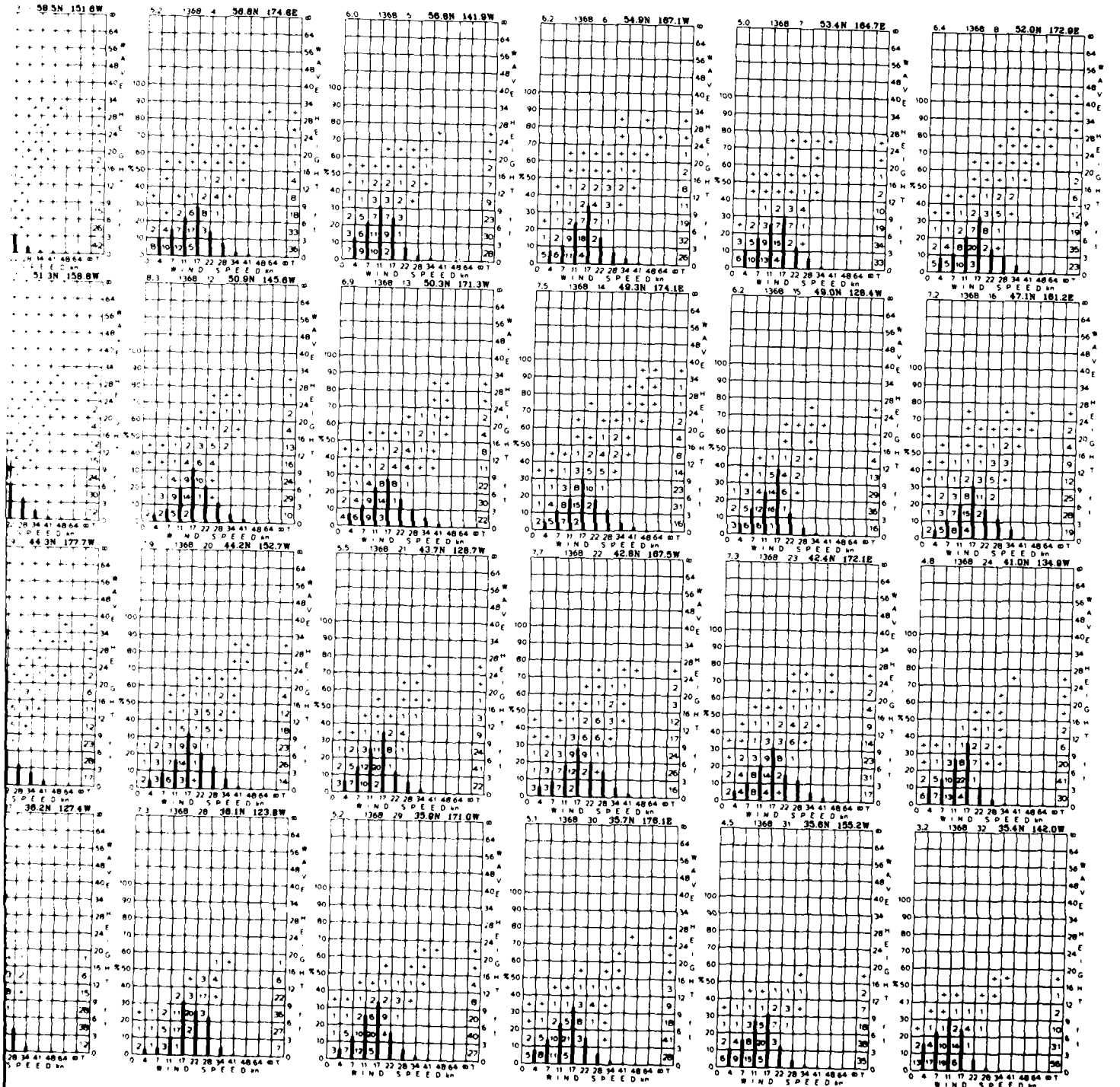


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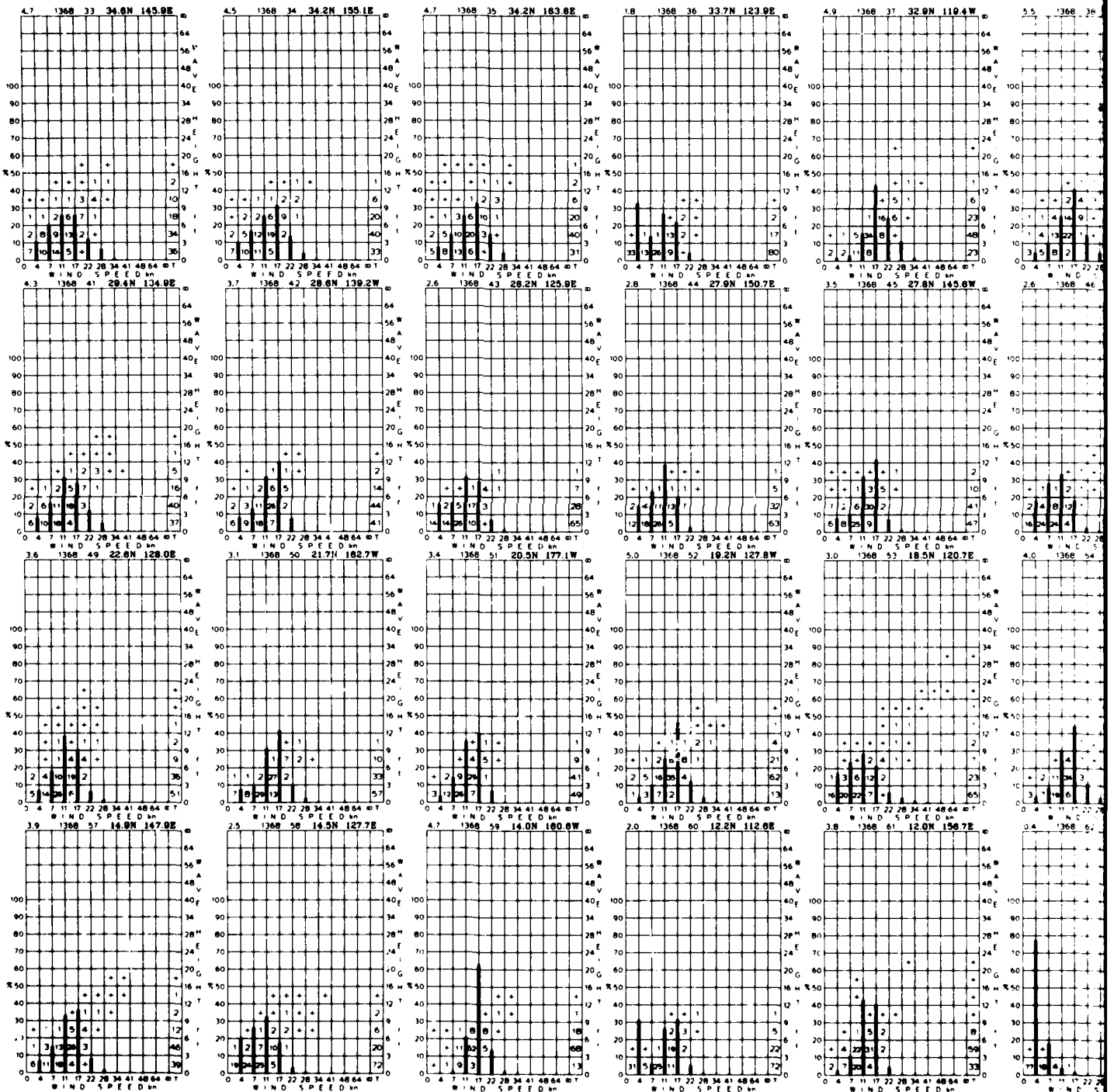
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WAVE HEIGHT AND WIND SPEED

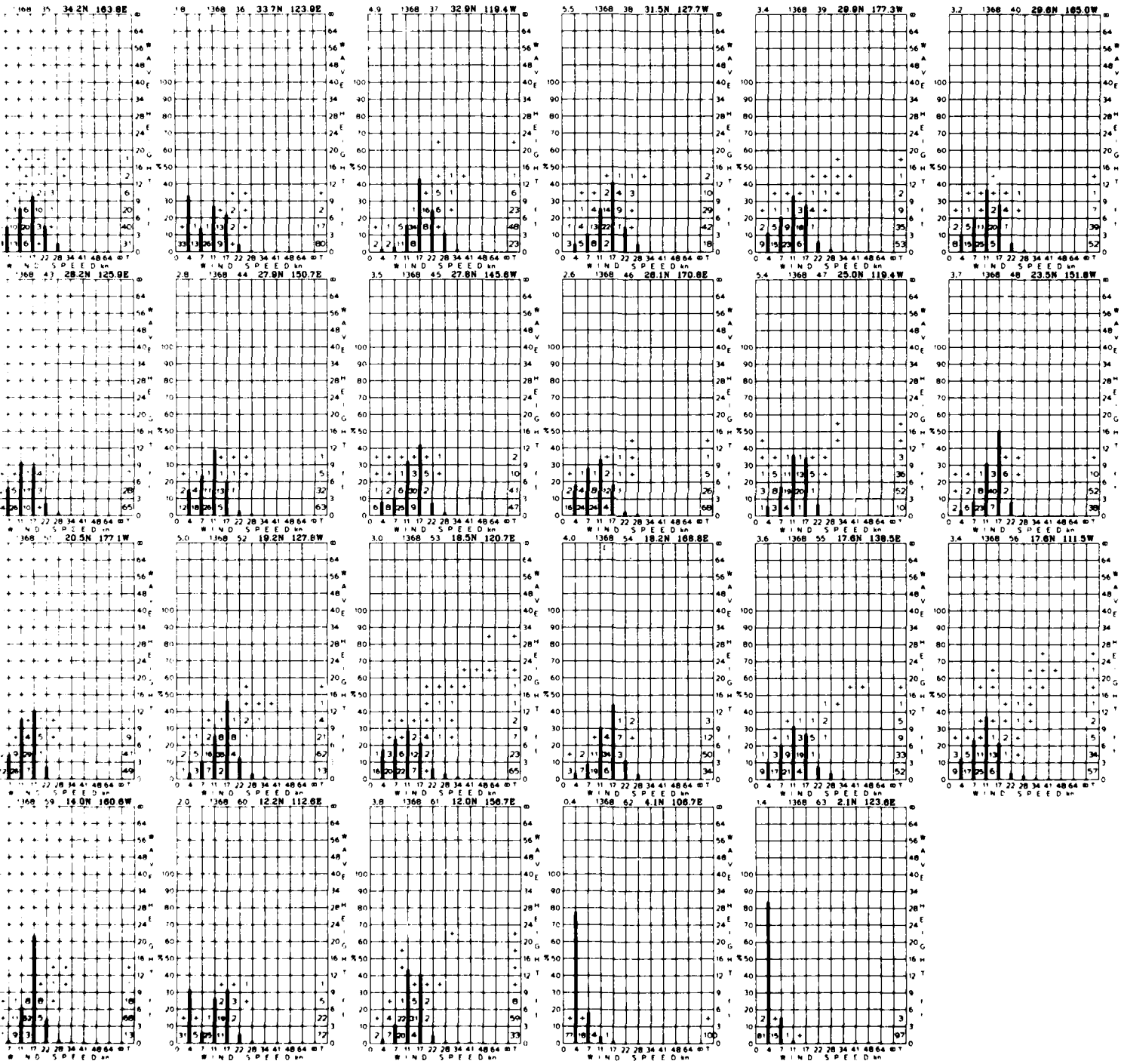


WAVE HEIGHT AND WIND SPEED (Cont'd)



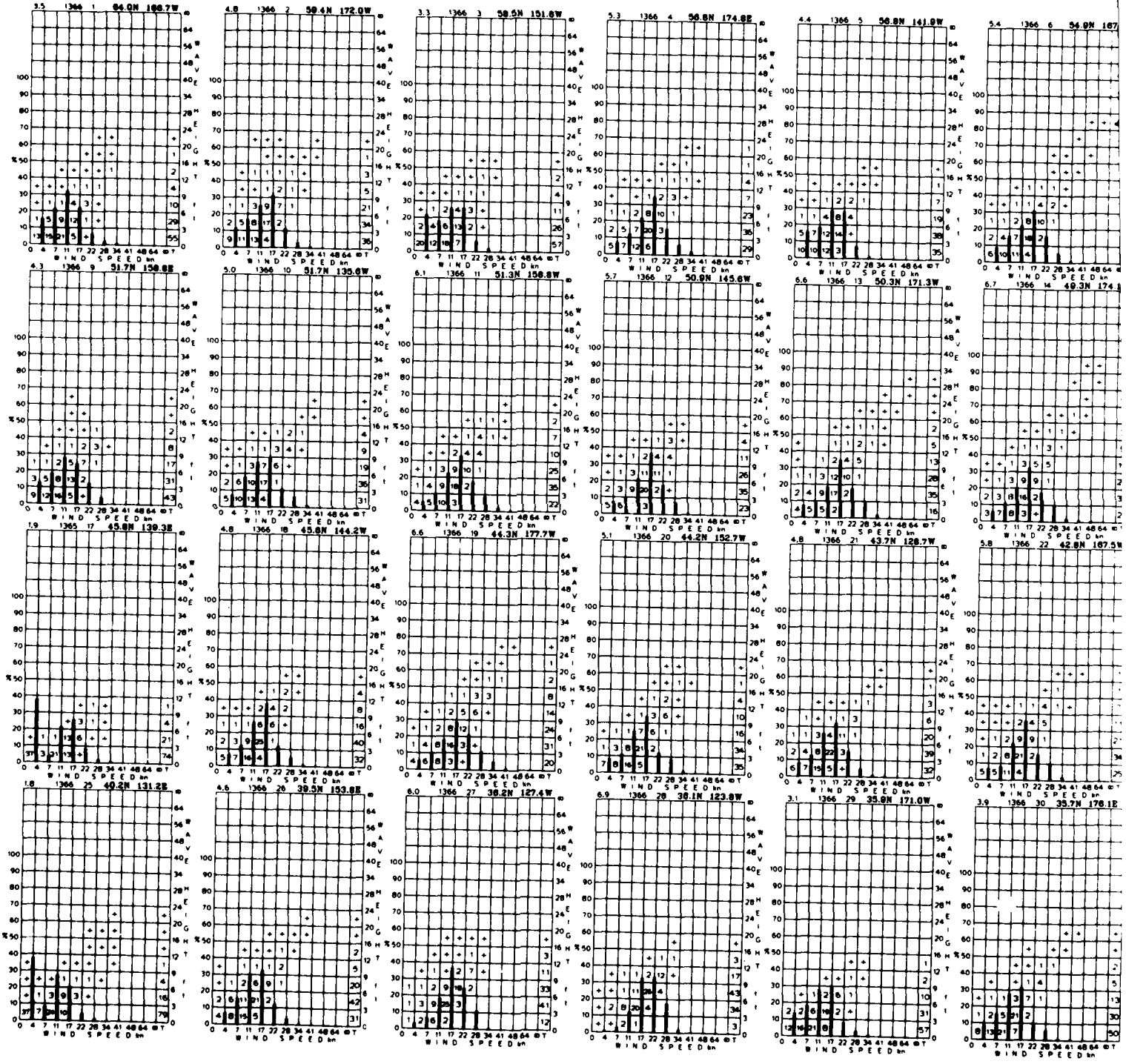
ND SPEED (Cont'd)

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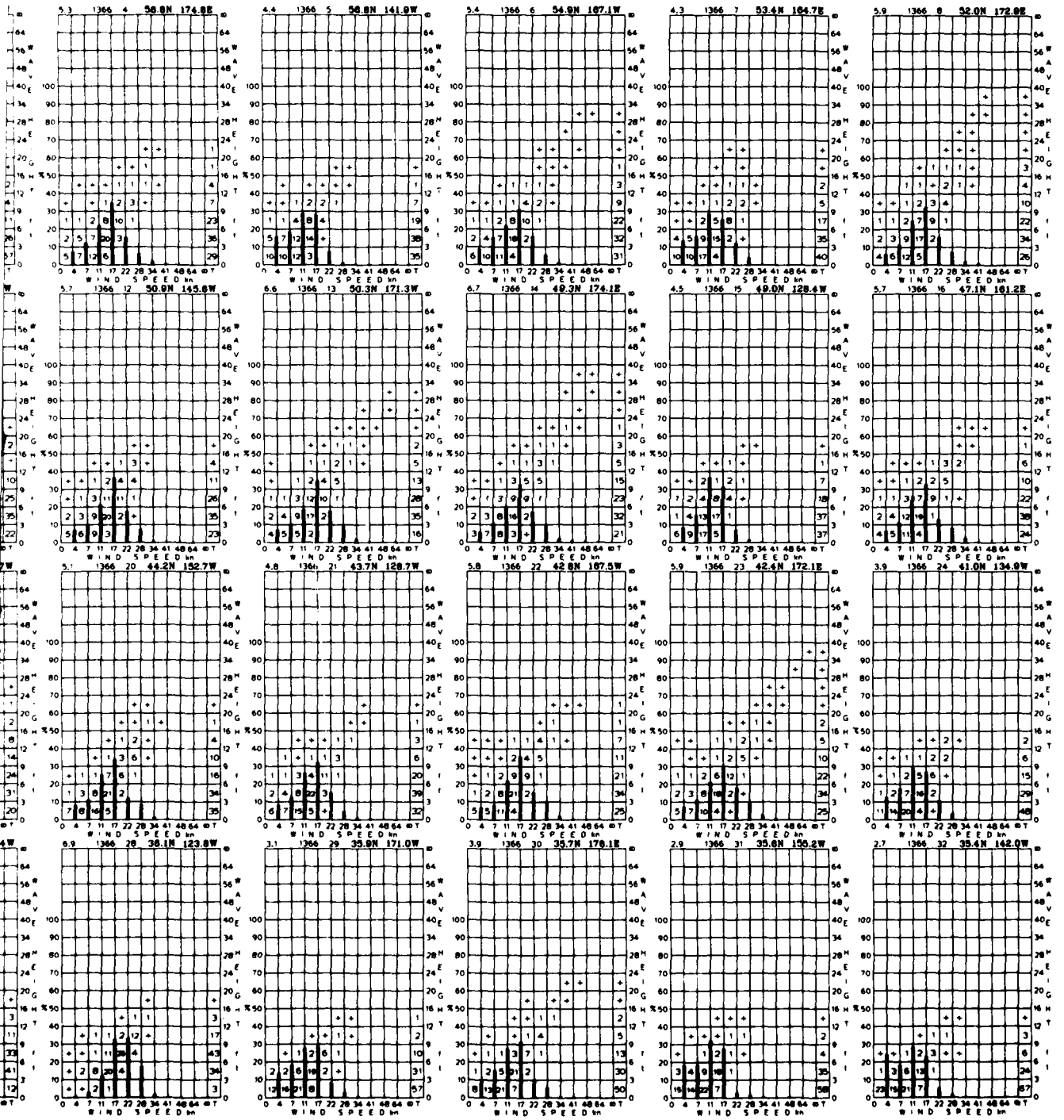


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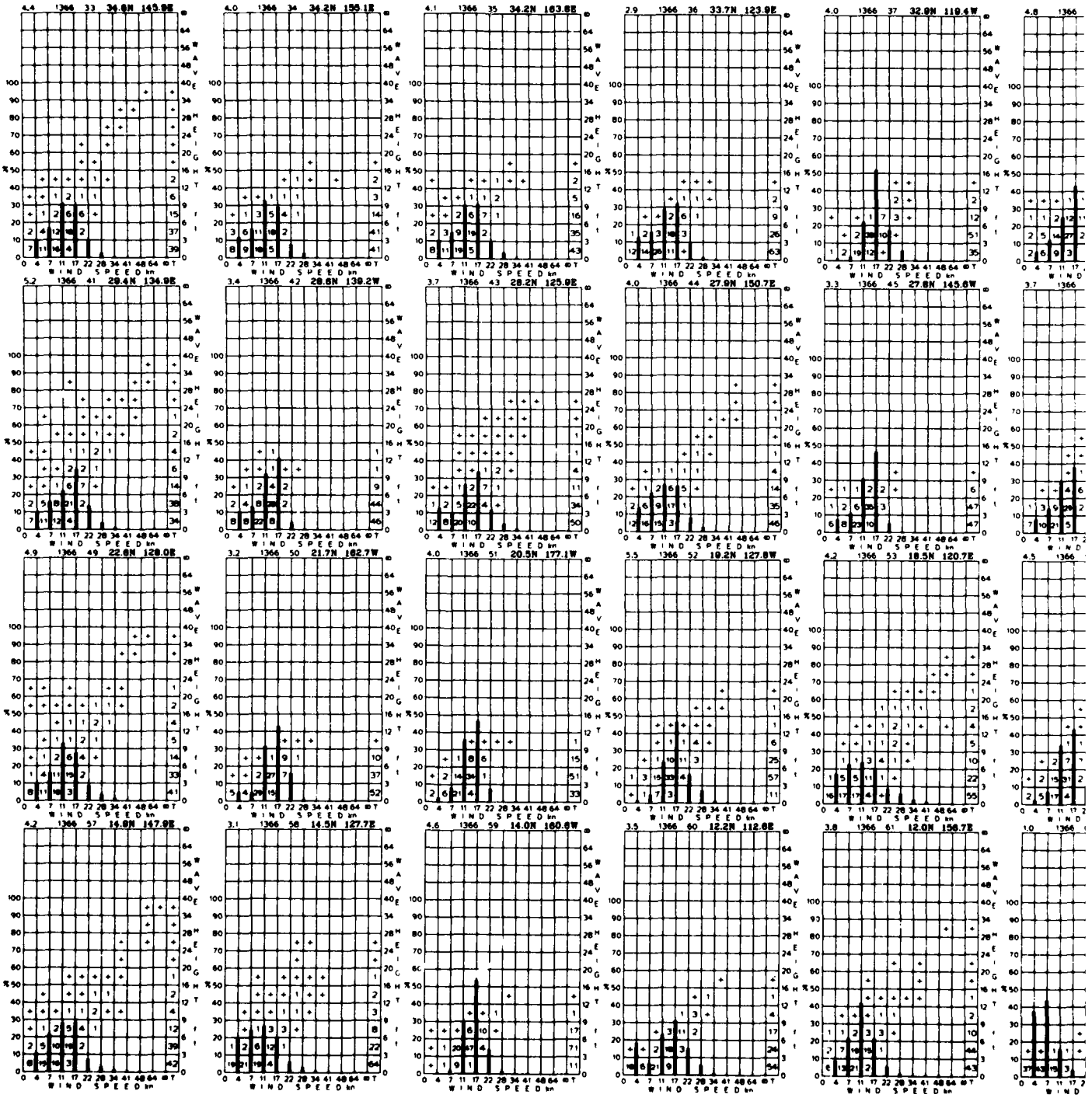
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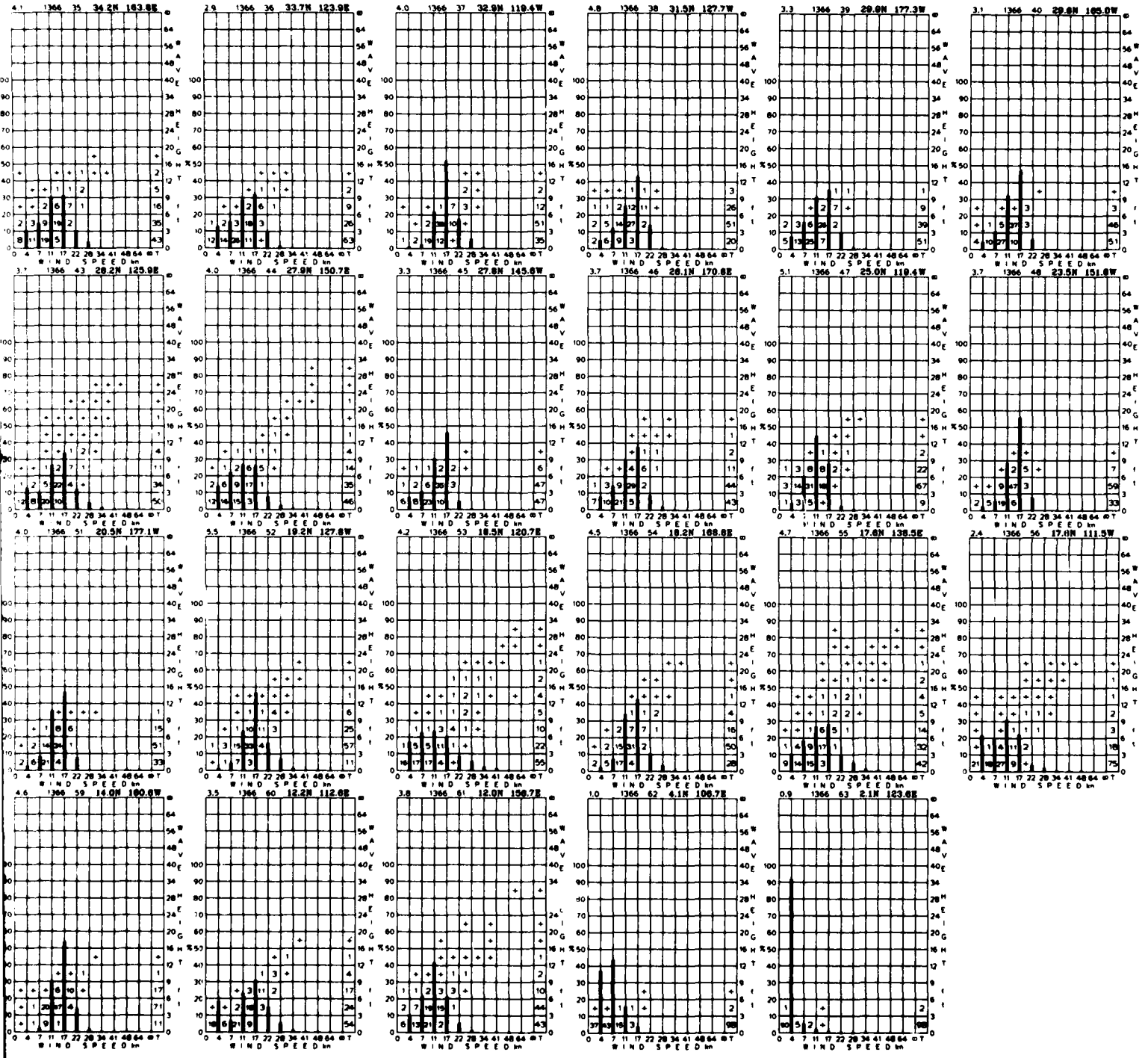
WAVE HEIGHT AND WIND SPEED



WAVE HEIGHT AND WIND SPEED (Cont'd)

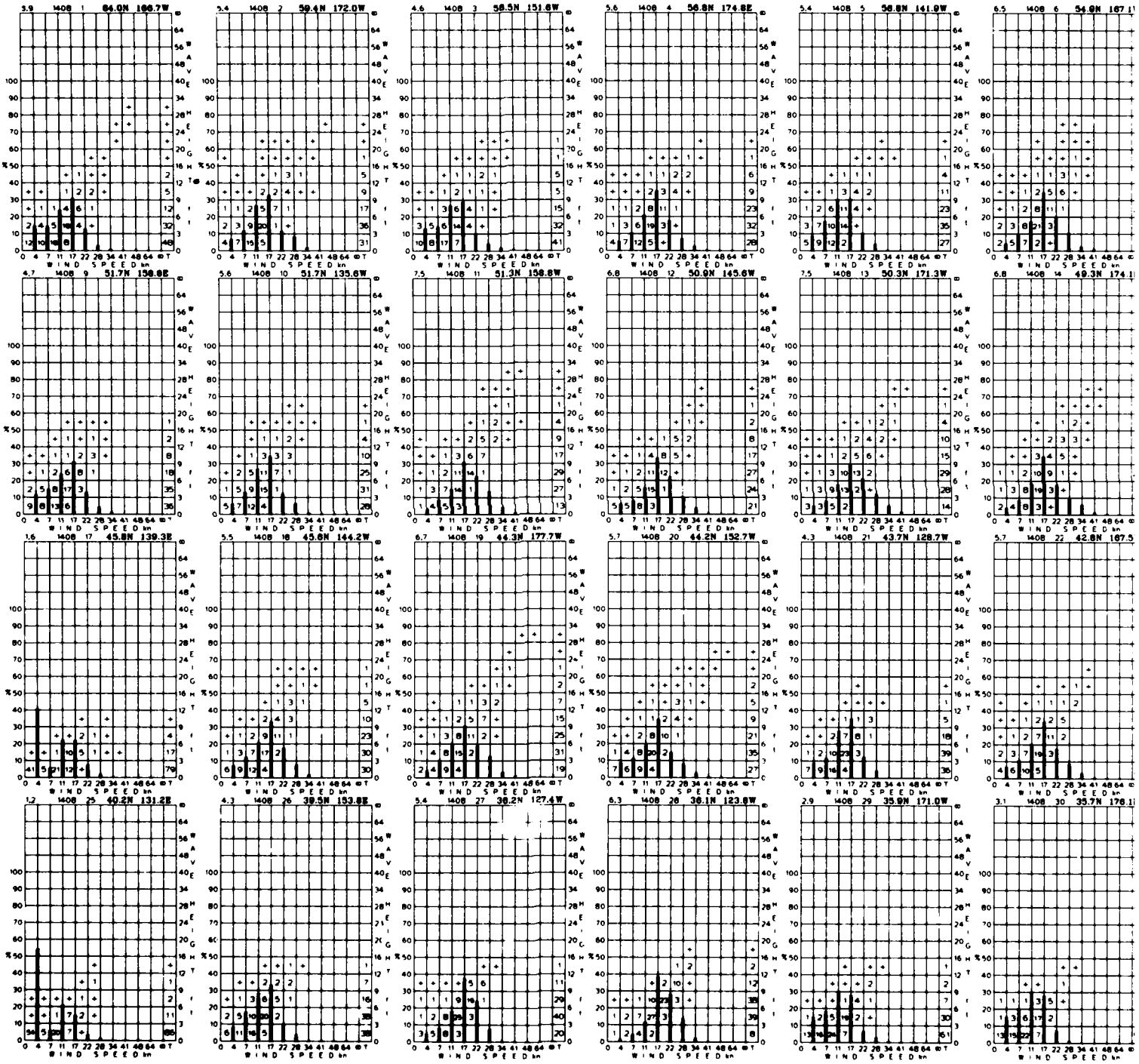


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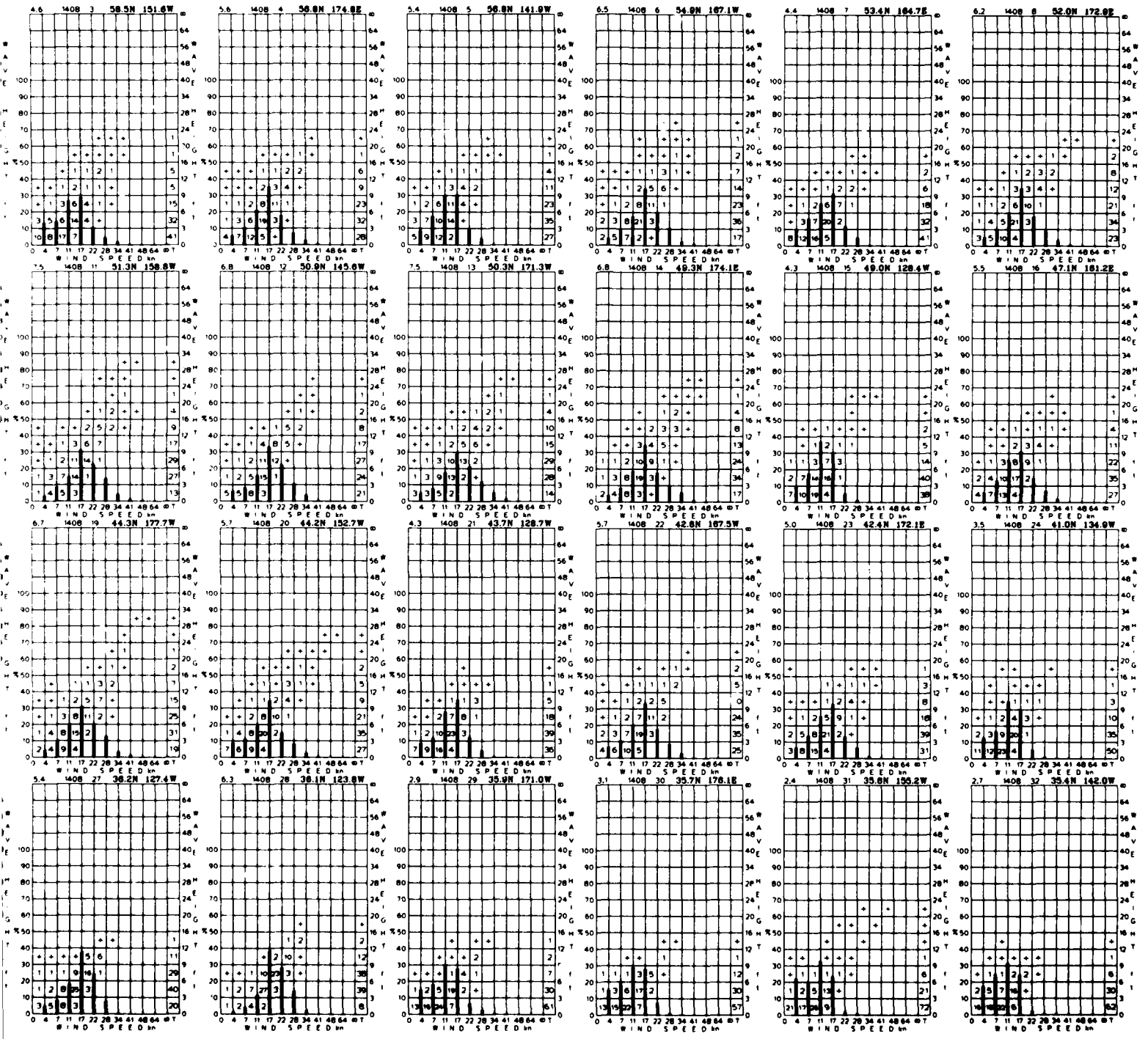


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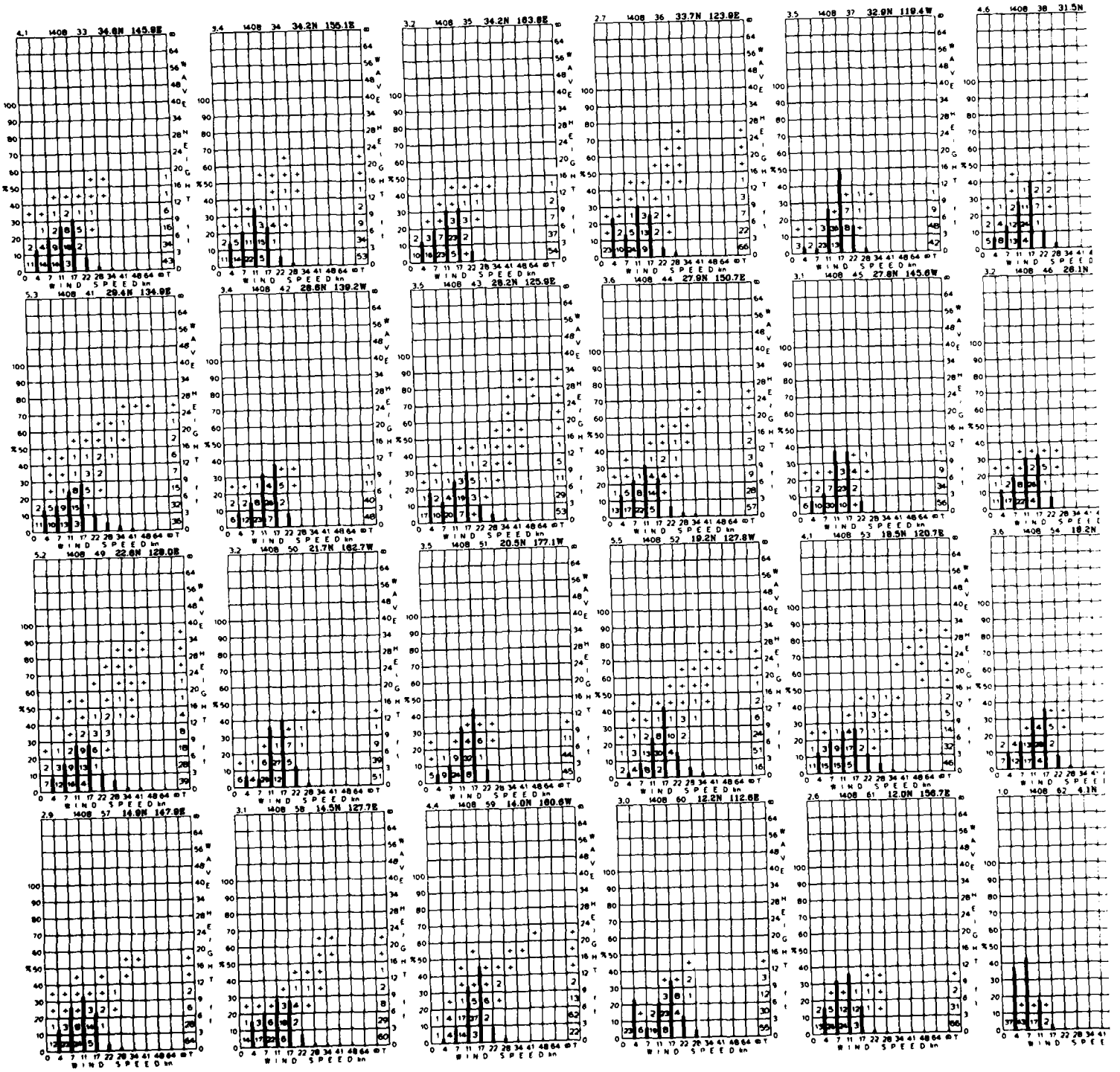
WAVE HEIGH



WAVE HEIGHT AND WIND SPEED

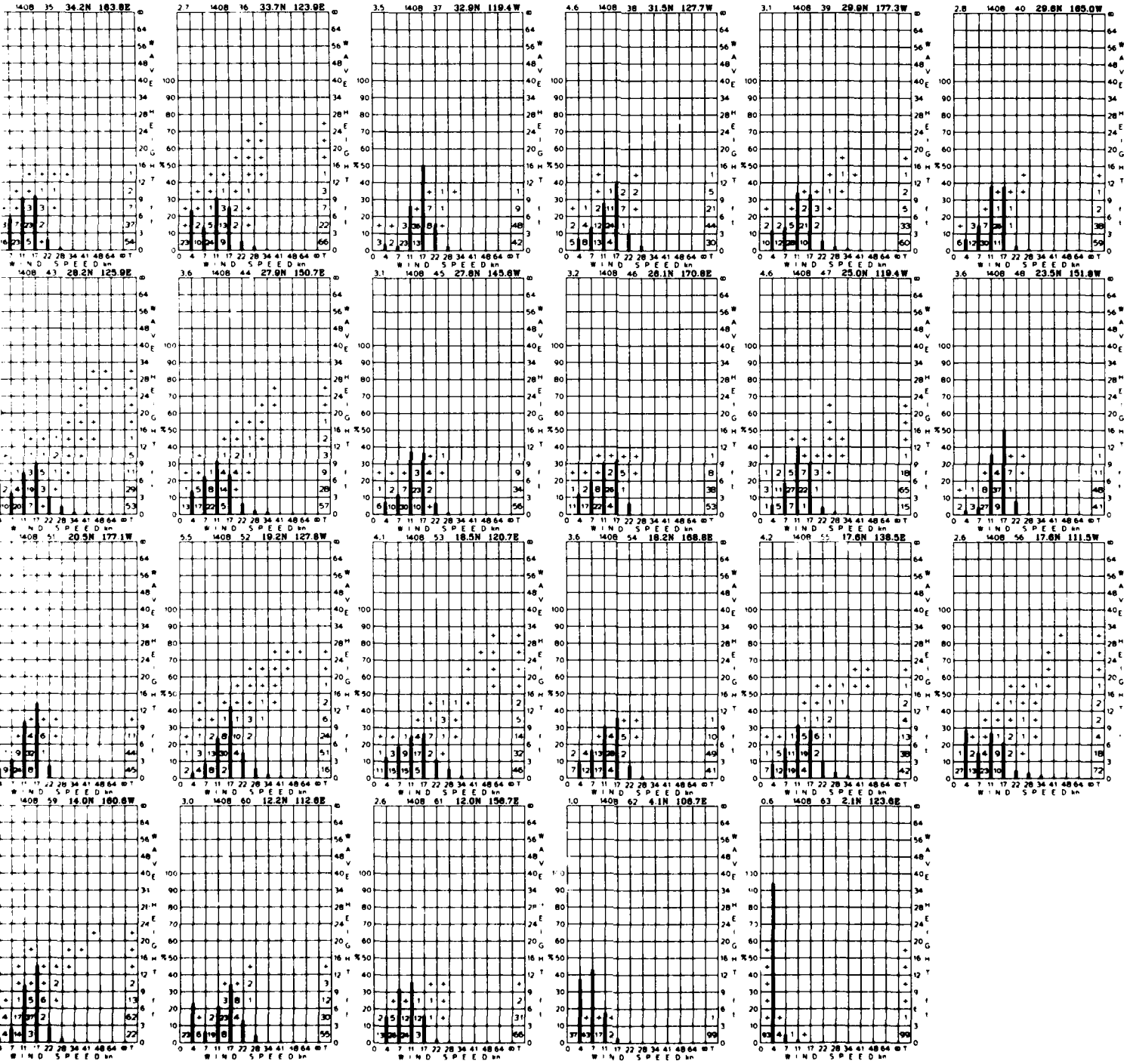


WAVE HEIGHT AND WIND SPEED (Cont'd)



ND SPEED (Cont'd)

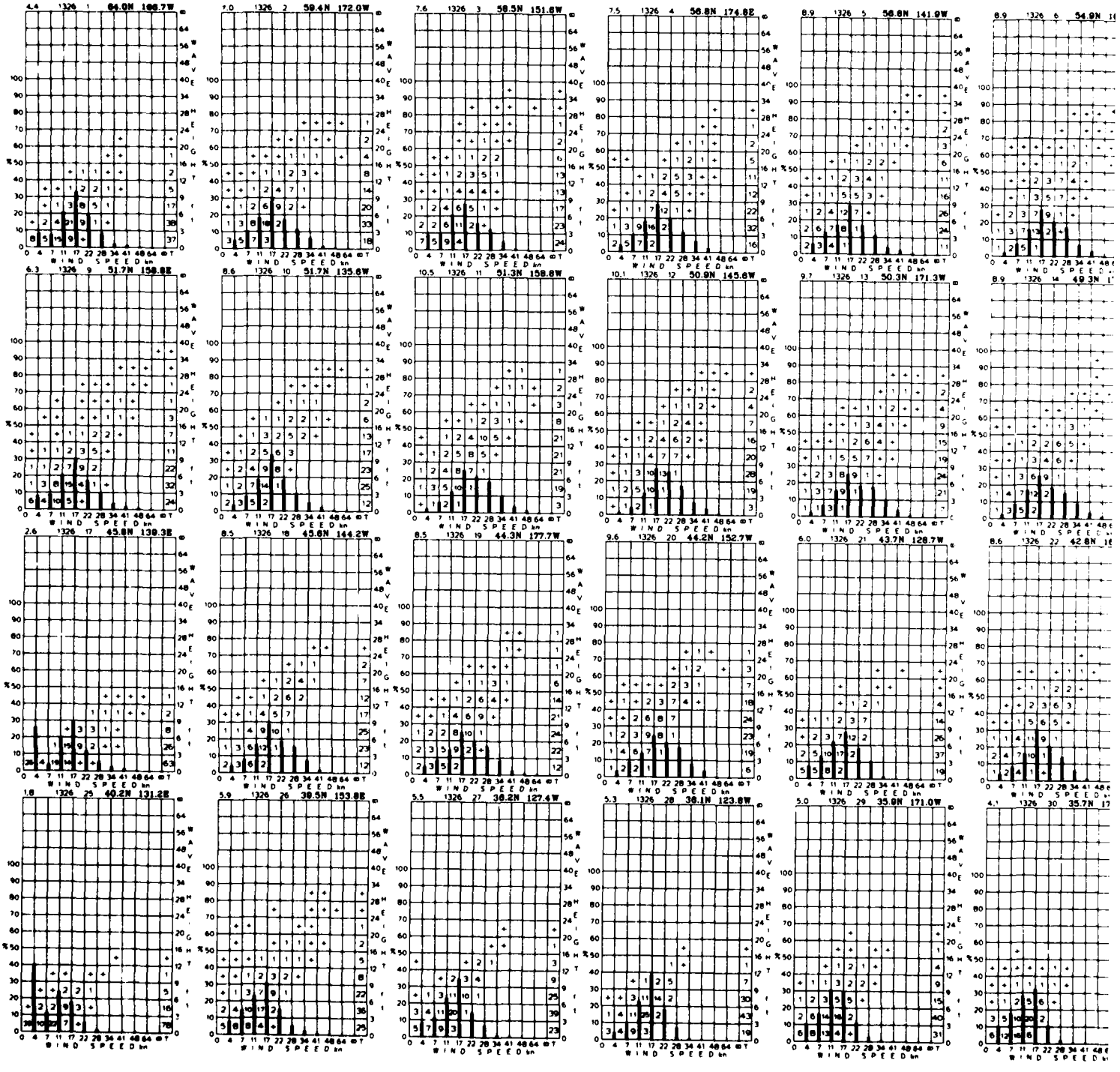
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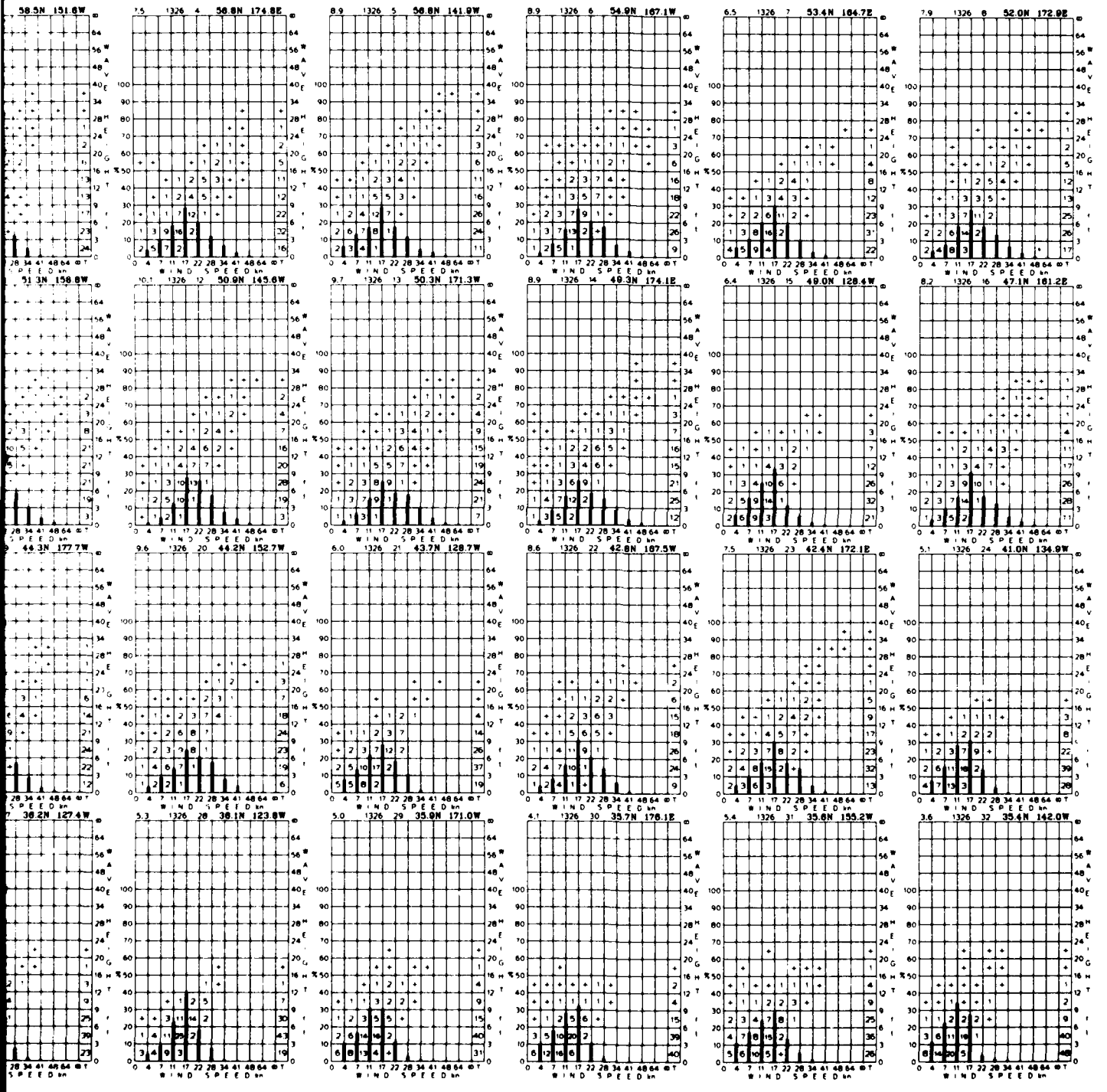
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SEPTEMBER

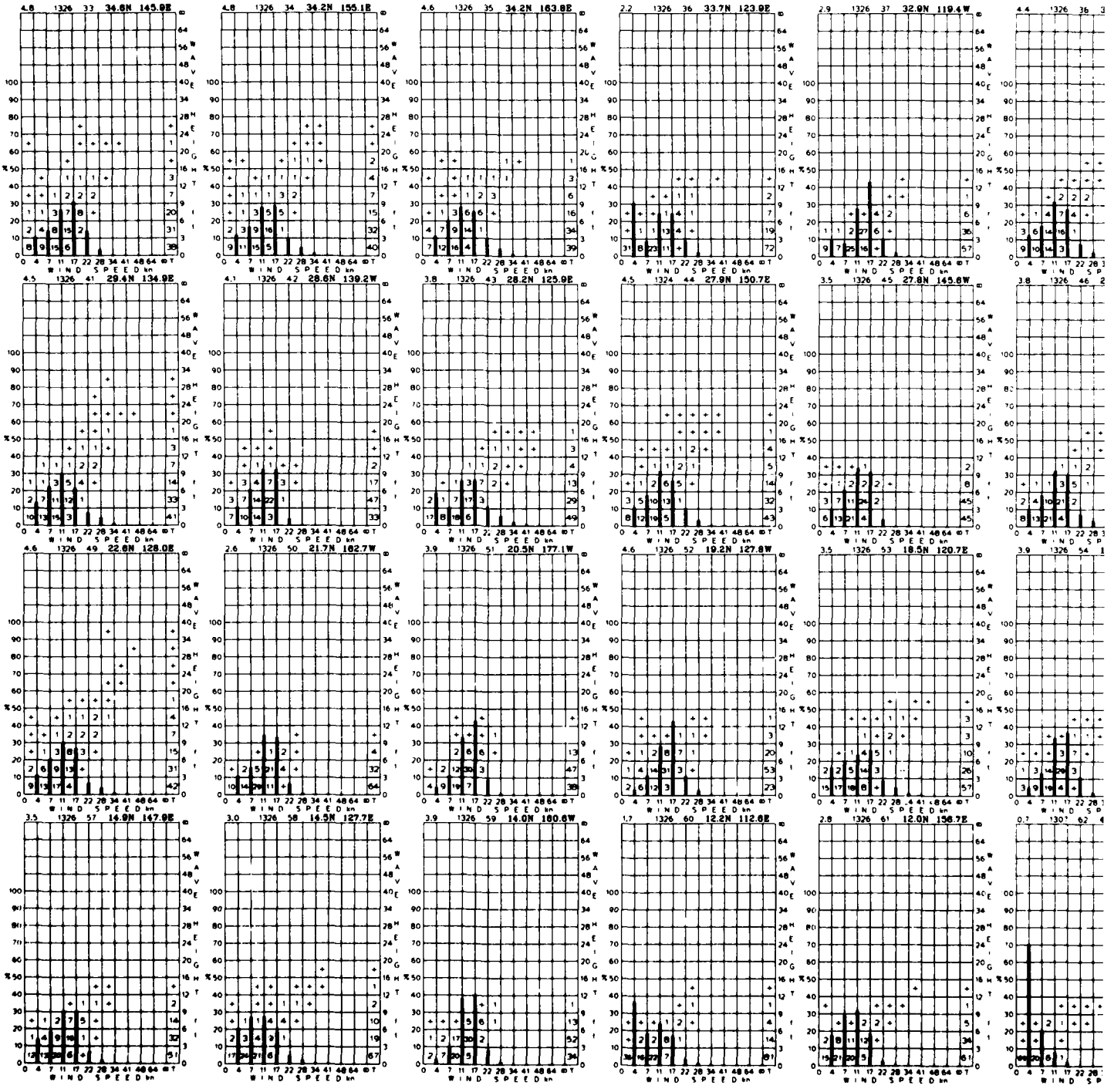
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WAVE HEIGHT AND WIND SPEED

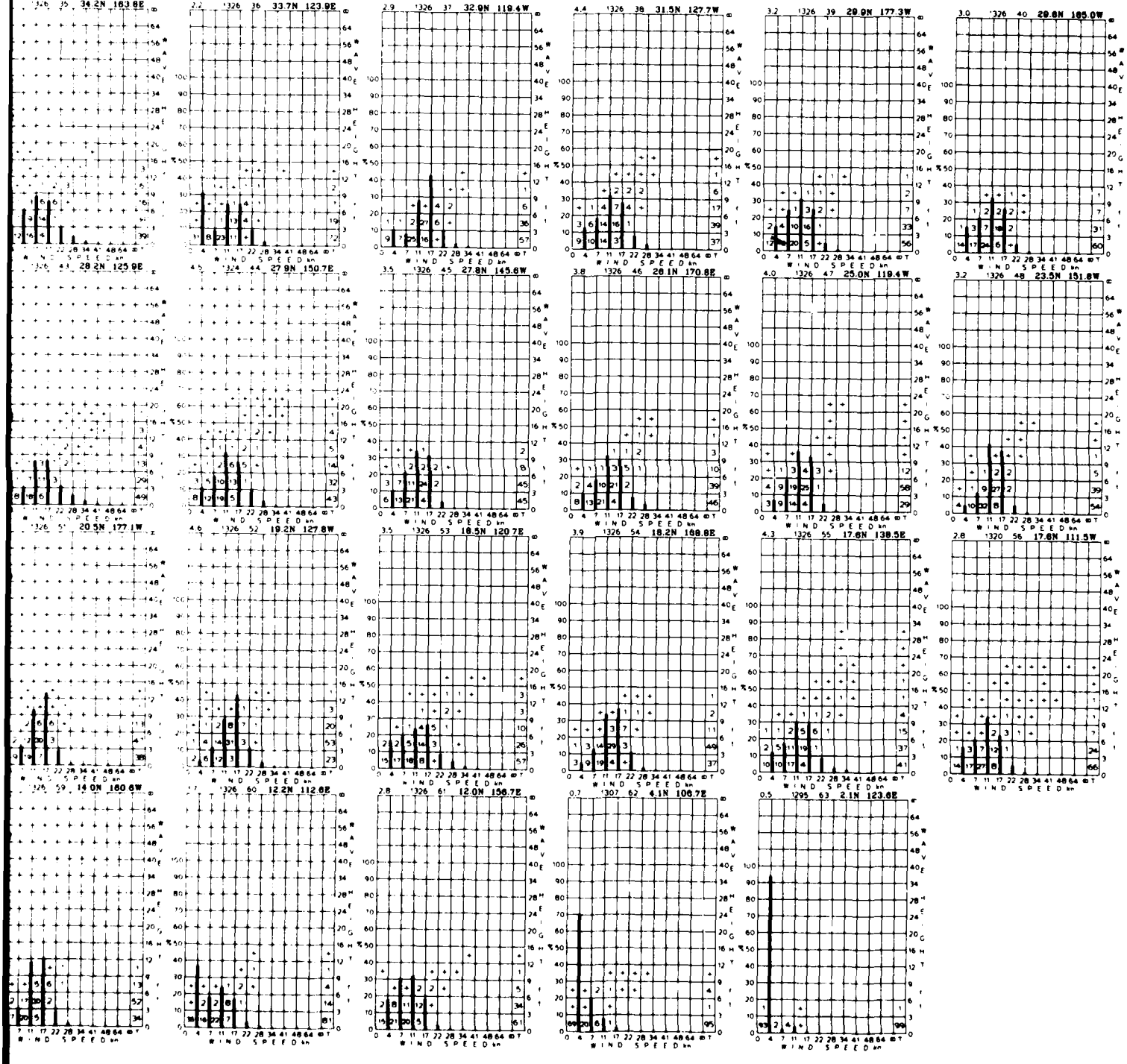


WAVE HEIGHT AND WIND SPEED (Cont'd)



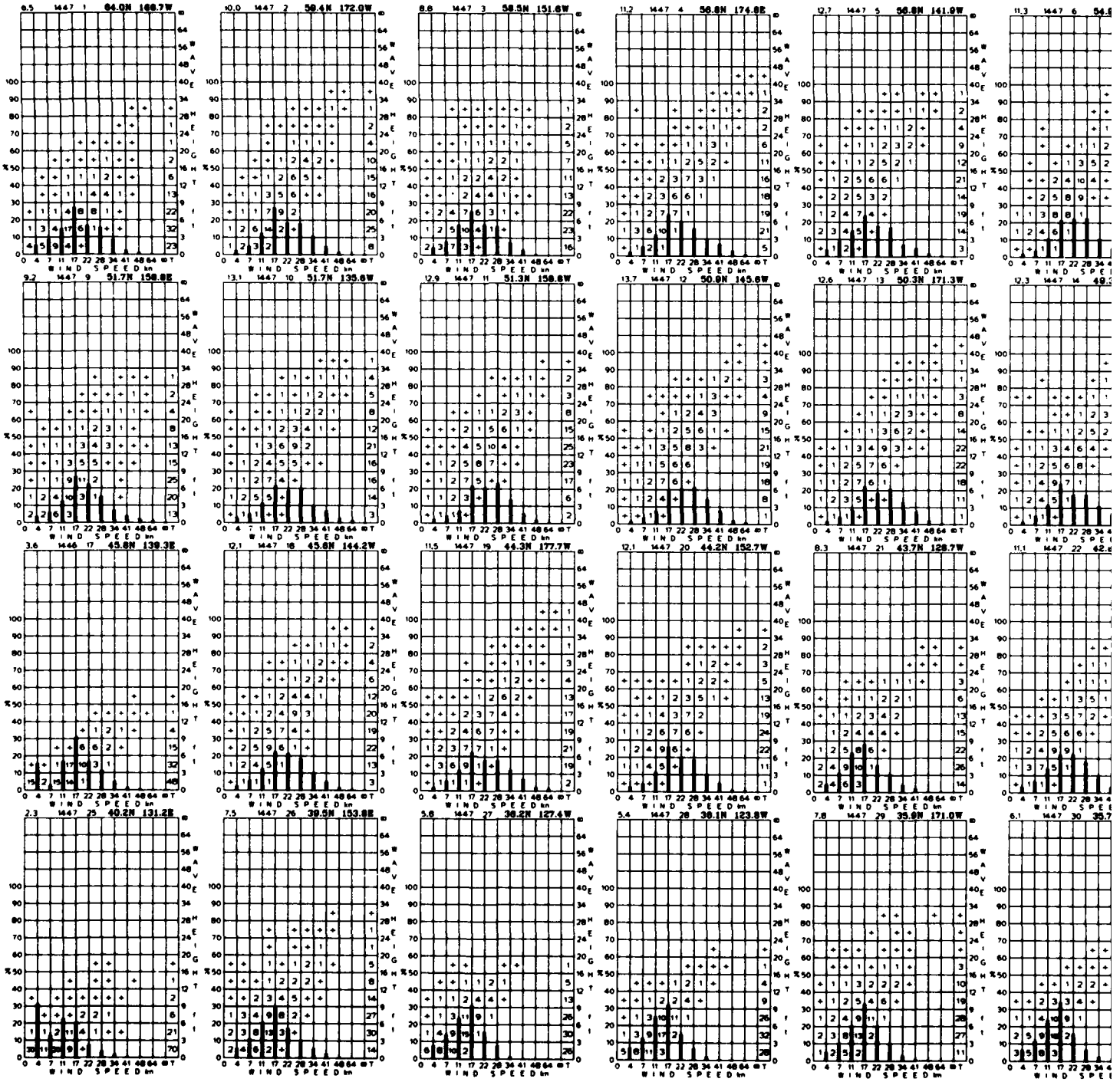
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SEPTEMBER

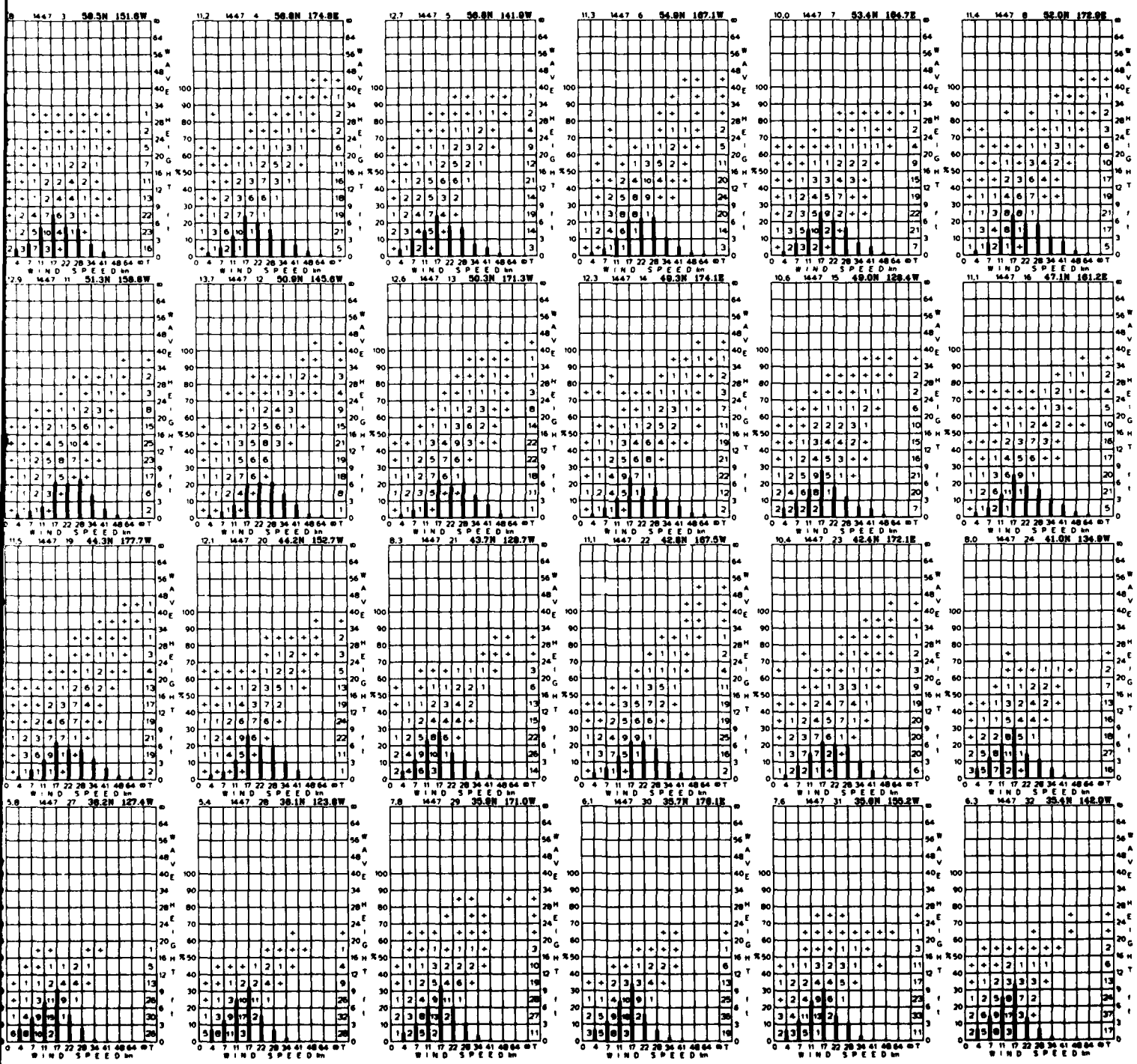


OCTOBER

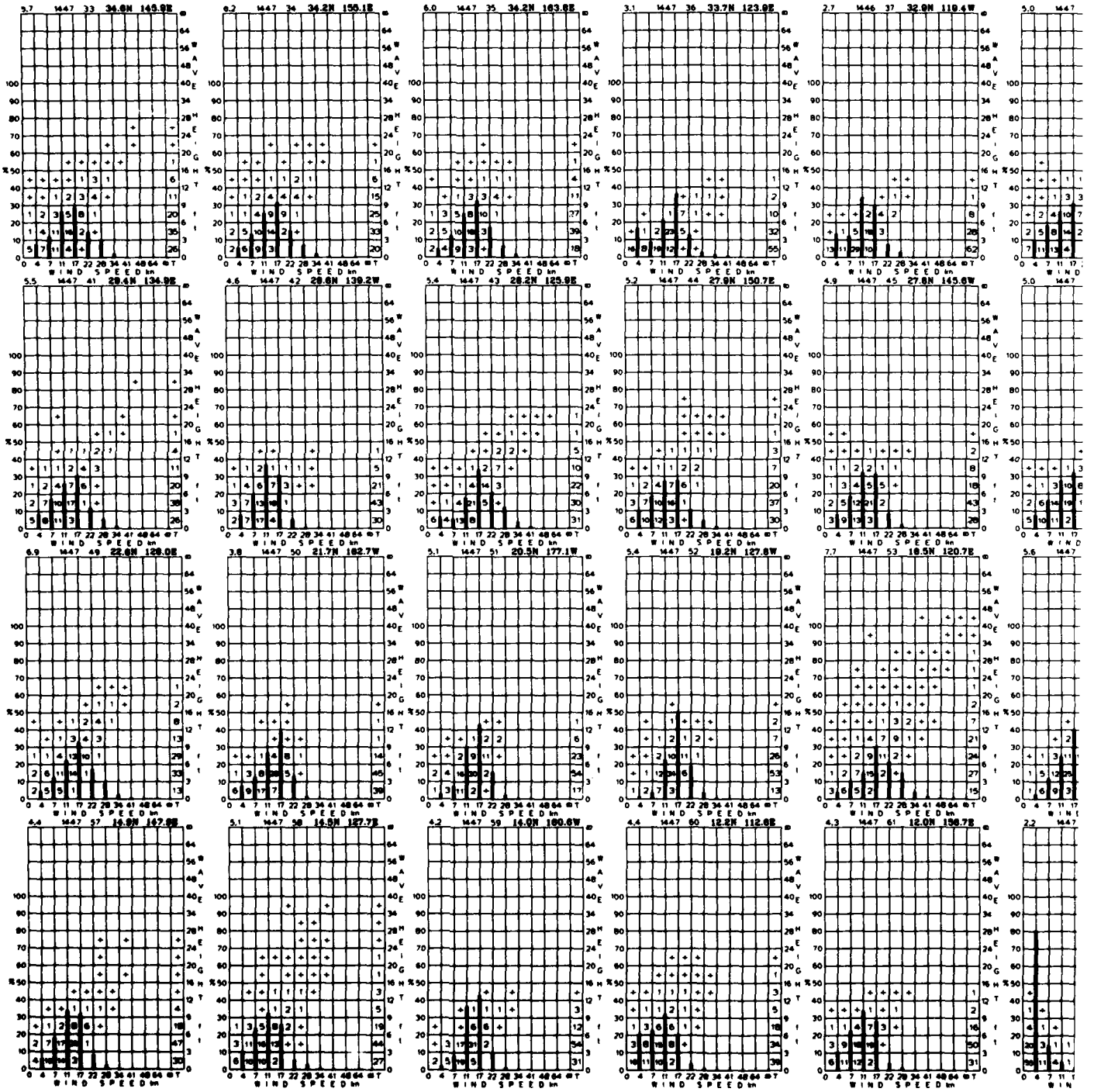
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WAVE HEIGHT AND WIND SPEED

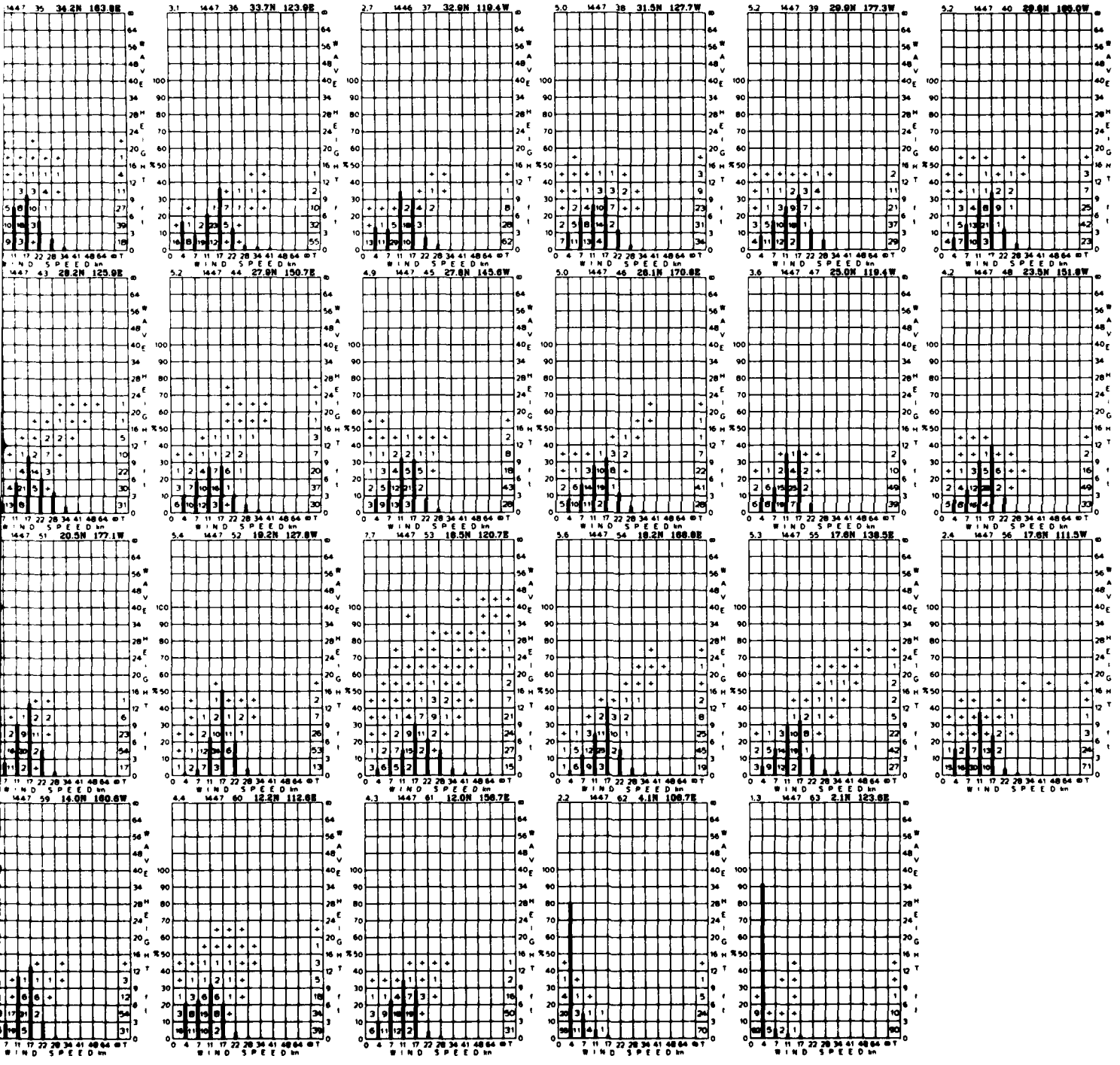


WAVE HEIGHT AND WIND SPEED (Cont'd)



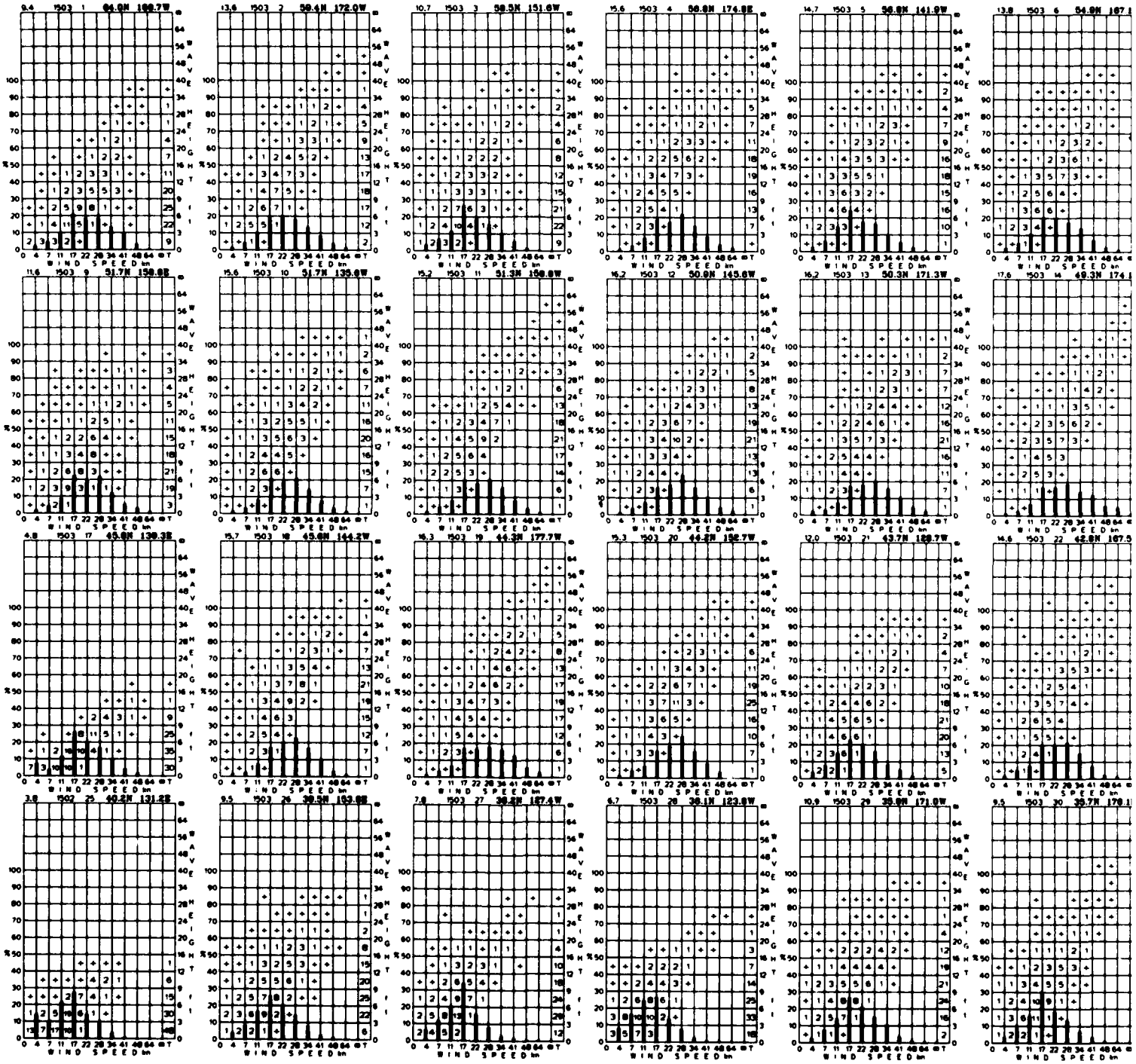
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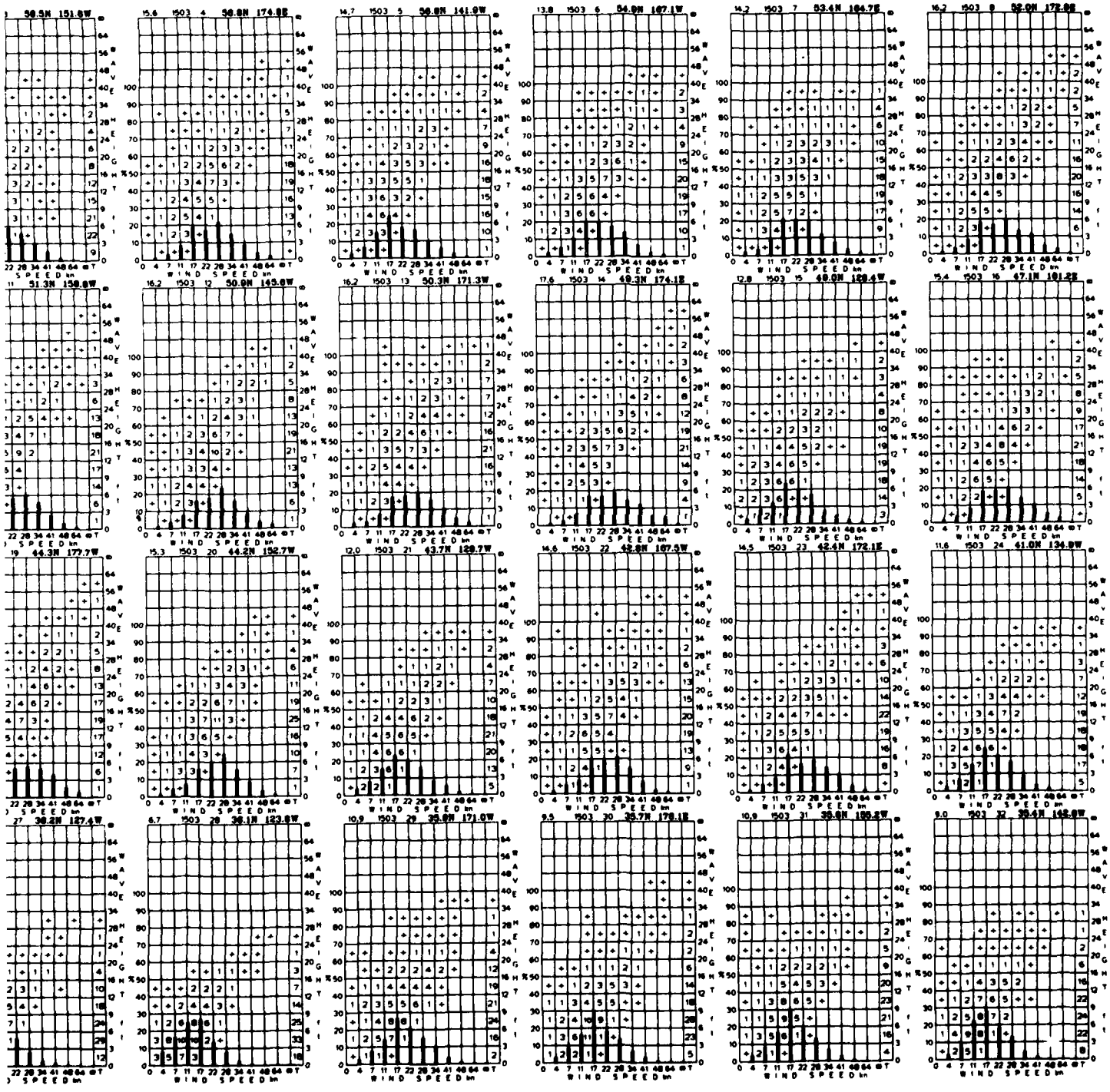


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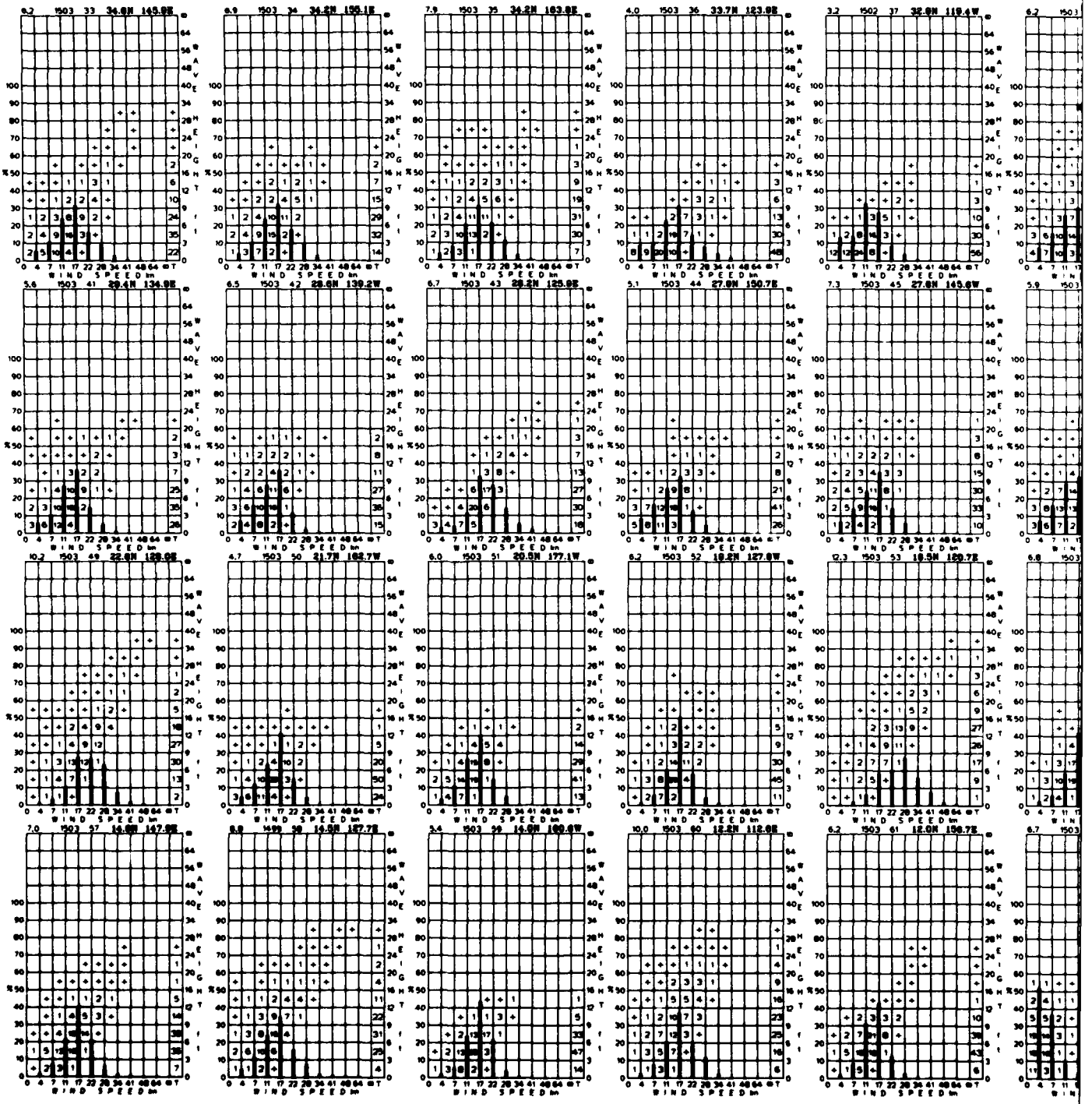
WAVE HEIGH



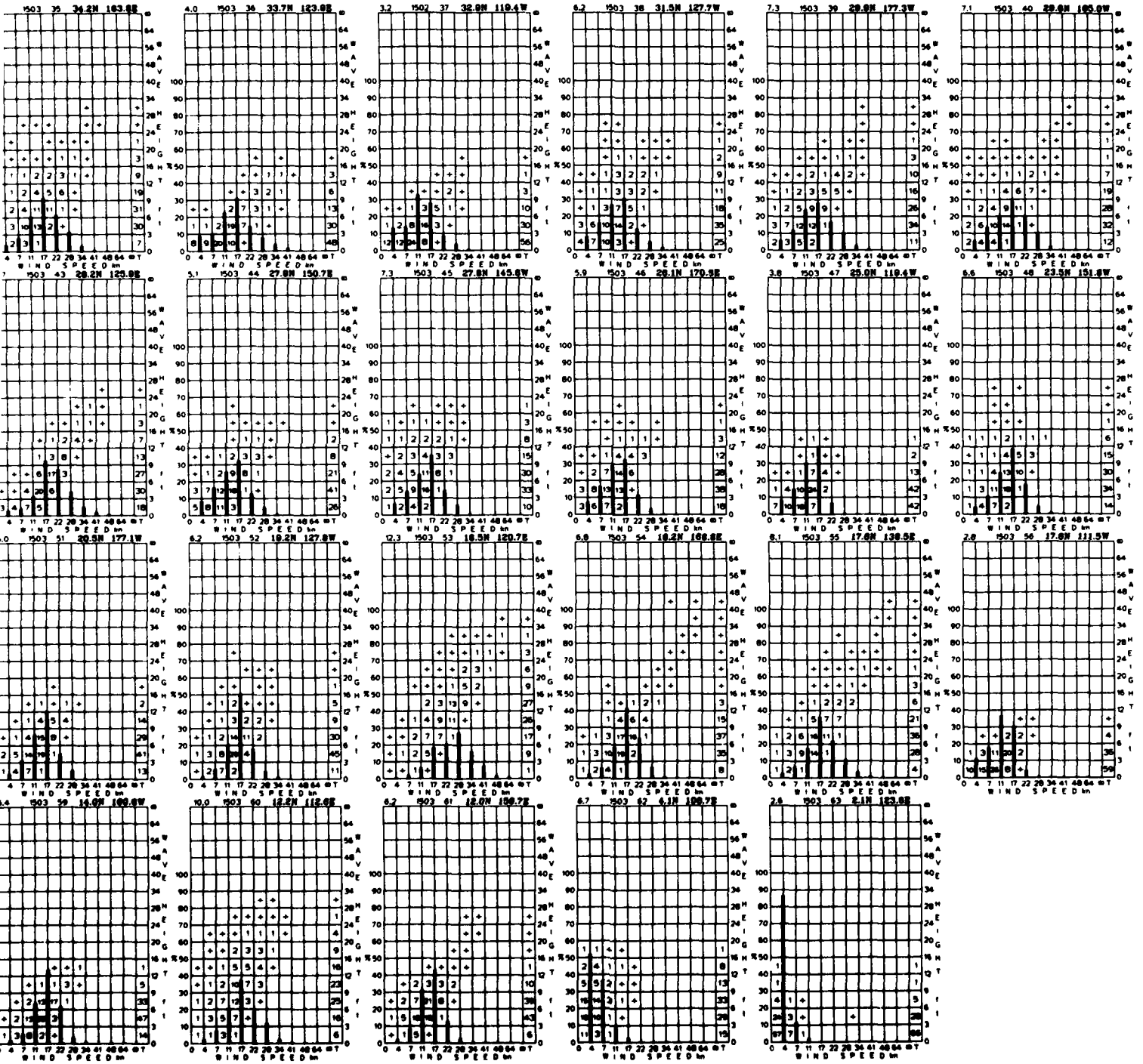
WAVE HEIGHT AND WIND SPEED



WAVE HEIGHT AND WIND SPEED (Cont'd)

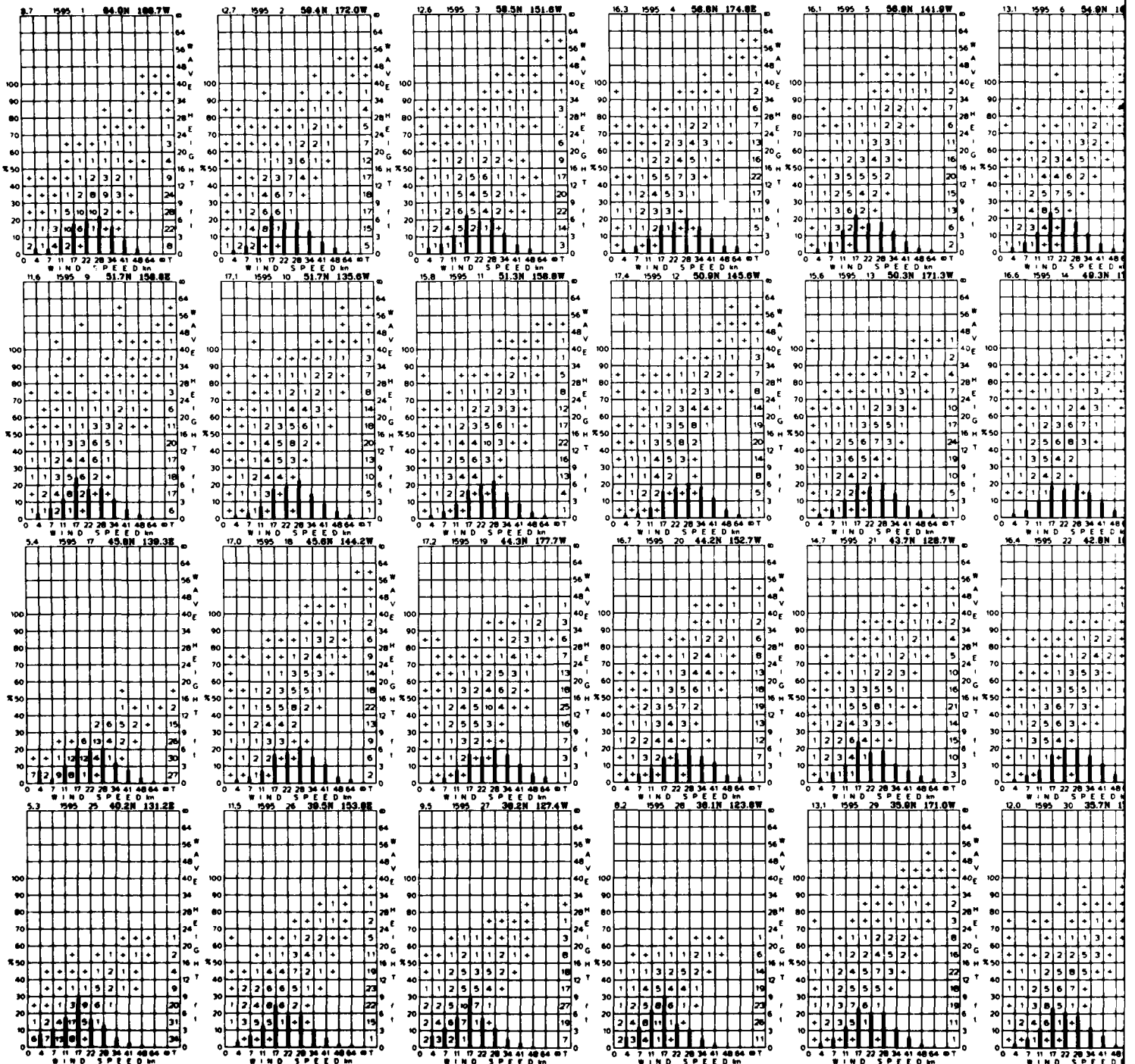


ND SPEED (Cont'd)

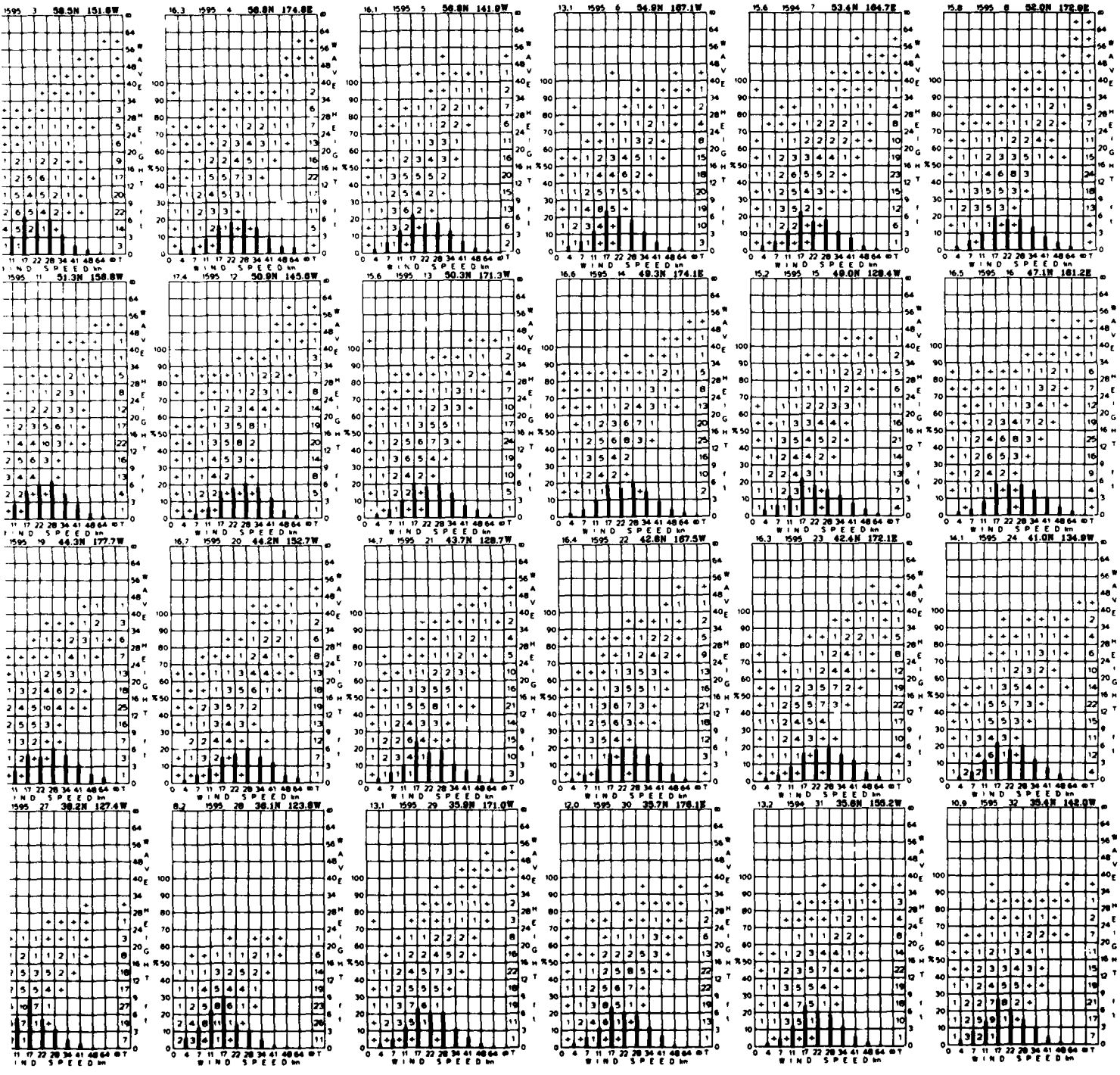


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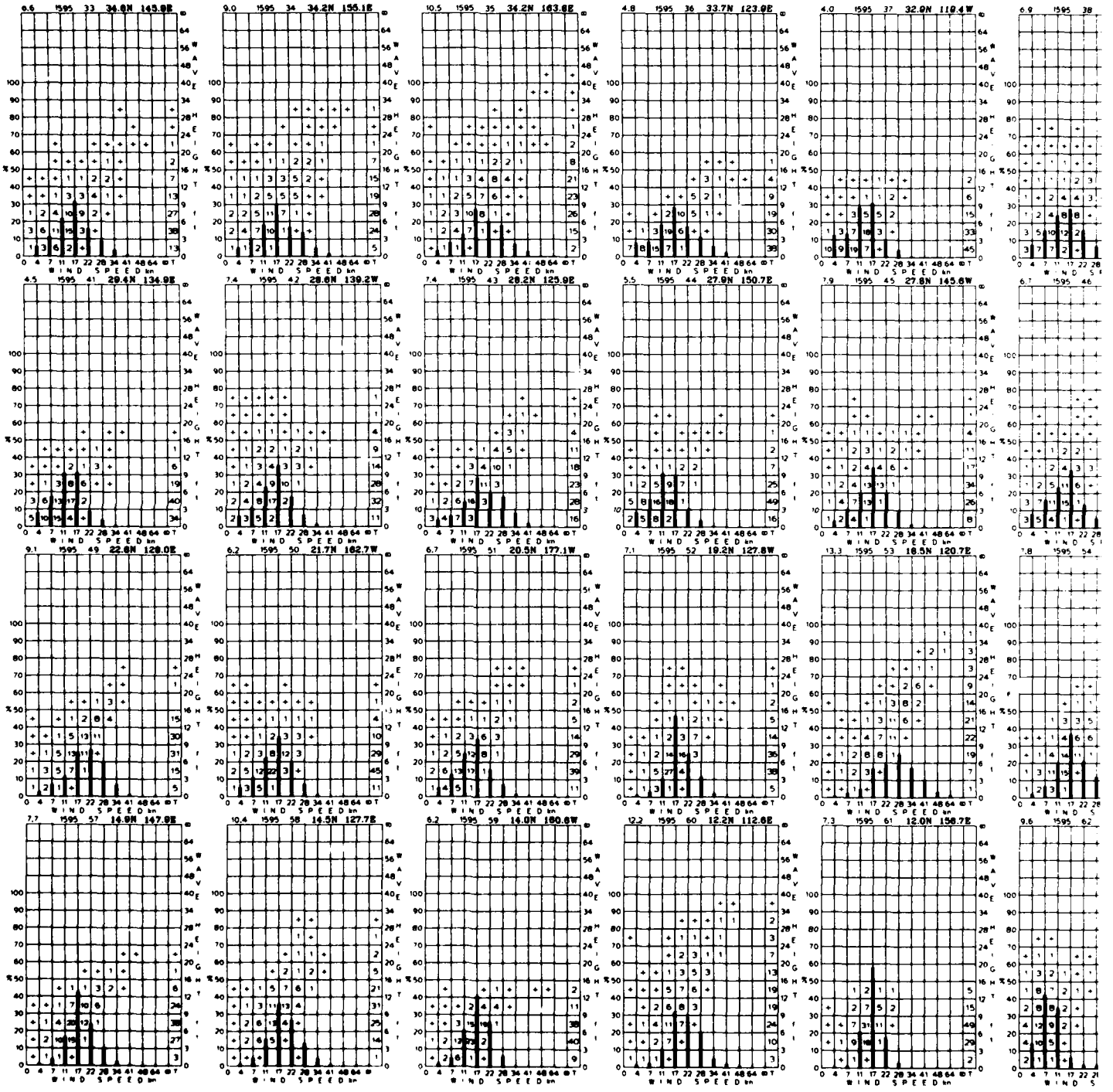
WAVE HEIG



WAVE HEIGHT AND WIND SPEED

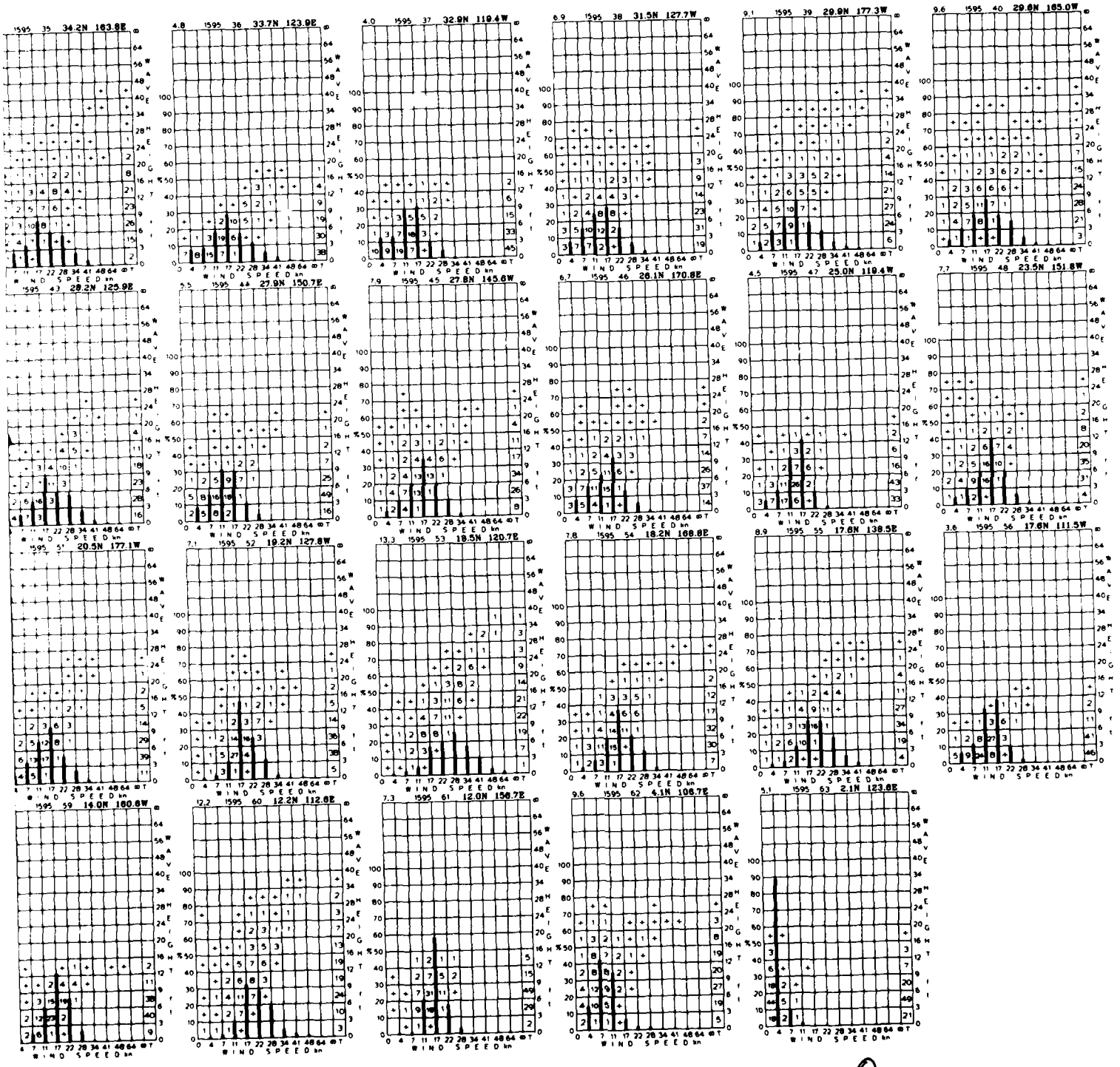


WAVE HEIGHT AND WIND SPEED (Cont'd)



ND SPEED (Cont'd)

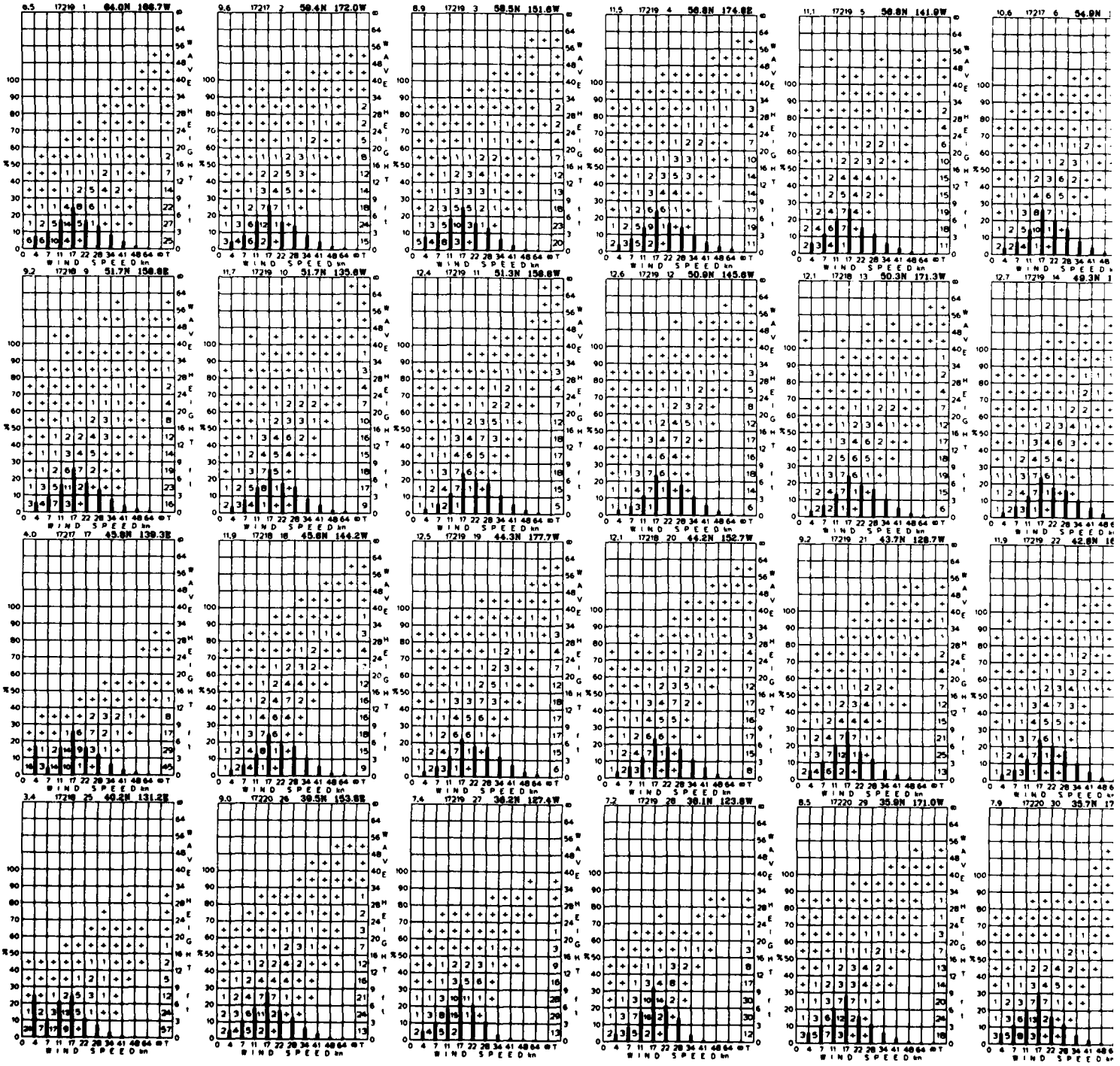
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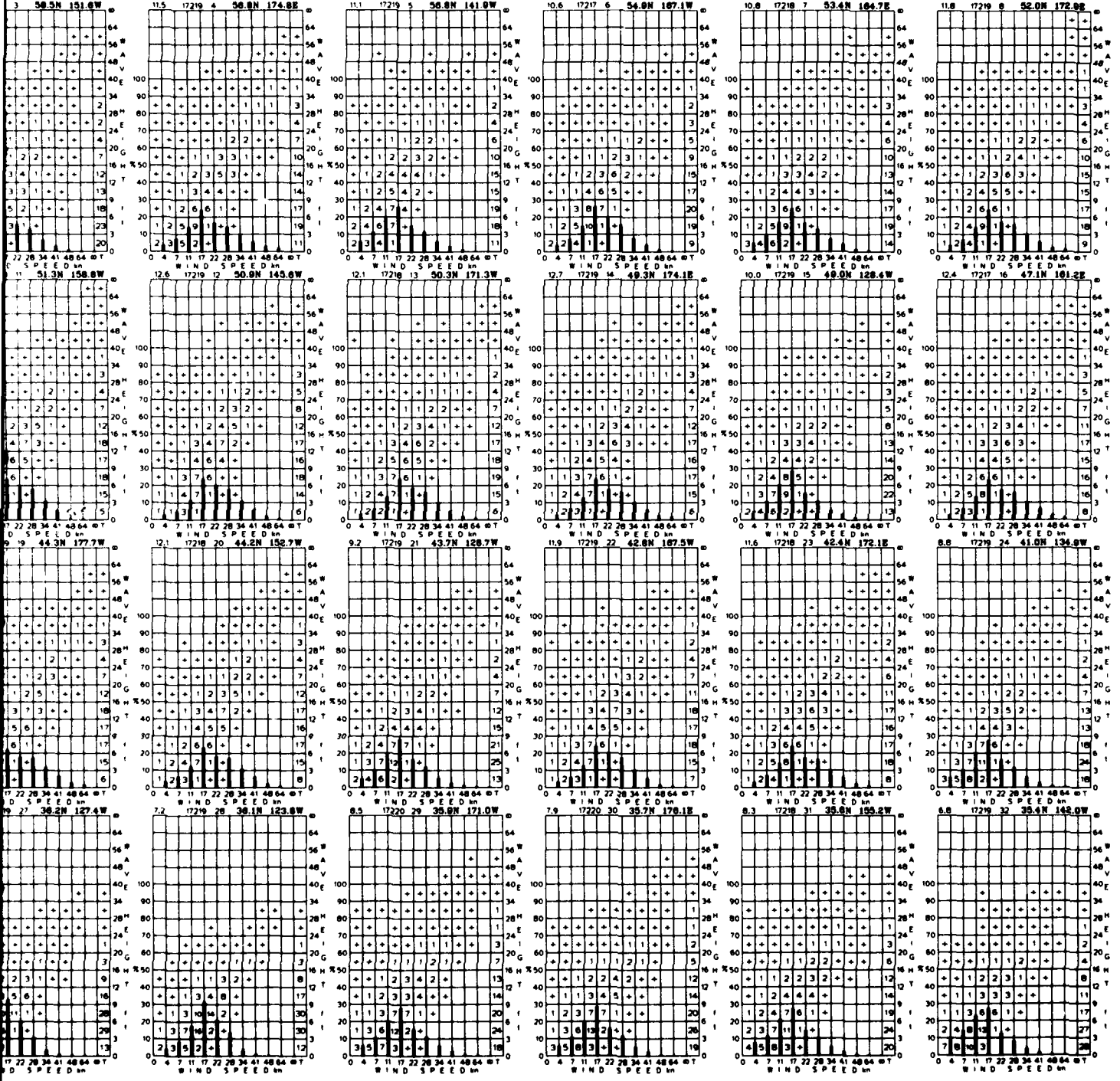
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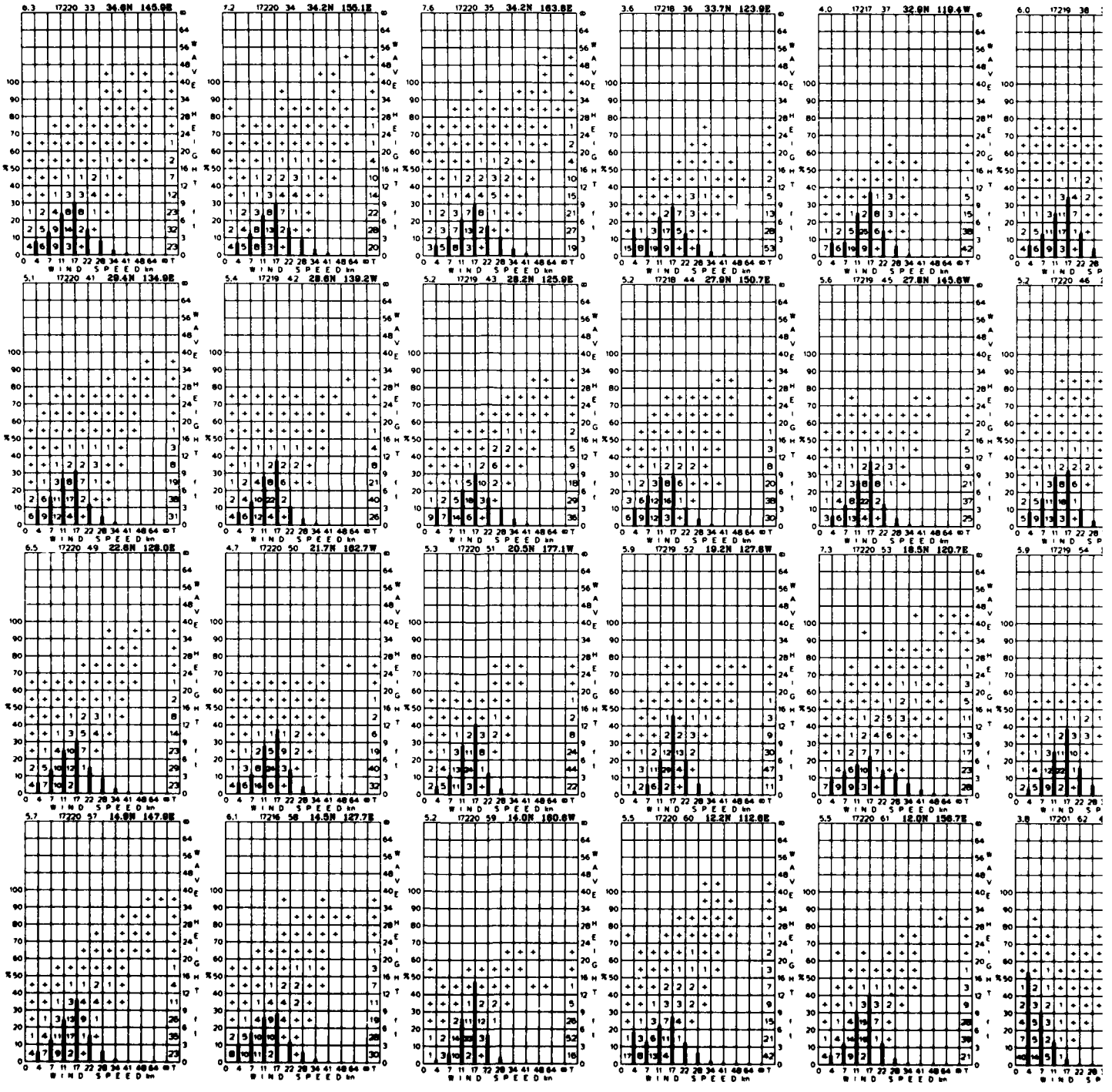
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WAVE HEIGHT AND WIND SPEED

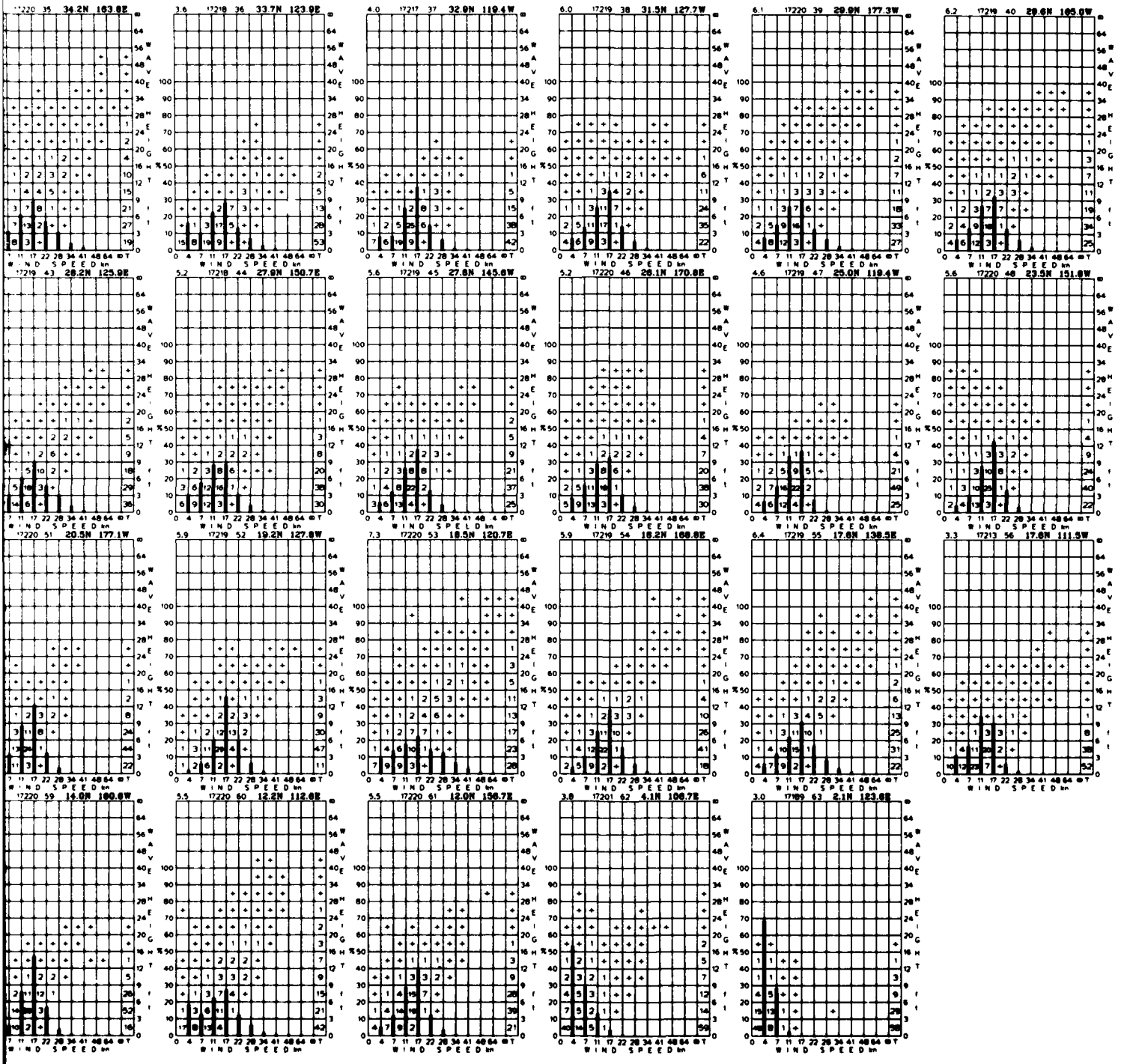


WAVE HEIGHT AND WIND SPEED (Cont'd)



ND SPEED (Cont'd)

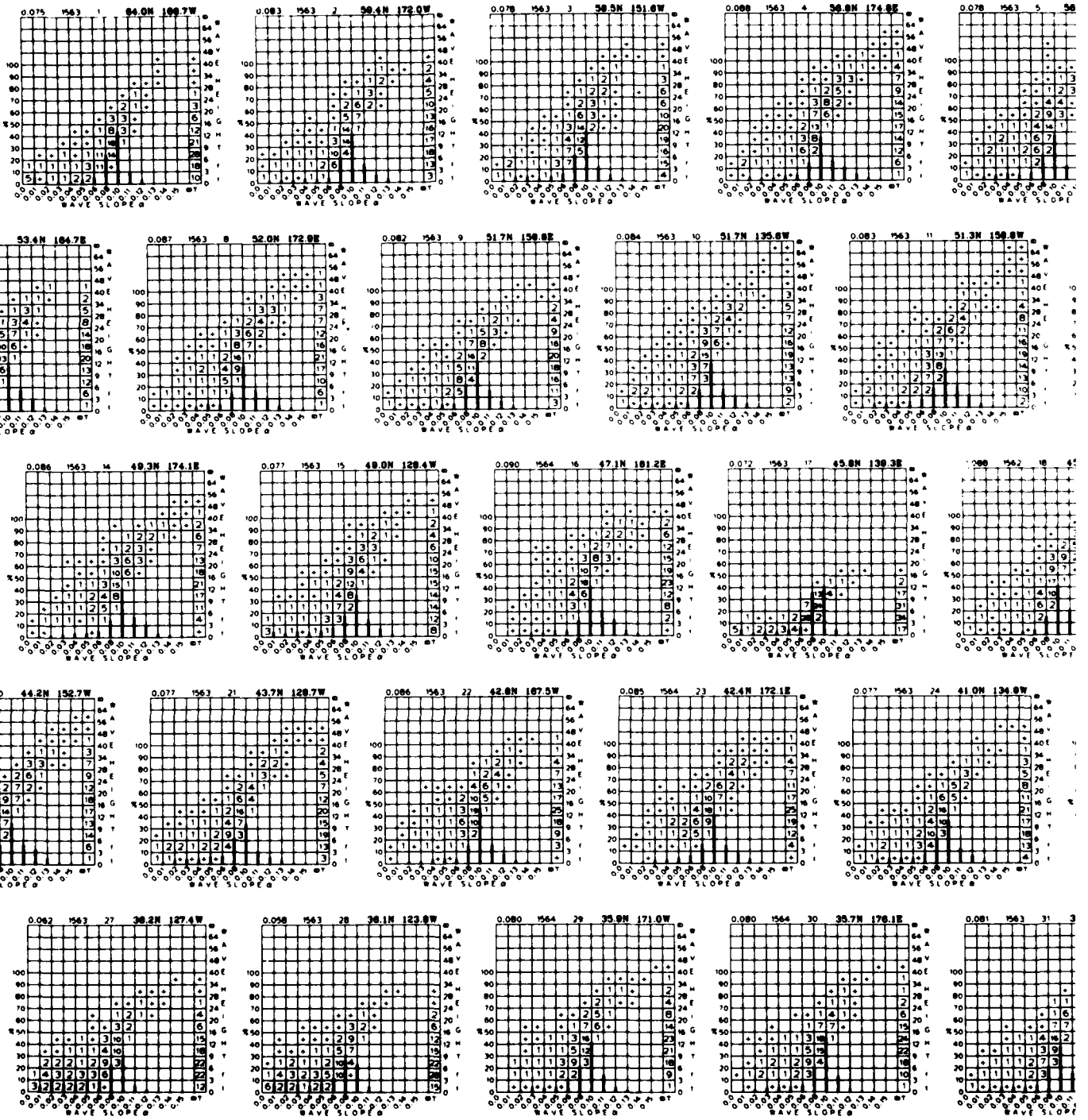
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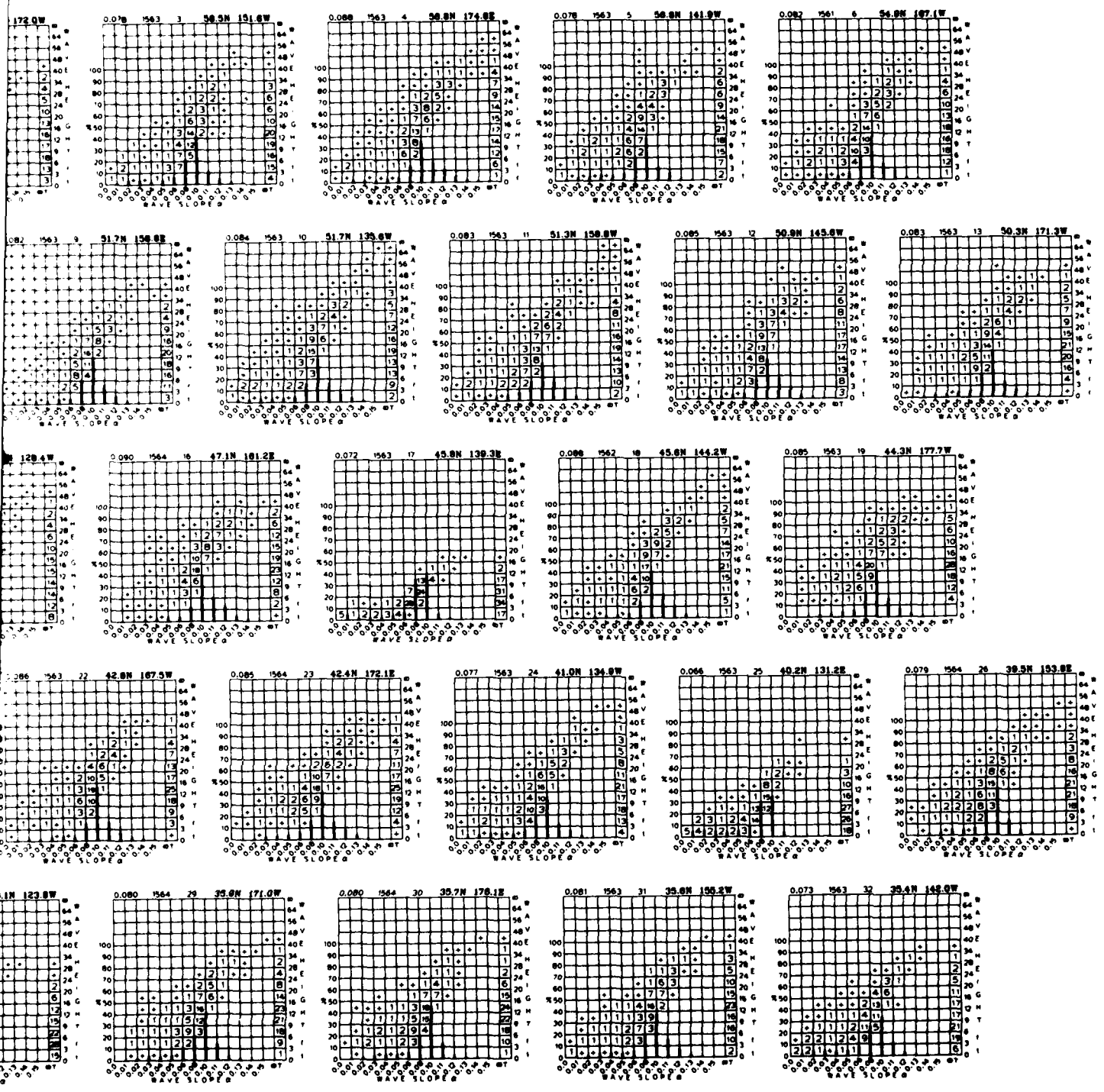
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JANUARY

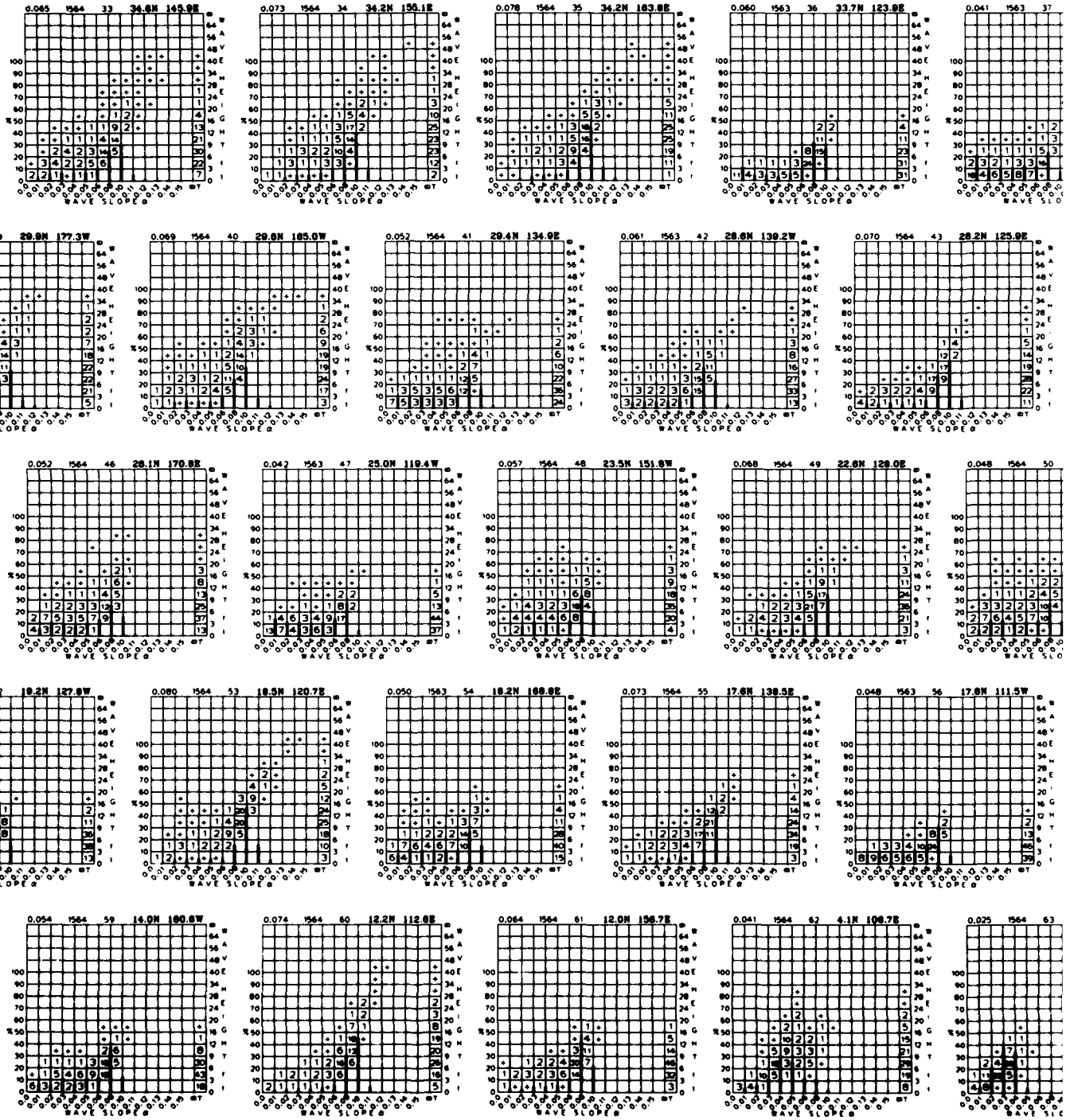
WAVE HEIGH



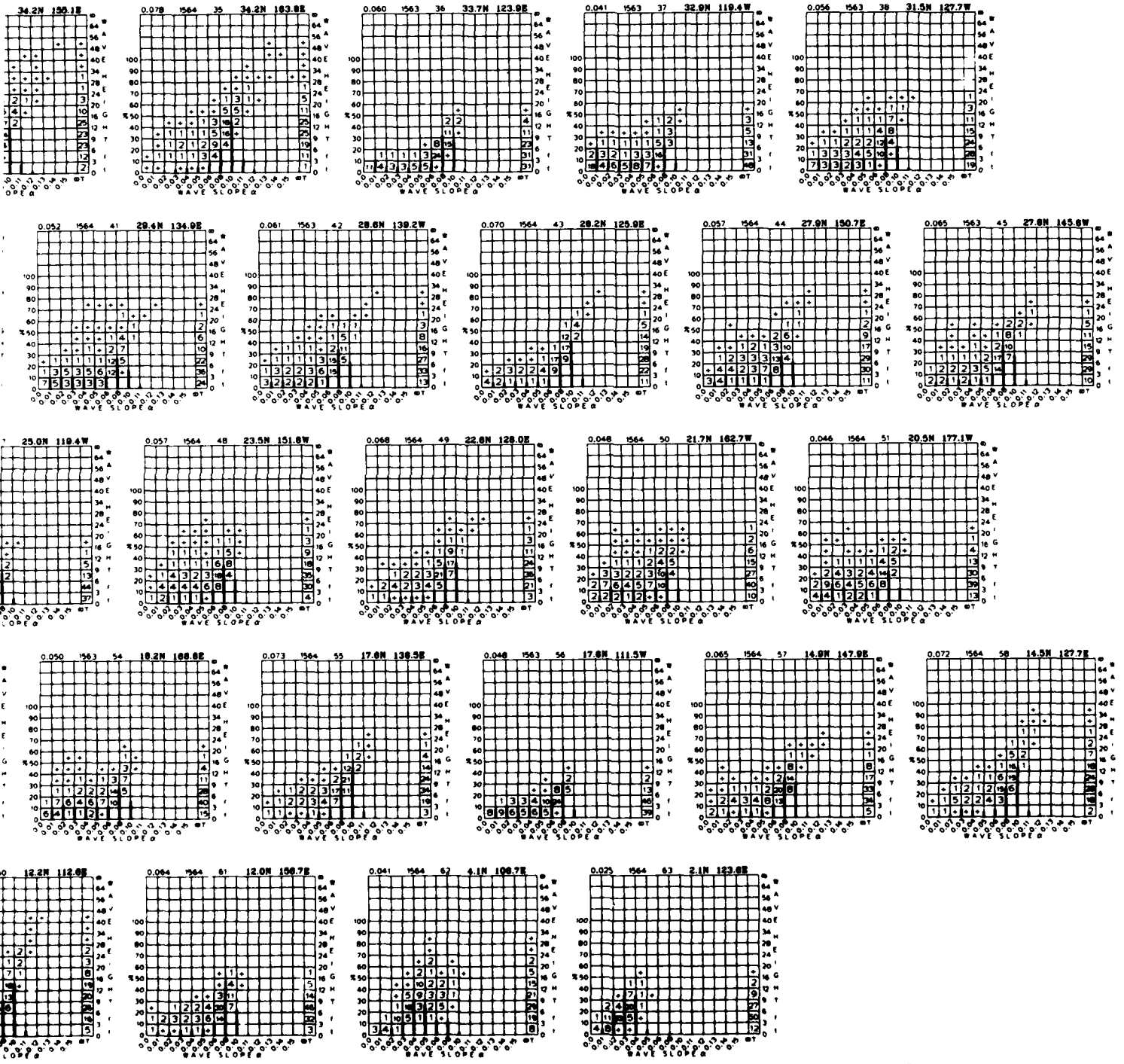
WAVE HEIGHT AND WAVE SLOPE (α)



WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

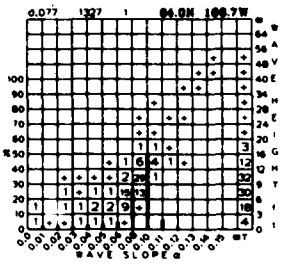
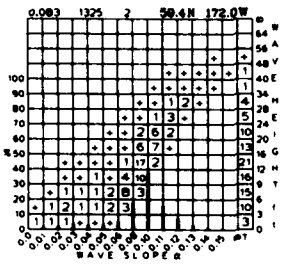
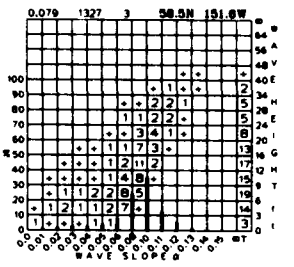
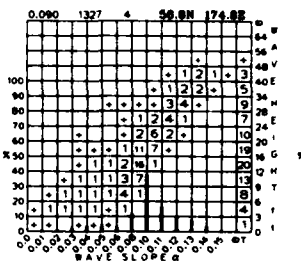
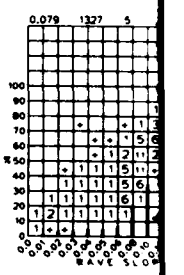
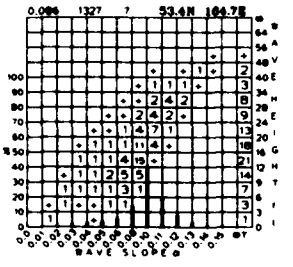
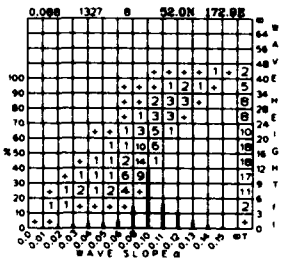
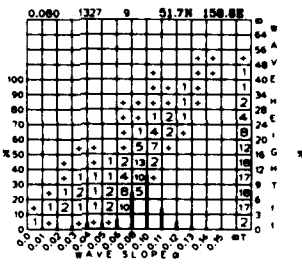
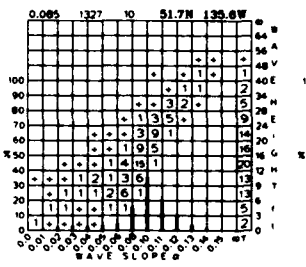
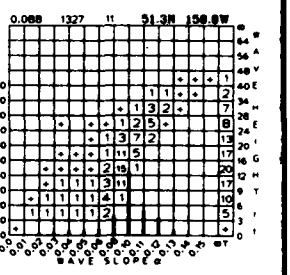
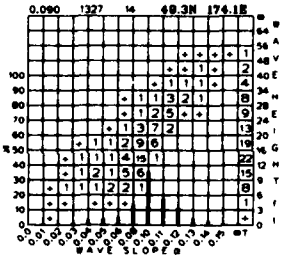
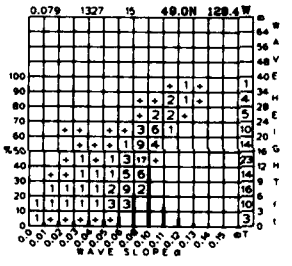
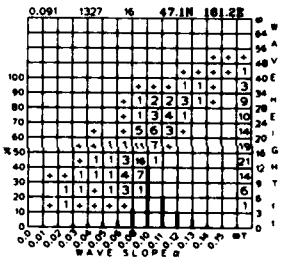
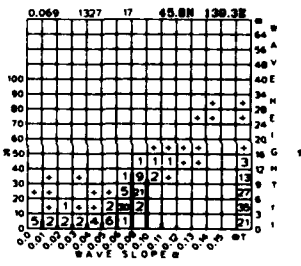
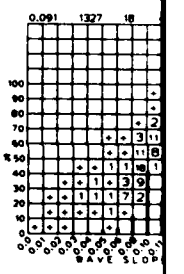
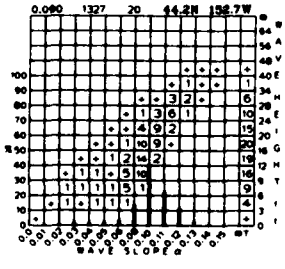
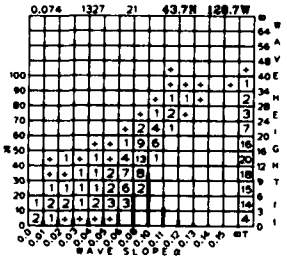
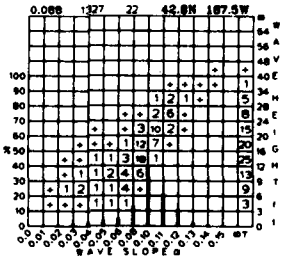
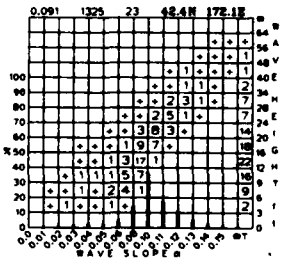
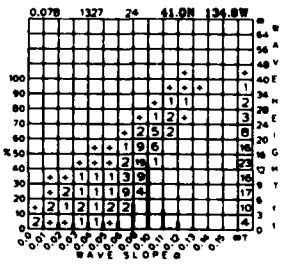
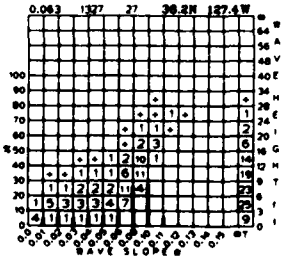
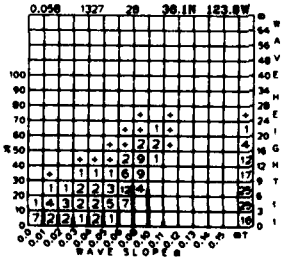
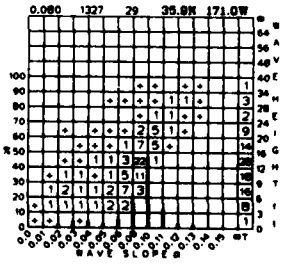
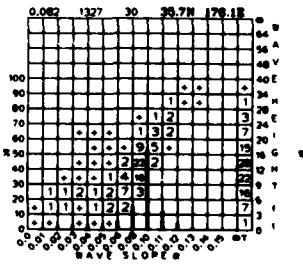
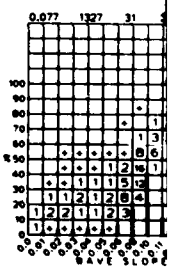


WAVE SLOPE (α) (Cont'd)

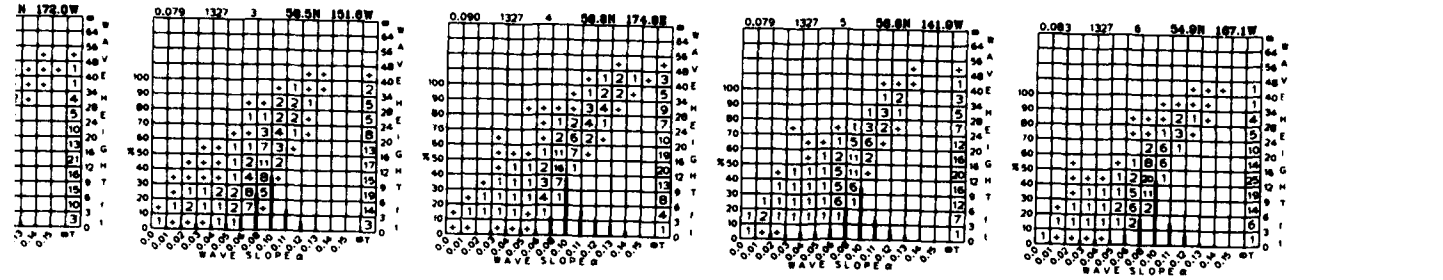


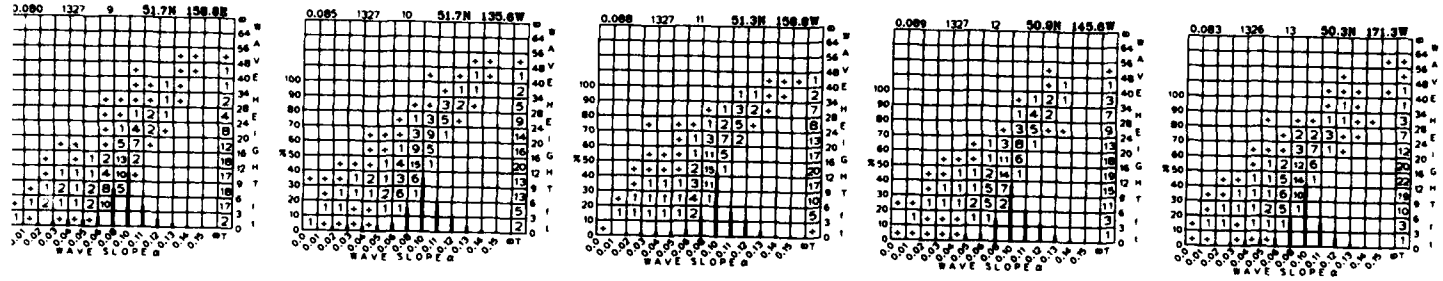
FEBRUARY

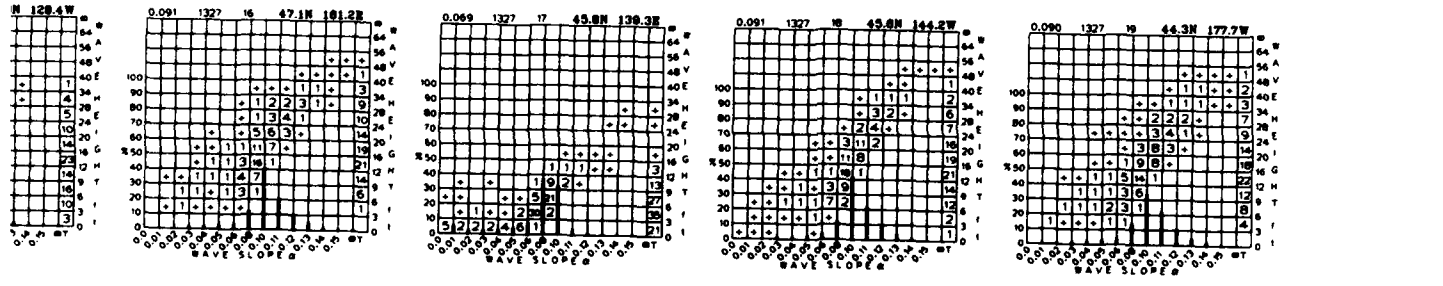
WAVE HEIGH

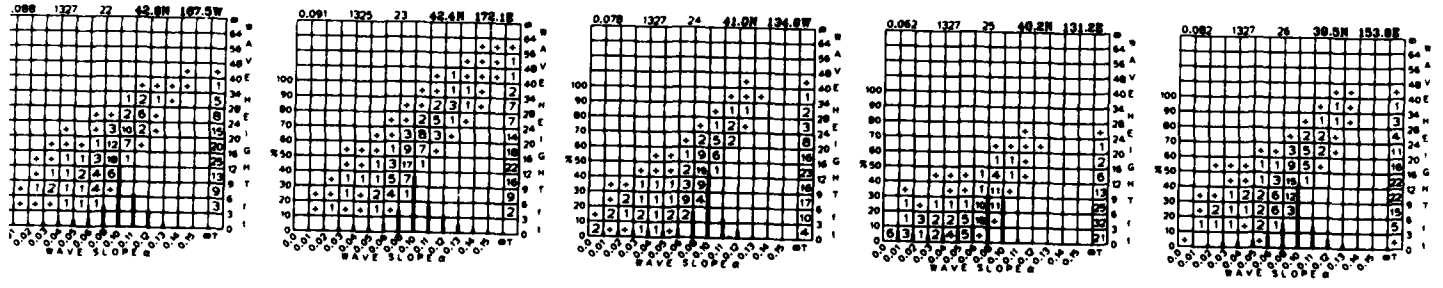


























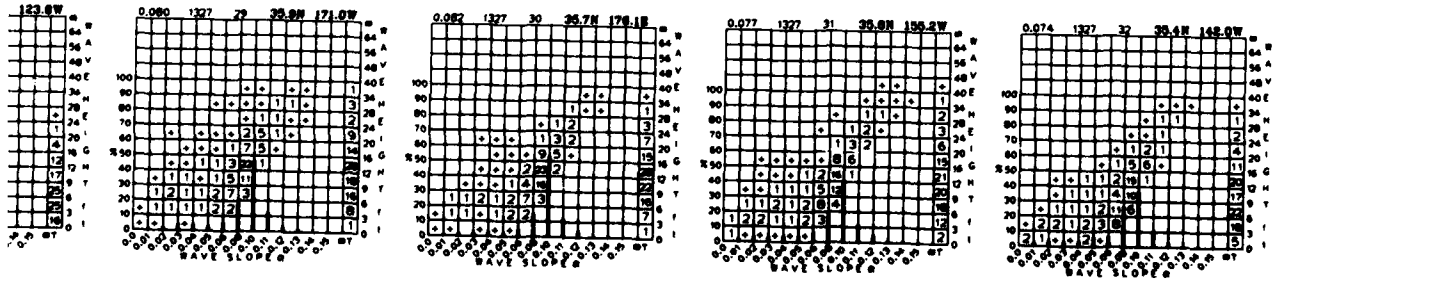
WAVE HEIGHT AND WAVE SLOPE (α)



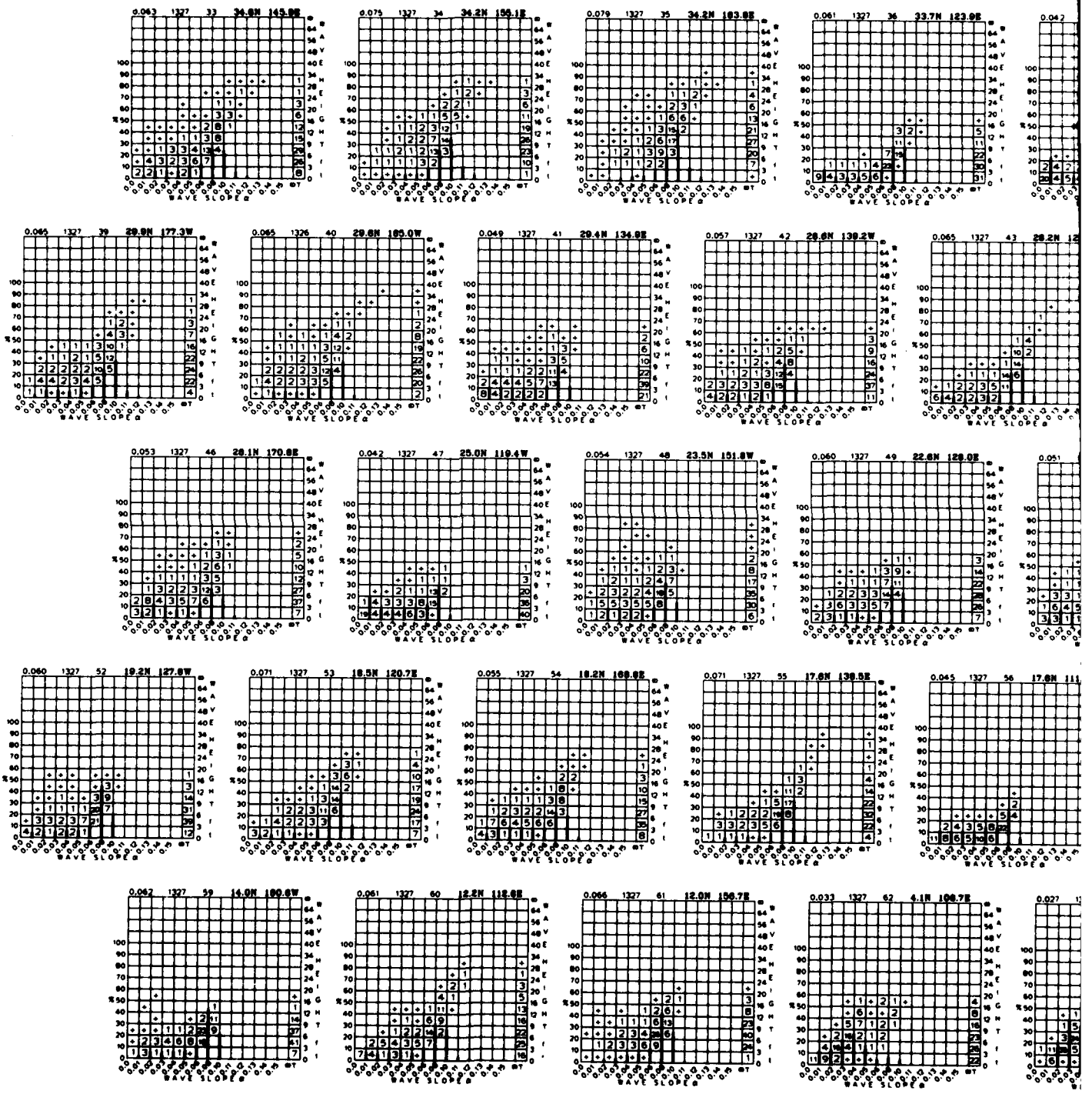






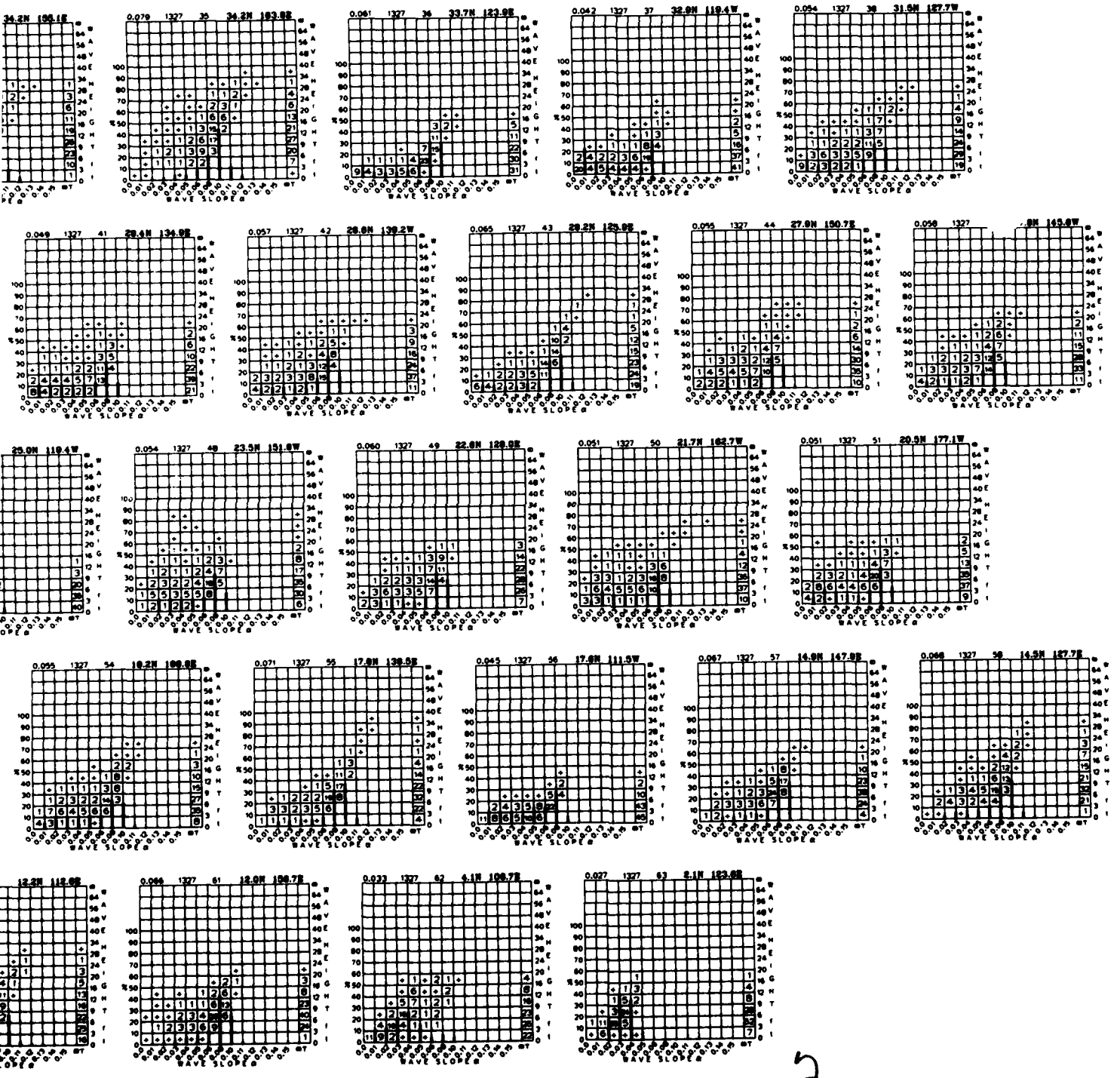


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)



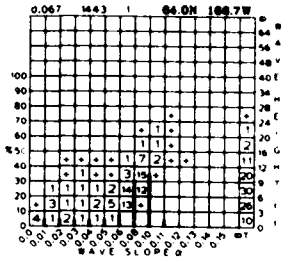
VE SLOPE (α) (Cont'd)

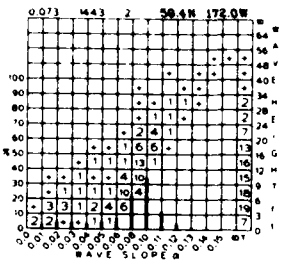
FEBRUARY

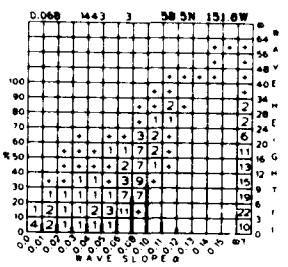


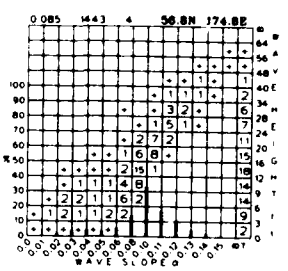
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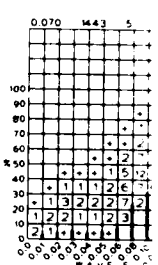
WAVE HEIGH

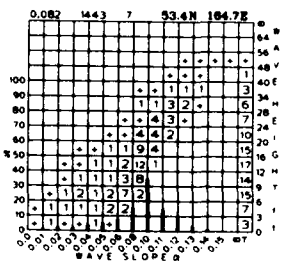


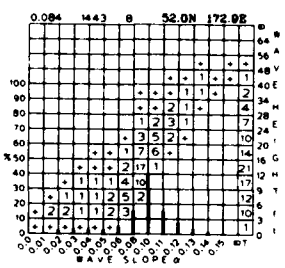


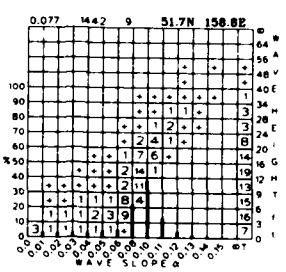


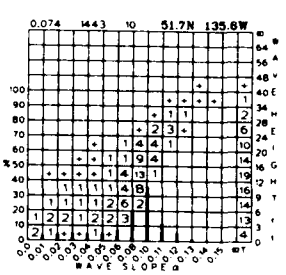


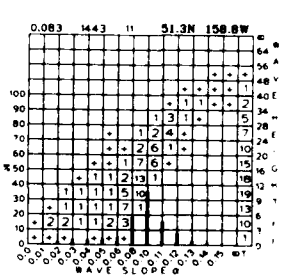


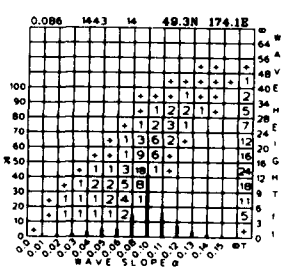


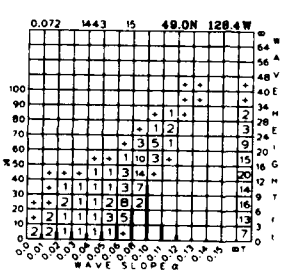


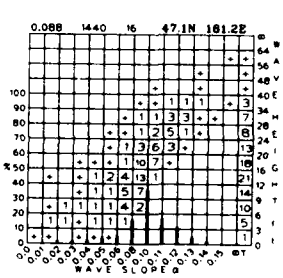


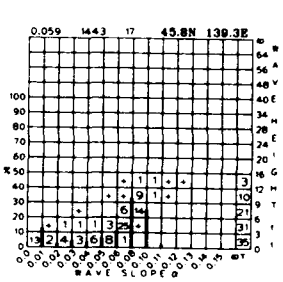


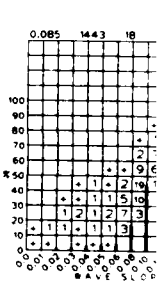


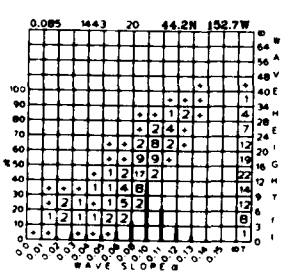


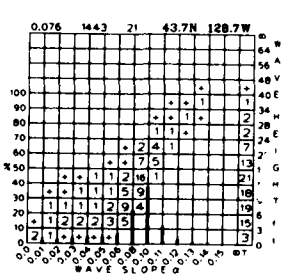


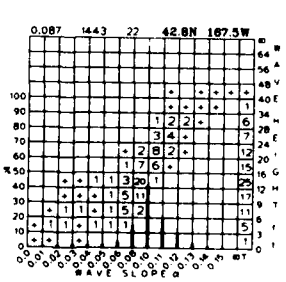


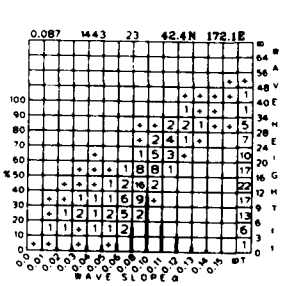


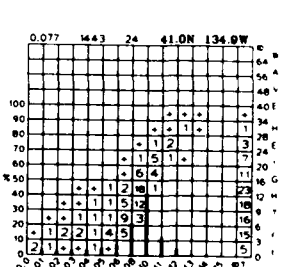


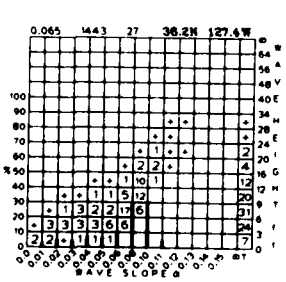


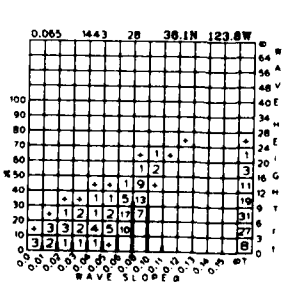


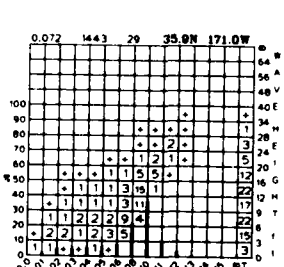


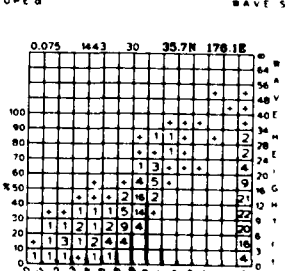


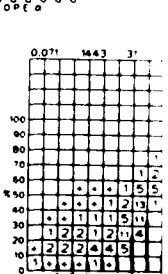




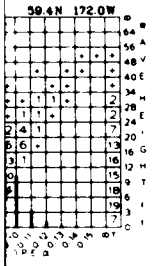


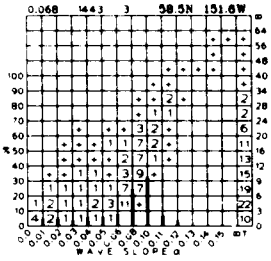


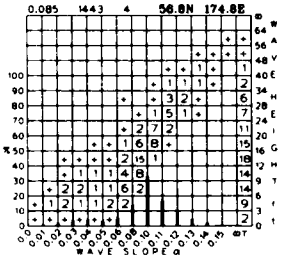


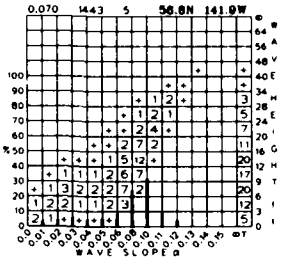


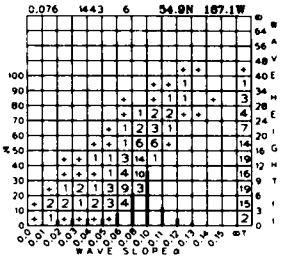
WAVE HEIGHT AND WAVE SLOPE (α)

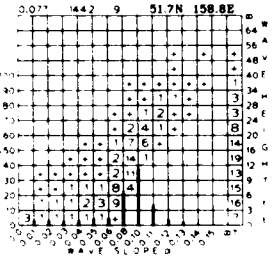


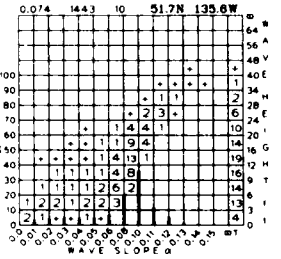


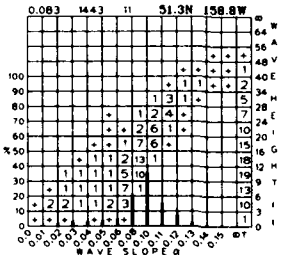


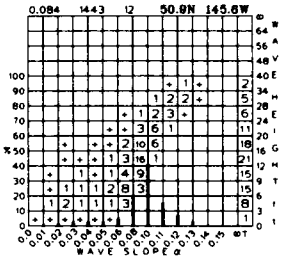


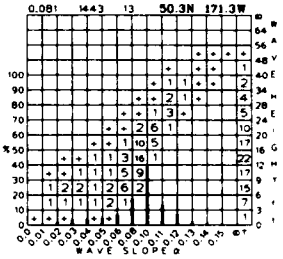


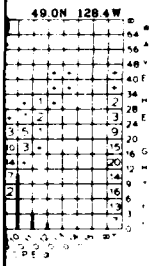


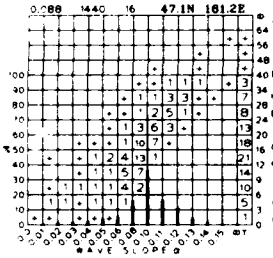


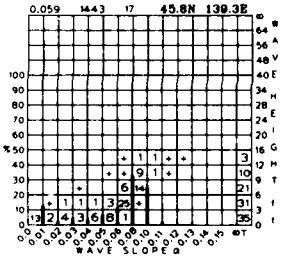


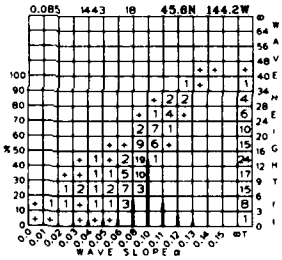


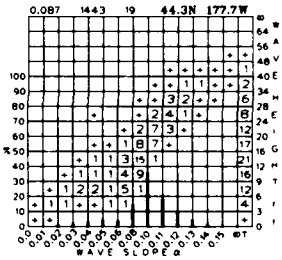


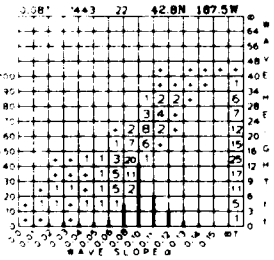


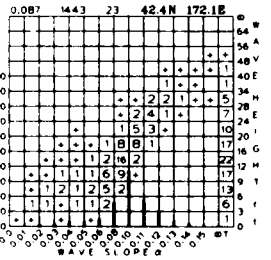


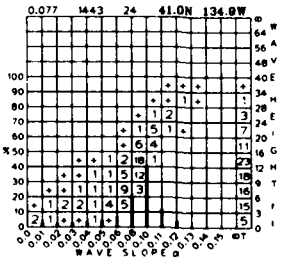


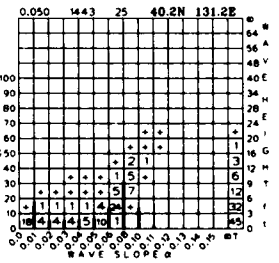


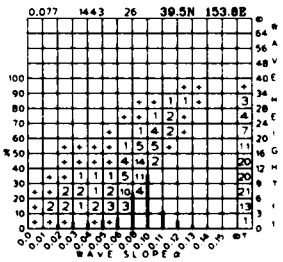


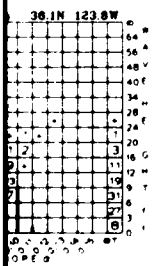


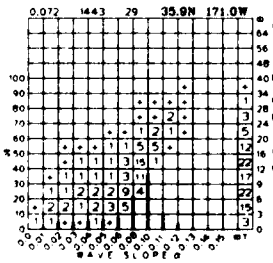


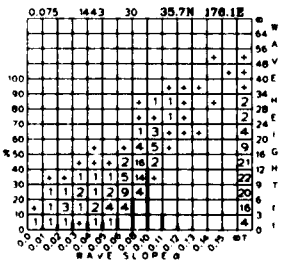


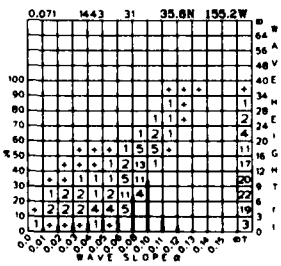


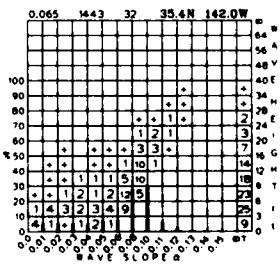




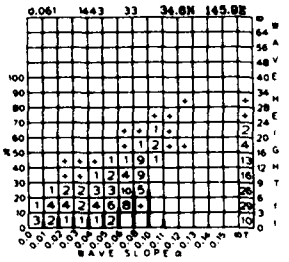


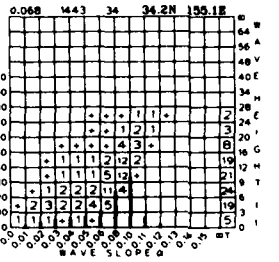


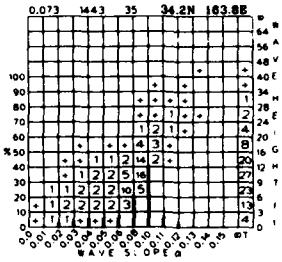


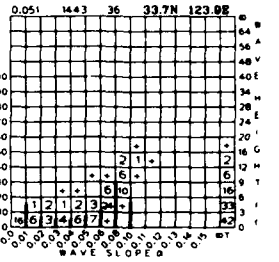


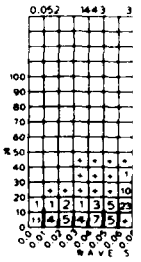
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

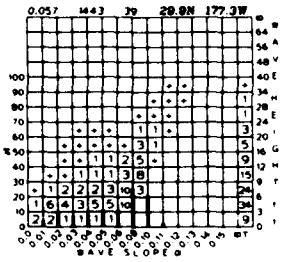


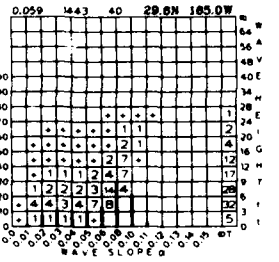


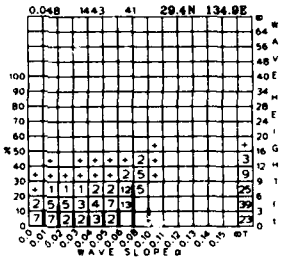


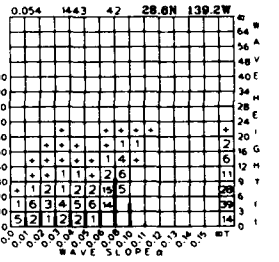


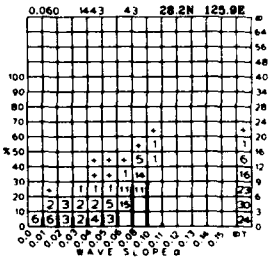


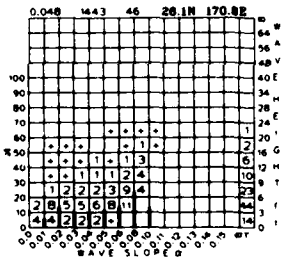


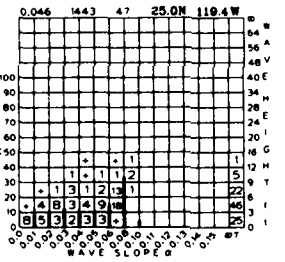


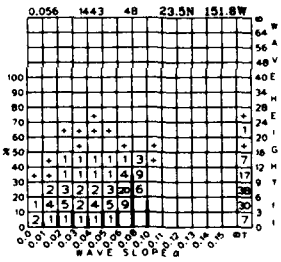


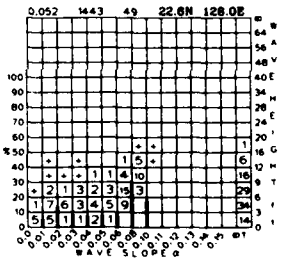


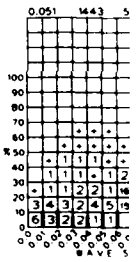


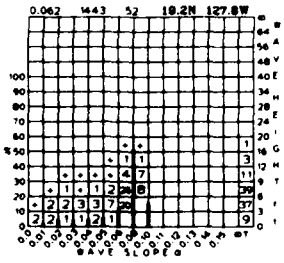


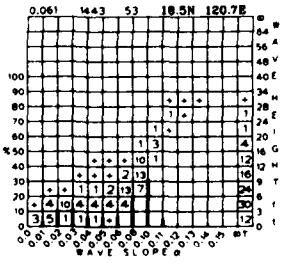


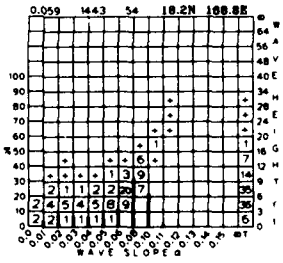


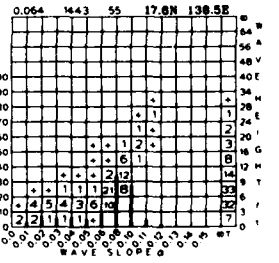


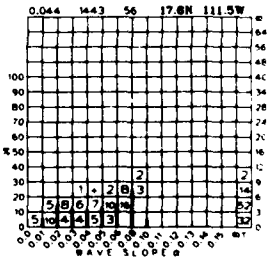


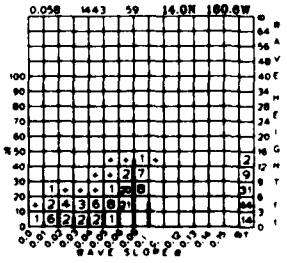


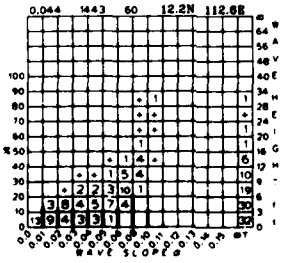


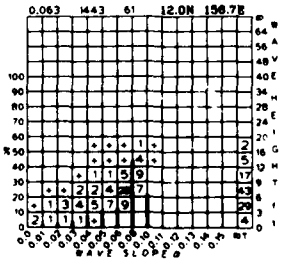


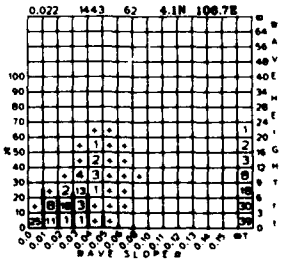


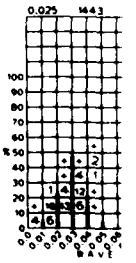






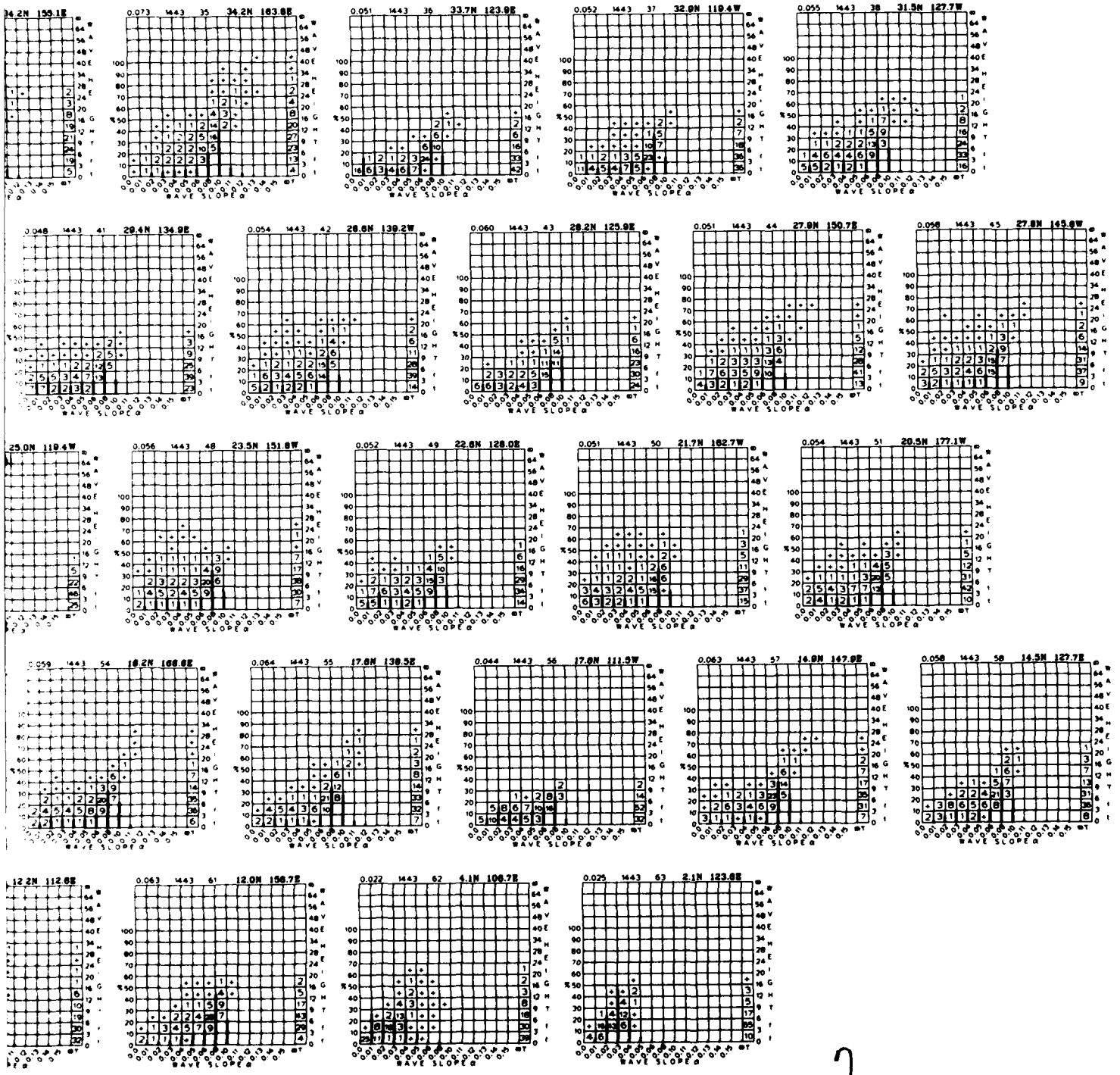






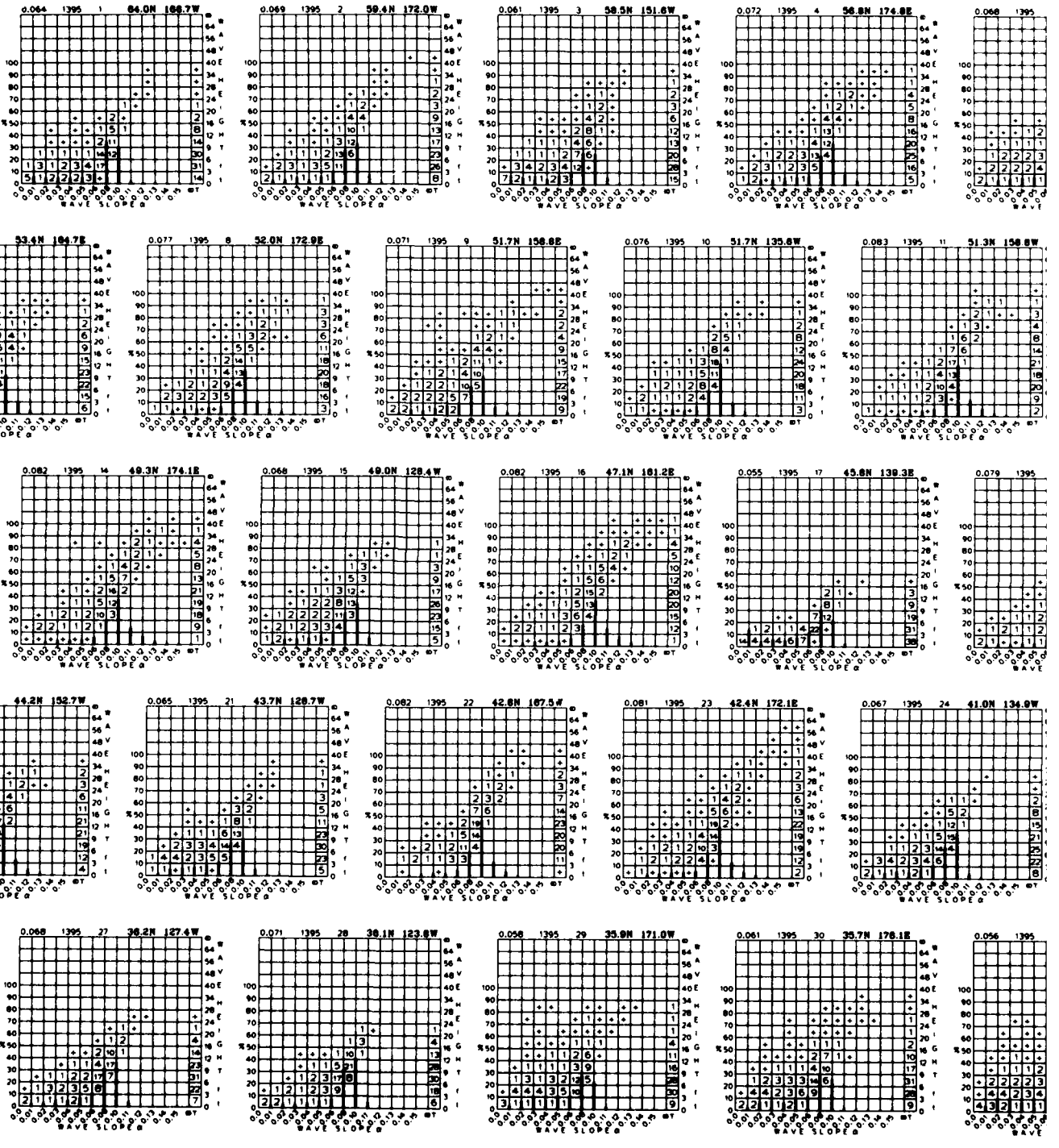
/E SLOPE (α) (Cont'd)

MARCH

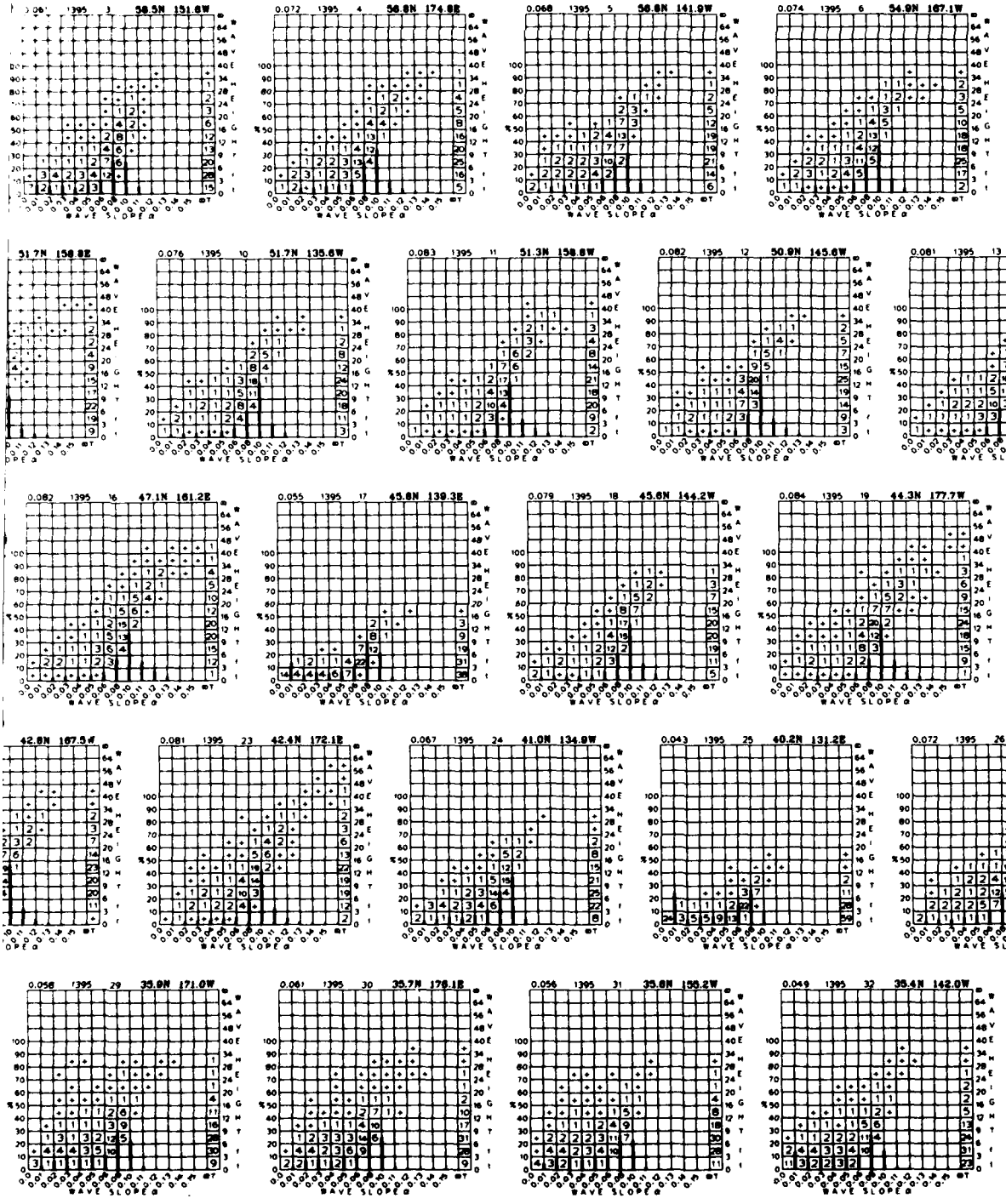


APRIL

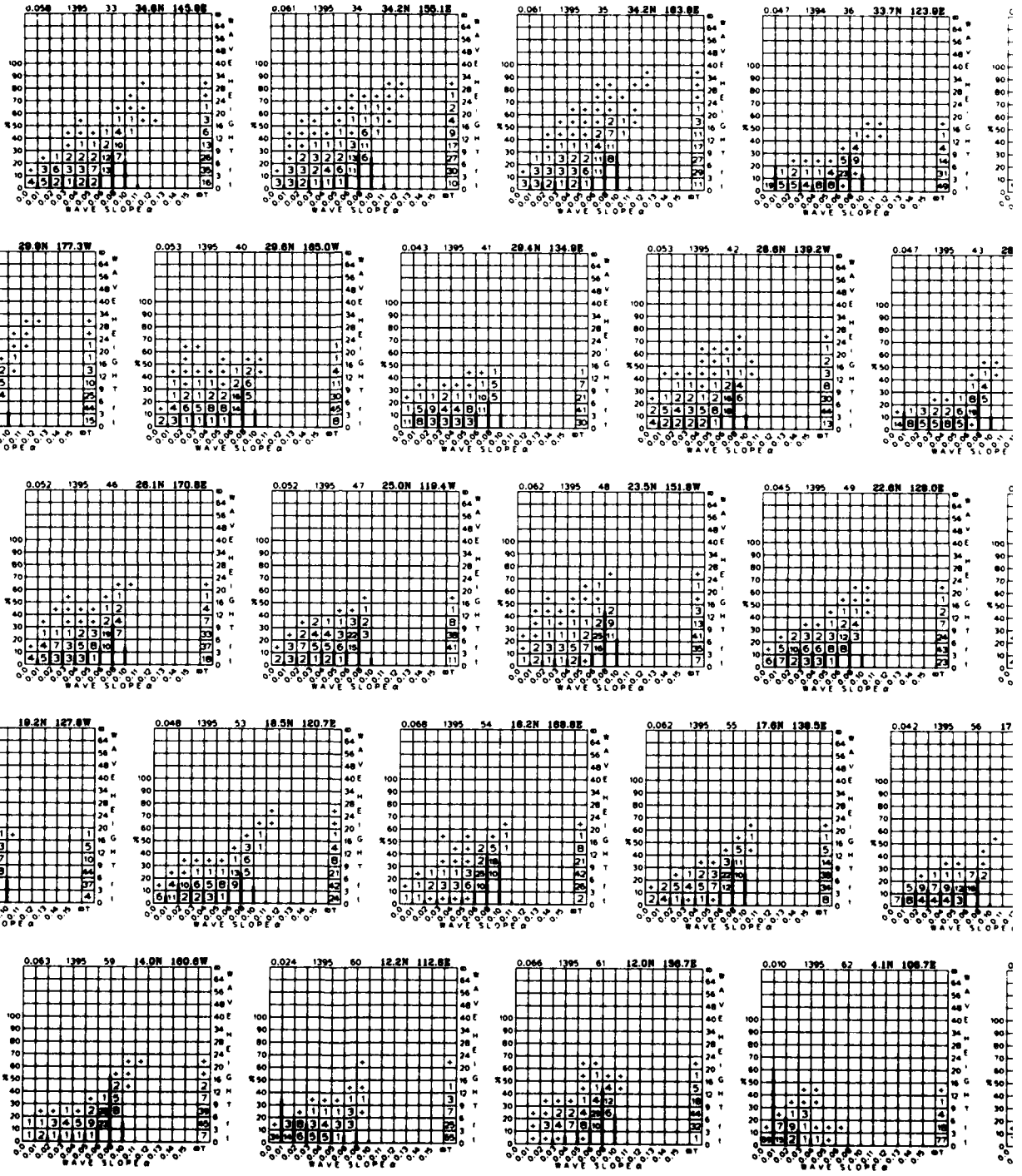
WAVE HEI



WAVE HEIGHT AND WAVE SLOPE (α)

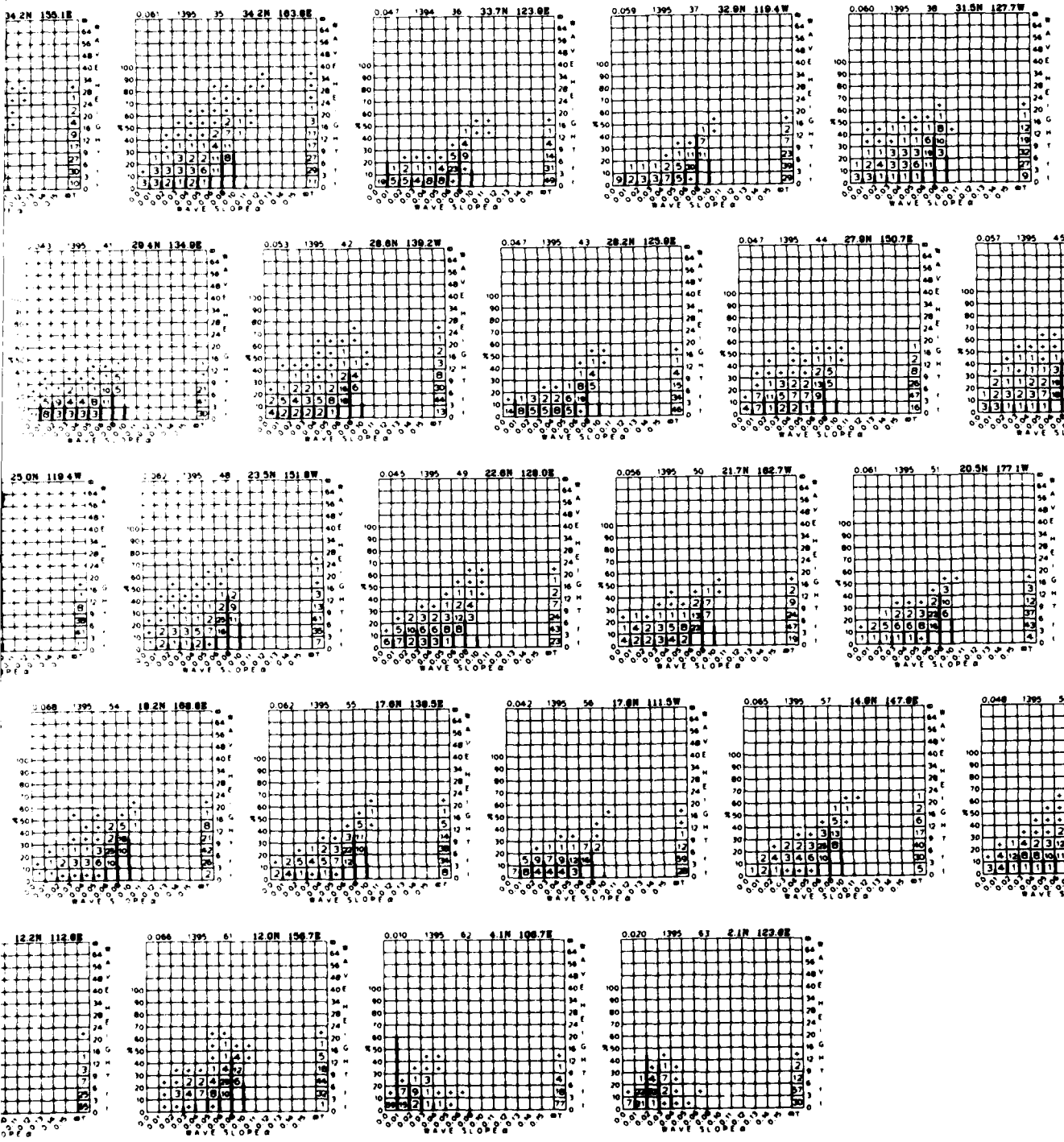


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)



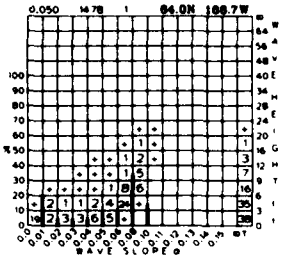
/E SLOPE (α) (Cont'd)

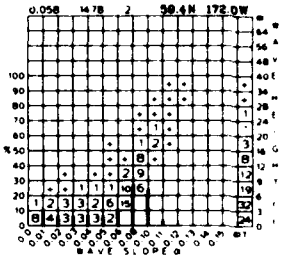
APRIL

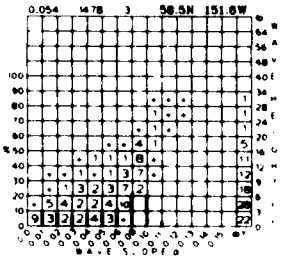


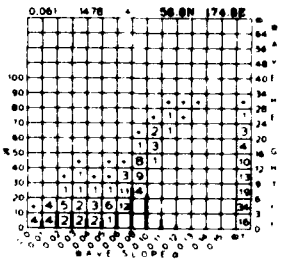
MAY

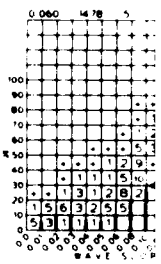
WAVE HEIGH

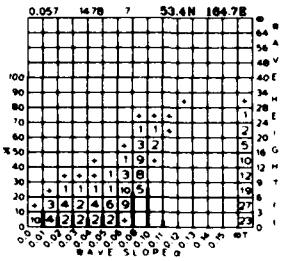


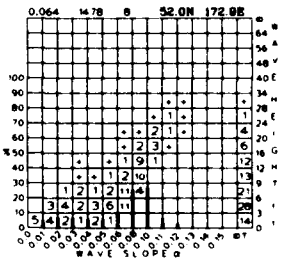


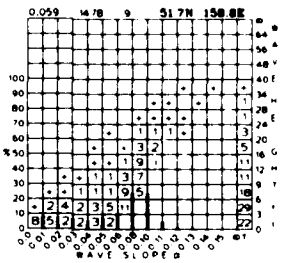


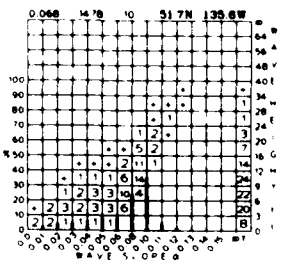


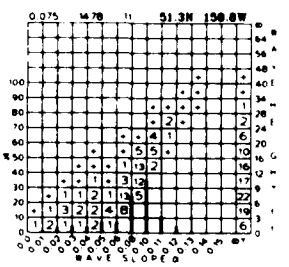


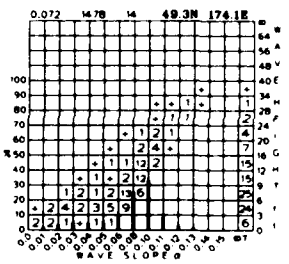


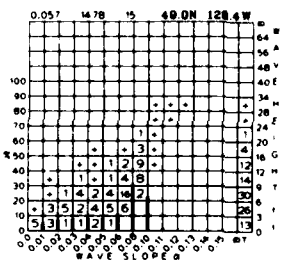


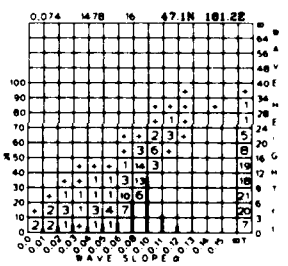


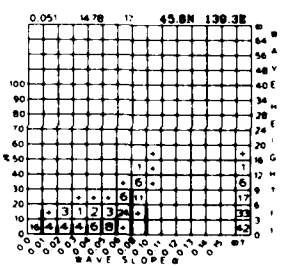


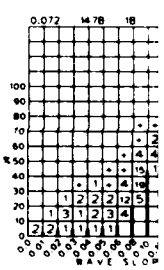


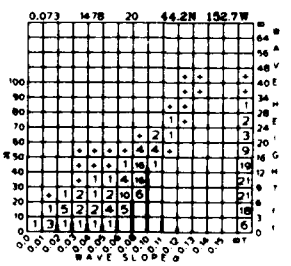


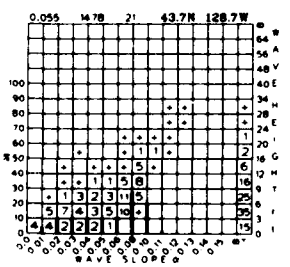


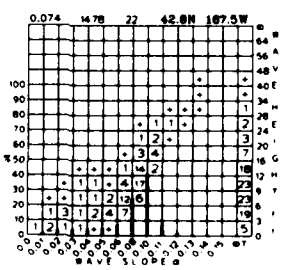


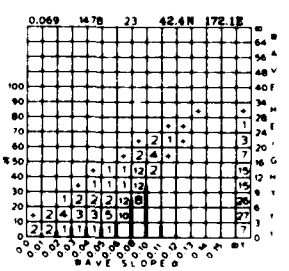


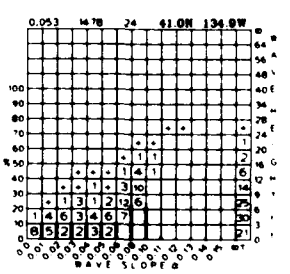


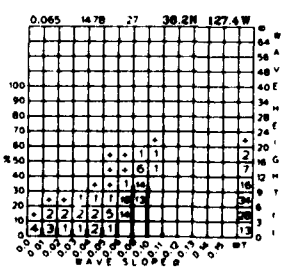


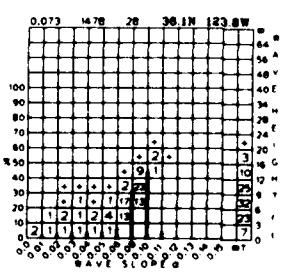


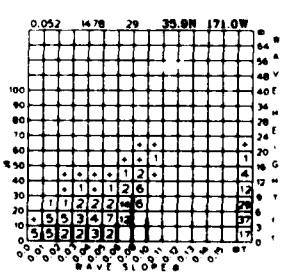


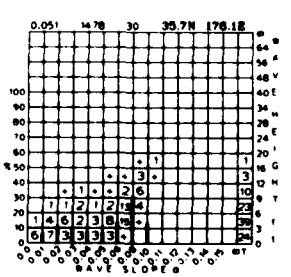


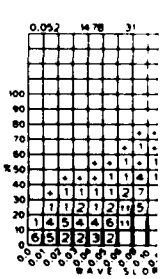








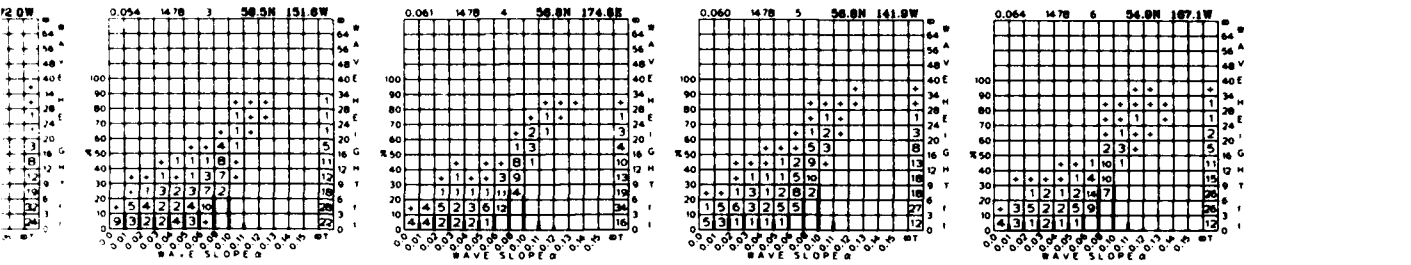


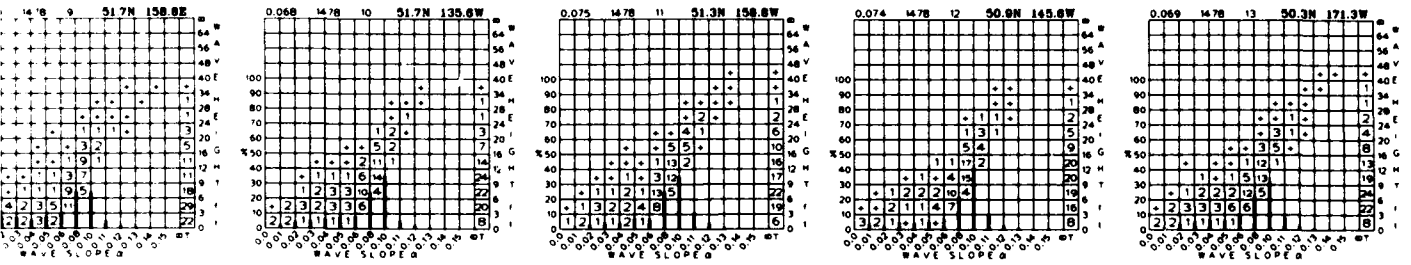


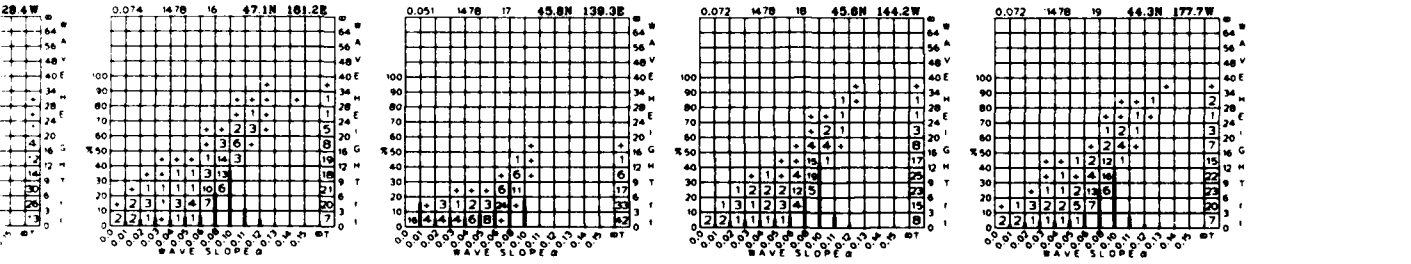
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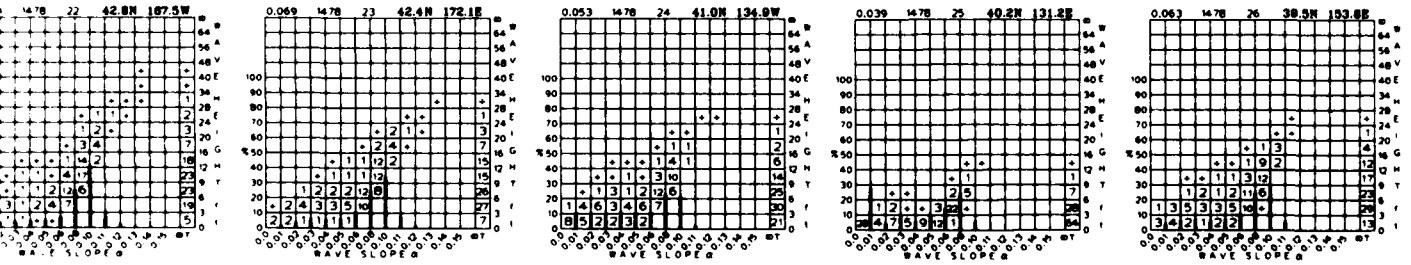
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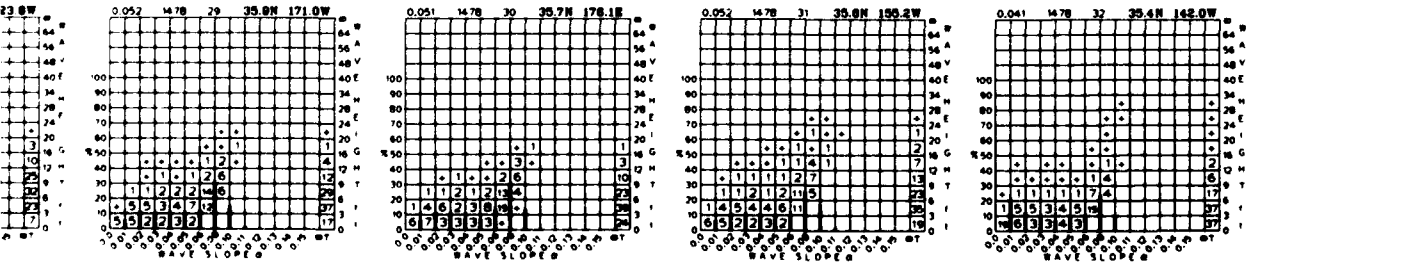
WAVE HEIGHT AND WAVE SLOPE (α)



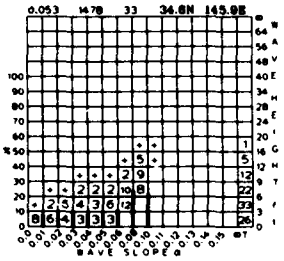


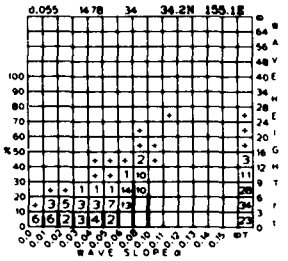


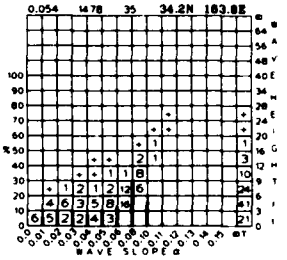


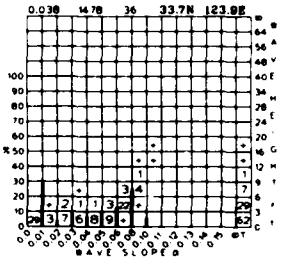


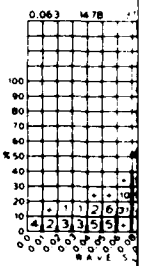
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

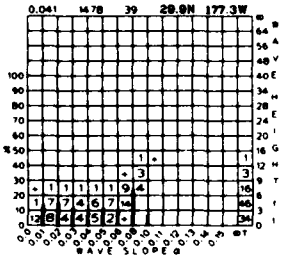


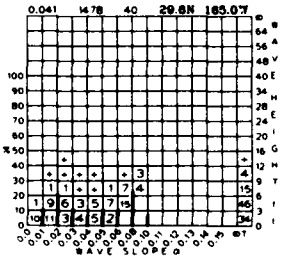


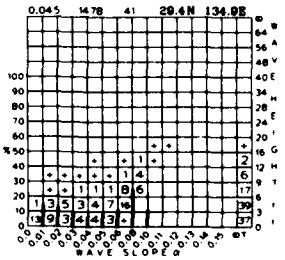


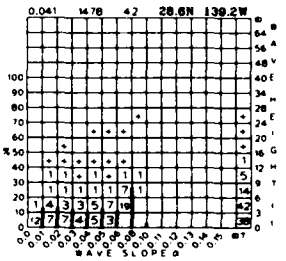


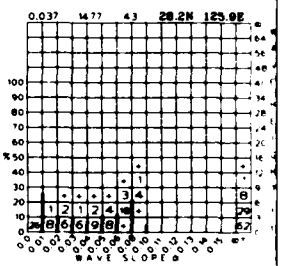


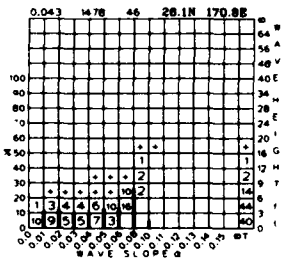


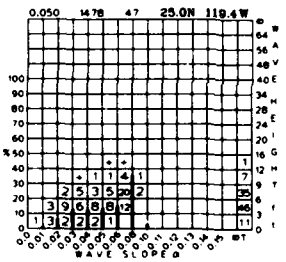


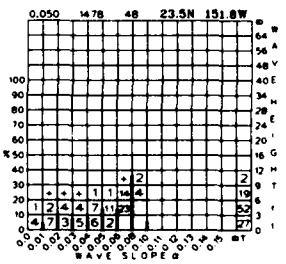


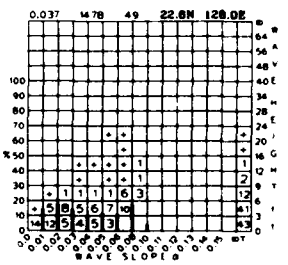


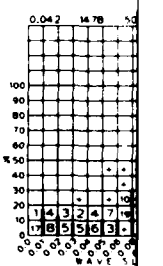


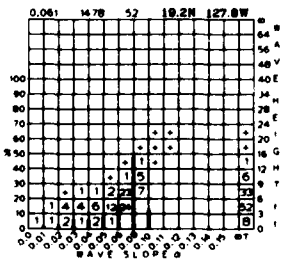


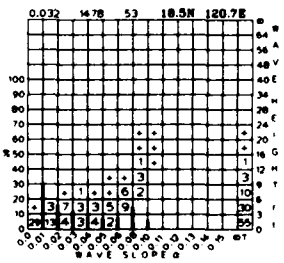


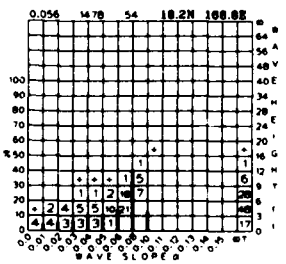


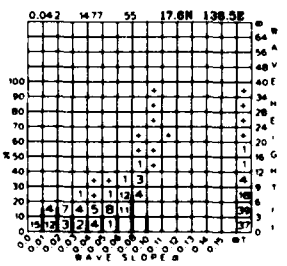


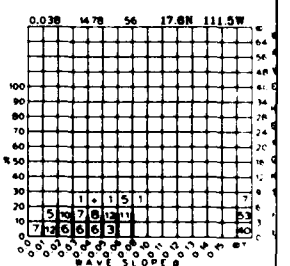


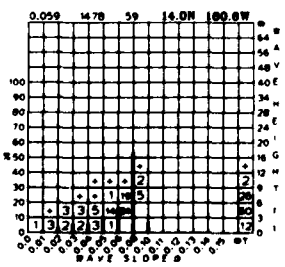


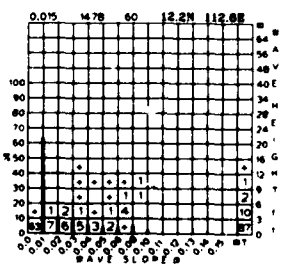


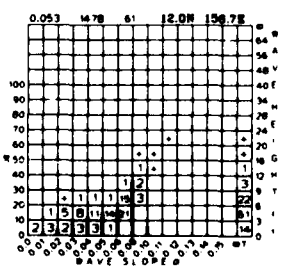


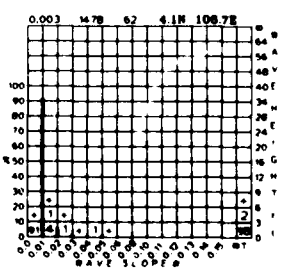


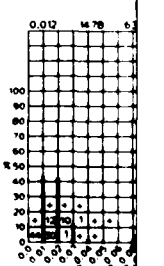






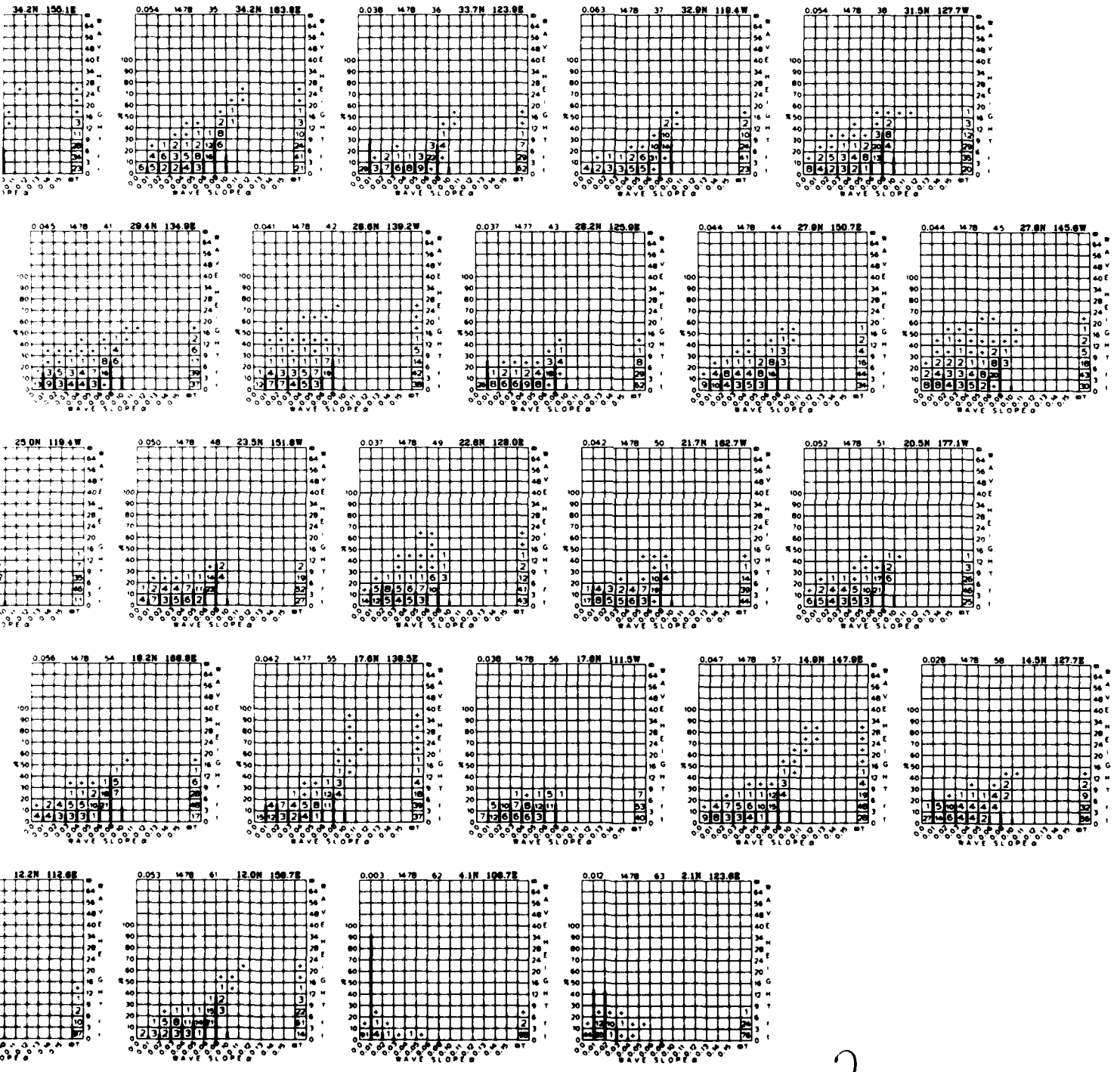






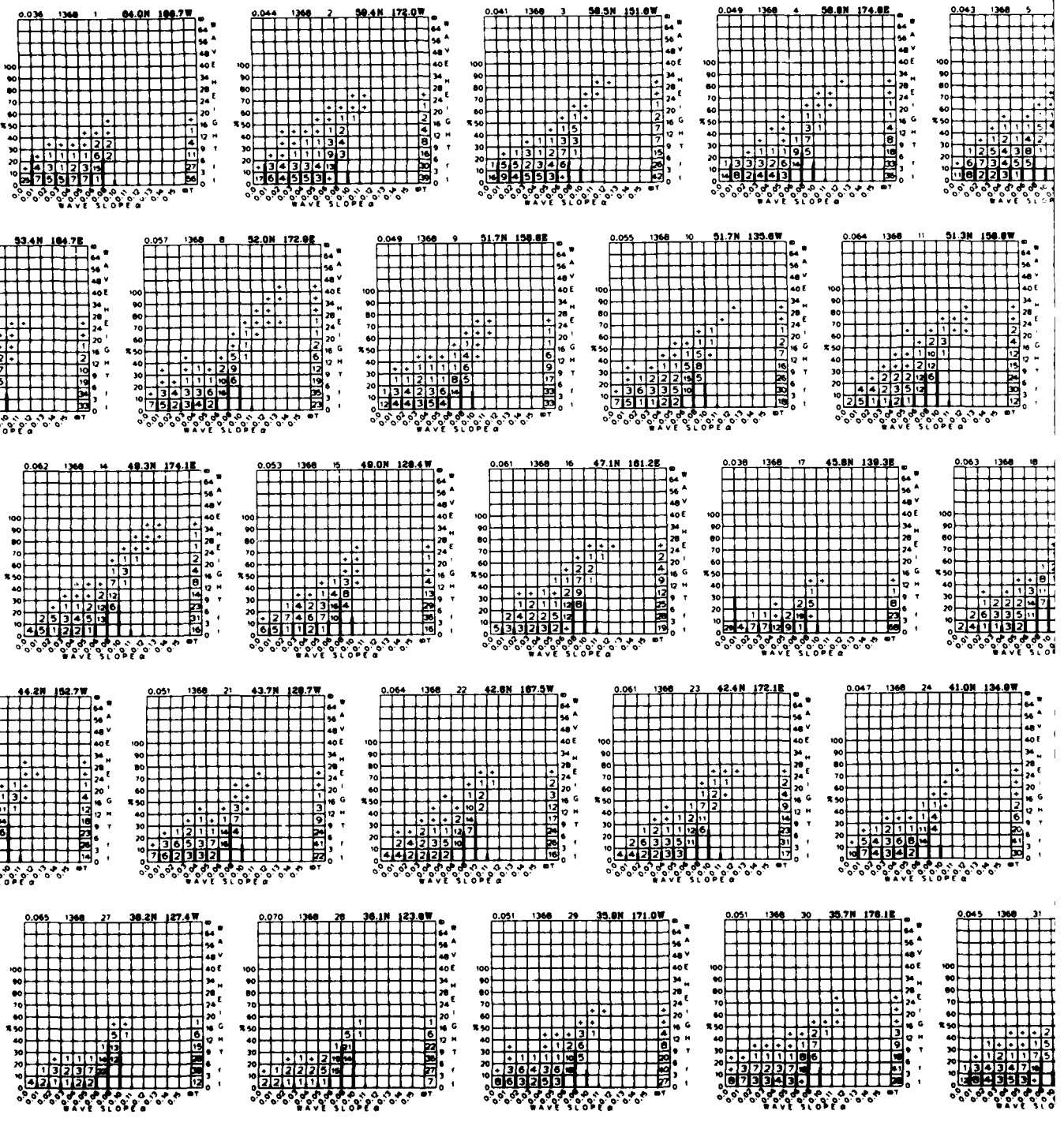
VE SLOPE (α) (Cont'd)

MAY

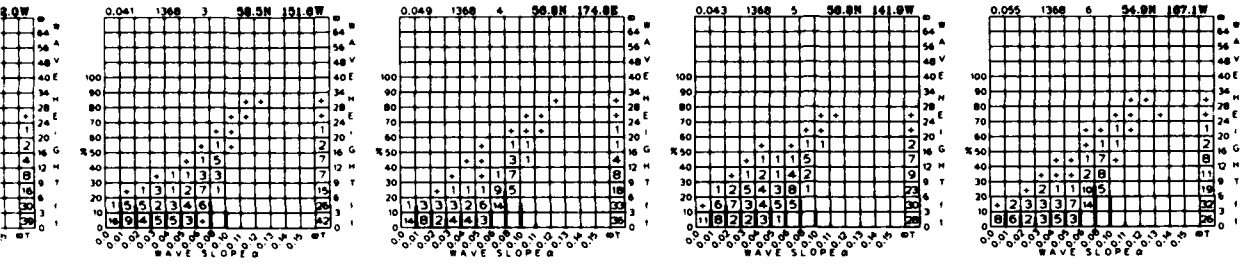


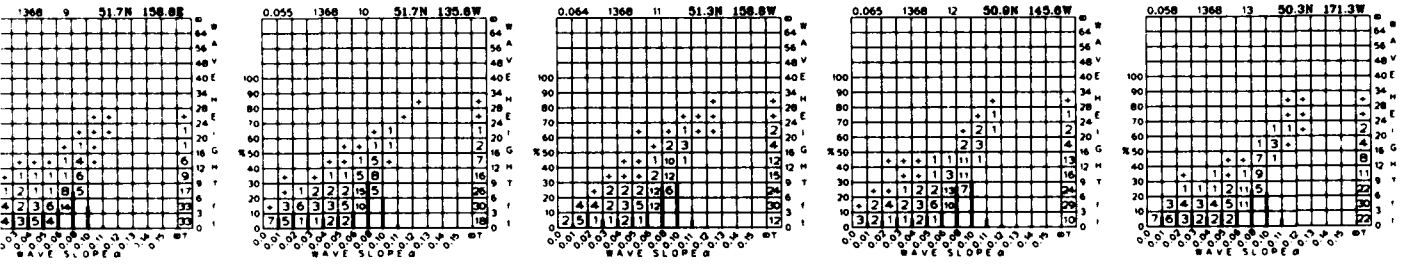
JUNE

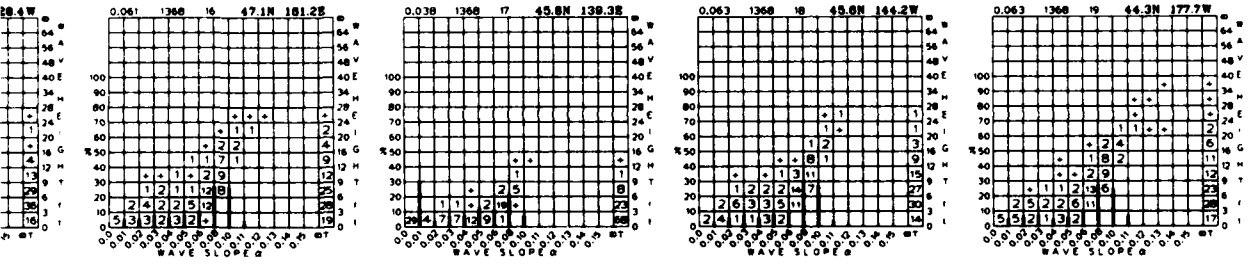
WAVE HEIGH

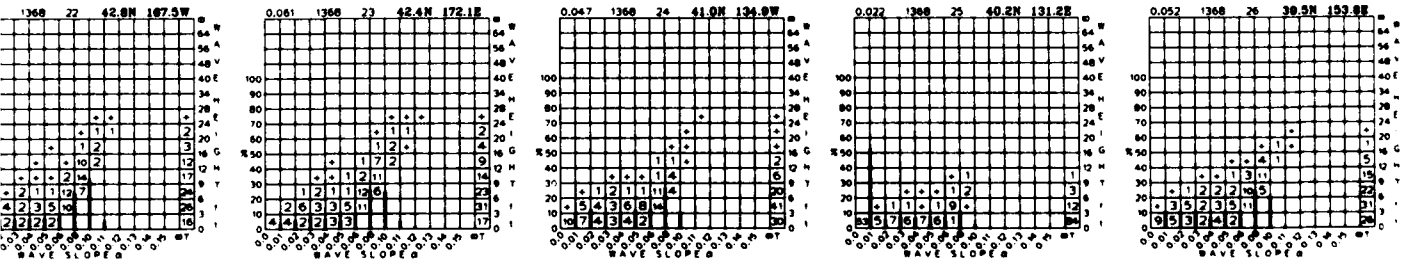


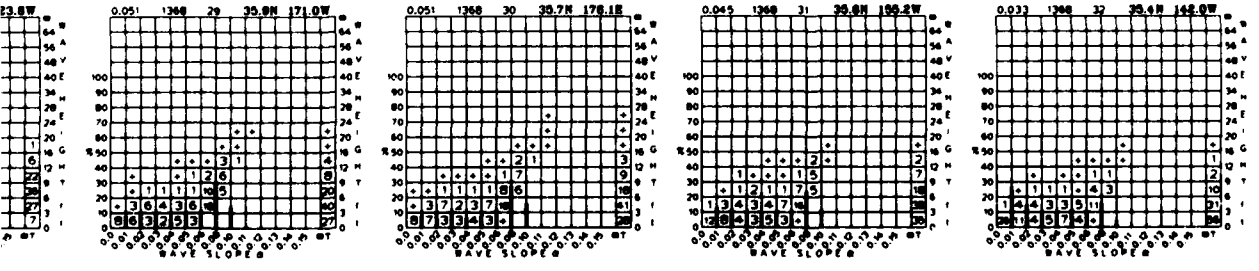
WAVE HEIGHT AND WAVE SLOPE (α)



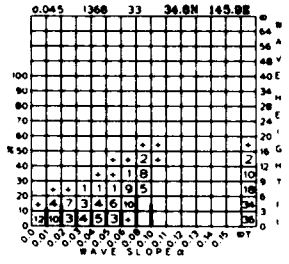


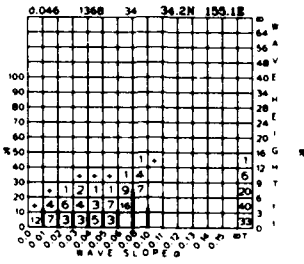


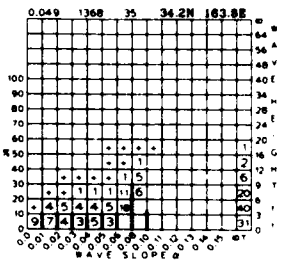


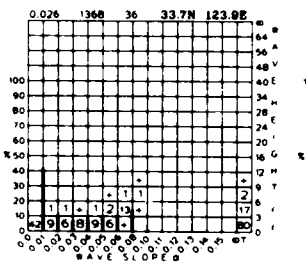


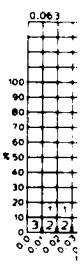
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

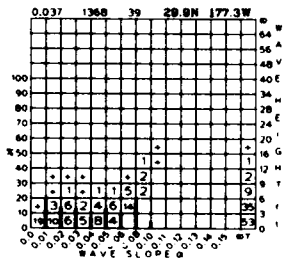


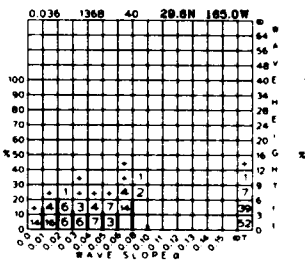


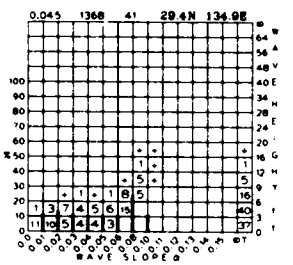


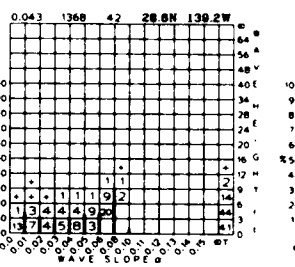


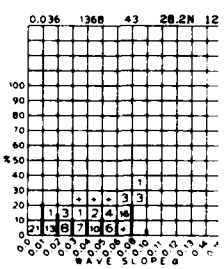


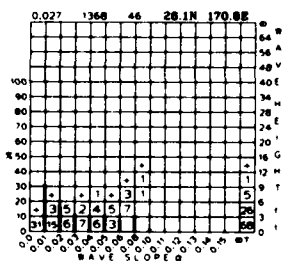


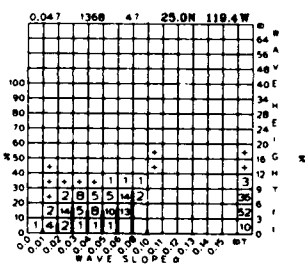


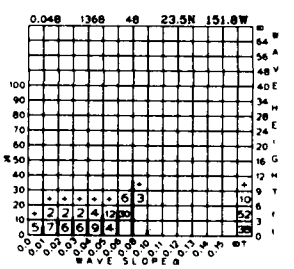


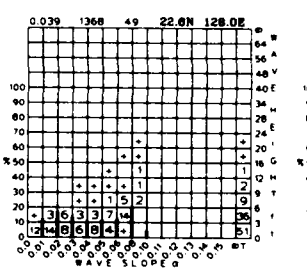


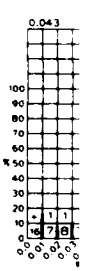


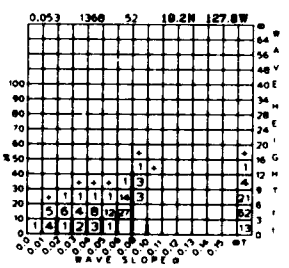


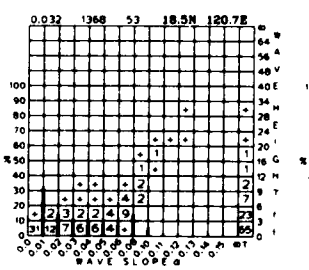


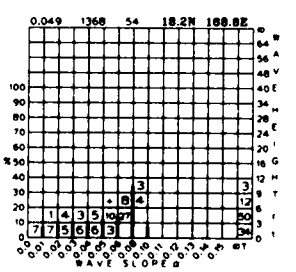


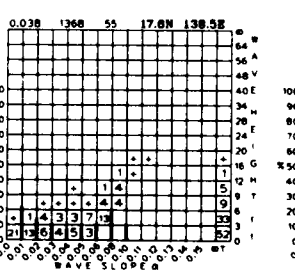


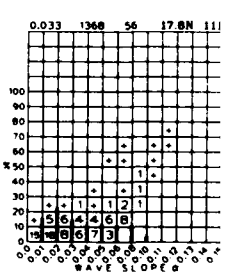


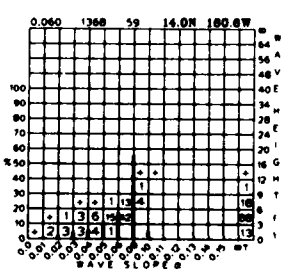


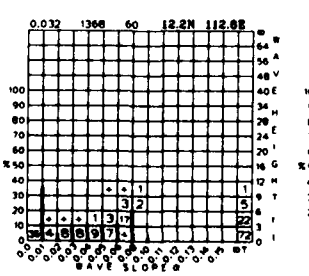


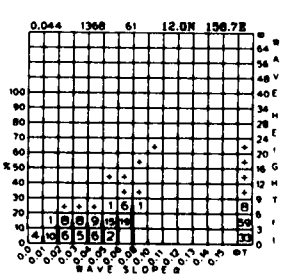


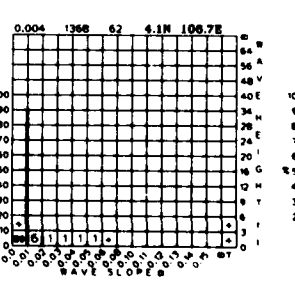


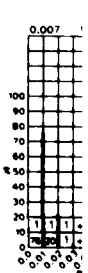






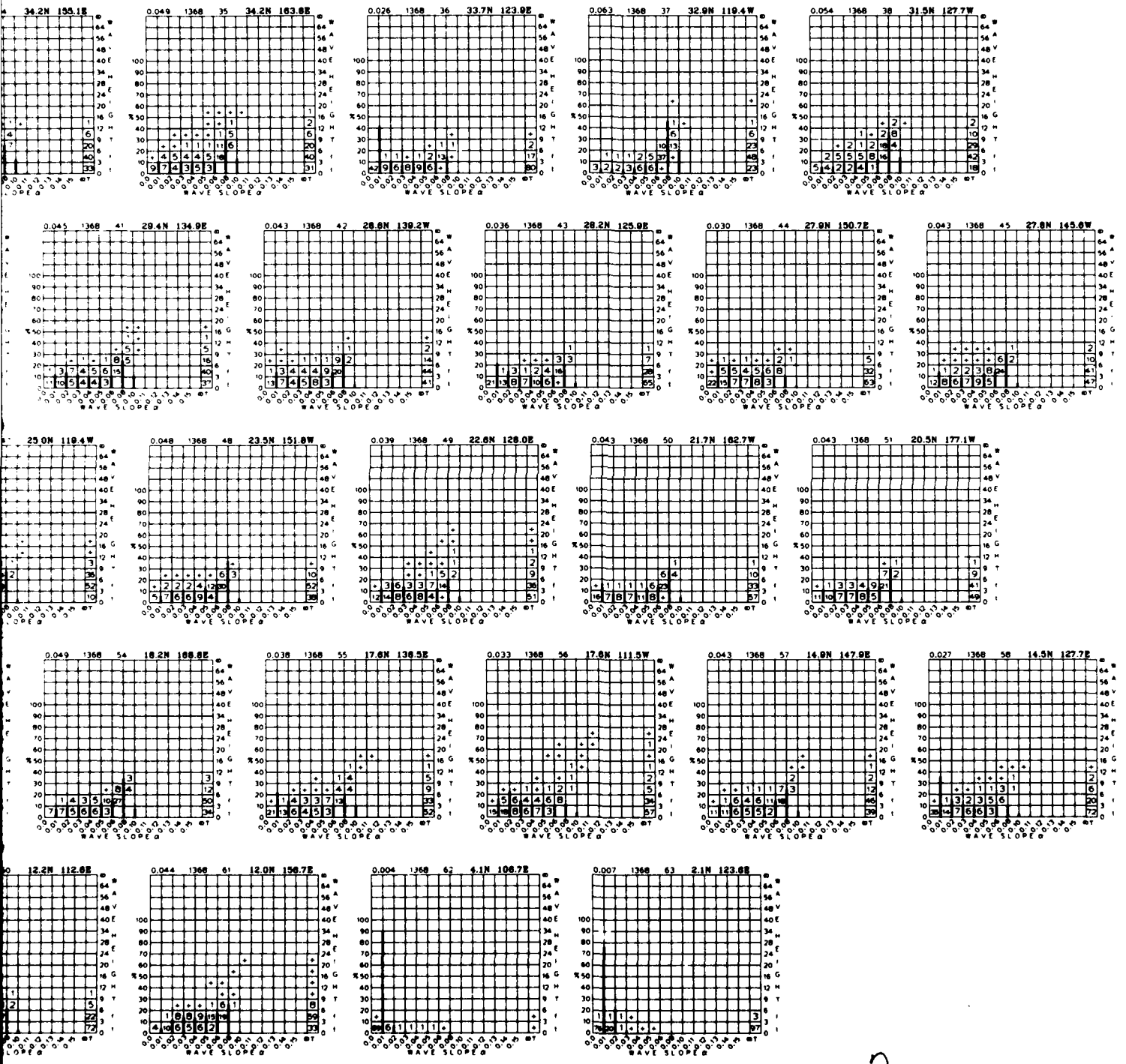






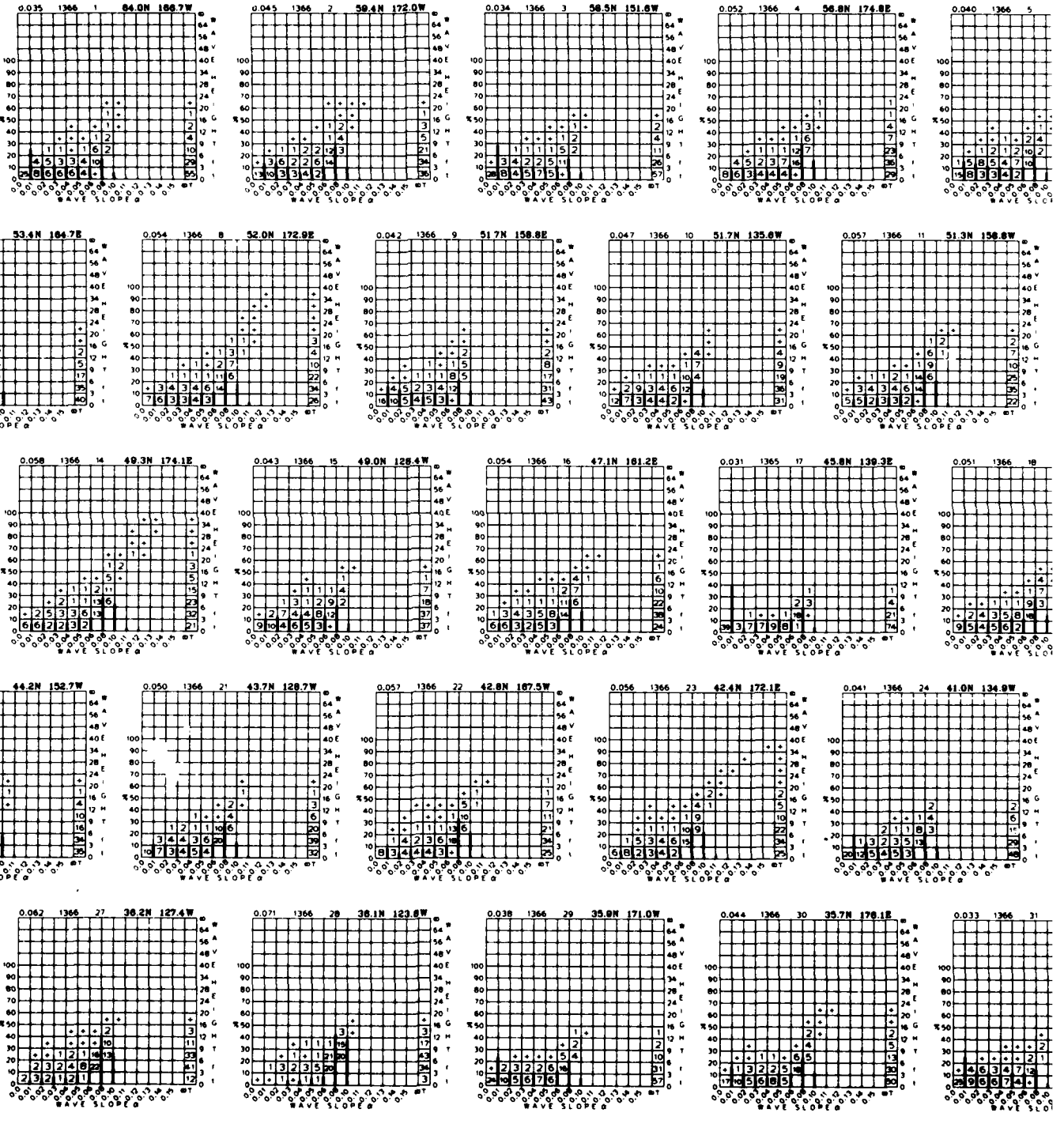
AVE SLOPE (α) (Cont'd)

JUNE

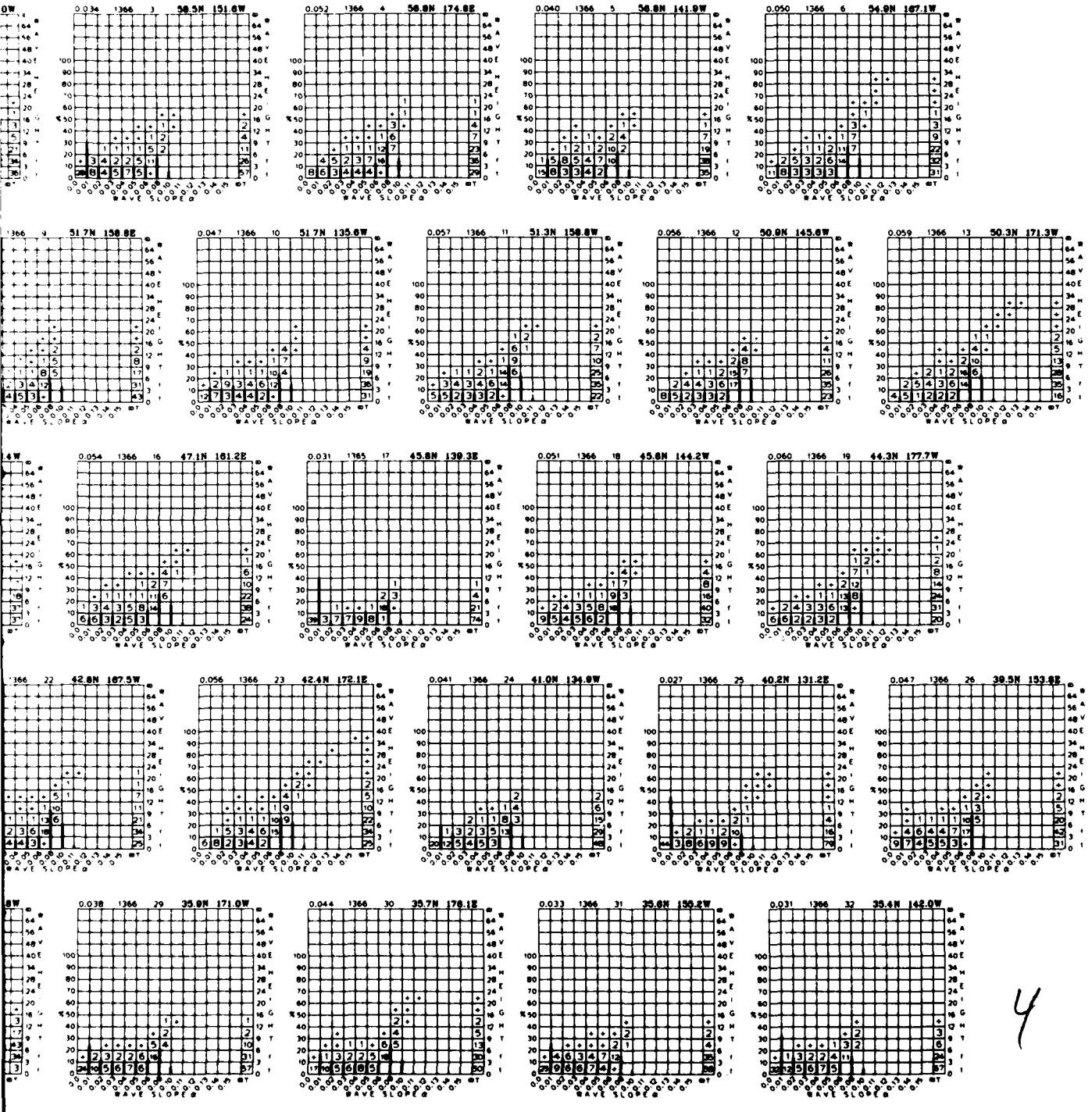


JULY

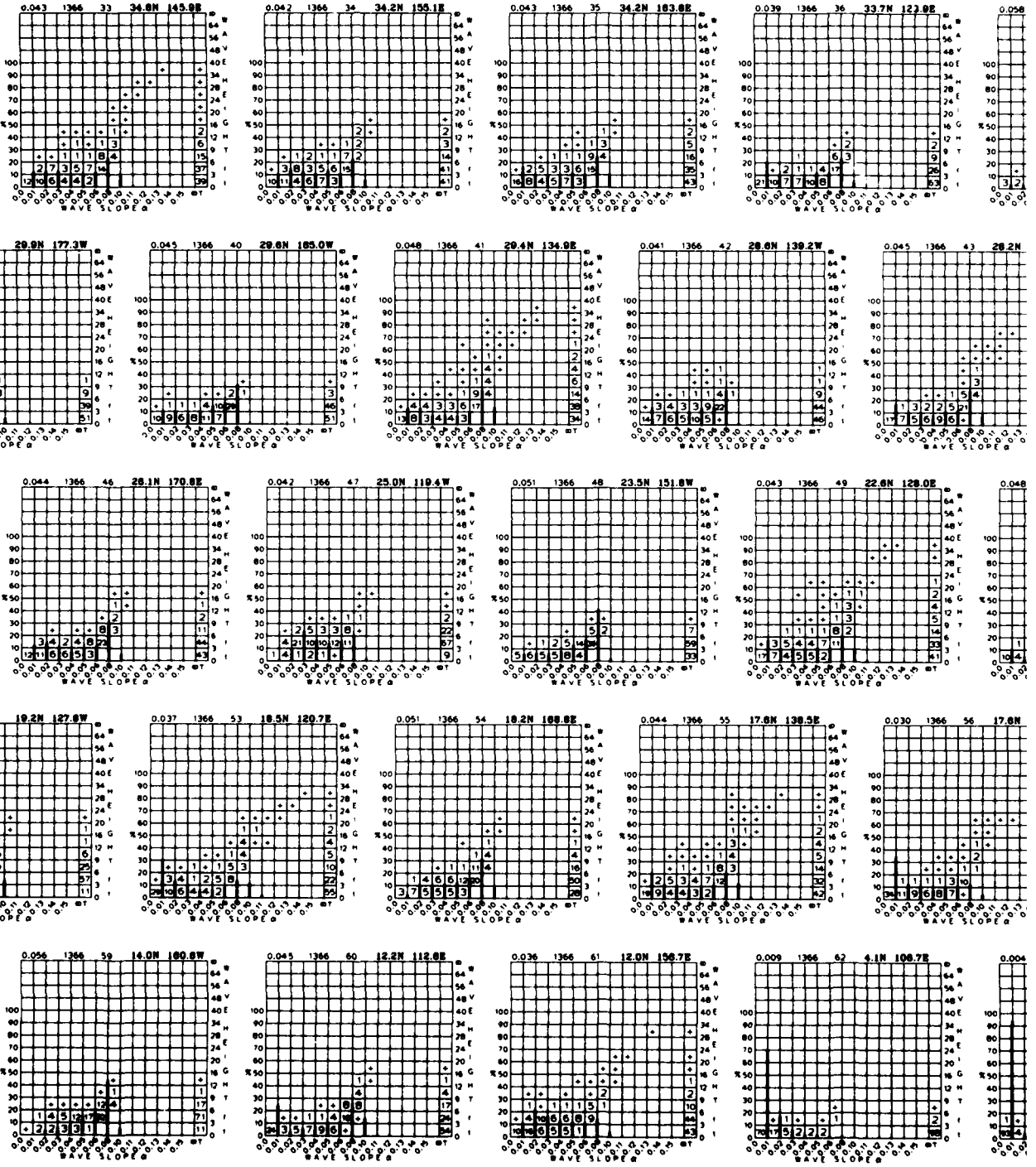
WAVE HEIGH



WAVE HEIGHT AND WAVE SLOPE (α)

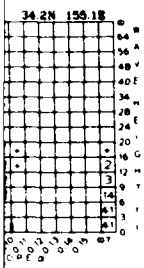


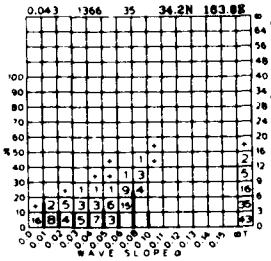
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

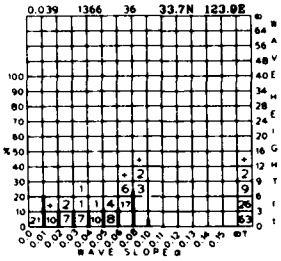


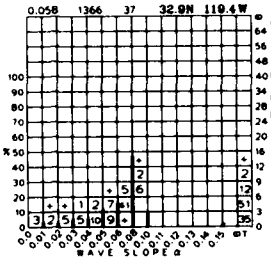
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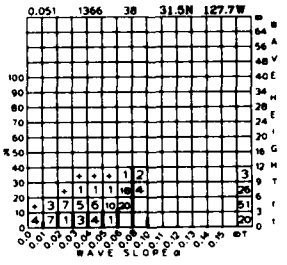
JULY

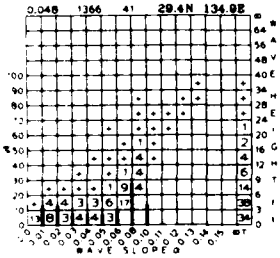


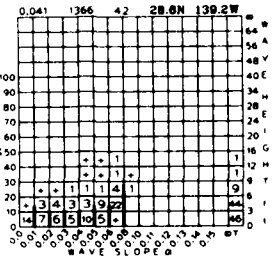


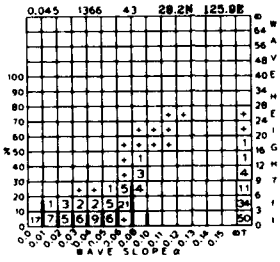


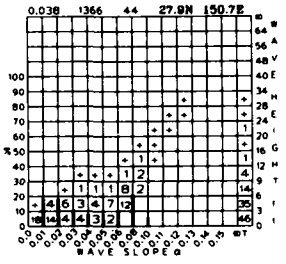


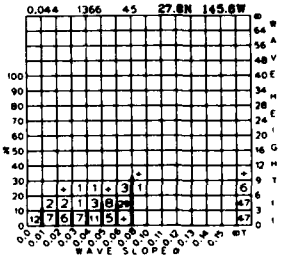


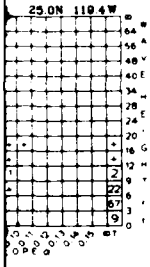


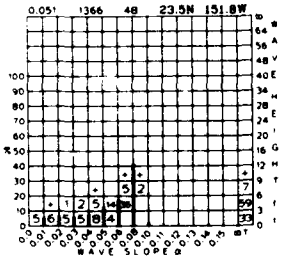


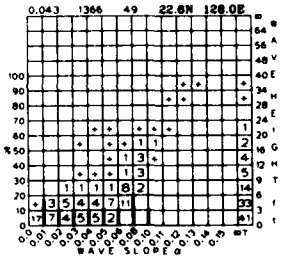


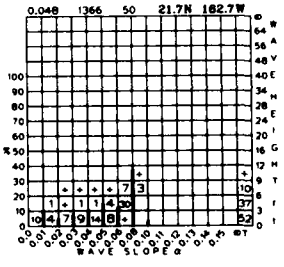


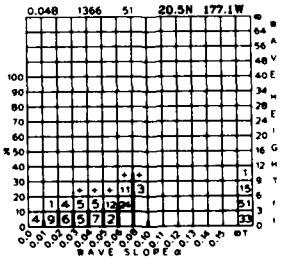


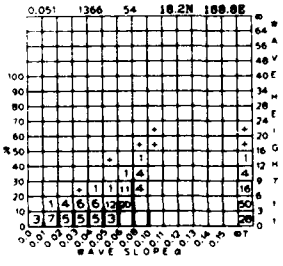


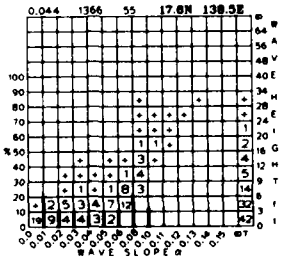


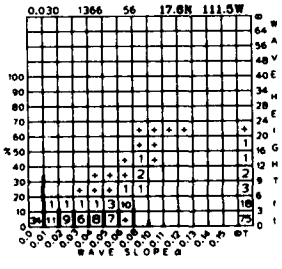


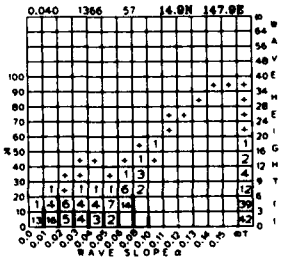


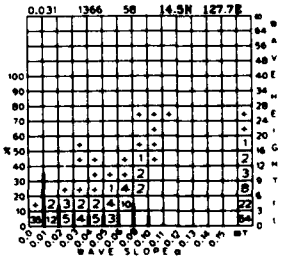


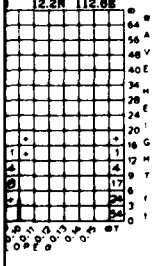


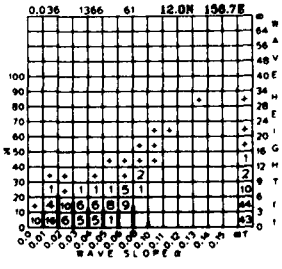


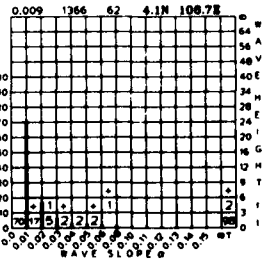


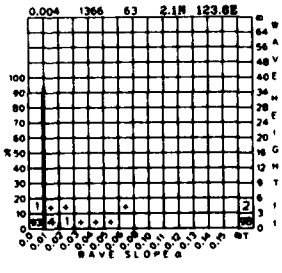








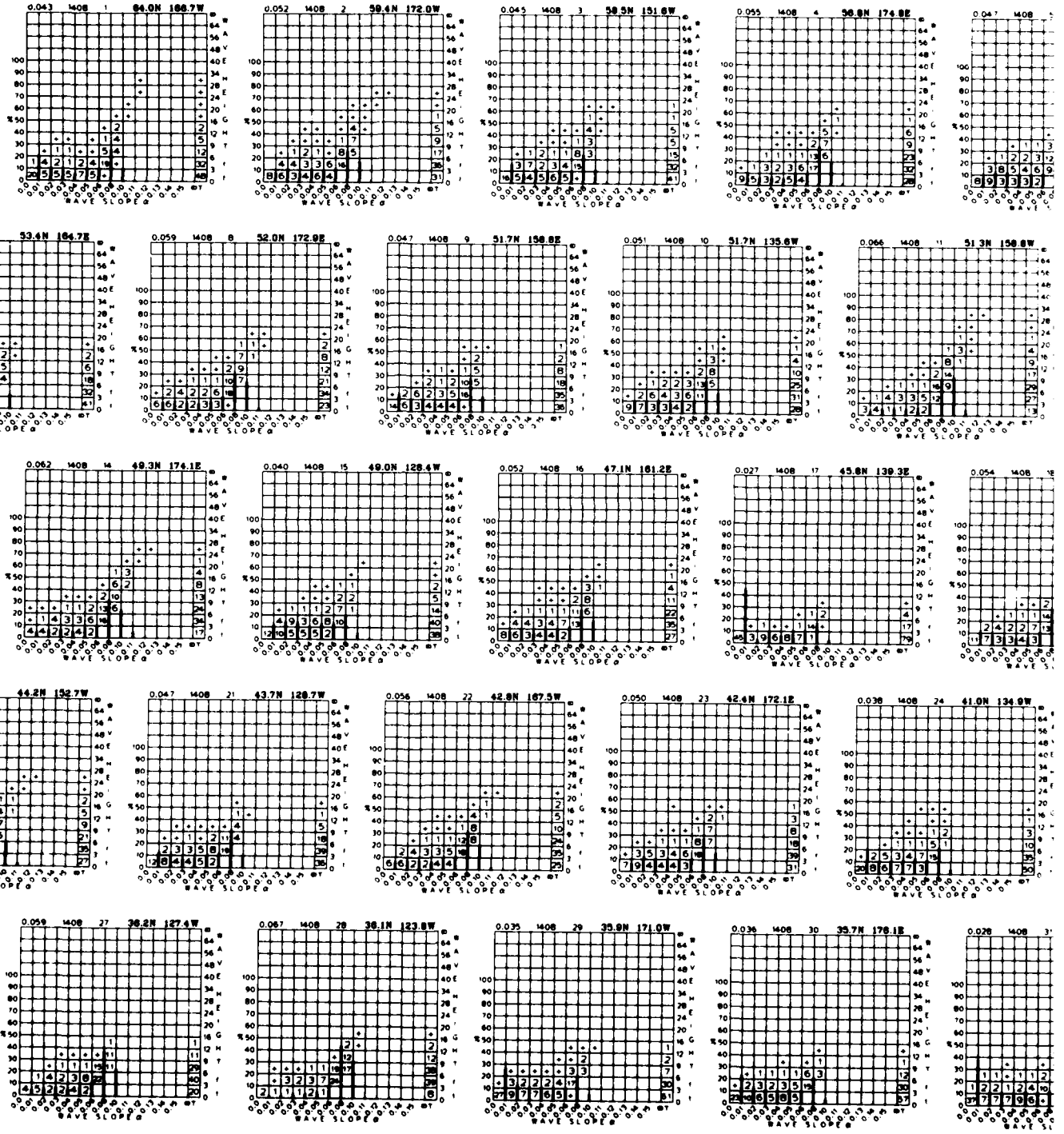




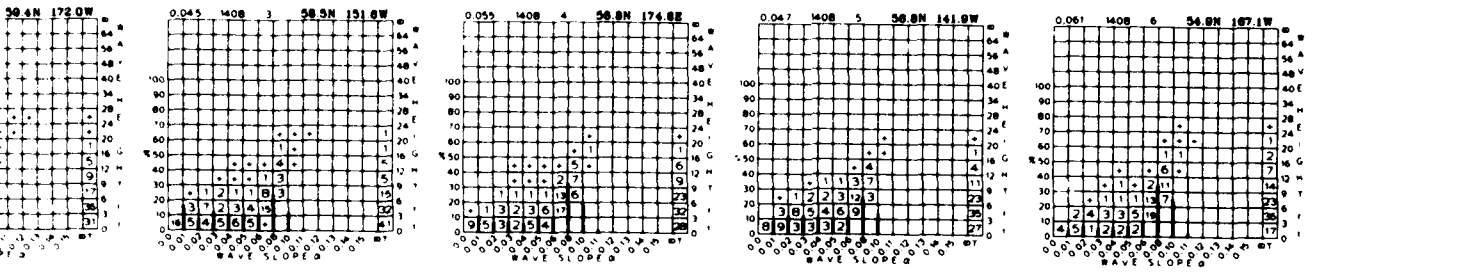
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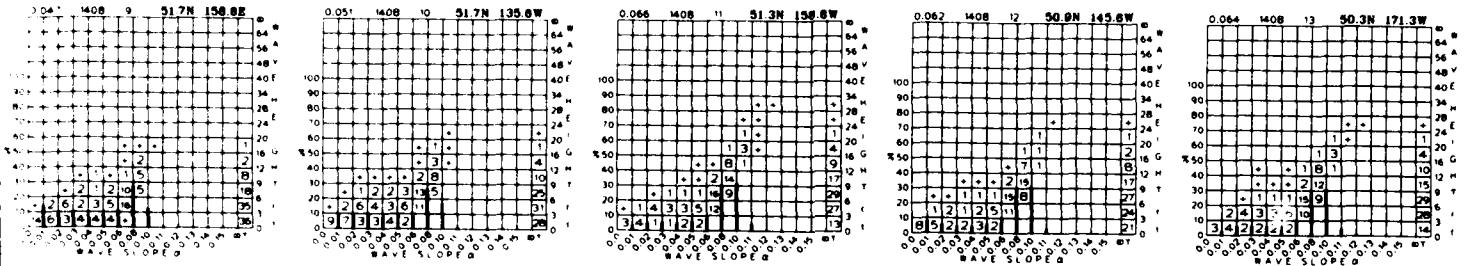
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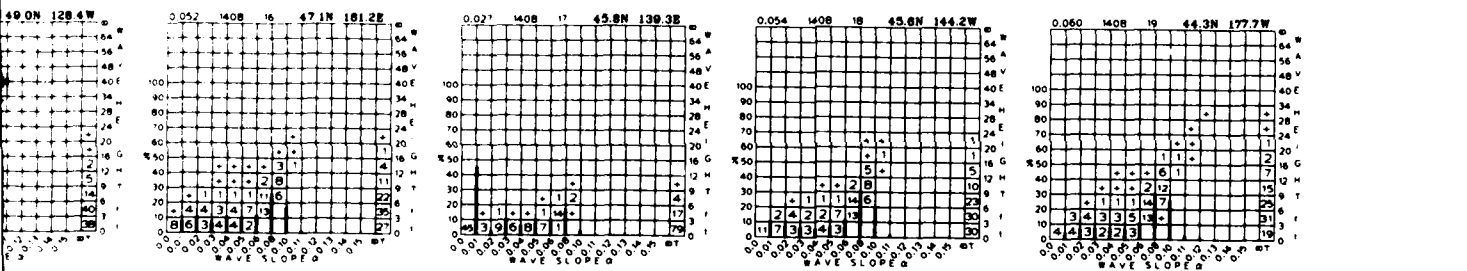
WAVE HEIG

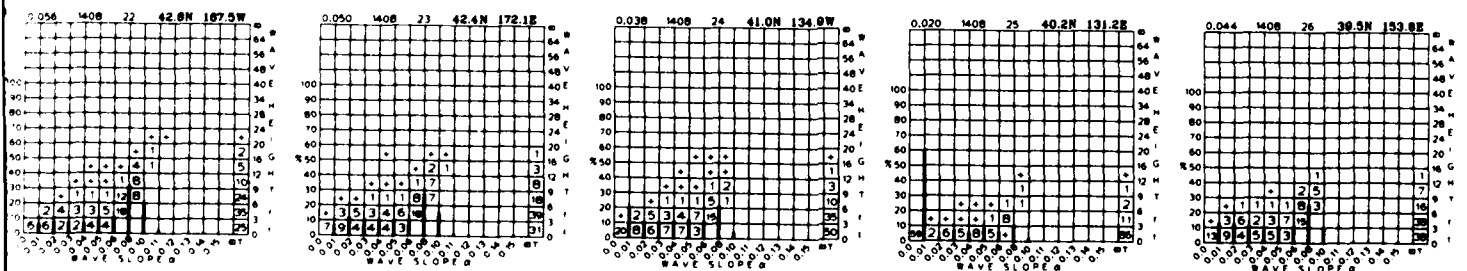


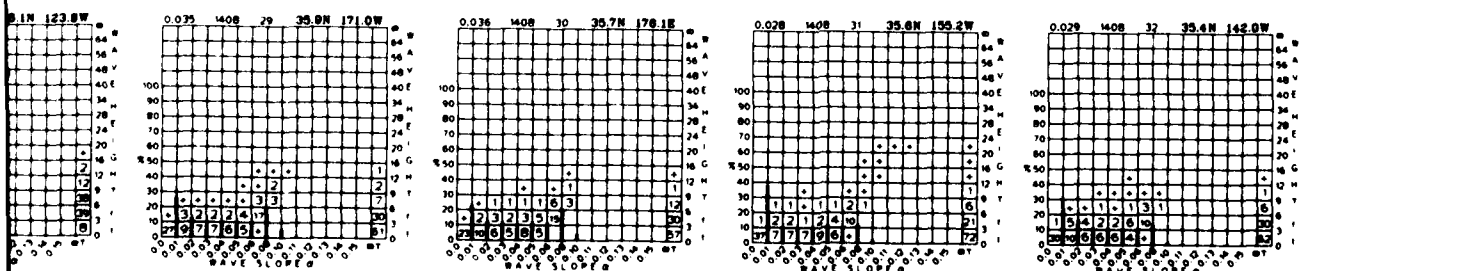
WAVE HEIGHT AND WAVE SLOPE (α)



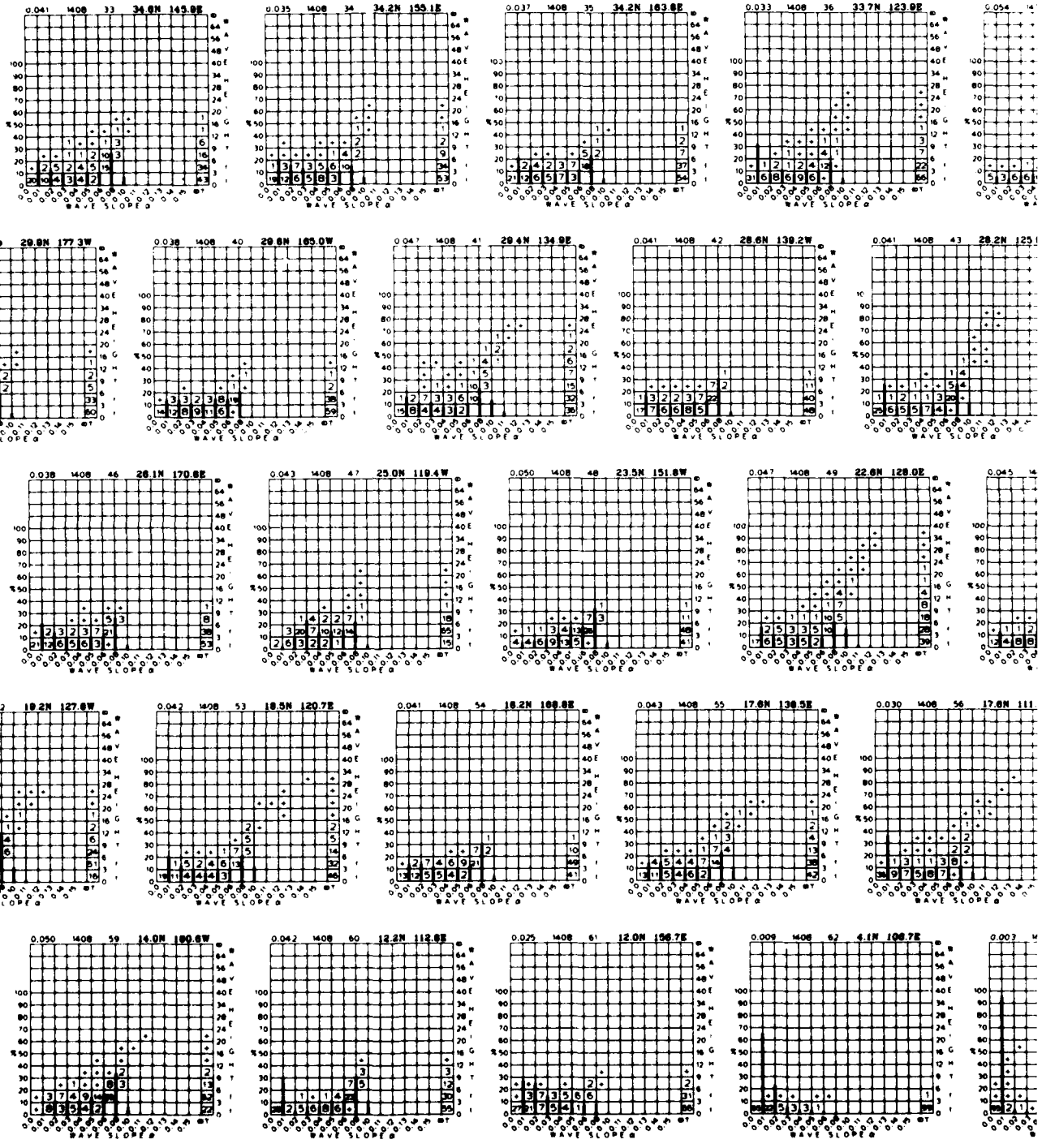






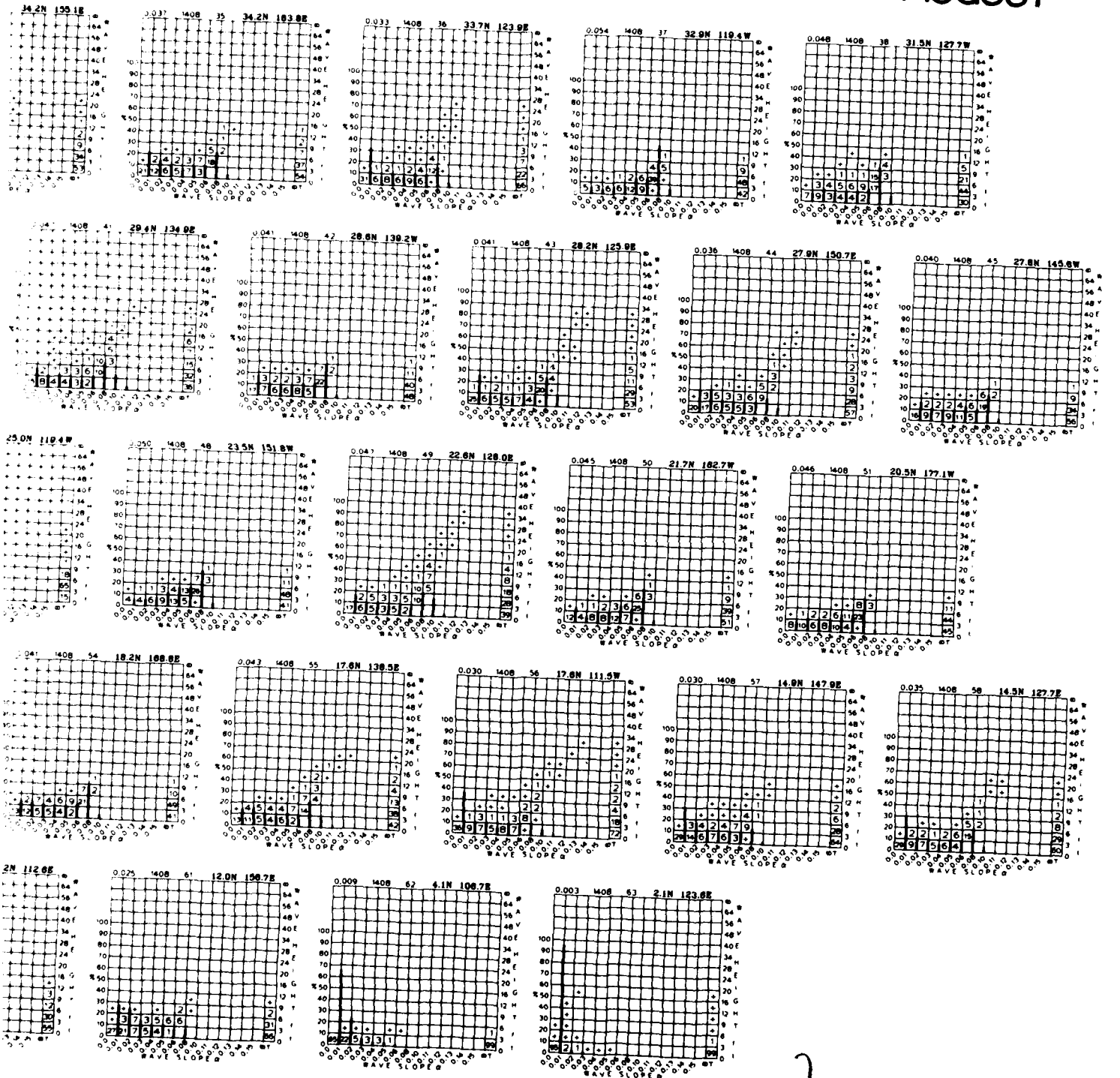


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)



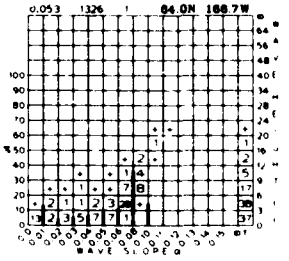
\VE SLOPE (α) (Cont'd)

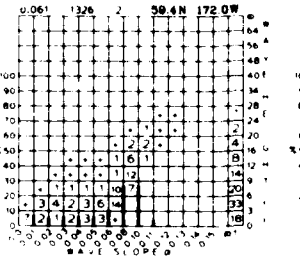
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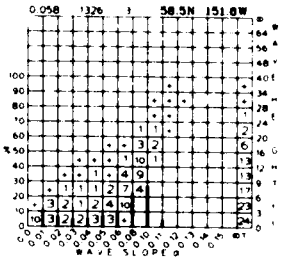


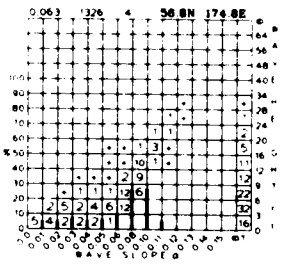
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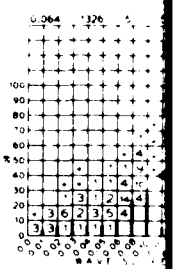
WAVE HEIGH

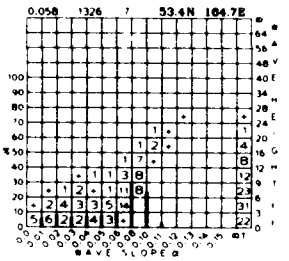


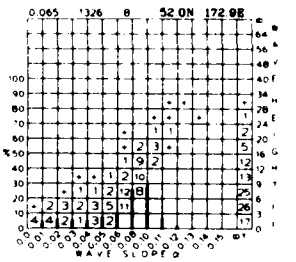


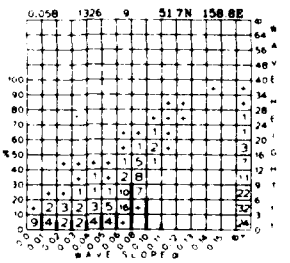


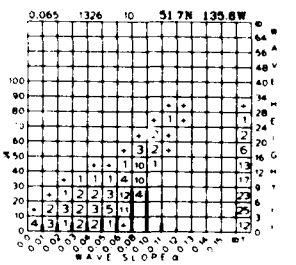


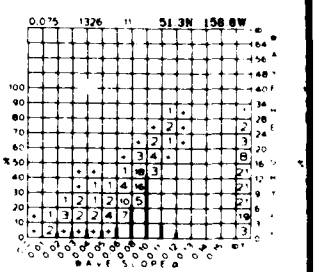


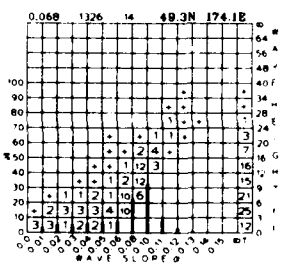


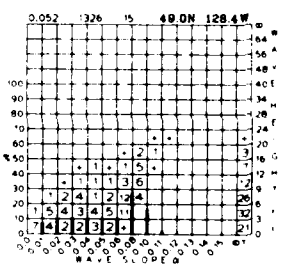


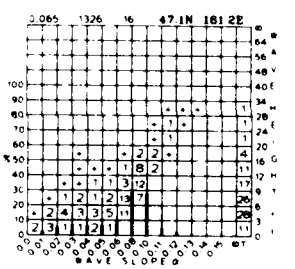


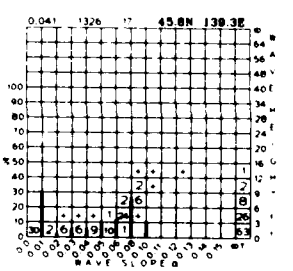


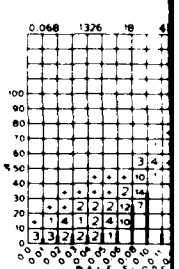


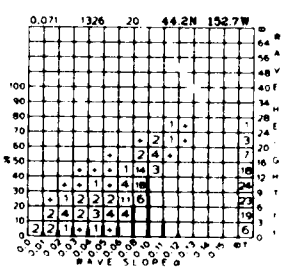


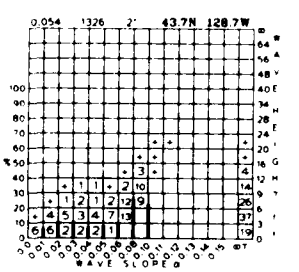


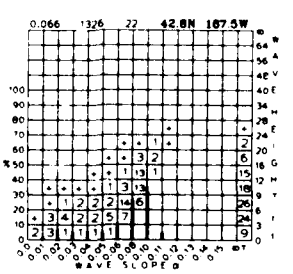


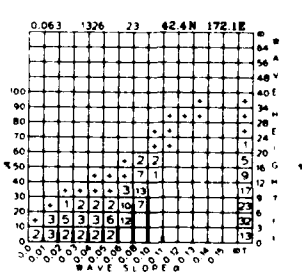


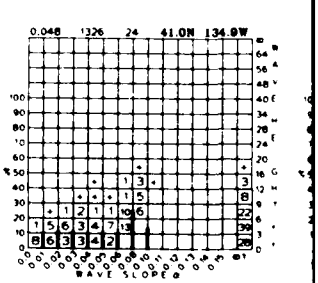


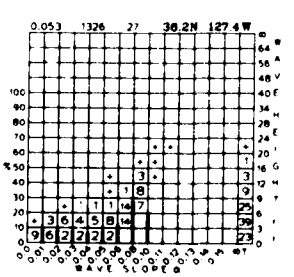


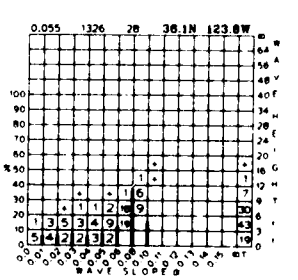


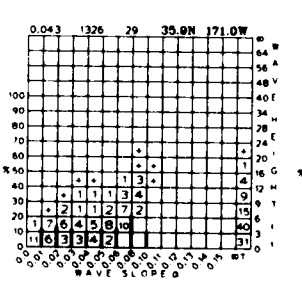


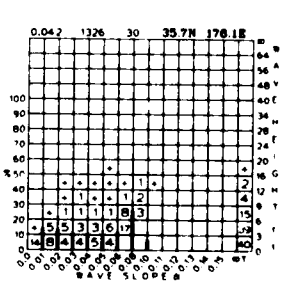


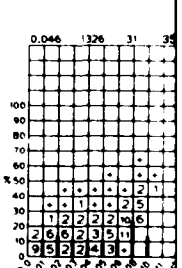






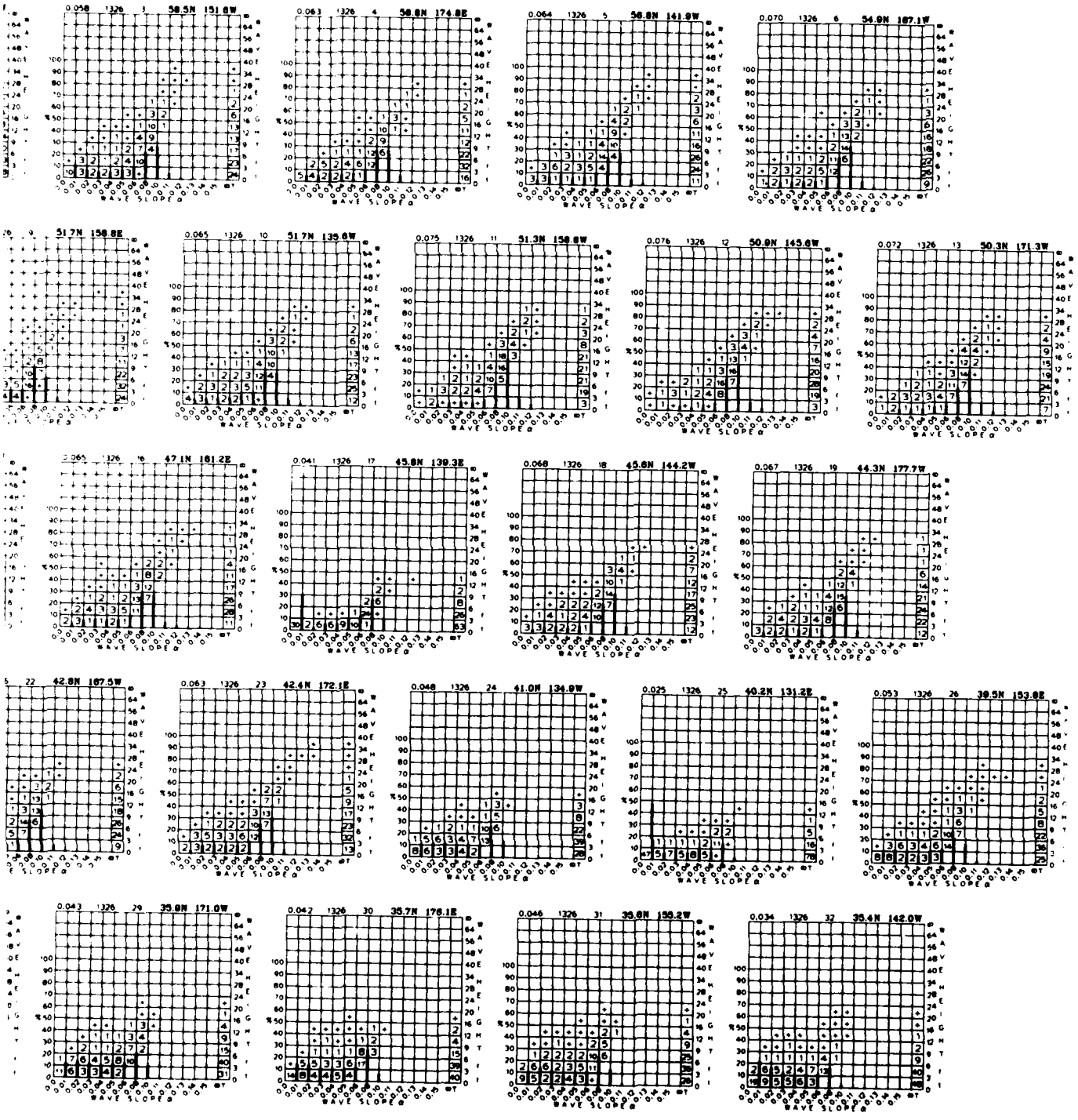




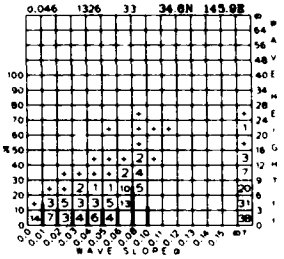


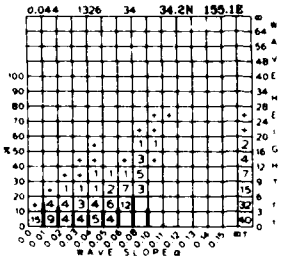
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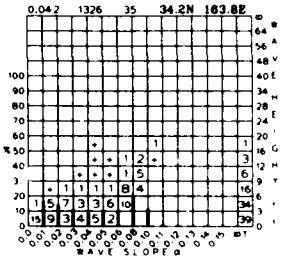
WAVE HEIGHT AND WAVE SLOPE (α)

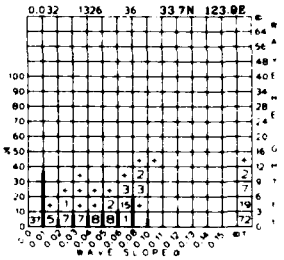


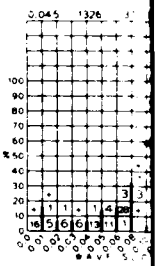
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

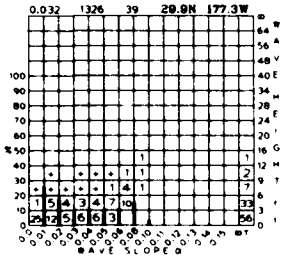


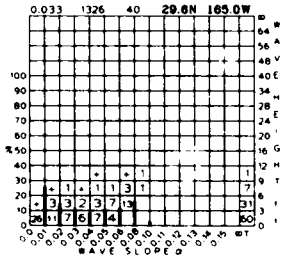


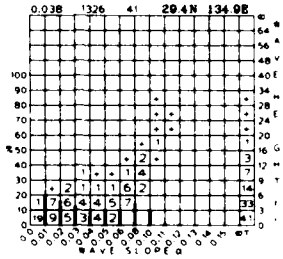


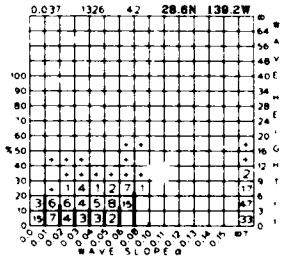


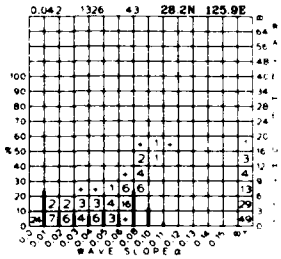


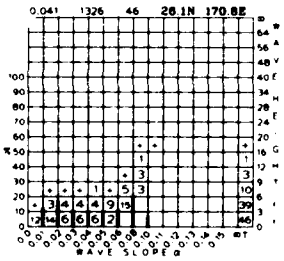


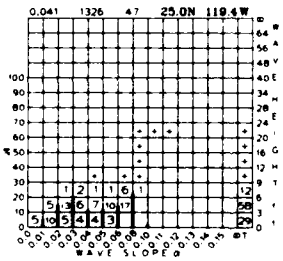


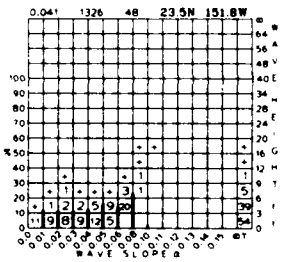


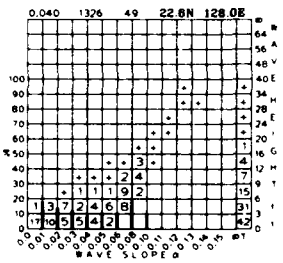


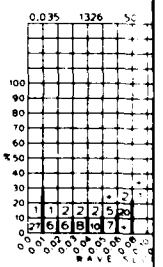


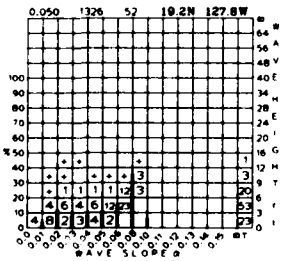


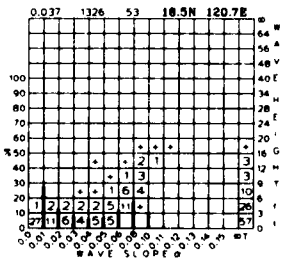


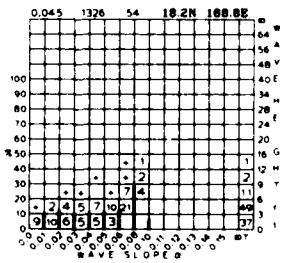


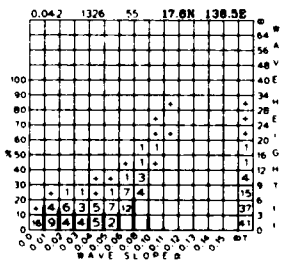


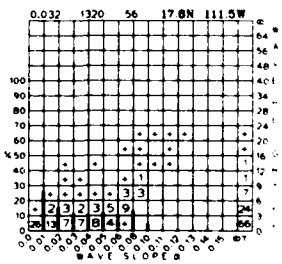


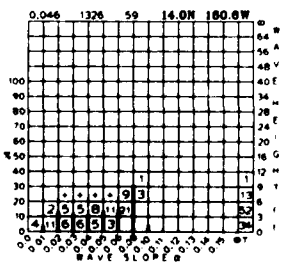


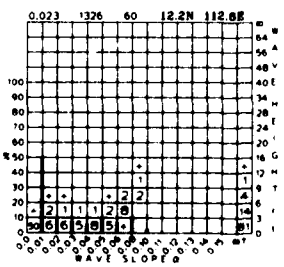


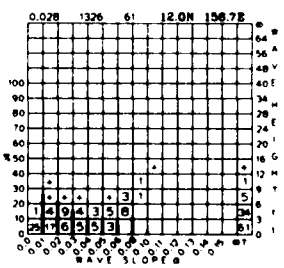


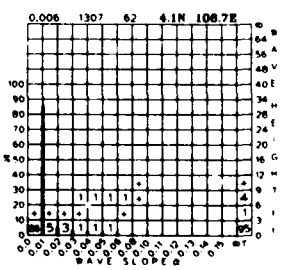


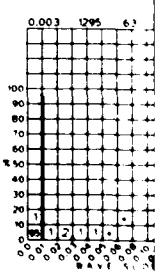






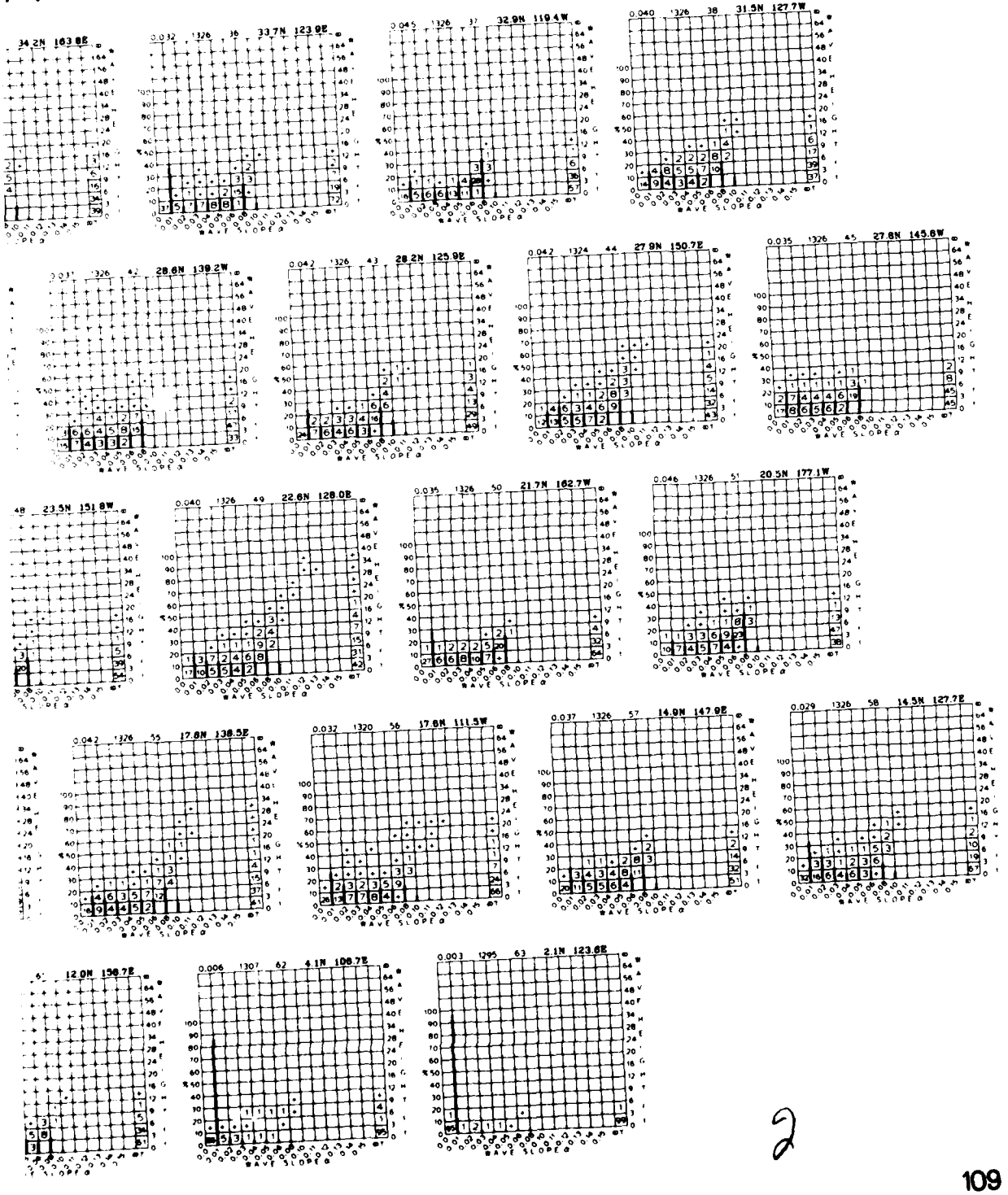






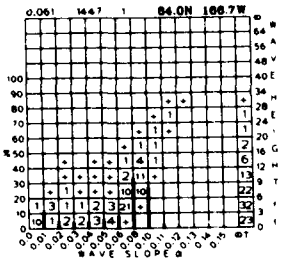
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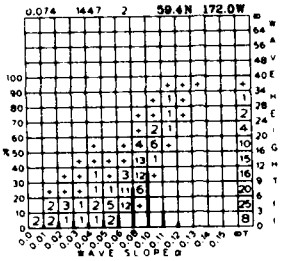
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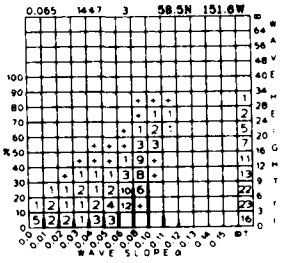


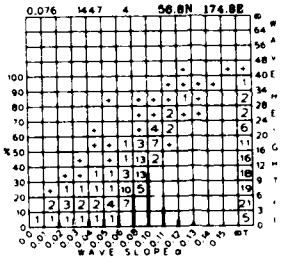
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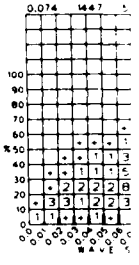
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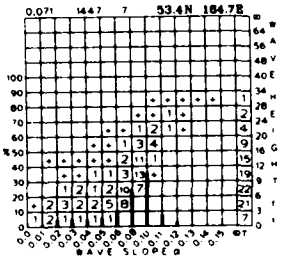


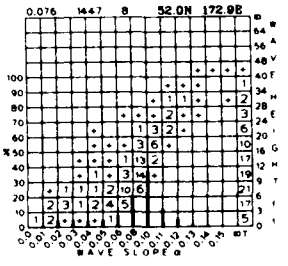


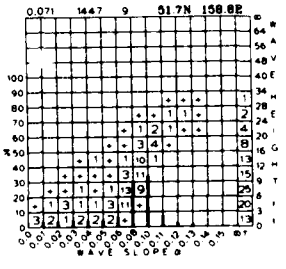


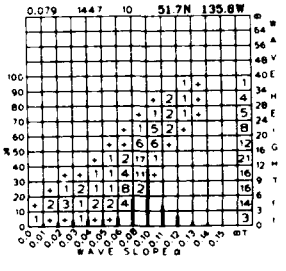


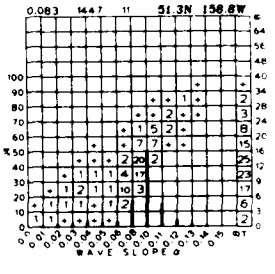


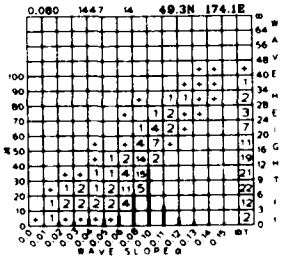


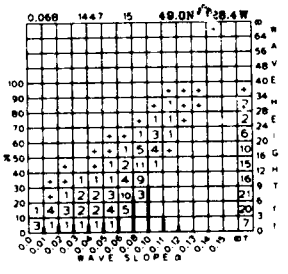


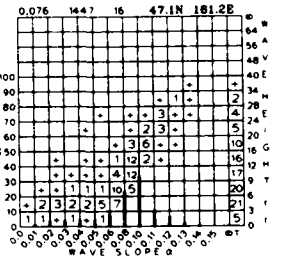


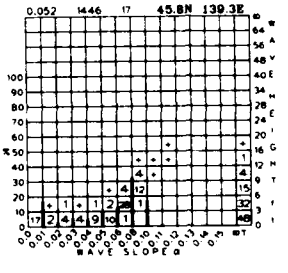


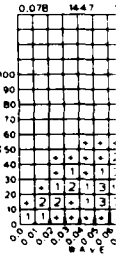


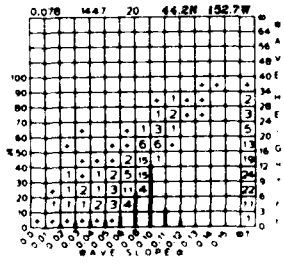


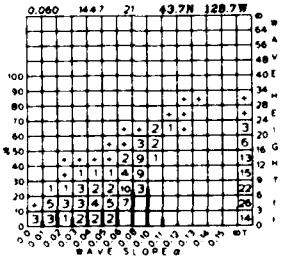


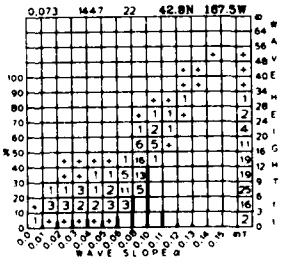


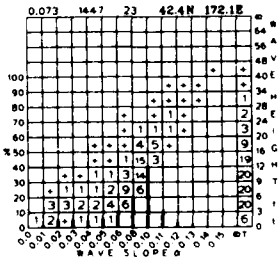


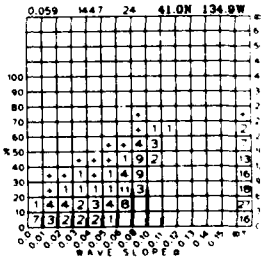


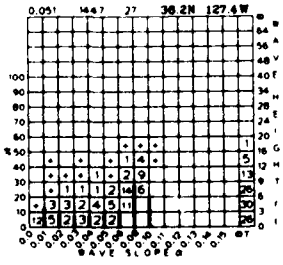


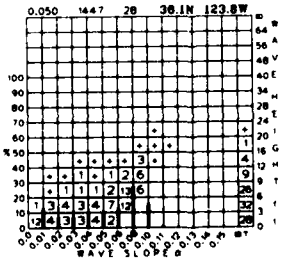


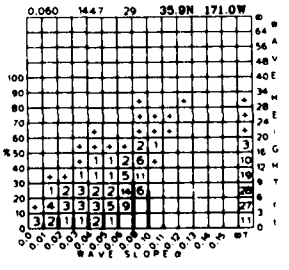


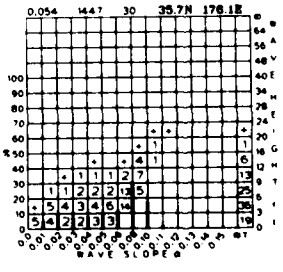


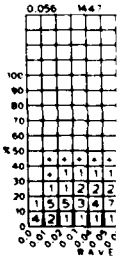






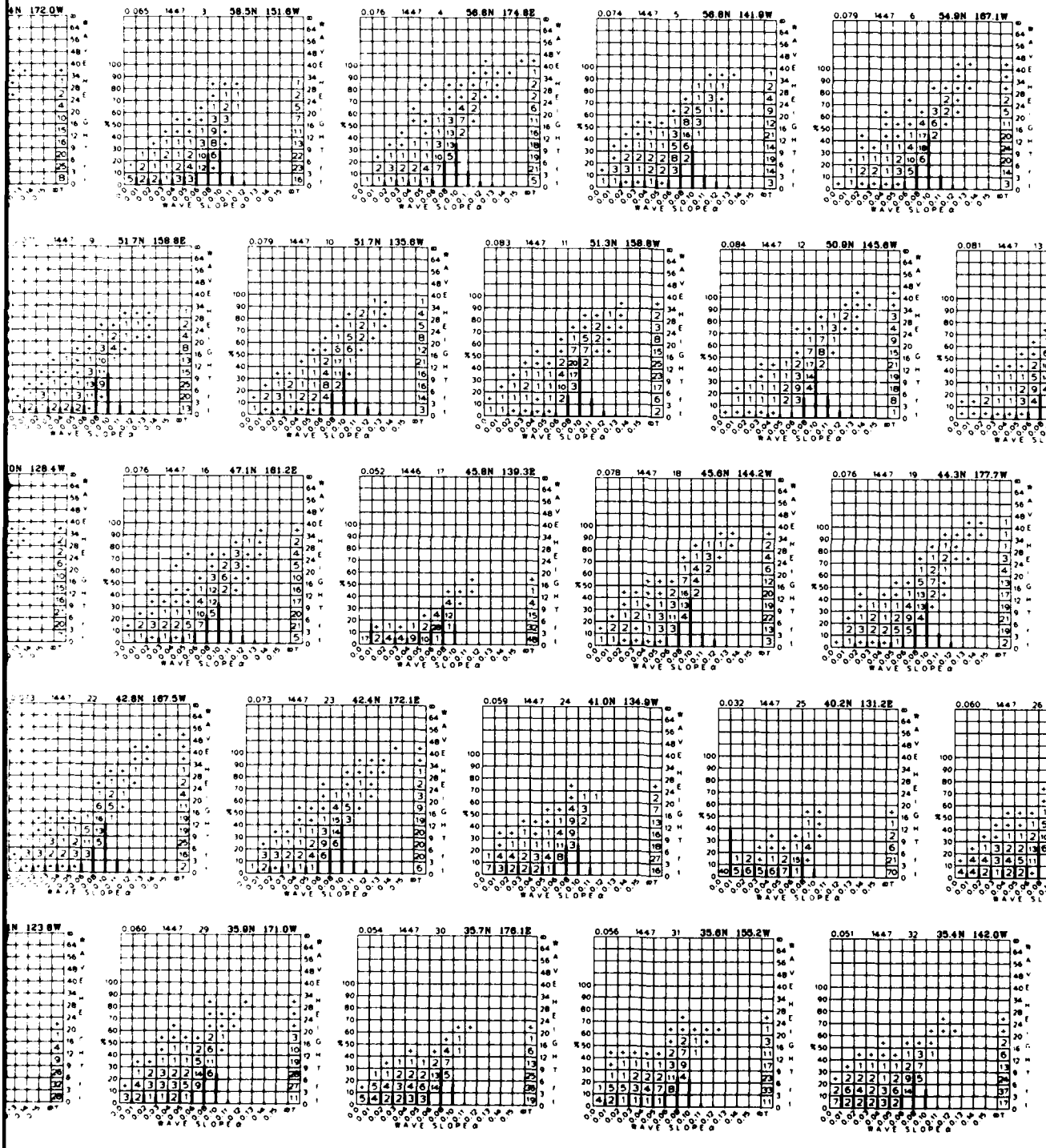




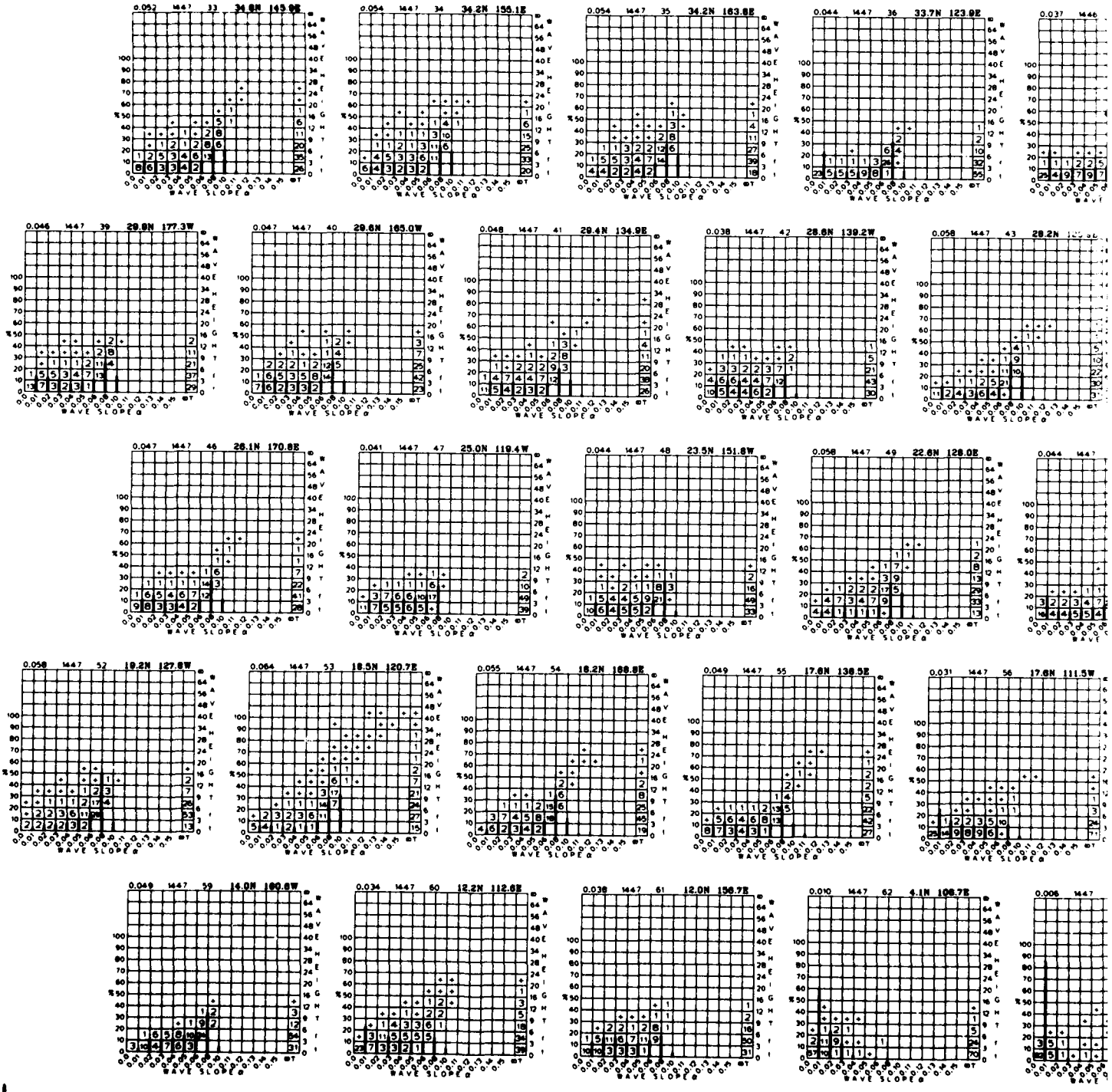


3

WAVE HEIGHT AND WAVE SLOPE (α)

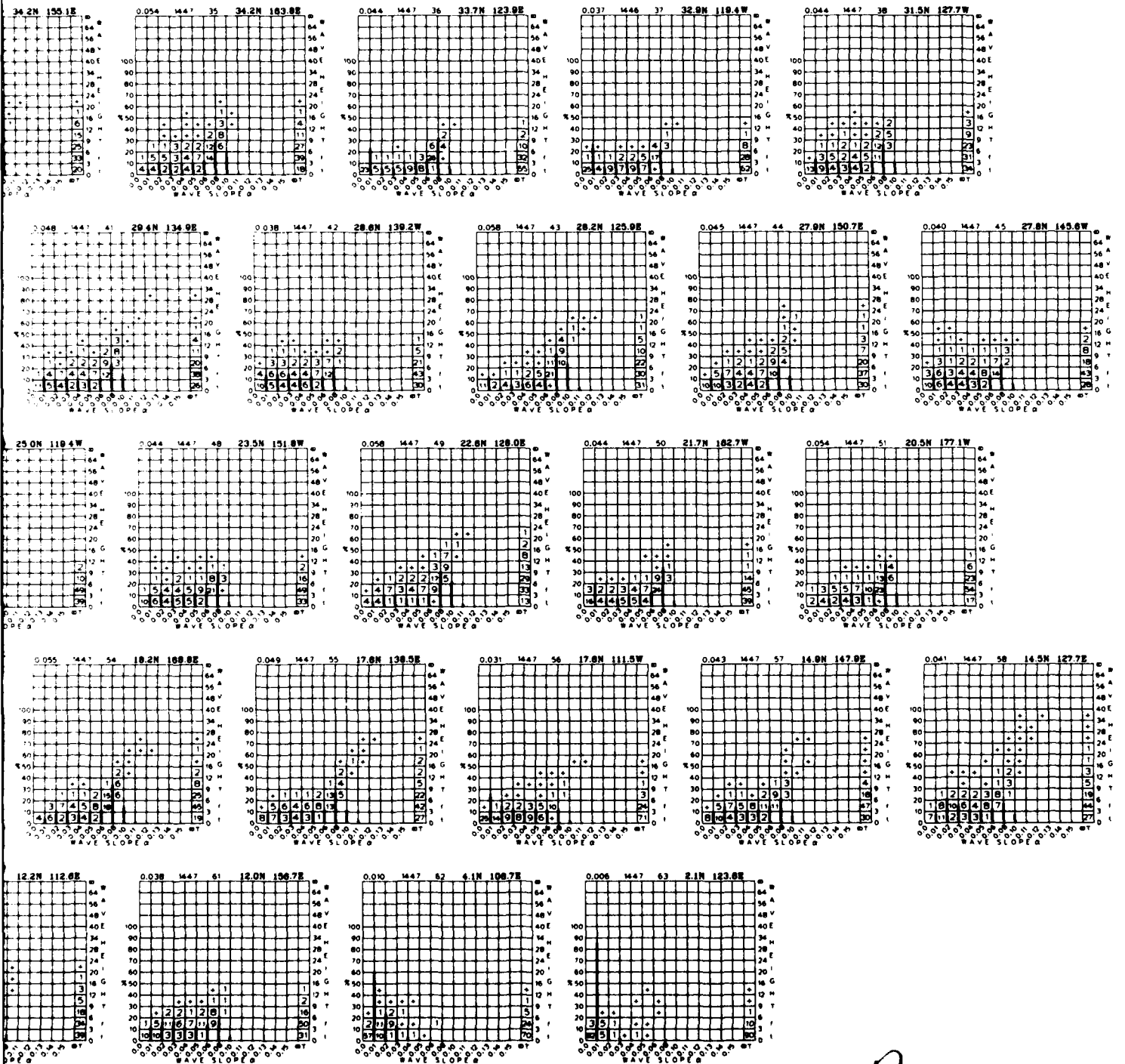


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)



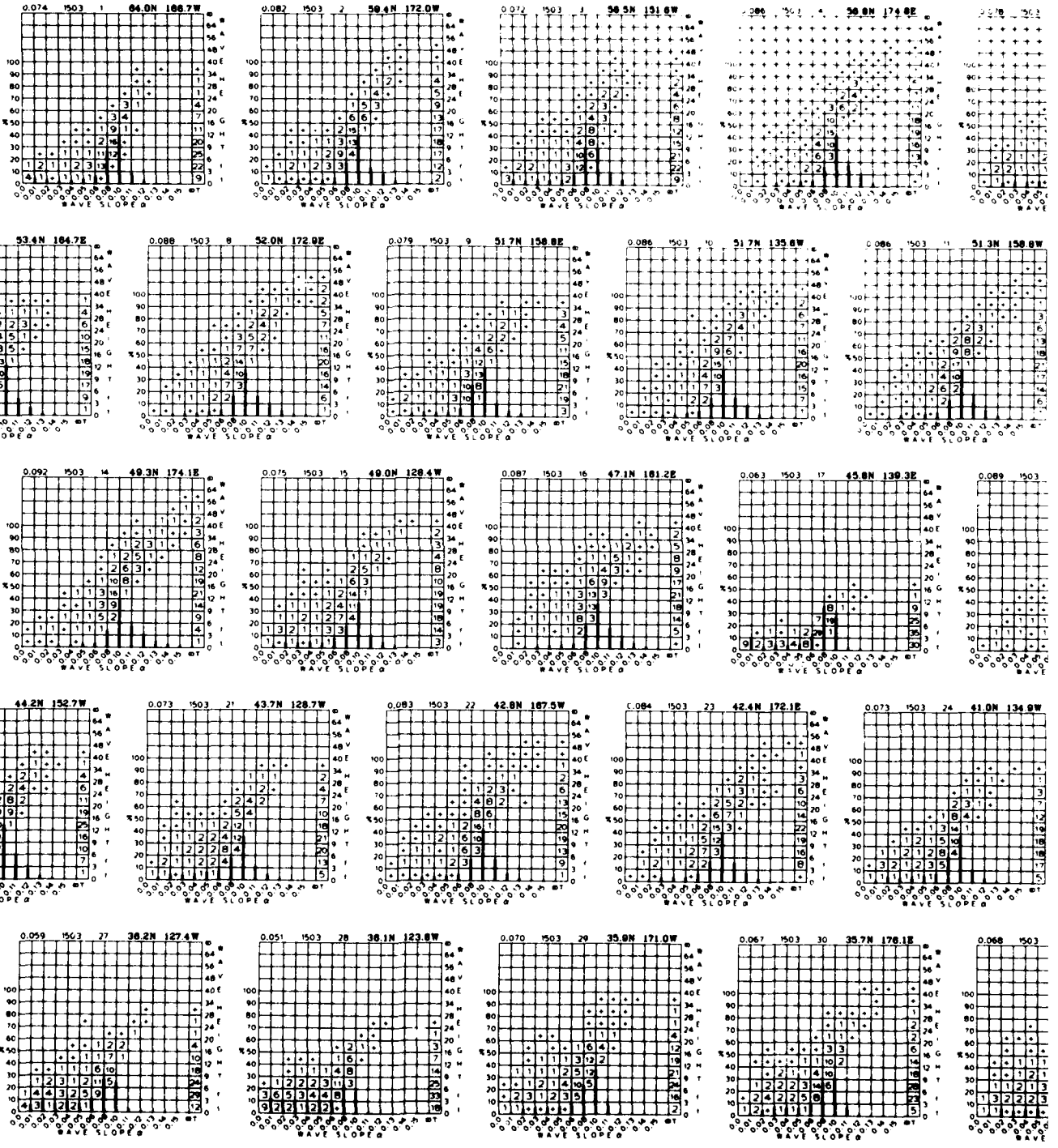
VE SLOPE (α) (Cont'd)

OCTOBER

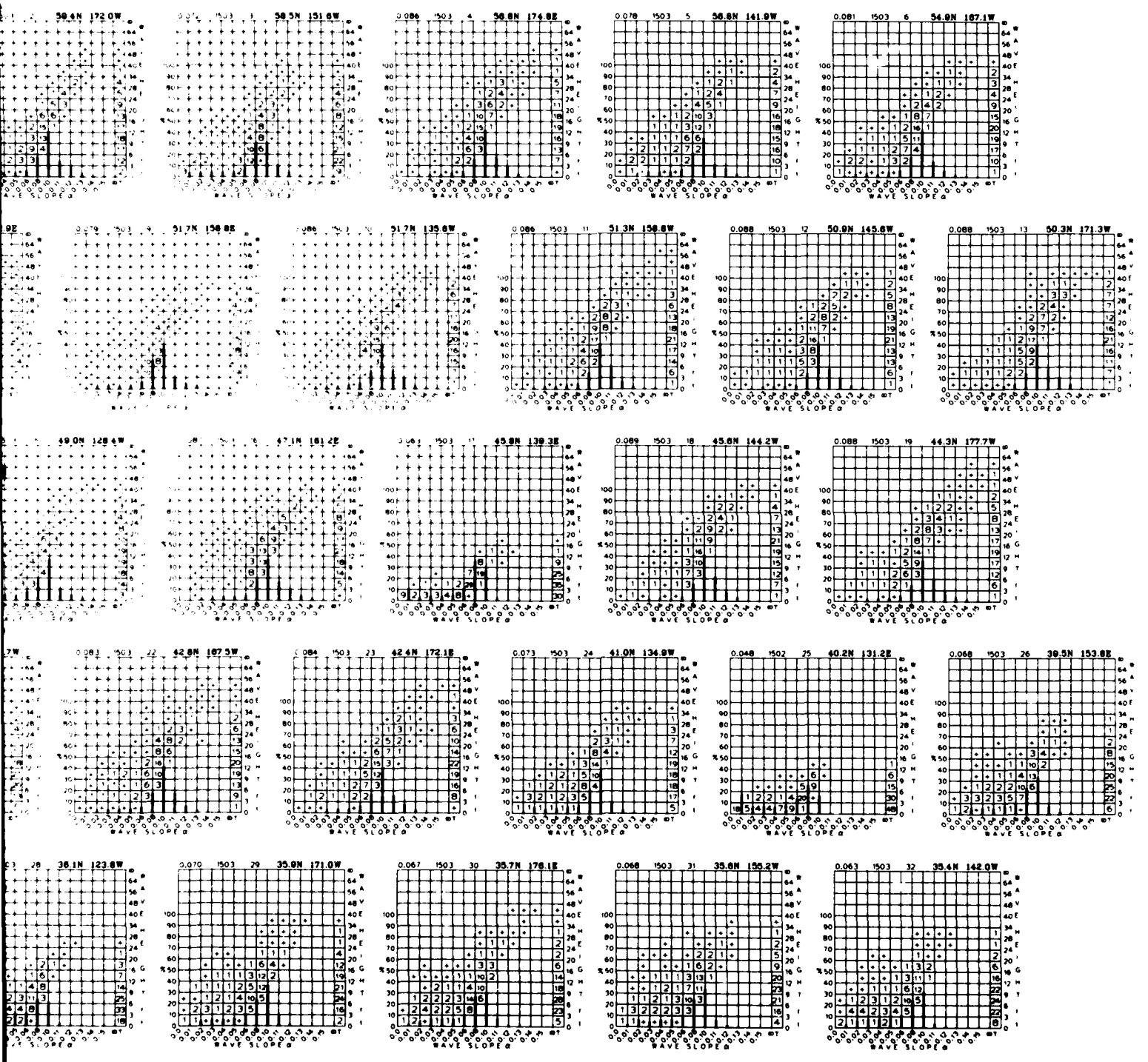


NOVEMBER

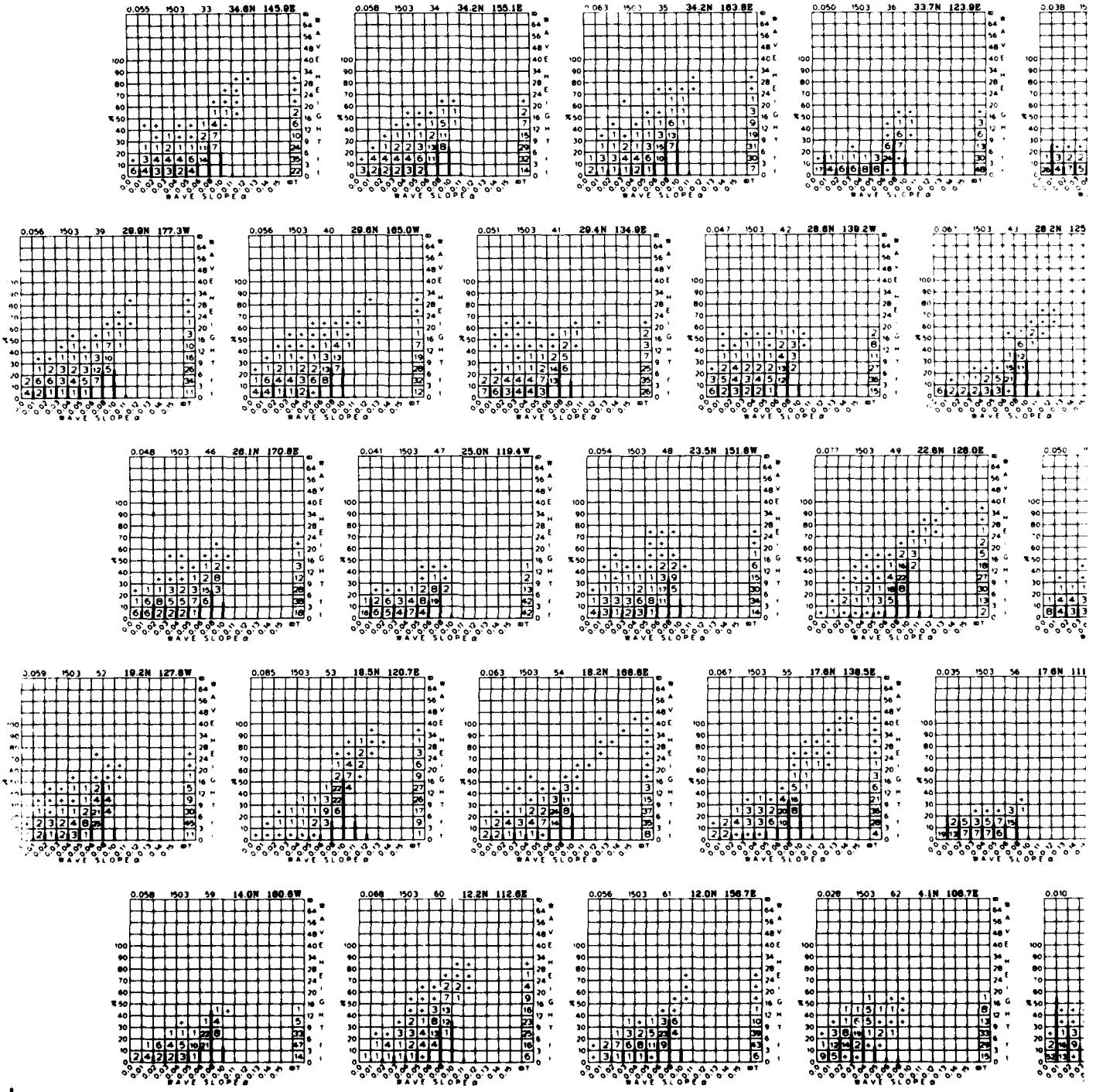
WAVE HEI



WAVE HEIGHT AND WAVE SLOPE (α)

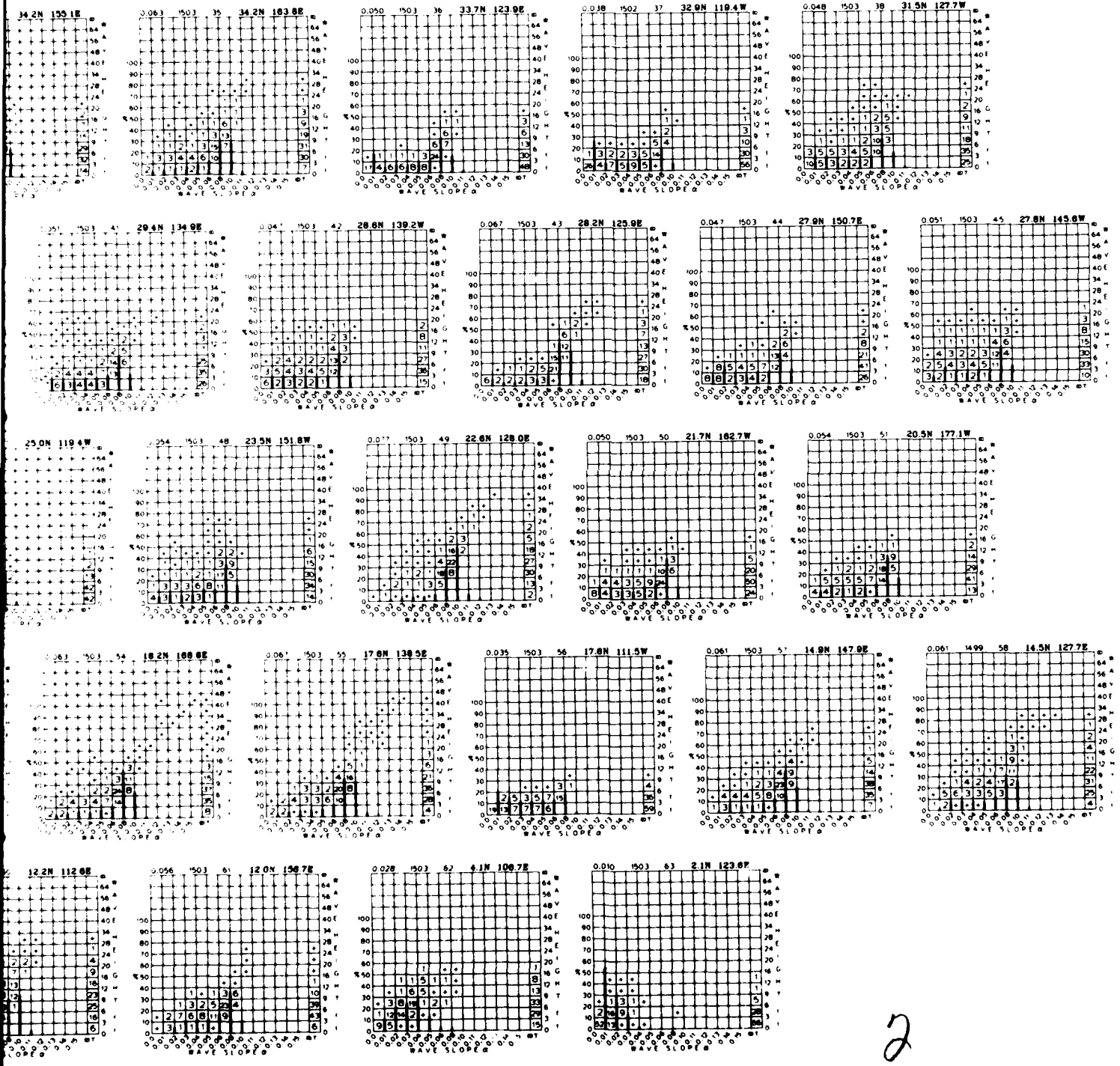


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)



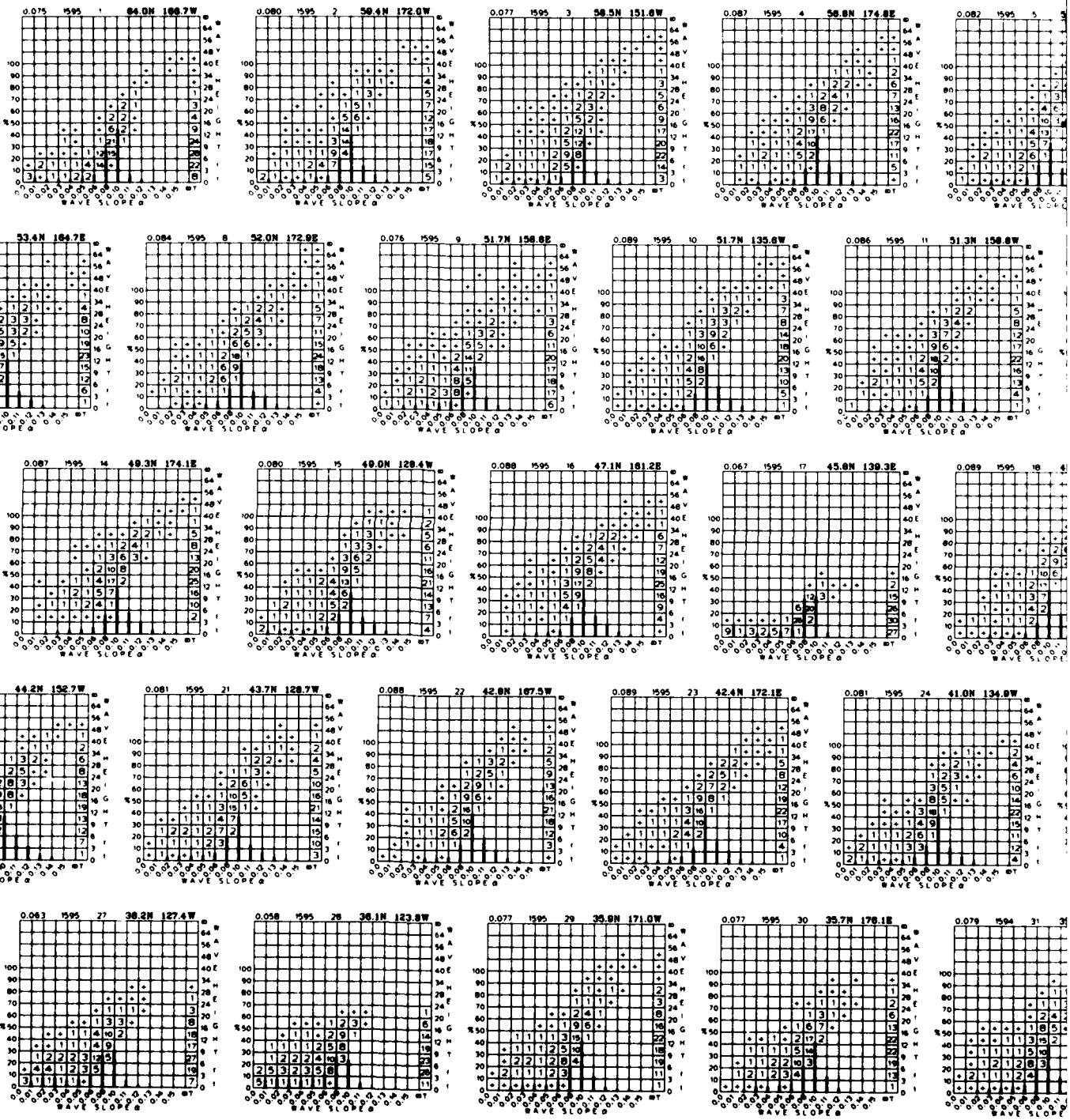
VE SLOPE (α) (Cont'd)

NOVEMBER

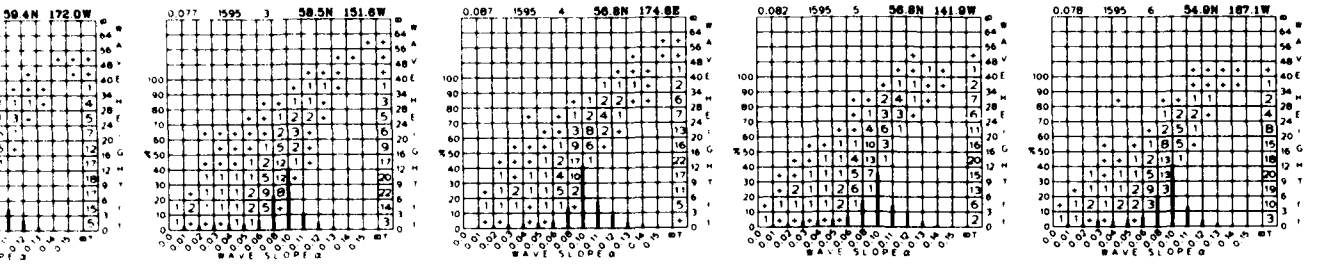


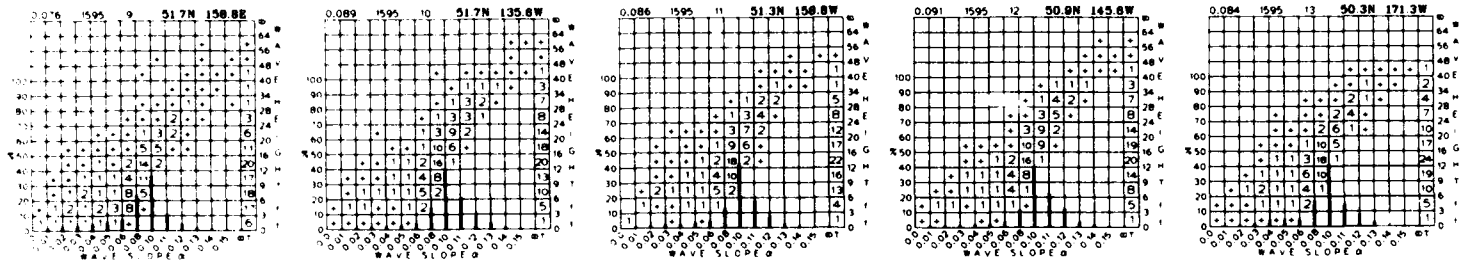
DECEMBER

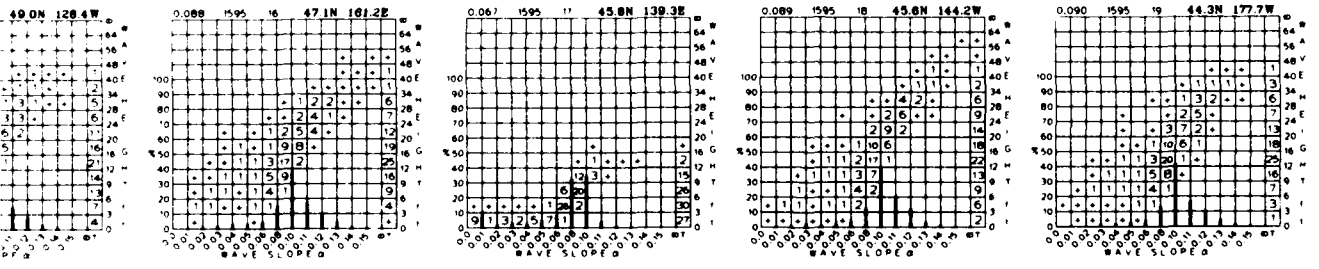
WAVE HEIGH

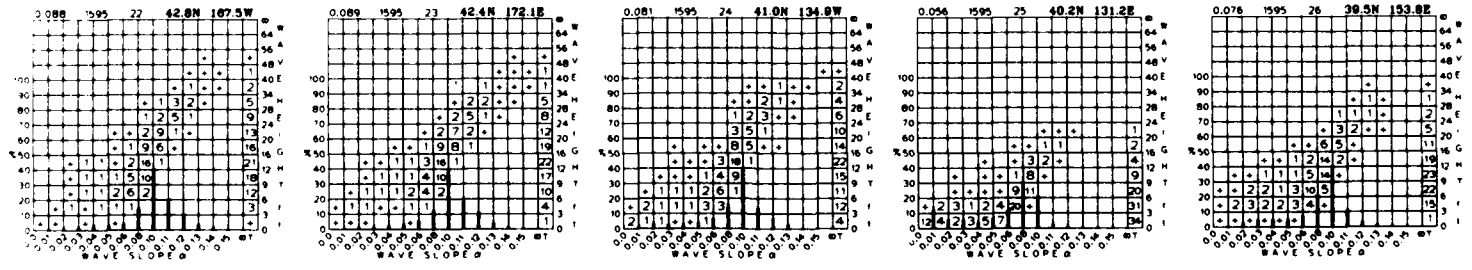


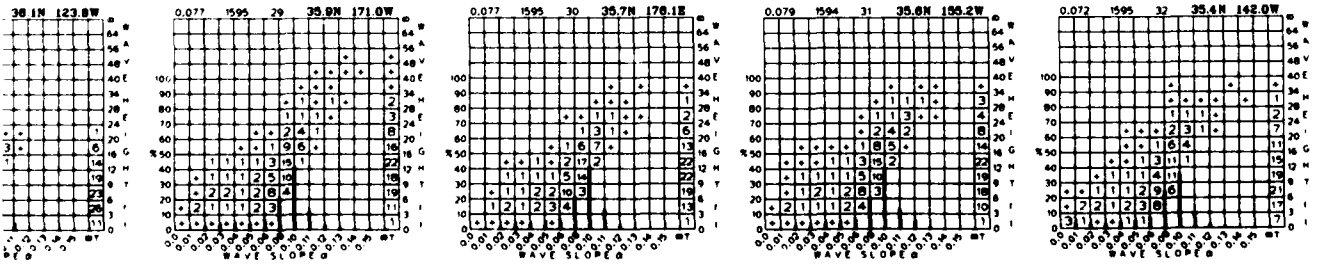
WAVE HEIGHT AND WAVE SLOPE (α)



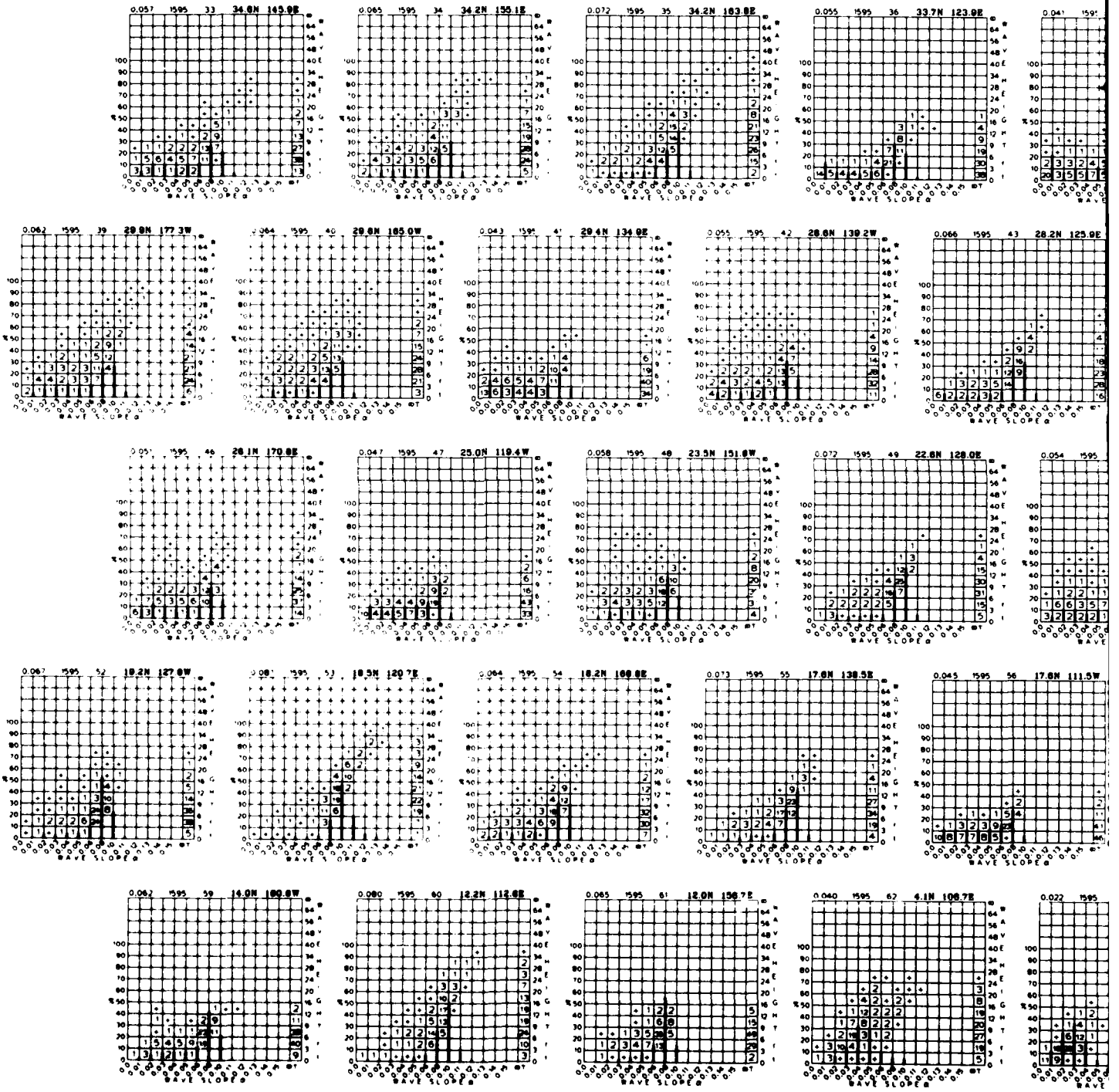






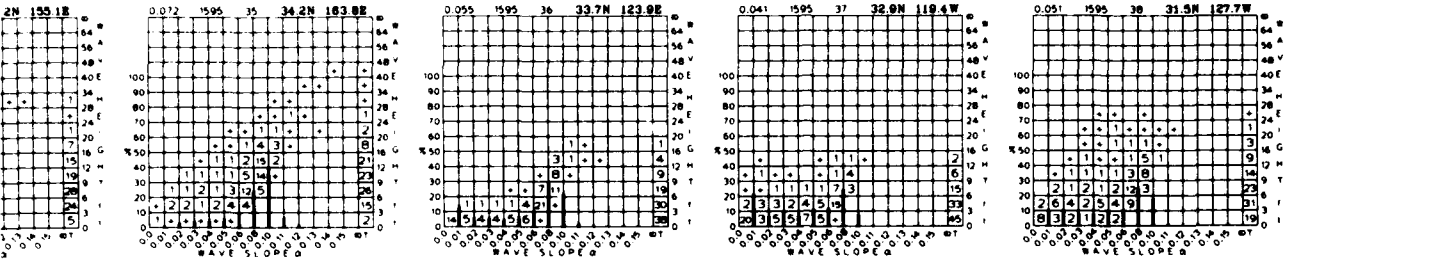


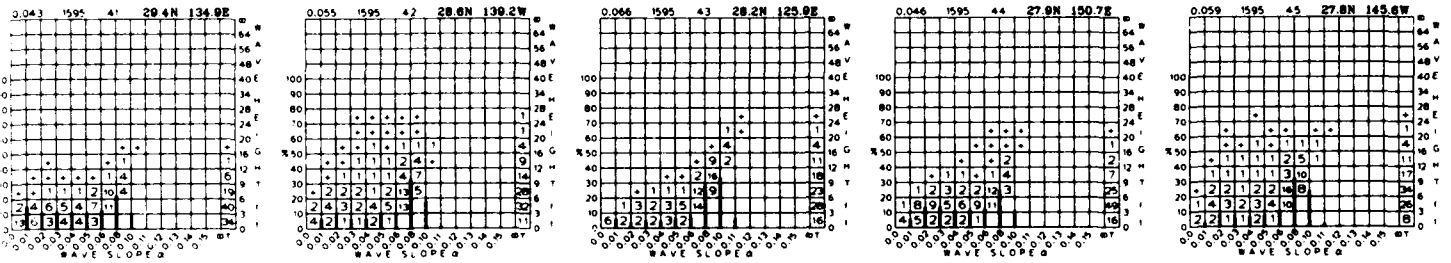
WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

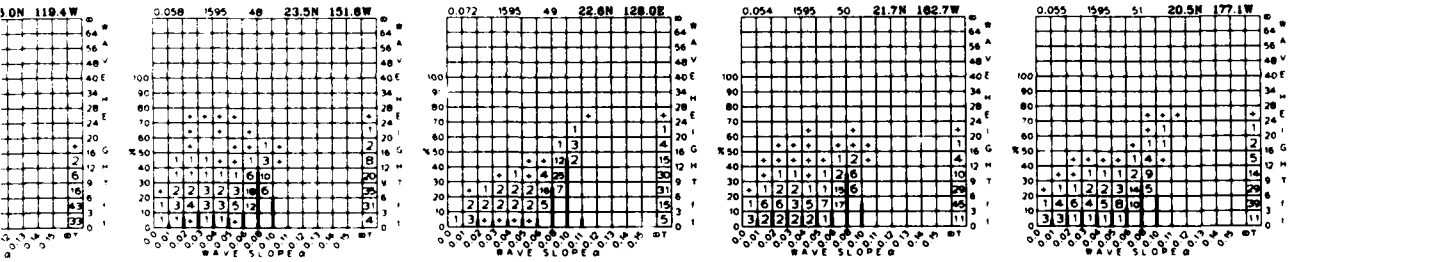


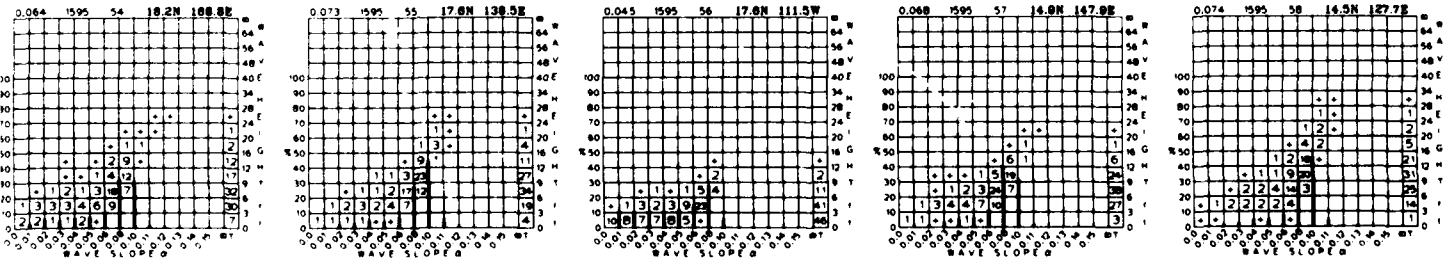
'E SLOPE (α) (Cont'd)

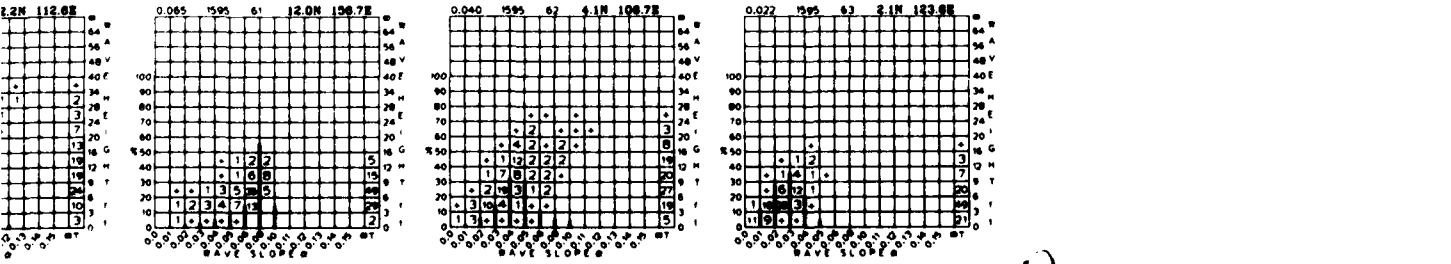
DECEMBER



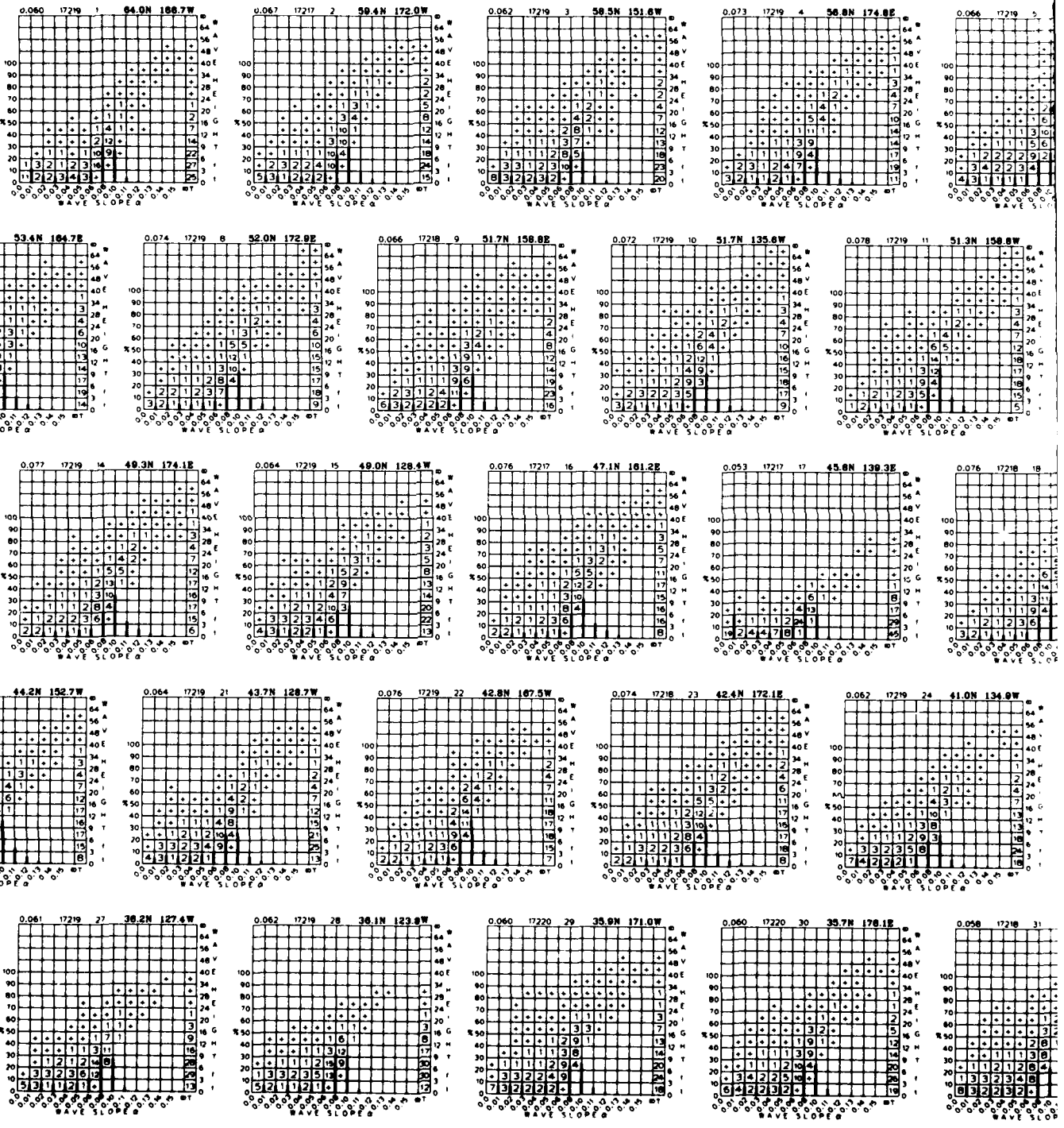






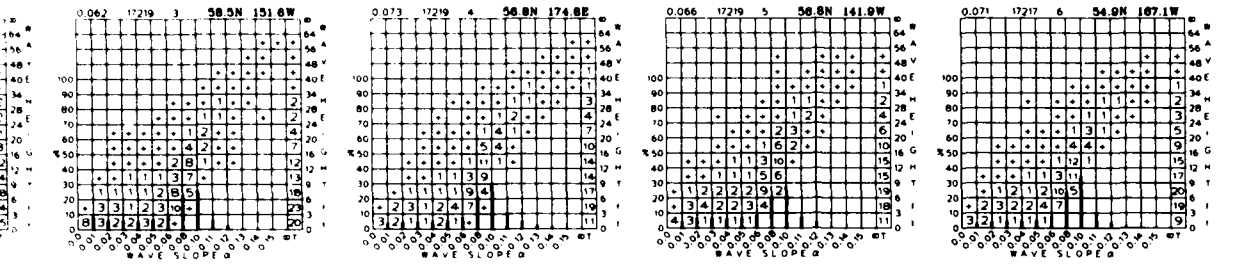


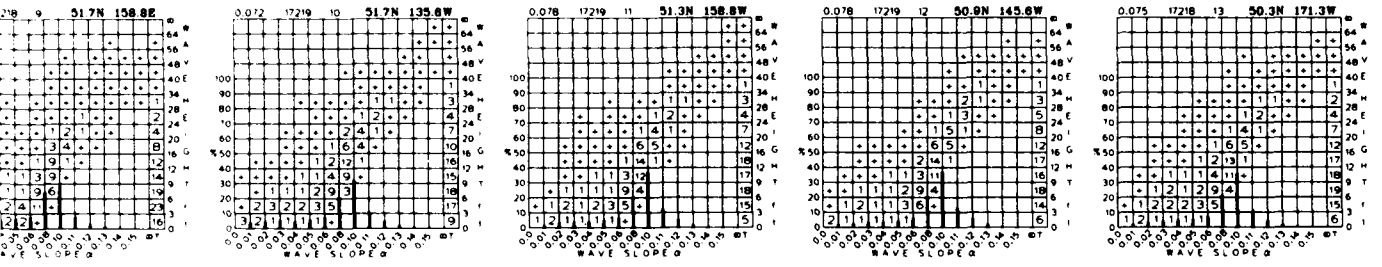
ANNUAL WAVE HEIGH

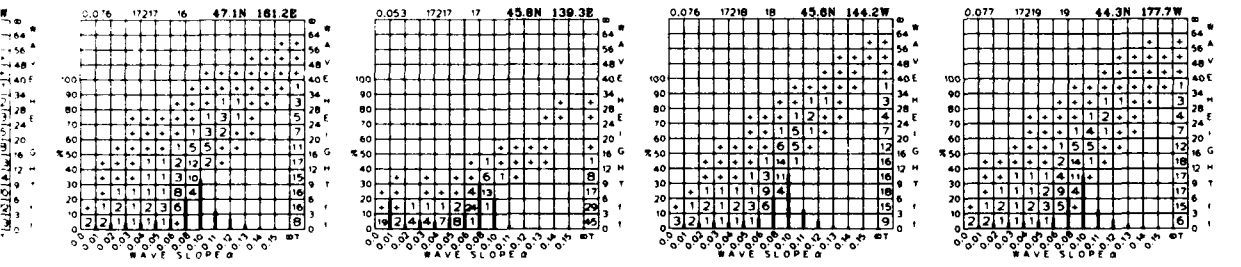


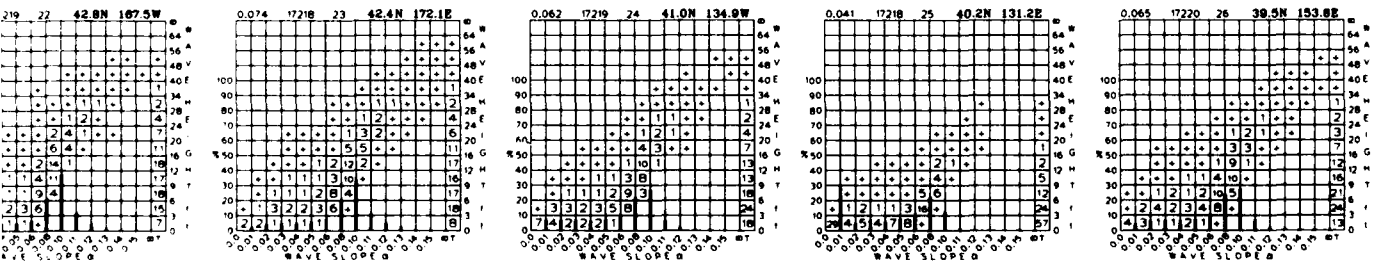
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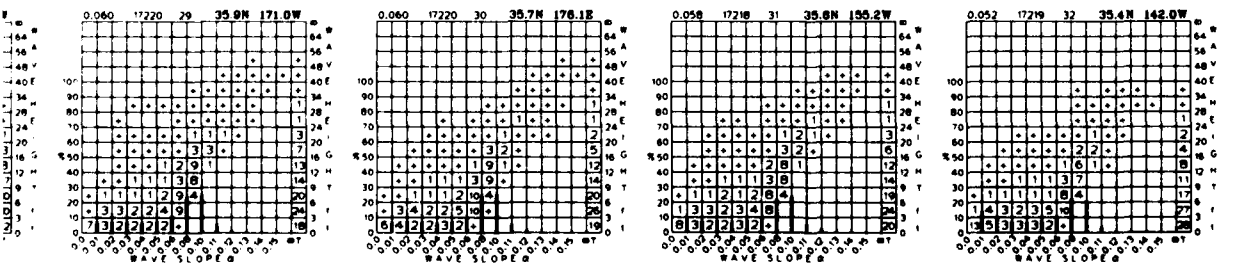
WAVE HEIGHT AND WAVE SLOPE (α)



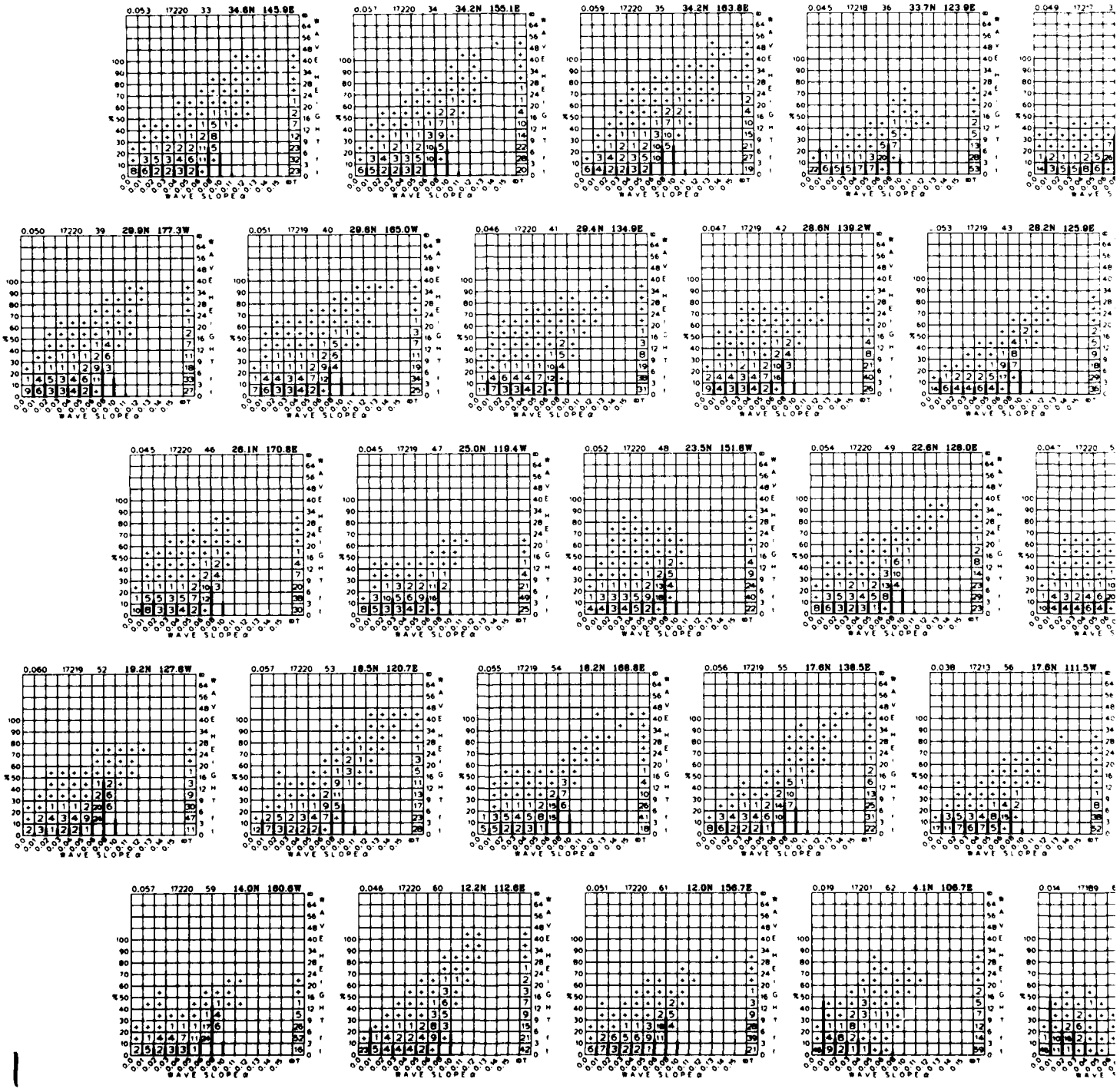






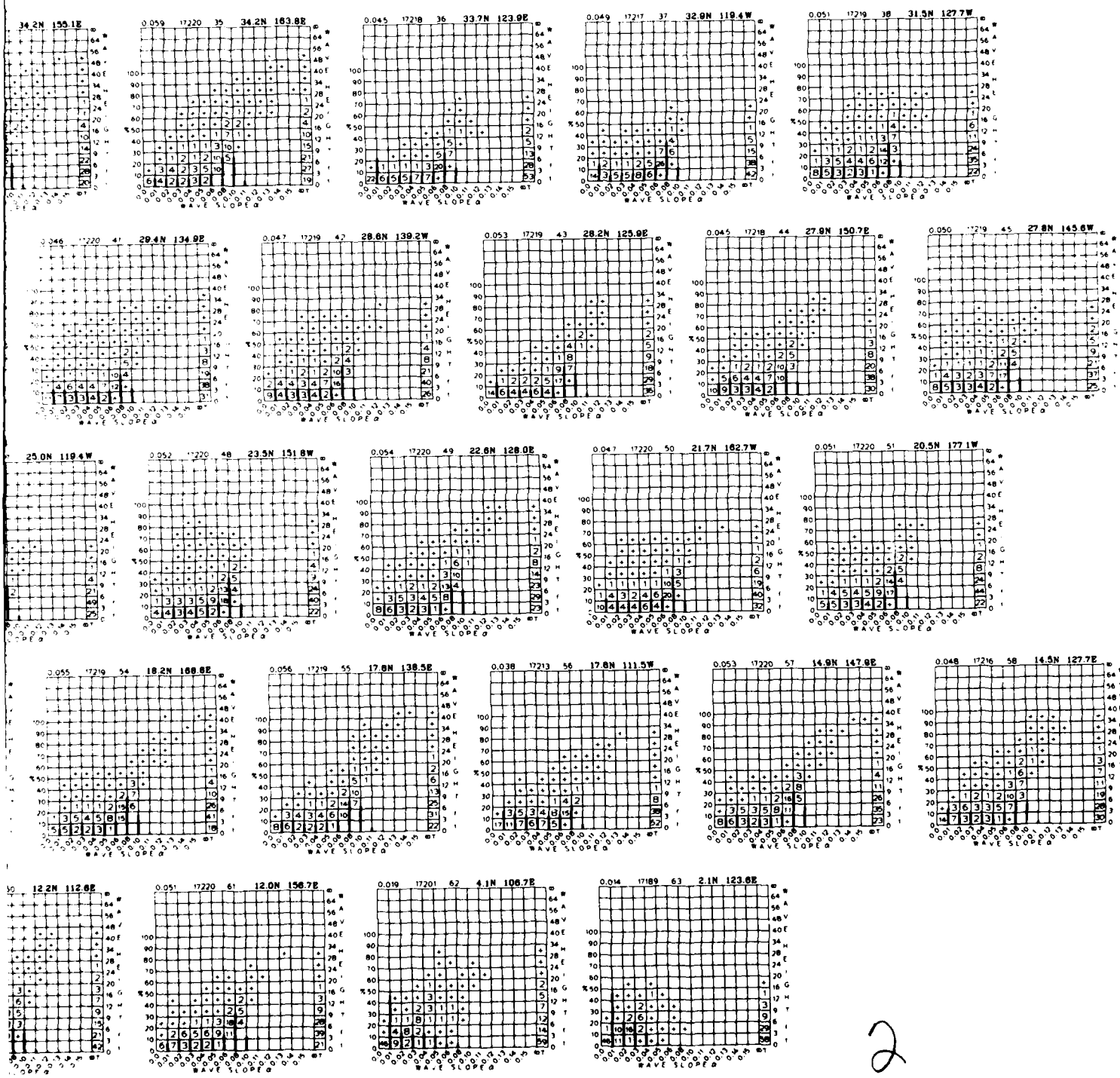


WAVE HEIGHT AND WAVE SLOPE (α) (Cont'd)

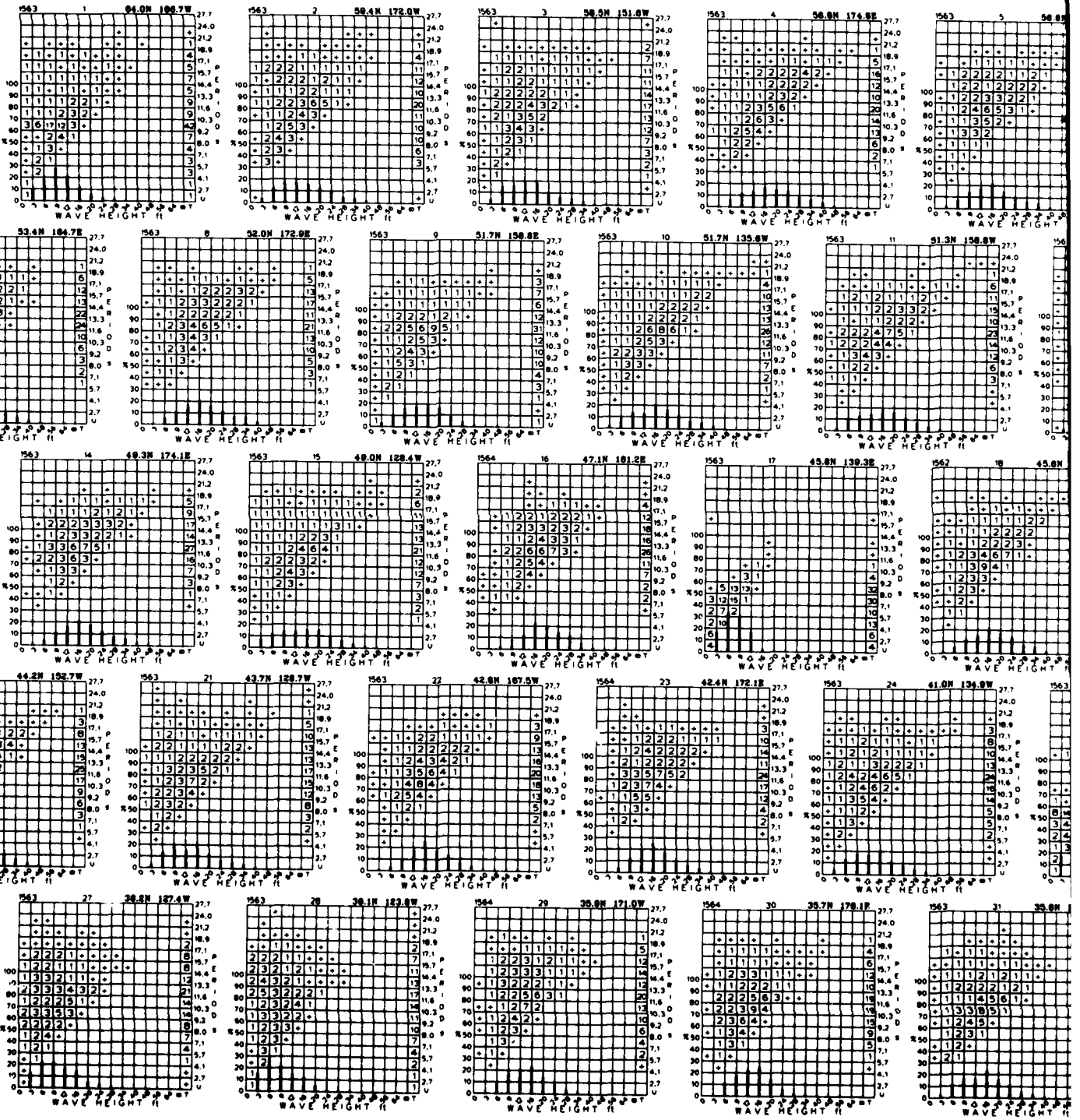


VE SLOPE (α) (Cont'd)

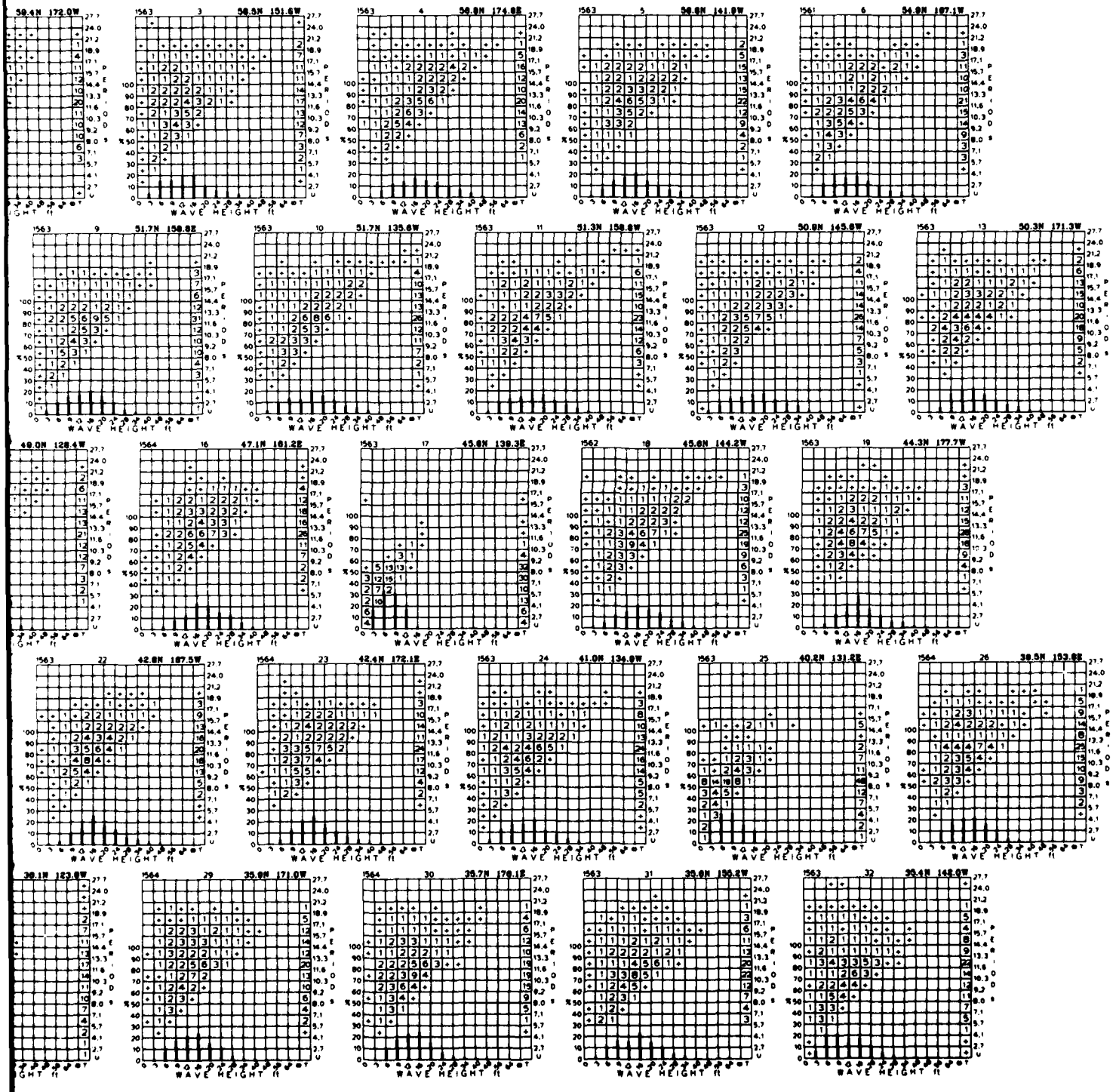
ANNUAL



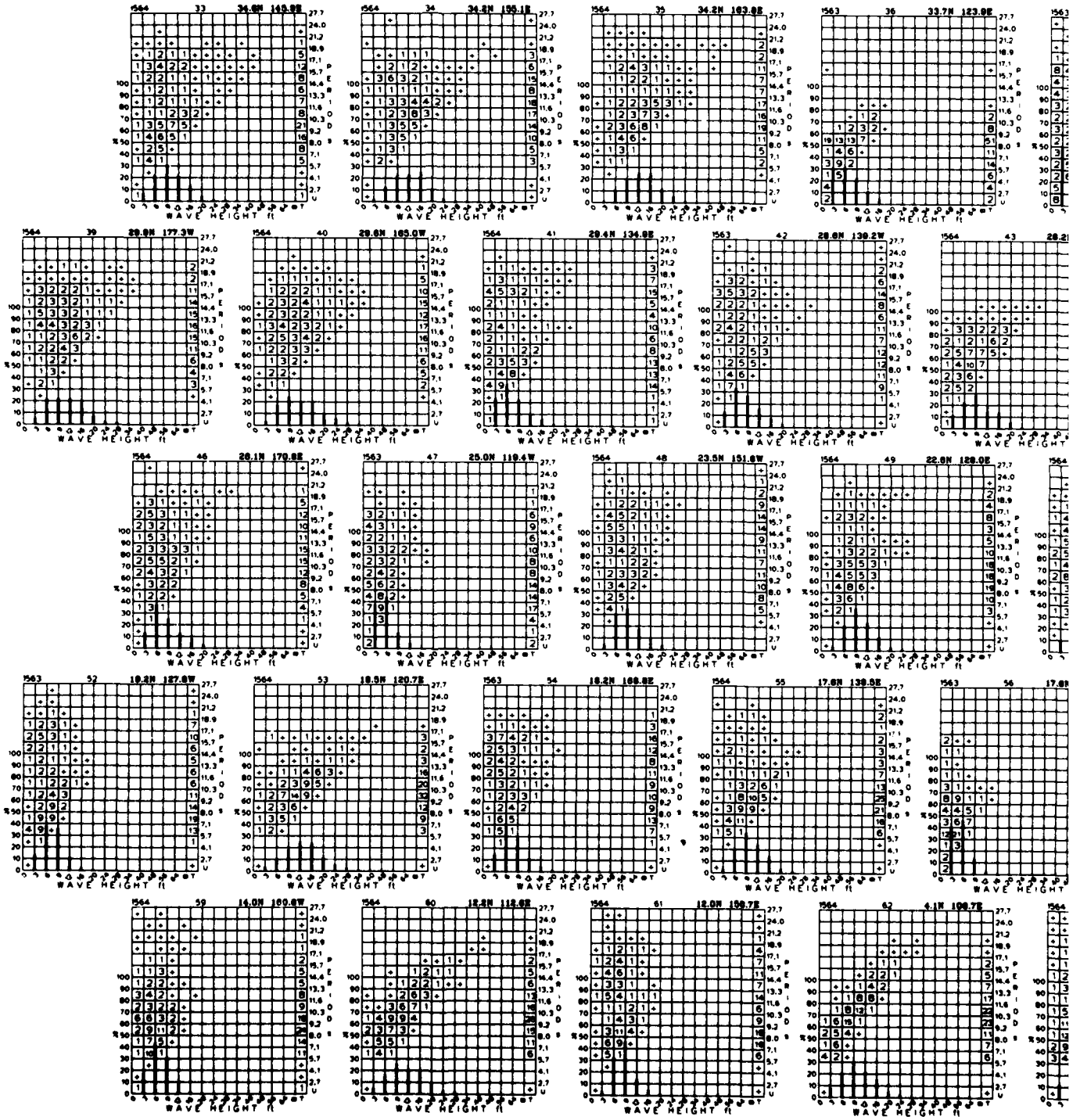
JANUARY

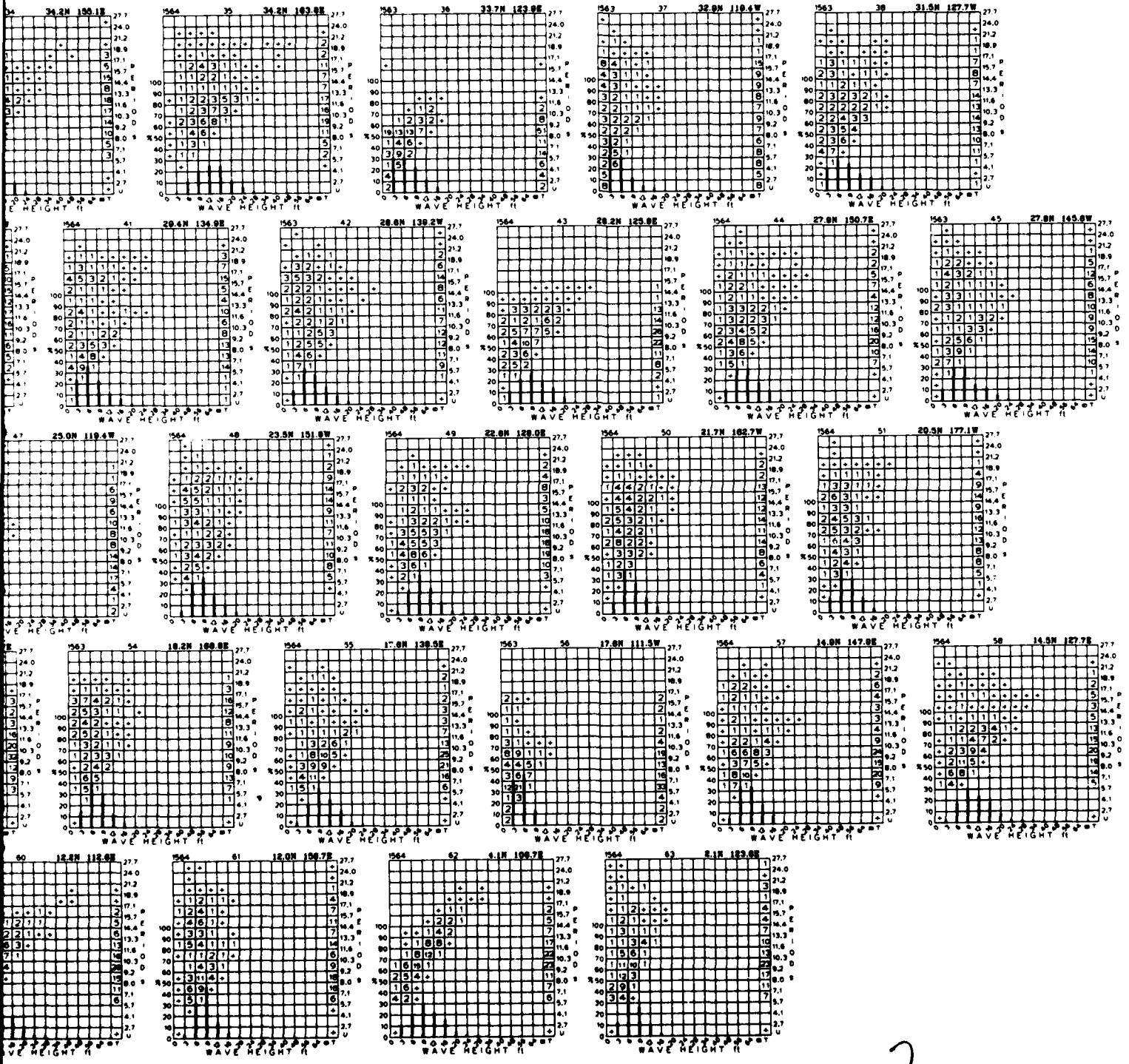

1563 1 64.0N 166.7W
1563 2 59.4N 172.0W
1563 3 56.5N 151.6W
1563 4 56.6N 174.6E
1563 5
1563 7 53.4N 164.7E
1563 8 52.0N 172.9E
1563 9 51.7N 158.8E
1563 10 51.7N 135.6W
1563 11 51.3N 156.6W
1563 14 49.3N 174.1E
1563 15 49.0N 128.6W
1564 16 47.1N 161.2E
1563 17 45.8N 139.3E
1562 18 45.6N
1562 20 44.2N 152.7W
1563 21 43.7N 128.7W
1563 22 42.6N 167.5W
1564 23 42.4N 172.1E
1563 24 41.0N 136.9W
1563 27 38.6N 167.4W
1563 28 38.1N 123.8W
1564 29 35.8N 171.0W
1564 30 35.7N 178.1E
1563 31 35.6N
WAVE HEIGHT ft

WAVE HEIGHT AND PERIOD

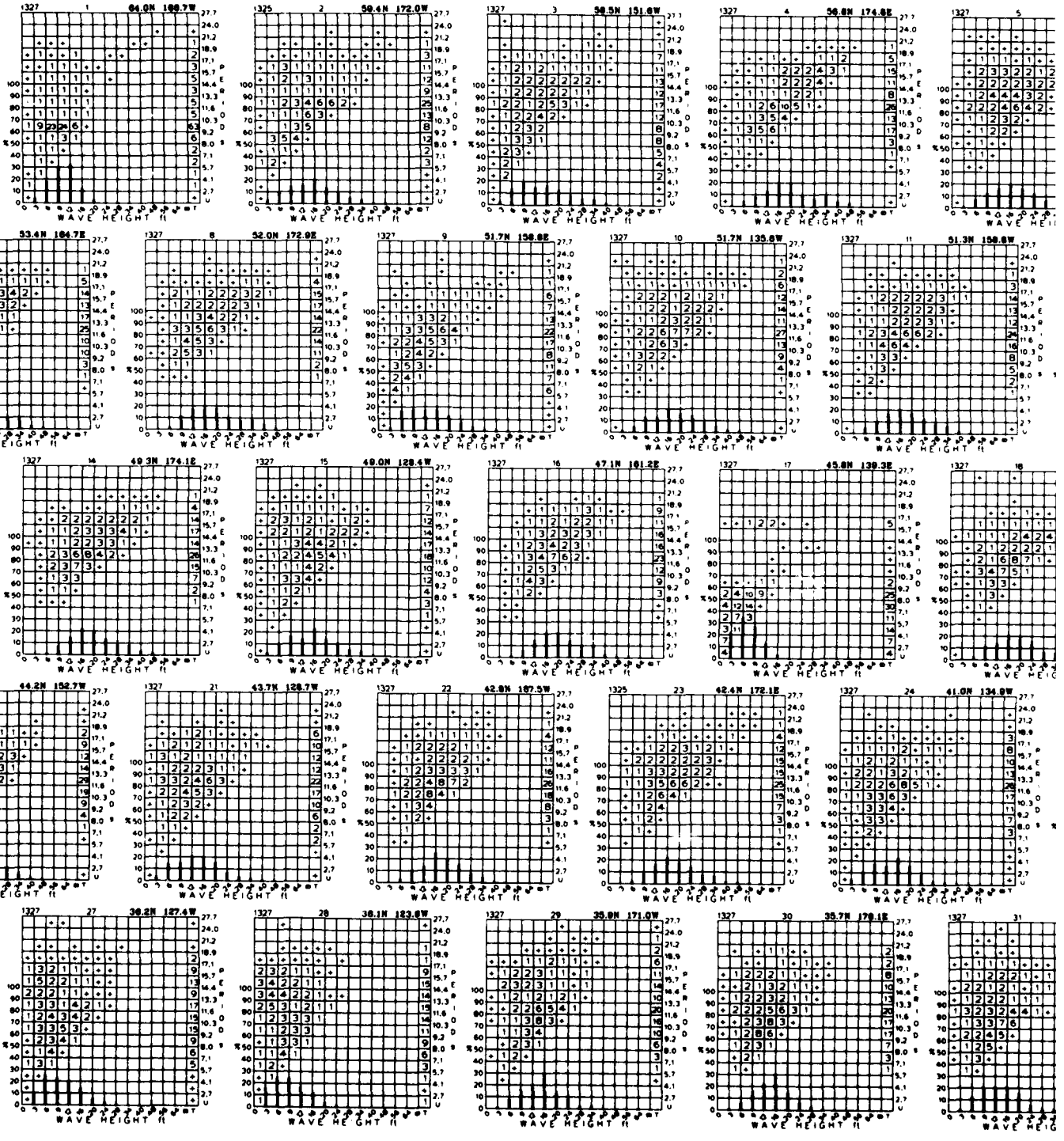


WAVE HEIGHT AND PERIOD (Cont'd)

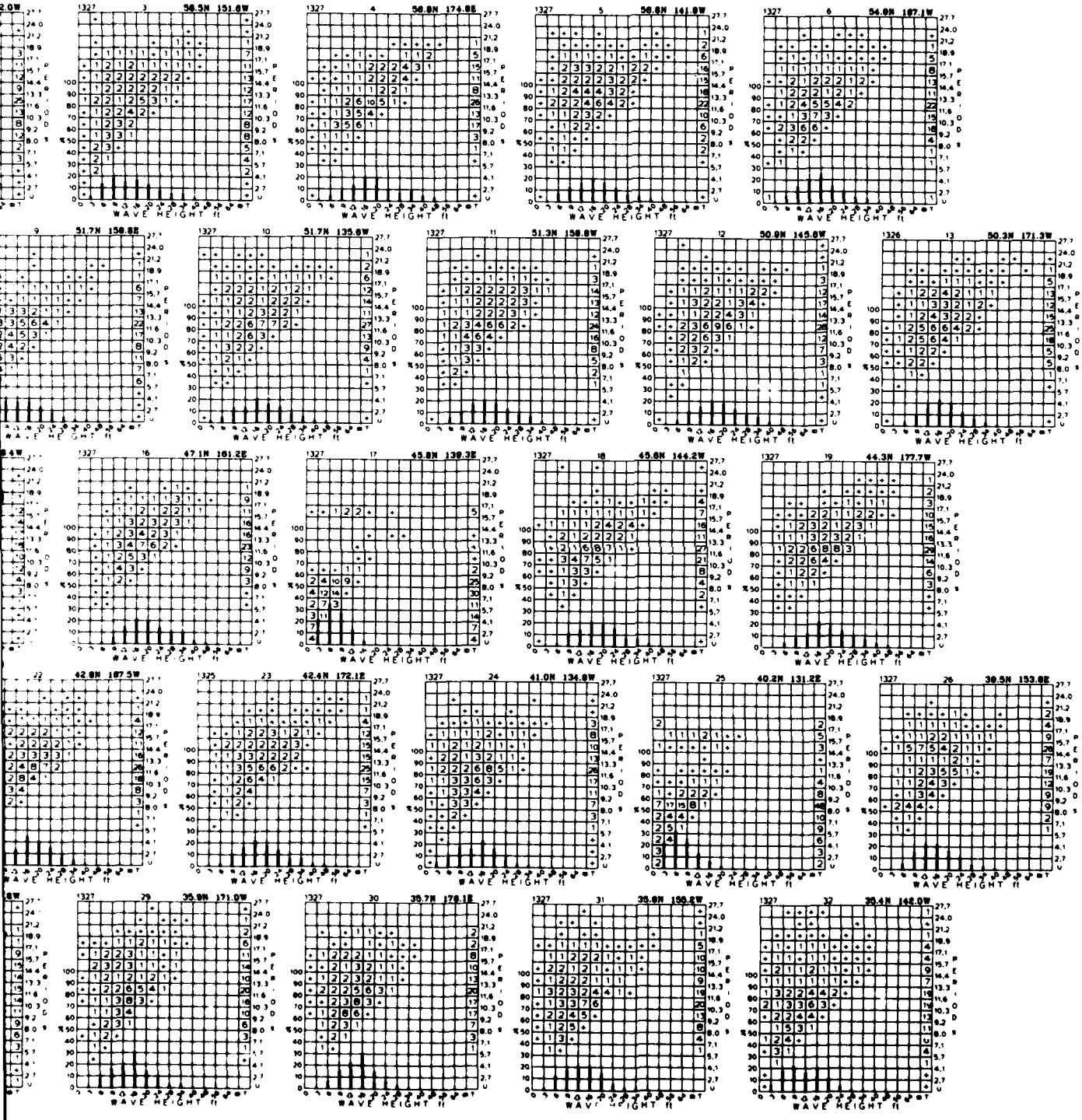




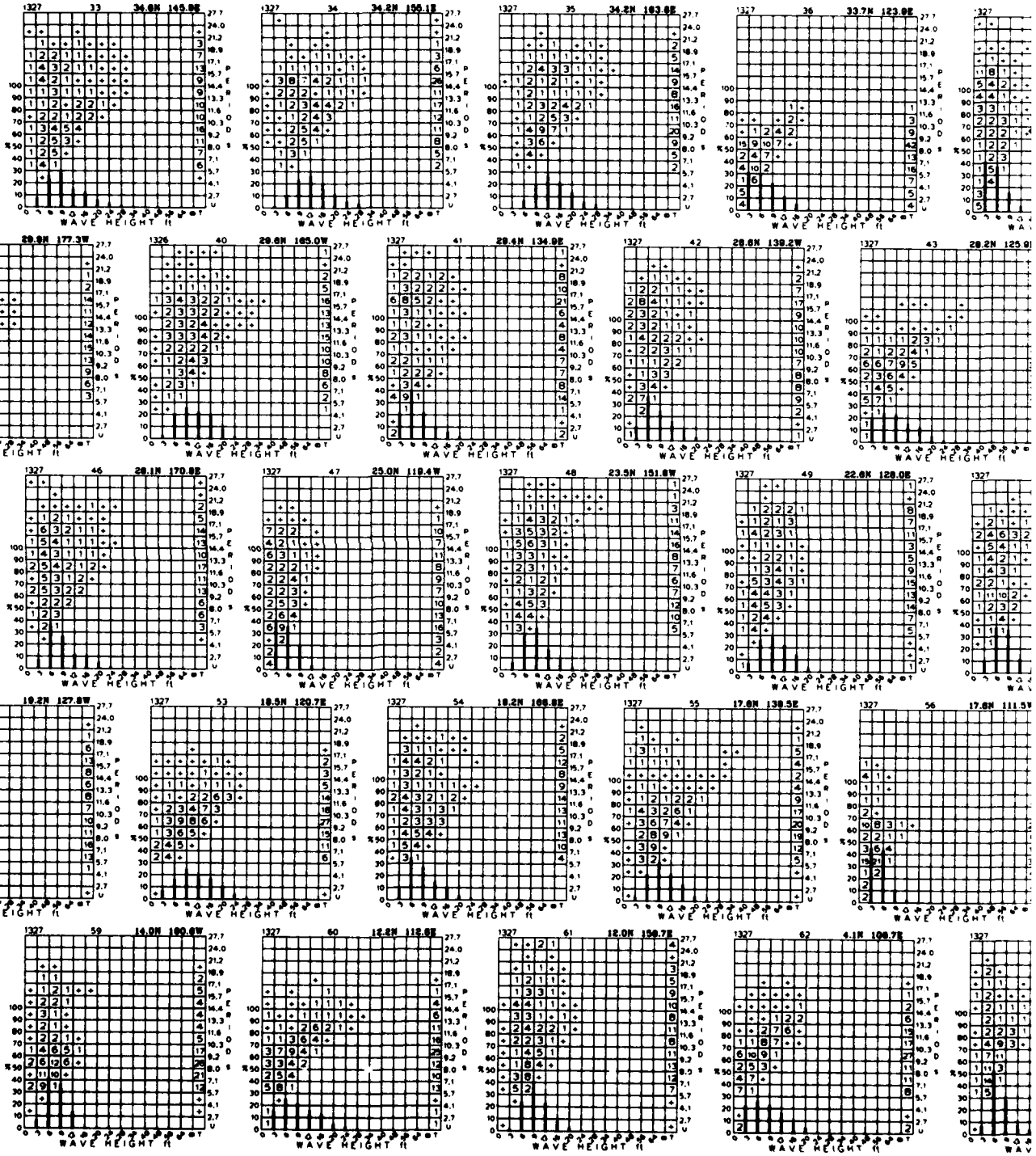
FEBRUARY


1327 1 64.0N 169.7W
1325 2 59.4N 172.0W
1327 3 56.5N 151.6W
1327 4 56.8N 174.6E
1327 5
1327 7 53.4N 164.7E
1327 8 52.0N 172.9E
1327 9 51.7N 158.8E
1327 10 51.7N 135.6W
1327 11 51.3N 150.6W
1327 14 49.3N 176.1E
1327 15 49.0N 128.4W
1327 16 47.1N 161.2E
1327 17 45.8N 139.3E
1327 18
1327 20 44.2N 152.7W
1327 21 43.7N 128.7W
1327 22 42.8N 167.5W
1325 23 42.4N 172.1E
1327 24 41.0N 134.8W
1327 27 38.2N 127.4W
1327 28 38.1N 123.6W
1327 29 36.8N 171.0W
1327 30 35.7N 170.1E
1327 31
WAVE HEIGHT ft
PERIOD sec

WAVE HEIGHT AND PERIOD

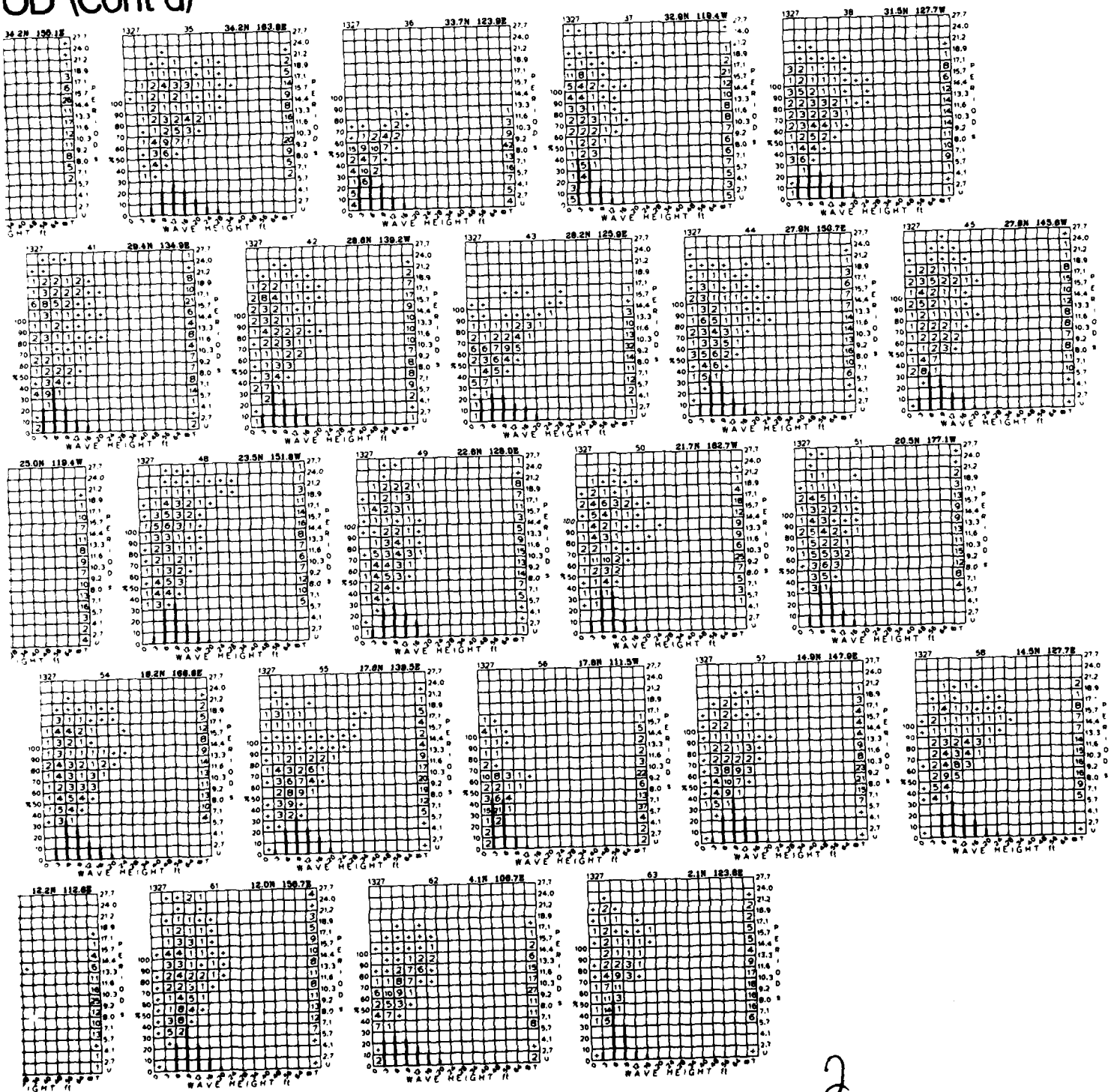


WAVE HEIGHT AND PERIOD (Cont'd)



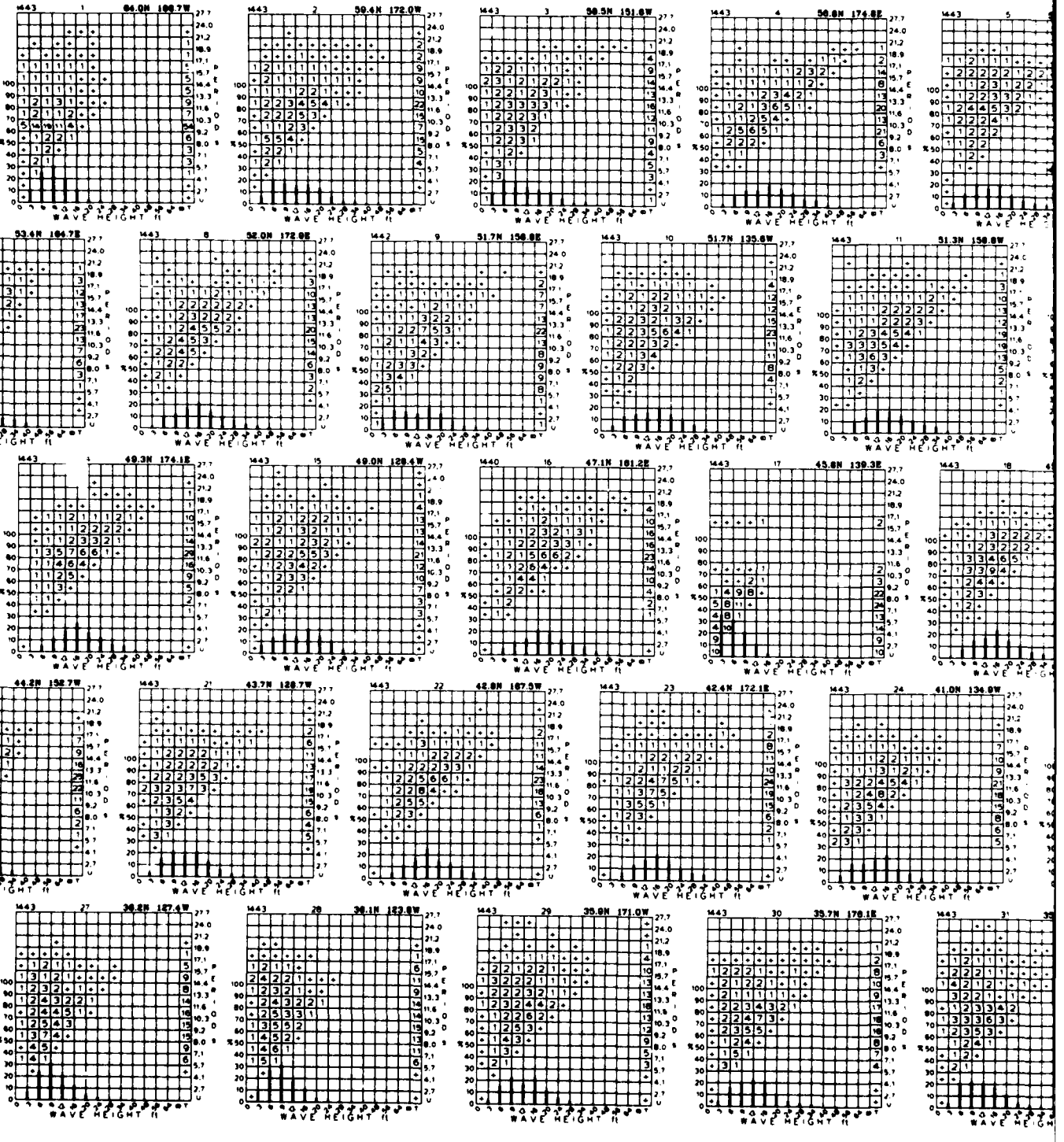
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FEBRUARY

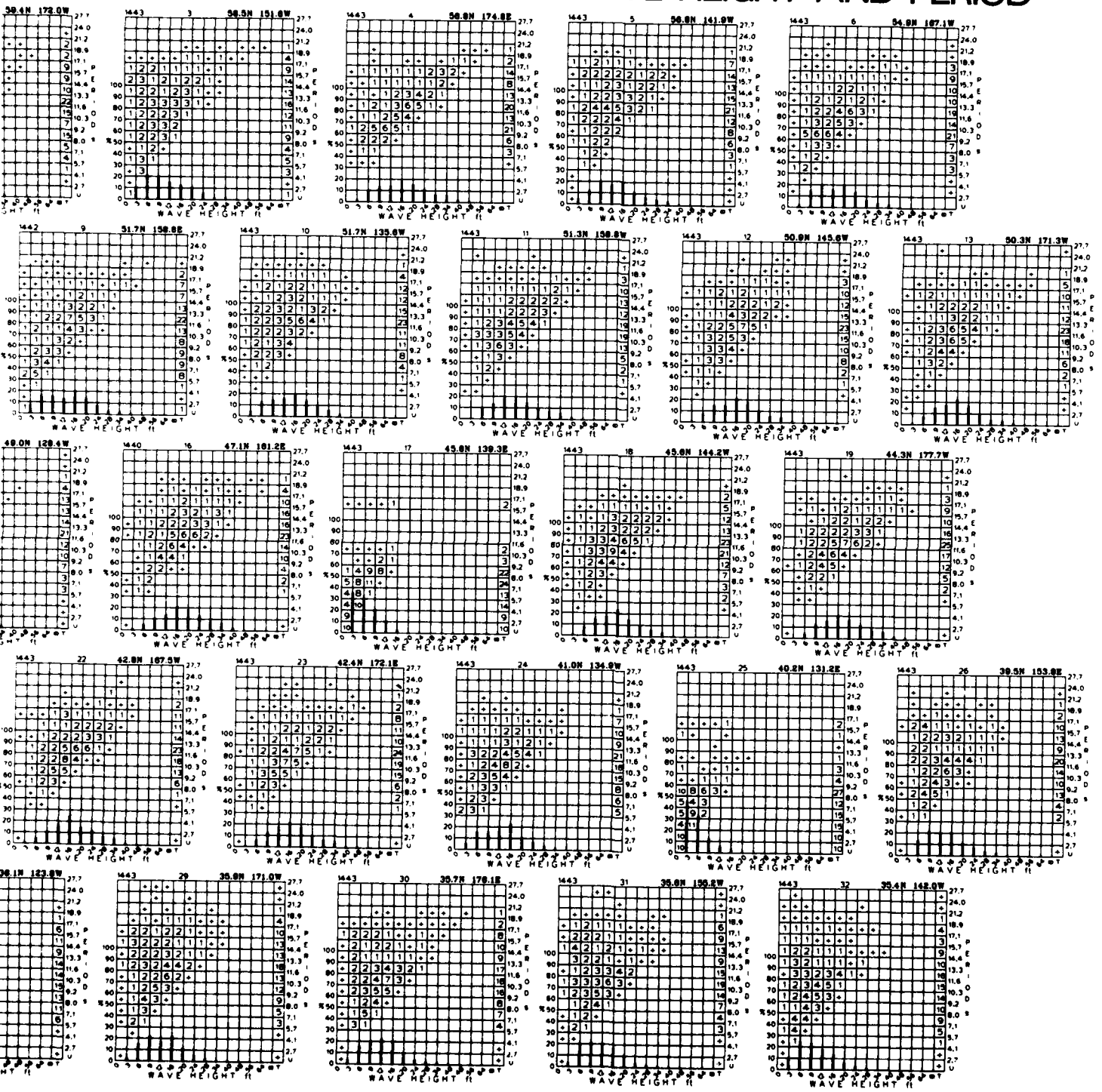


MARCH

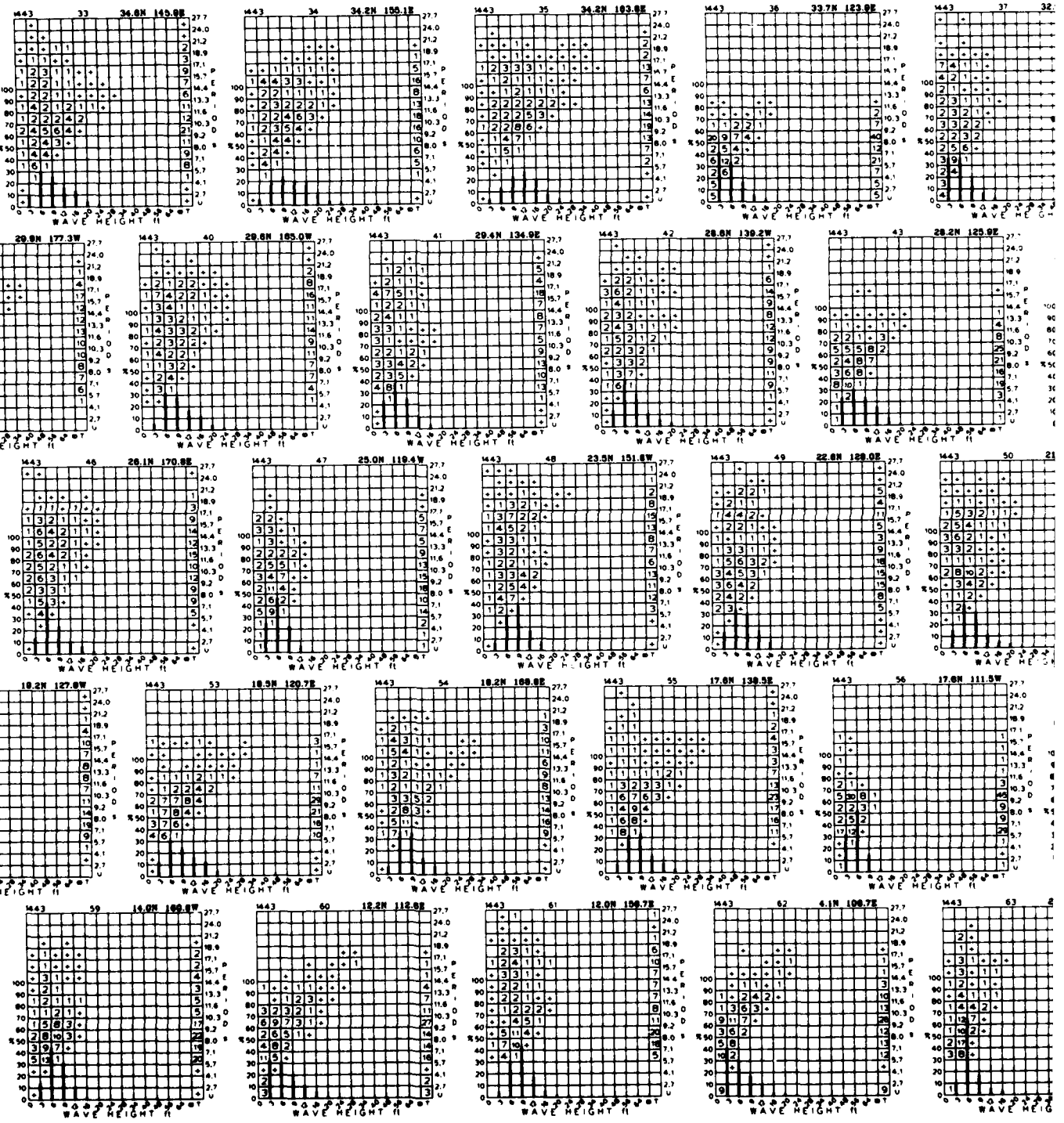
WAVE

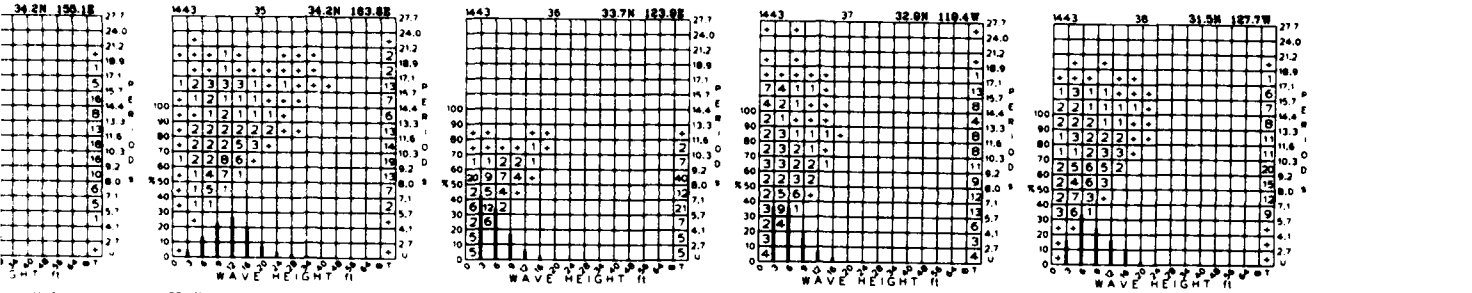


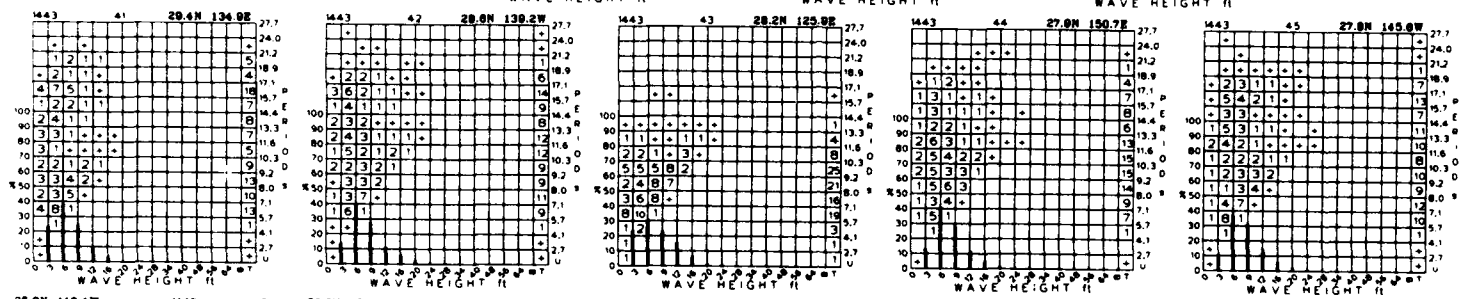
WAVE HEIGHT AND PERIOD

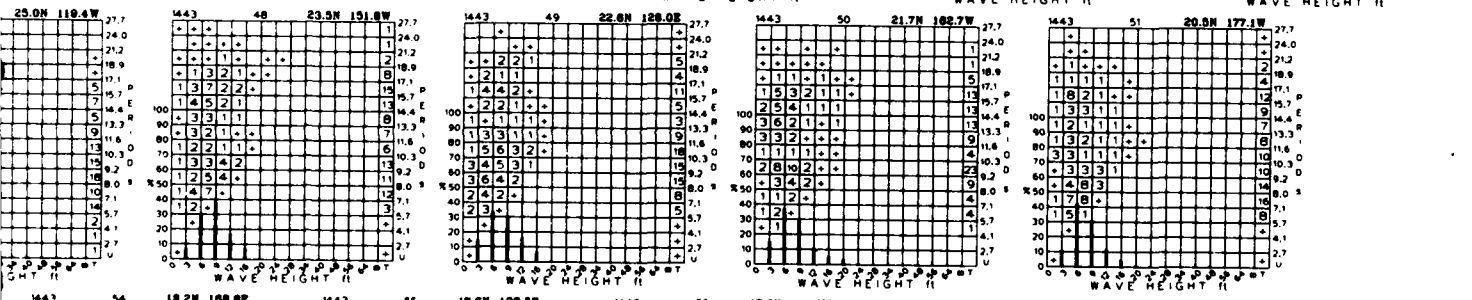


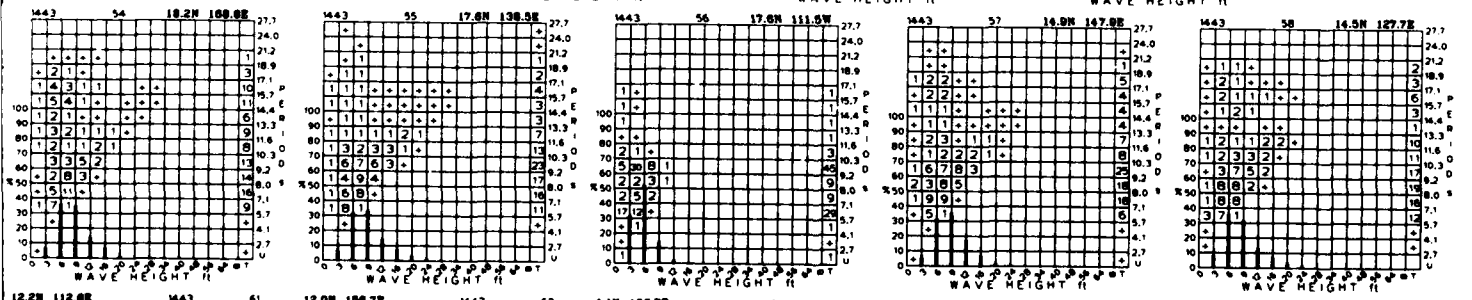
WAVE HEIGHT AND PERIOD (Cont'd)

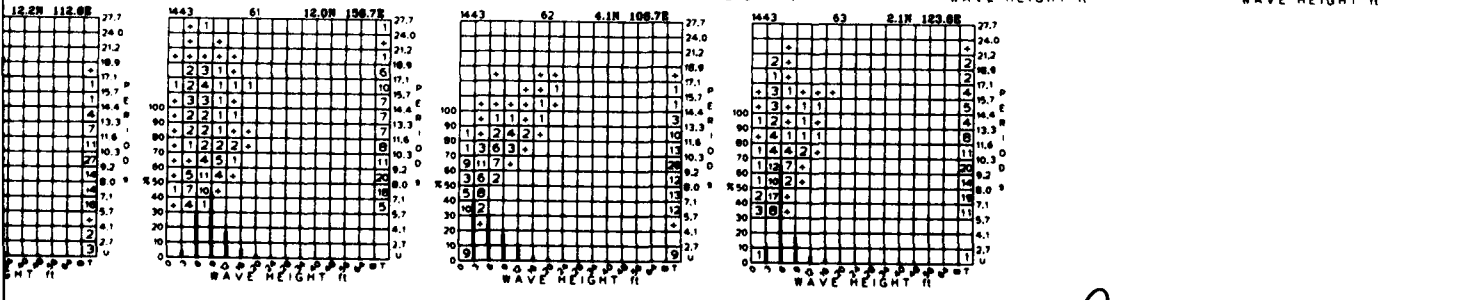



1443 35 34.2N 163.8E
1443 36 33.7N 123.9E
1443 37 32.9N 119.4W
1443 38 31.5N 127.7W
WAVE HEIGHT ft


1443 41 29.4N 134.9E
1443 42 28.8N 139.2W
1443 43 28.2N 125.9E
1443 44 27.9N 150.7E
1443 45 27.8N 165.6W
WAVE HEIGHT ft

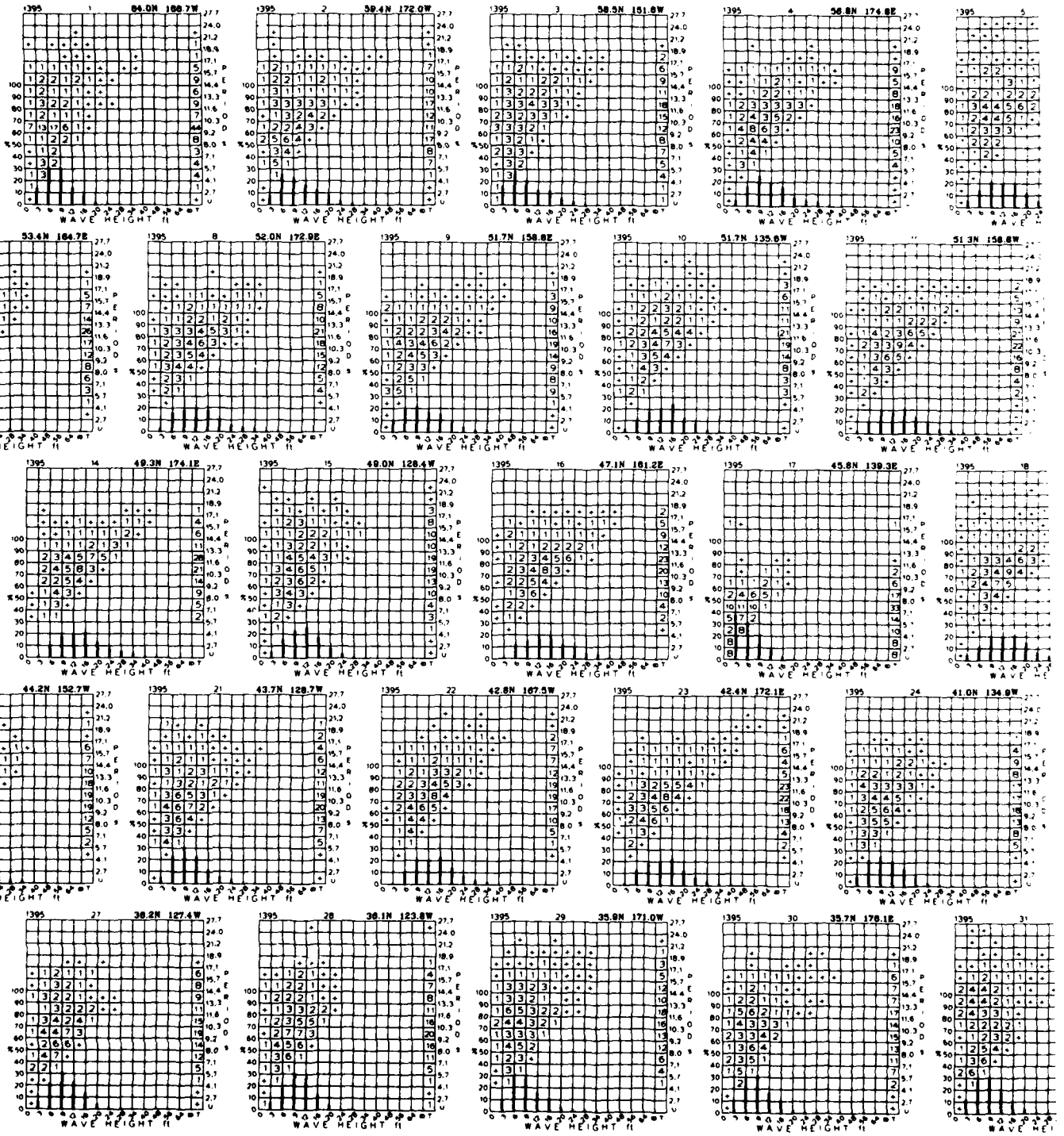

25.0N 119.4W
1443 48 23.5N 151.6W
1443 49 22.8N 128.0E
1443 50 21.7N 102.7W
1443 51 20.5N 177.1W
WAVE HEIGHT ft


1443 54 18.2N 169.9E
1443 55 17.8N 138.5E
1443 56 17.6N 111.6W
1443 57 16.9N 147.9E
1443 58 16.5N 127.7E
WAVE HEIGHT ft

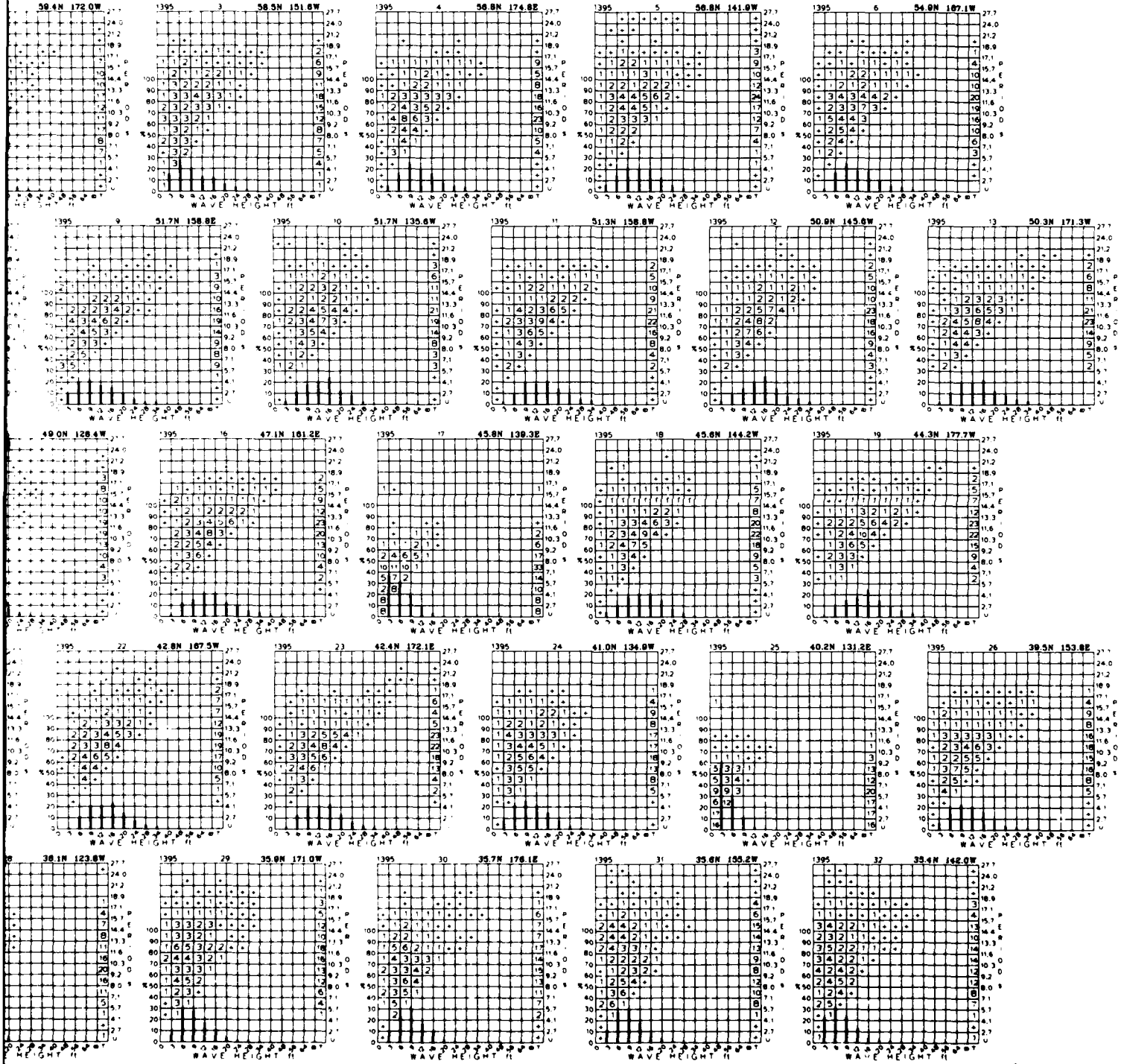

12.2N 112.9E
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1443 62 6.1N 108.7E
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WAVE HEIGHT ft

2

APRIL

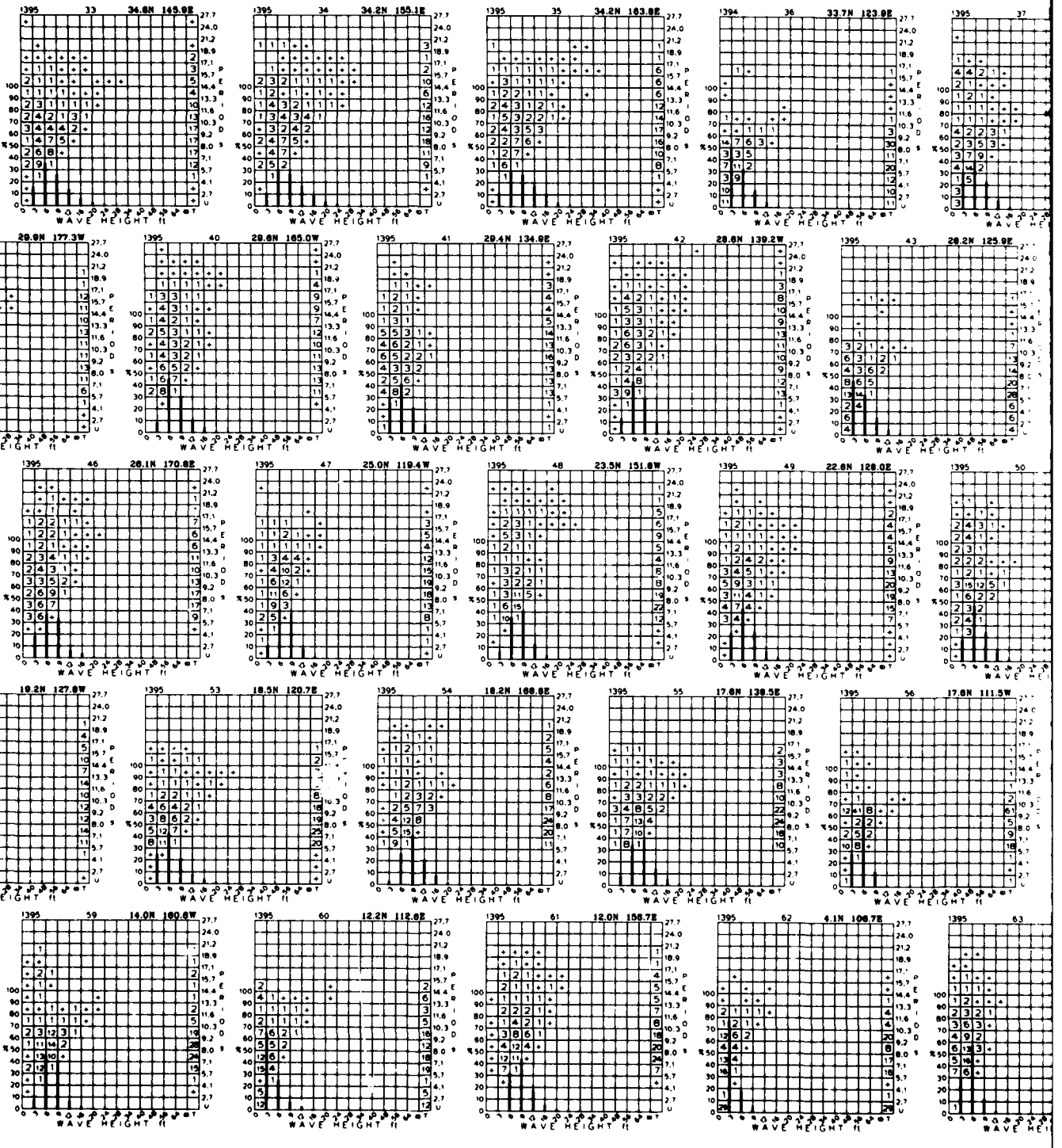

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1395 4 56.8N 174.8E
1395 5
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1395 8 52.0N 172.9E
1395 9 51.7N 158.8E
1395 10 51.7N 135.6W
1395 11 51.3N 158.8W
1395 14 49.3N 176.1E
1395 15 49.0N 128.4W
1395 16 47.1N 161.2E
1395 17 45.8N 139.3E
1395 18
1395 20 44.2N 152.7W
1395 21 43.7N 128.7W
1395 22 42.8N 167.5W
1395 23 42.4N 172.1E
1395 24 41.0N 134.9W
1395 27 38.2N 127.4W
1395 28 38.1N 123.8W
1395 29 35.9N 171.0W
1395 30 35.7N 176.1E
1395 31
WAVE HEIGHT FT

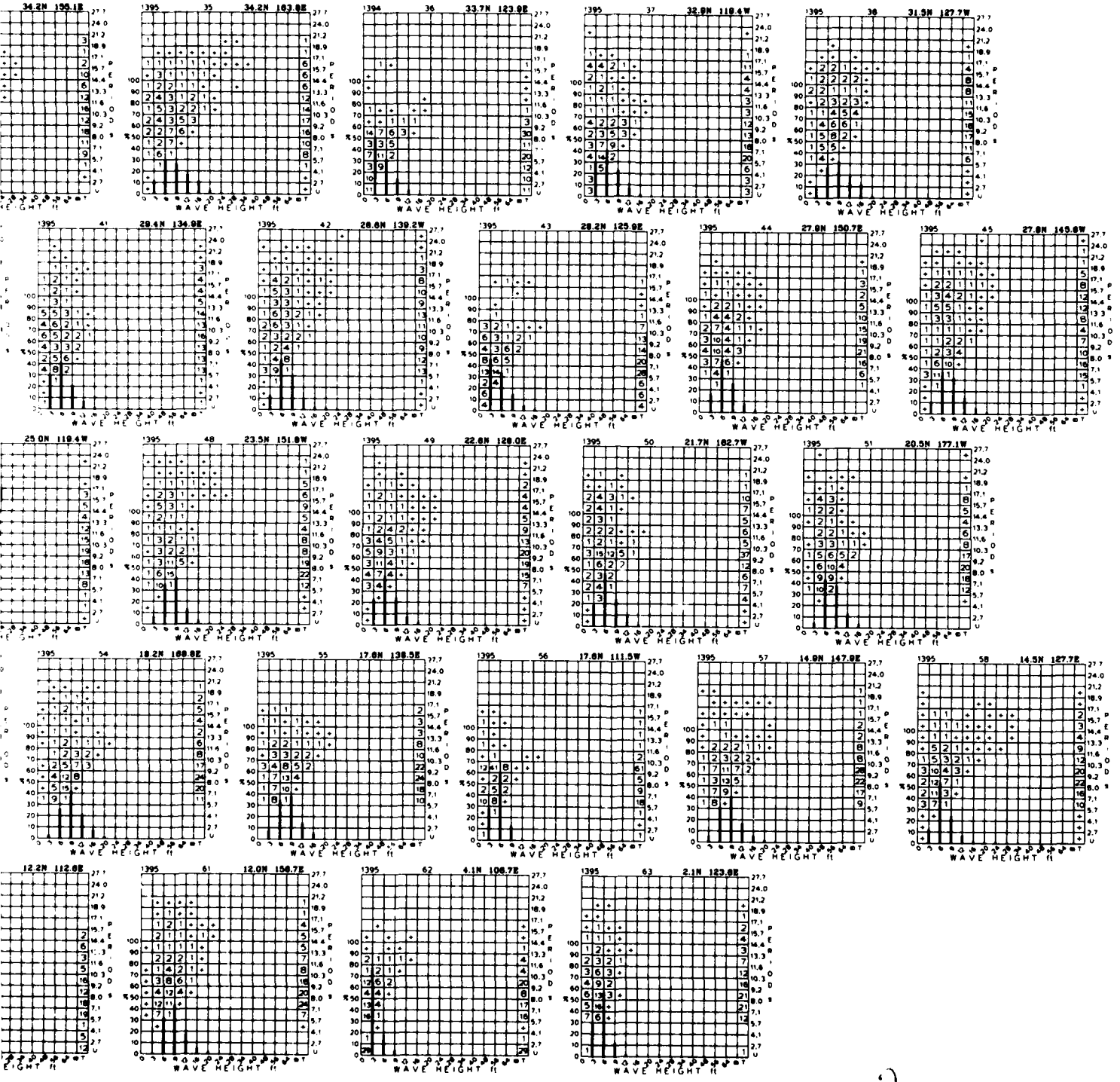
WAVE HEIGHT AND PERIOD



4

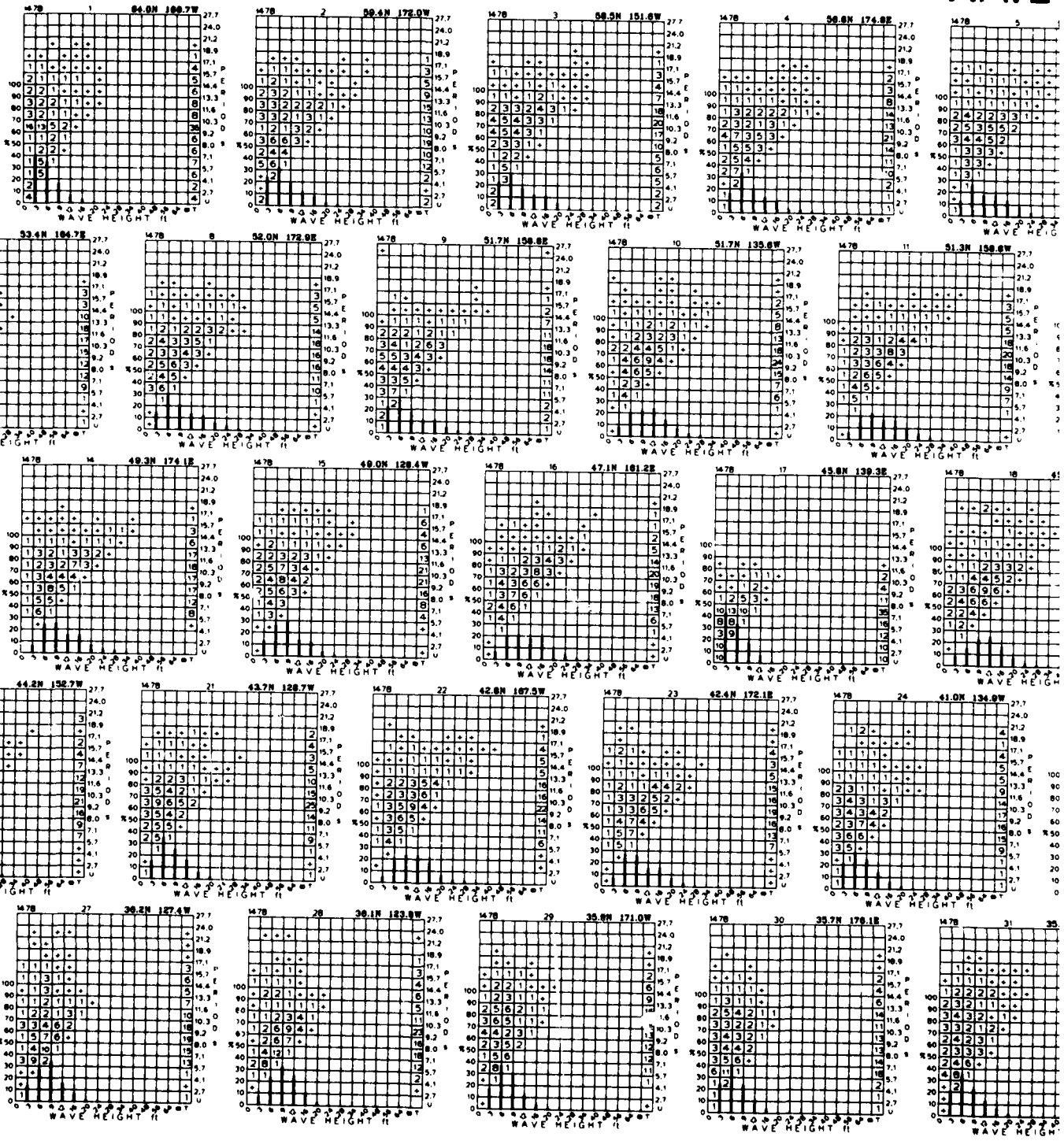
WAVE HEIGHT AND PERIOD (Cont'd)




1395 35 34.2N 183.8E
1394 36 33.7N 123.8E
1395 37 32.8N 118.4W
1395 38 31.5N 127.7W
1395 41 29.4N 134.9E
1395 42 28.8N 139.2W
1395 43 28.2N 125.9E
1395 44 27.8N 150.7E
1395 45 27.8N 145.8W
1395 48 23.5N 151.8W
1395 49 22.8N 128.0E
1395 50 21.7N 182.7W
1395 51 20.5N 177.1W
1395 54 18.2N 188.8E
1395 55 17.8N 138.5E
1395 56 17.8N 111.5W
1395 57 14.8N 147.8E
1395 58 14.5N 127.7E
1395 61 12.0N 156.7E
1395 62 4.1N 106.7E
1395 63 2.1N 123.8E
WAVE HEIGHT ft

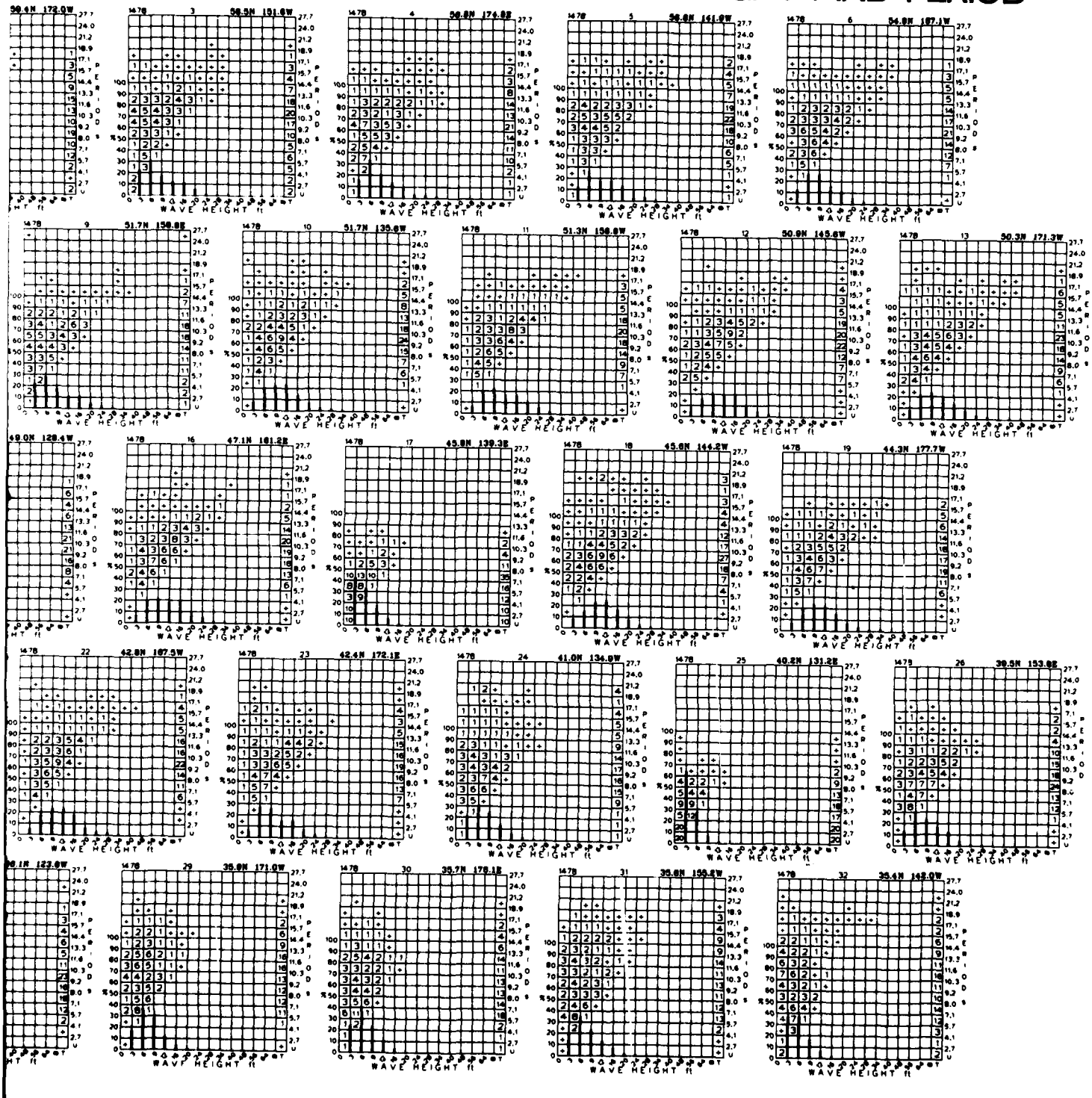
MAY

WAVE

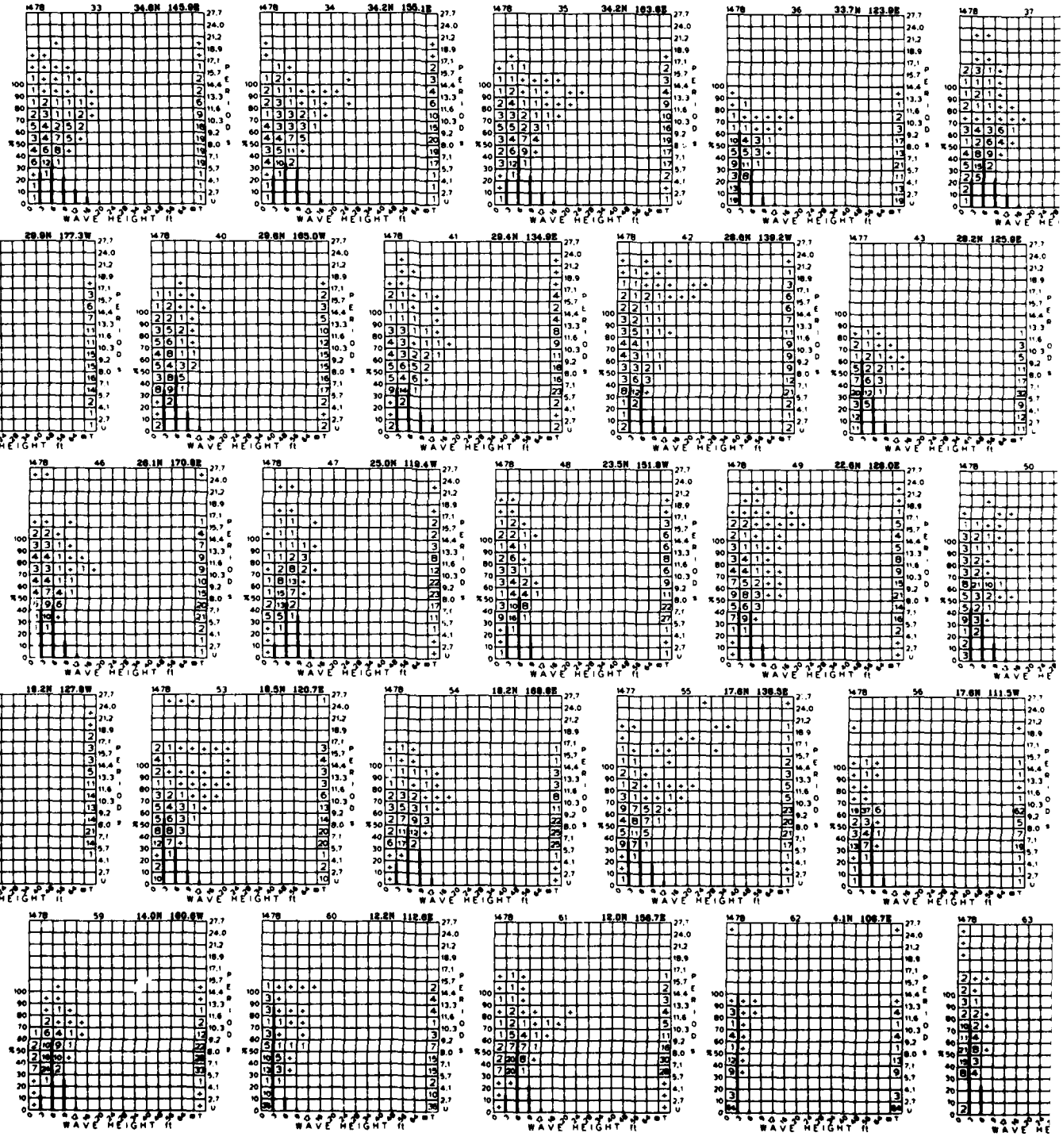

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14.78 2 59.4N 172.0W
14.78 3 58.5N 151.6W
14.78 4 58.6N 174.6E
14.78 5
14.78 7 53.4N 164.7E
14.78 8 52.0N 172.9E
14.78 9 51.7N 156.6E
14.78 10 51.7N 135.6W
14.78 11 51.3N 156.6W
14.78 14 49.3N 174.1E
14.78 15 49.0N 128.4W
14.78 16 47.1N 161.2E
14.78 17 45.8N 139.3E
14.78 18
14.78 20 44.2N 152.7W
14.78 21 43.7N 128.7W
14.78 22 42.8N 167.5W
14.78 23 42.4N 172.1E
14.78 24 41.0N 134.9W
14.78 27 36.2N 127.4W
14.78 28 36.1N 123.8W
14.78 29 35.8N 171.0W
14.78 30 35.7N 170.1E
14.78 31
PERIOD
WAVE HEIGHT ft
% 0 5 10 20 30 40 50 60 70 80 90 100
27.7 24.0 21.2 18.9 17.1 15.7 14.4 13.3 11.6 10.3 9.2 8.0 7.1 5.7 4.1 2.7

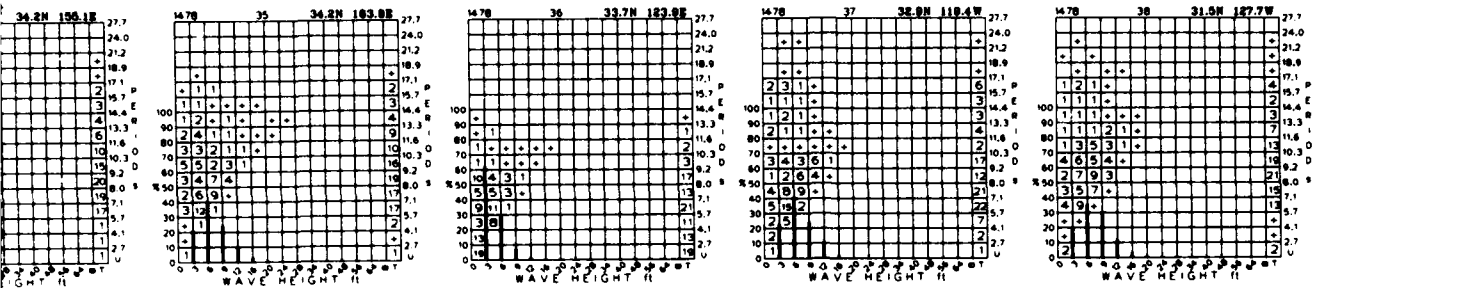
3

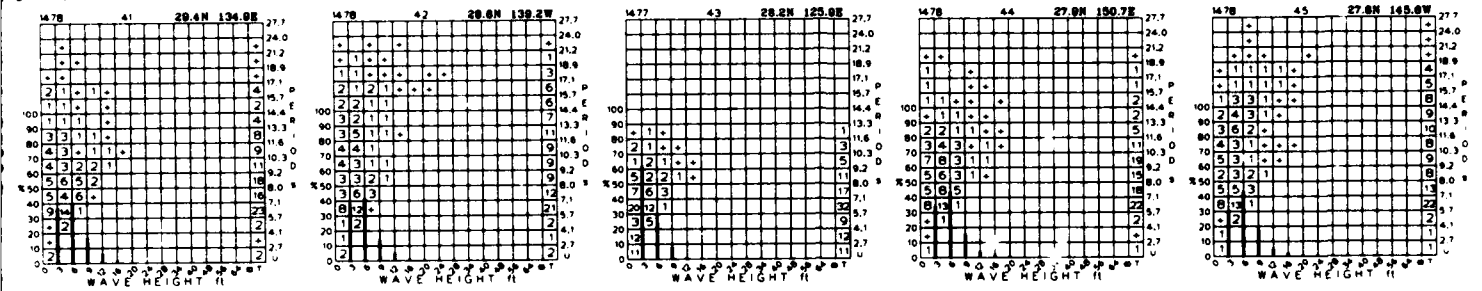
WAVE HEIGHT AND PERIOD

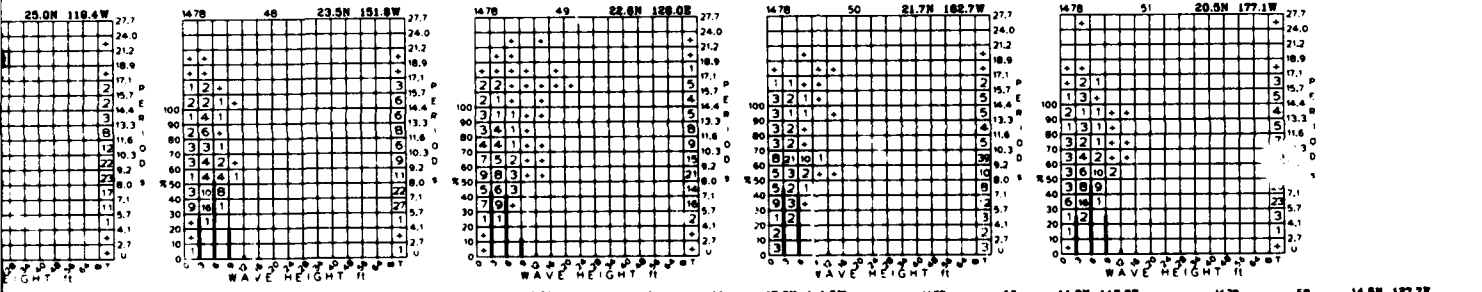


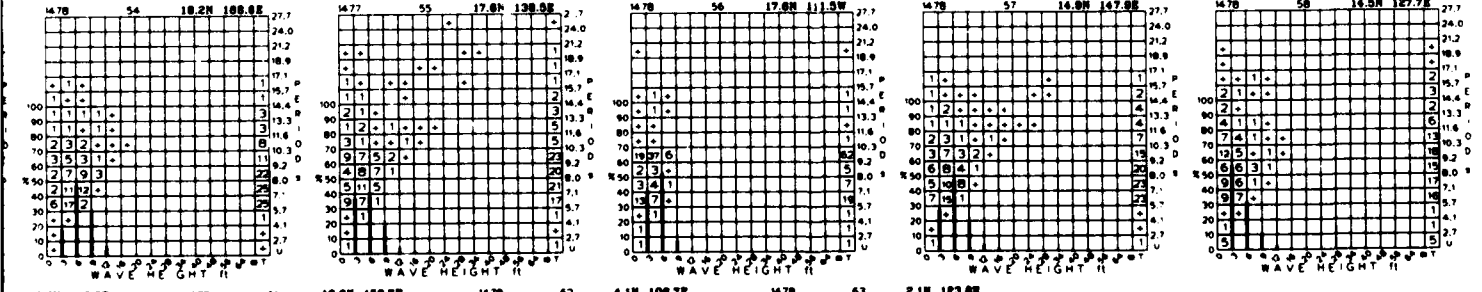
WAVE HEIGHT AND PERIOD (Cont'd)

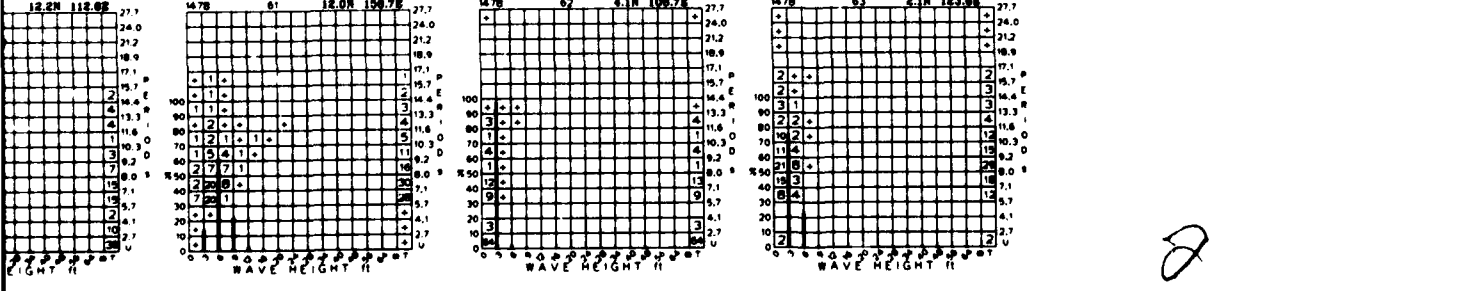



34.2N 150.1E
1478 35 34.2N 163.9E
1478 36 33.7N 123.9E
1478 37 32.9N 110.4W
1478 38 31.5N 127.7W
WAVE HEIGHT ft
PERIOD sec

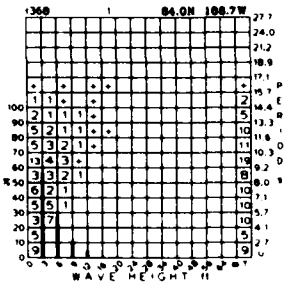

1478 41 29.4N 134.9E
1478 42 28.8N 139.2W
1477 43 28.2N 125.9E
1478 44 27.9N 150.7E
1478 45 27.8N 145.8W
WAVE HEIGHT ft
PERIOD sec

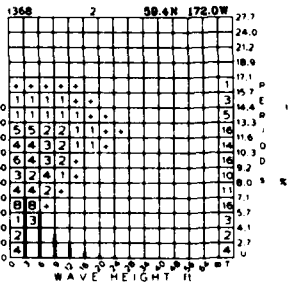

25.0N 119.4W
1478 48 23.5N 151.8W
1478 49 22.8N 128.0E
1478 50 21.7N 162.7W
1478 51 20.5N 177.1W
WAVE HEIGHT ft
PERIOD sec

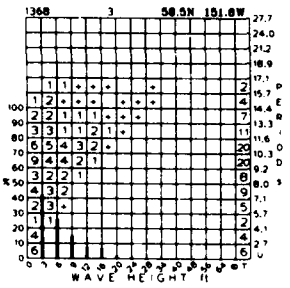

1478 54 18.2N 169.6E
1477 55 17.6N 138.9E
1478 56 17.6N 111.5W
1478 57 16.9N 147.8E
1478 58 16.5N 127.7E
WAVE HEIGHT ft
PERIOD sec

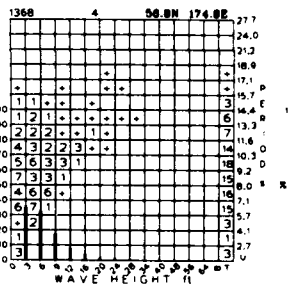

12.2N 112.6E
1478 61 12.0N 150.7E
1478 62 4.1N 109.7E
1478 63 2.1N 123.6E
WAVE HEIGHT ft
PERIOD sec

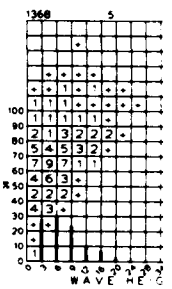
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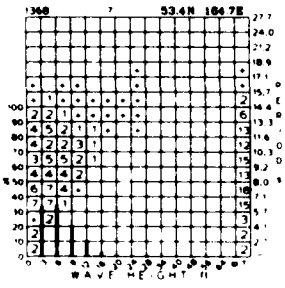

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WAVE HEIGHT ft

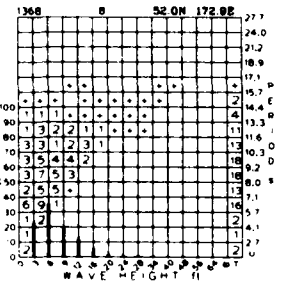

1368 2 59.4N 172.0W
WAVE HEIGHT ft

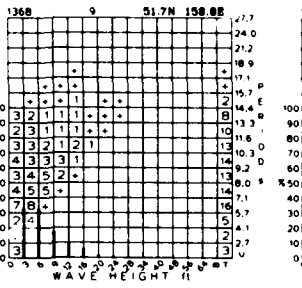

1368 3 56.5N 151.6W
WAVE HEIGHT ft

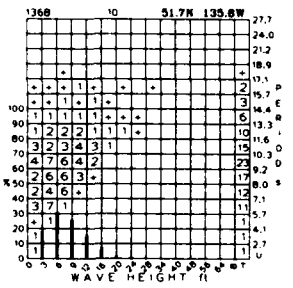

1368 4 56.8N 174.8E
WAVE HEIGHT ft

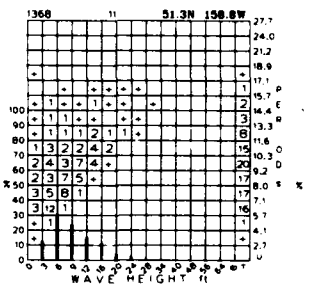

1368 5

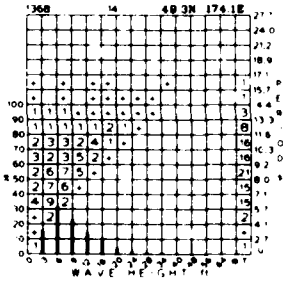

1368 7 53.4N 164.7E
WAVE HEIGHT ft

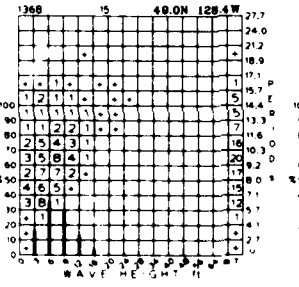

1368 8 52.0N 172.8E
WAVE HEIGHT ft

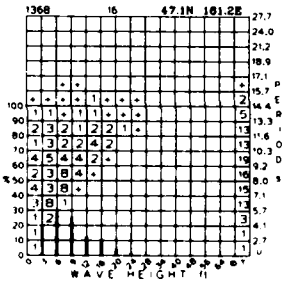

1368 9 51.7N 158.8E
WAVE HEIGHT ft

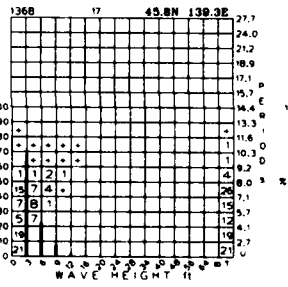

1368 10 51.7N 135.6W
WAVE HEIGHT ft

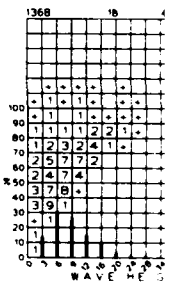

1368 11 51.3N 156.8W
WAVE HEIGHT ft

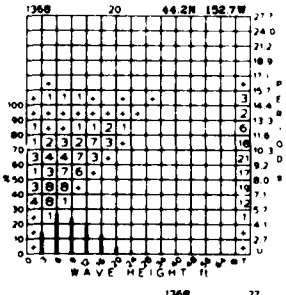

1368 14 48.3N 174.1E
WAVE HEIGHT ft

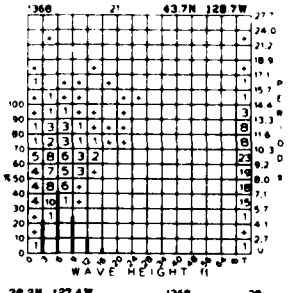

1368 15 48.0N 128.4W
WAVE HEIGHT ft

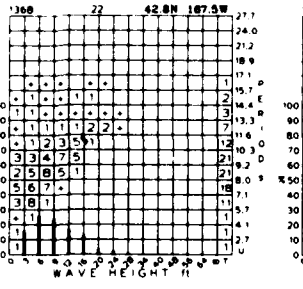

1368 16 47.1N 161.2E
WAVE HEIGHT ft

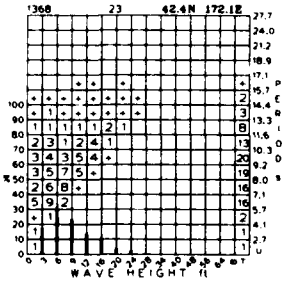

1368 17 45.8N 139.3E
WAVE HEIGHT ft

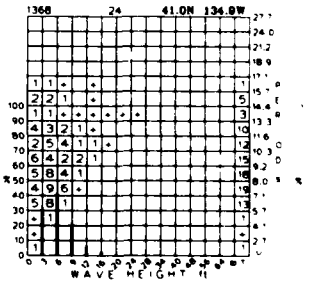

1368 18

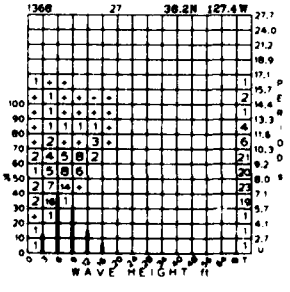

1368 20 44.2N 152.7W
WAVE HEIGHT ft

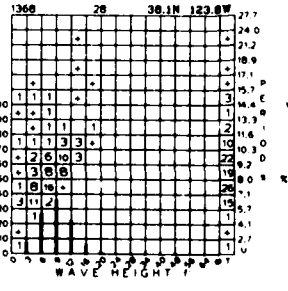

1368 21 43.7N 128.7W
WAVE HEIGHT ft

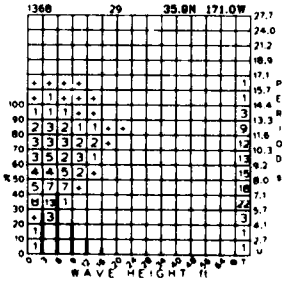

1368 22 42.8N 167.5W
WAVE HEIGHT ft

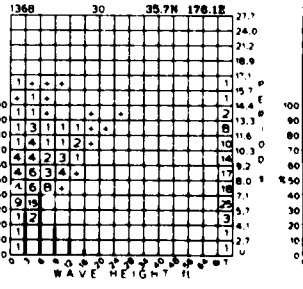

1368 23 42.4N 172.1E
WAVE HEIGHT ft

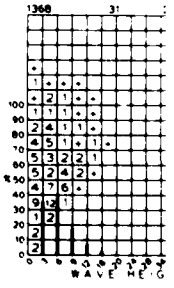

1368 24 41.0N 134.8W
WAVE HEIGHT ft


1368 27 38.2N 127.4W
WAVE HEIGHT ft

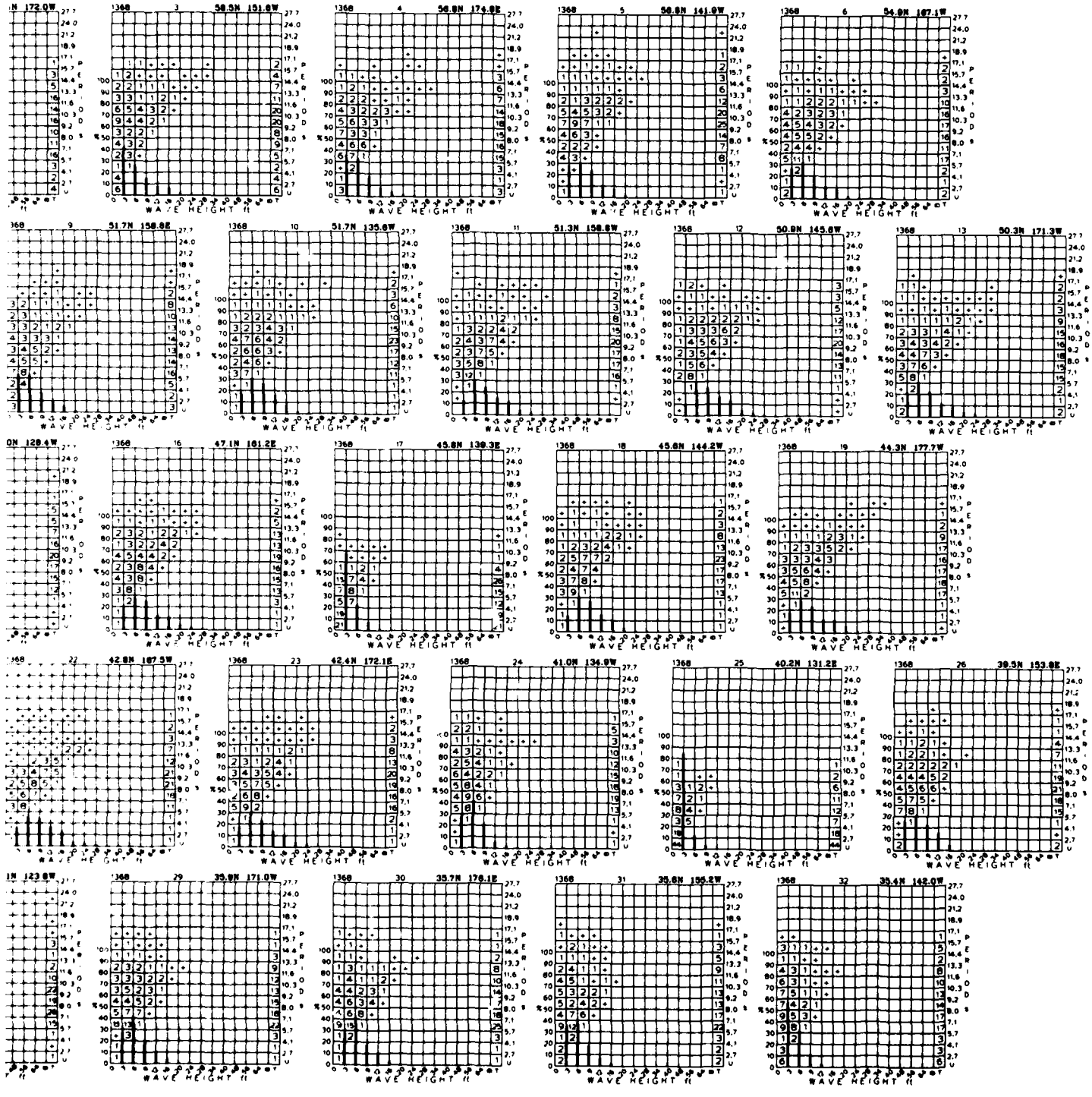

1368 28 38.1N 123.8W
WAVE HEIGHT ft


1368 29 35.9N 171.0W
WAVE HEIGHT ft

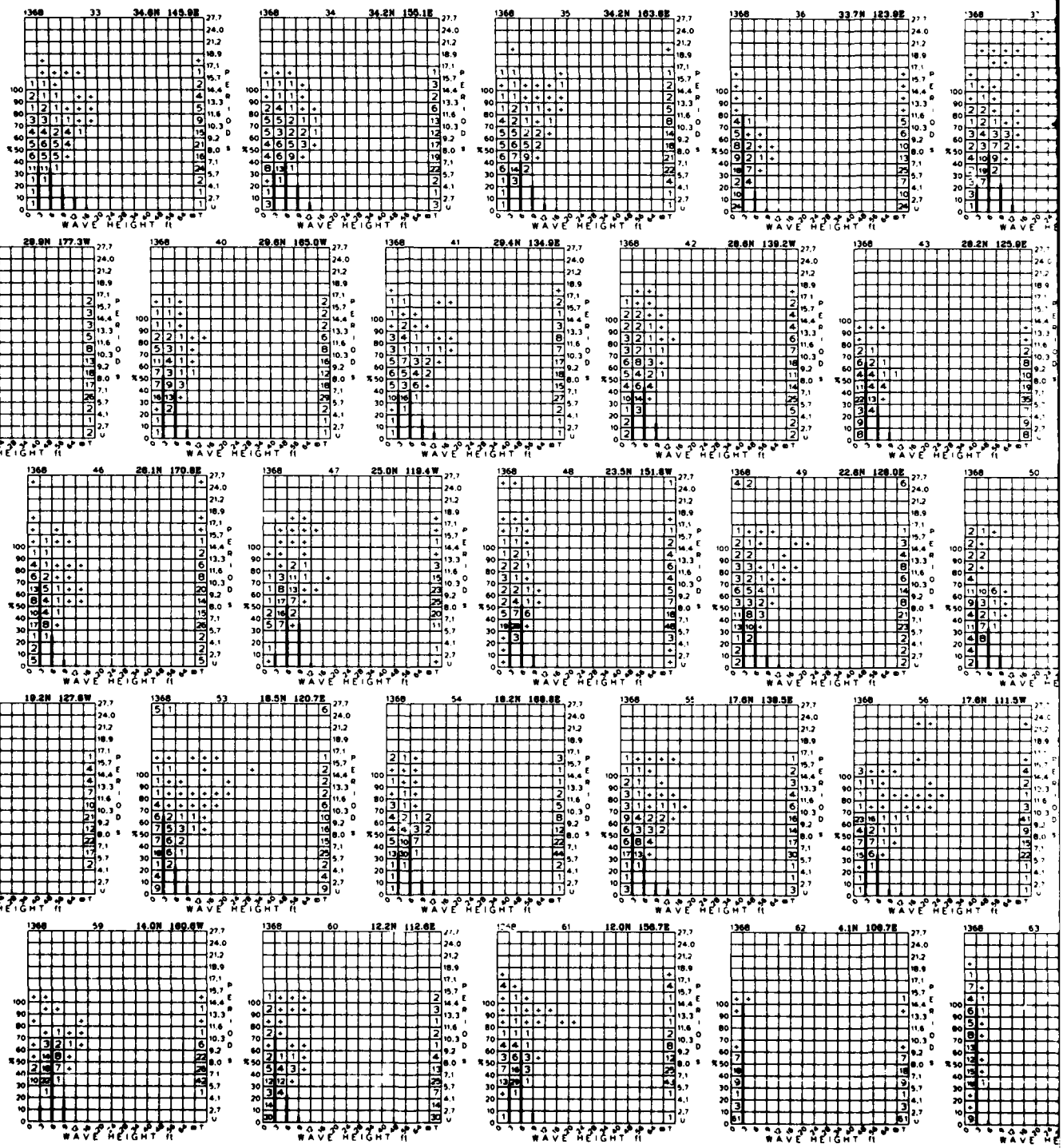

1368 30 35.7N 176.1E
WAVE HEIGHT ft

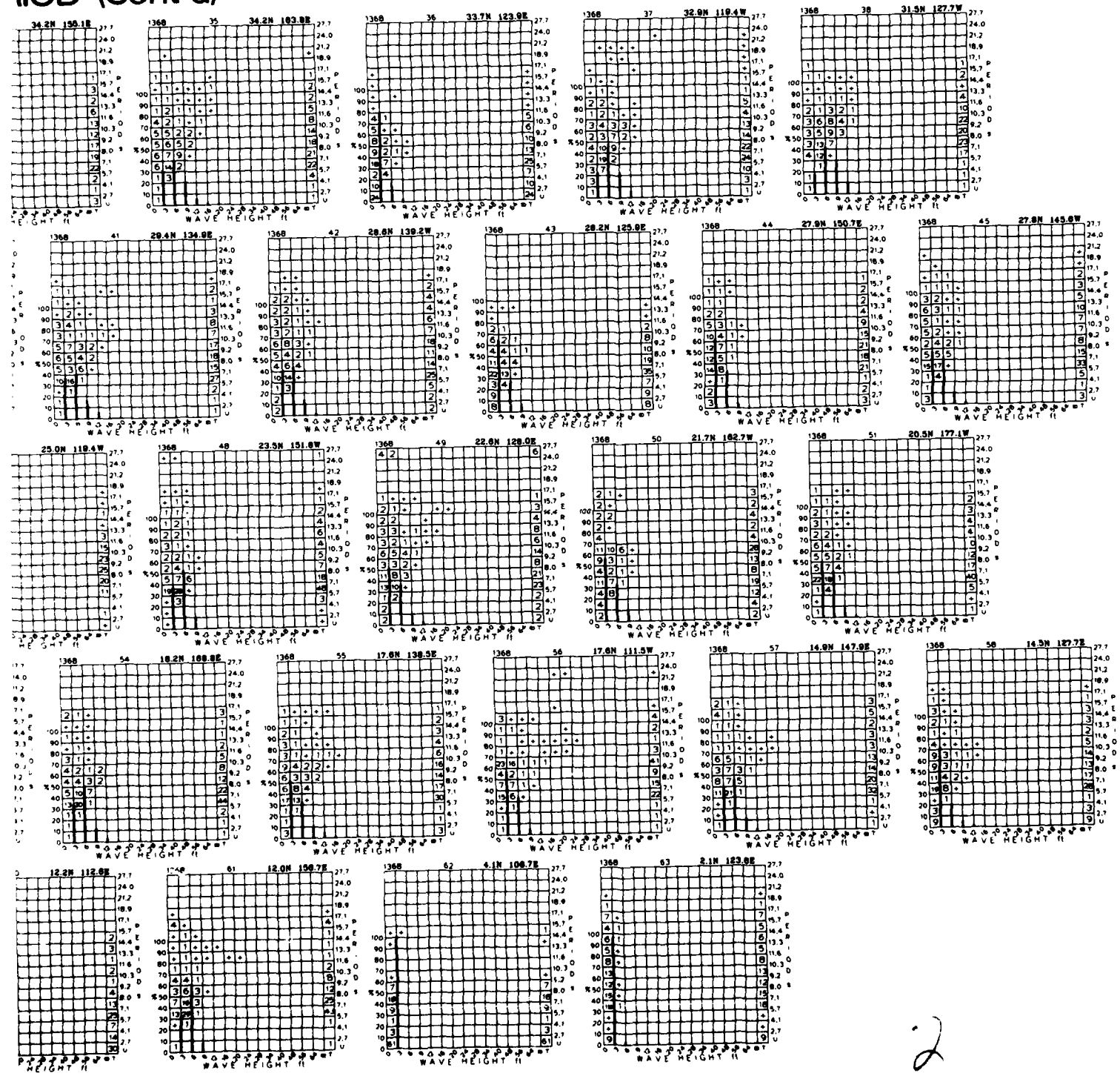

1368 31

WAVE HEIGHT AND PERIOD



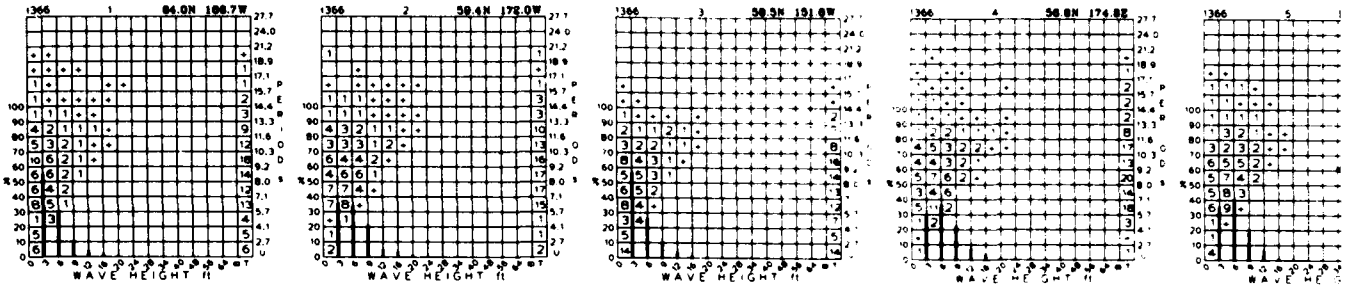
WAVE HEIGHT AND PERIOD (Cont'd)

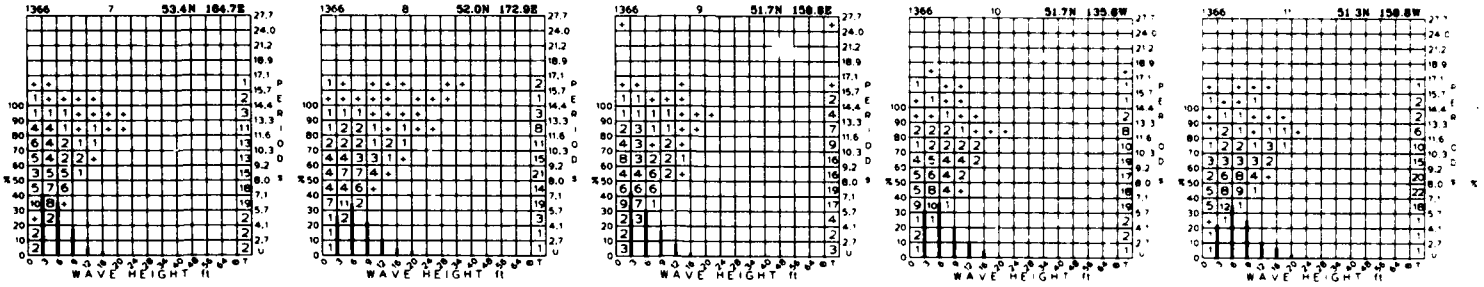


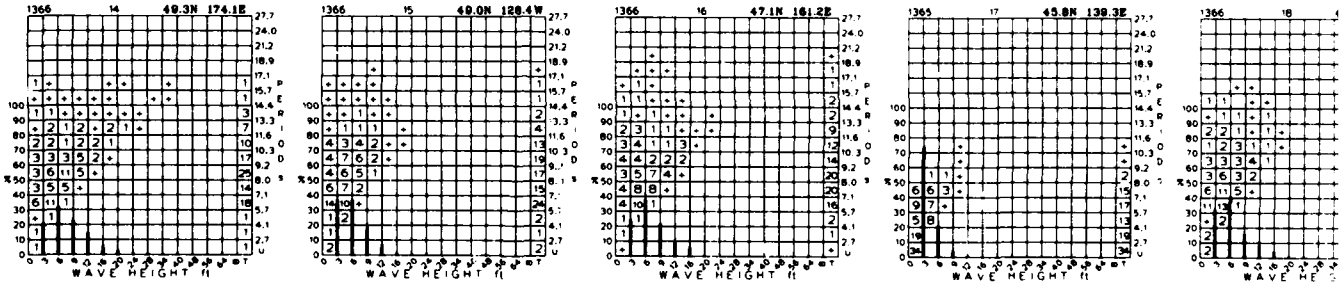

34.2N 150.1E
1368 35 34.2N 183.9E
1368 36 33.7N 123.9E
1368 37 32.9N 119.4W
1368 38 31.5N 127.7W
1368 41 29.4N 134.9E
1368 42 28.6N 139.2W
1368 43 28.2N 125.9E
1368 44 27.9N 150.7E
1368 45 27.8N 145.6W
25.0N 119.4W
1368 48 23.5N 151.6W
1368 49 22.6N 128.0E
1368 50 21.7N 162.7W
1368 51 20.5N 177.1W
1368 54 18.2N 168.8E
1368 55 17.6N 138.5E
1368 56 17.6N 111.5W
1368 57 14.9N 147.9E
1368 58 14.3N 127.7E
12.2N 112.6E
1368 61 12.0N 156.7E
1368 62 4.1N 108.7E
1368 63 2.1N 123.9E
WAVE HEIGHT ft

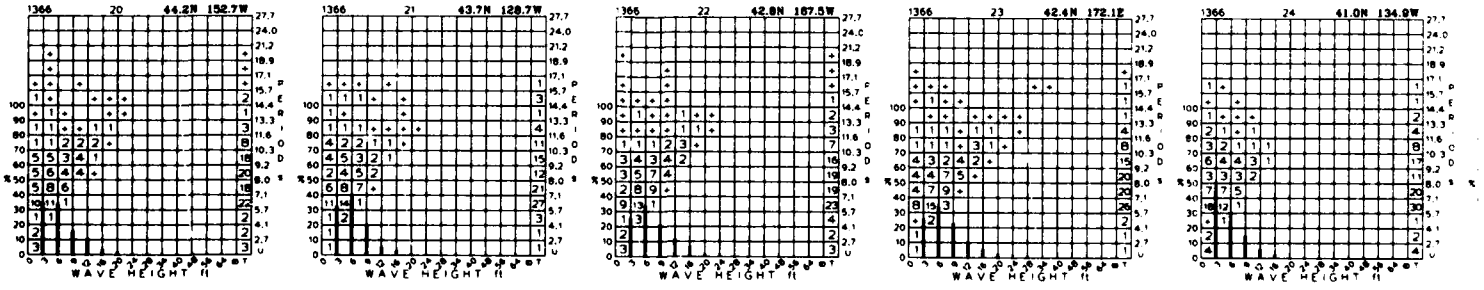
JULY

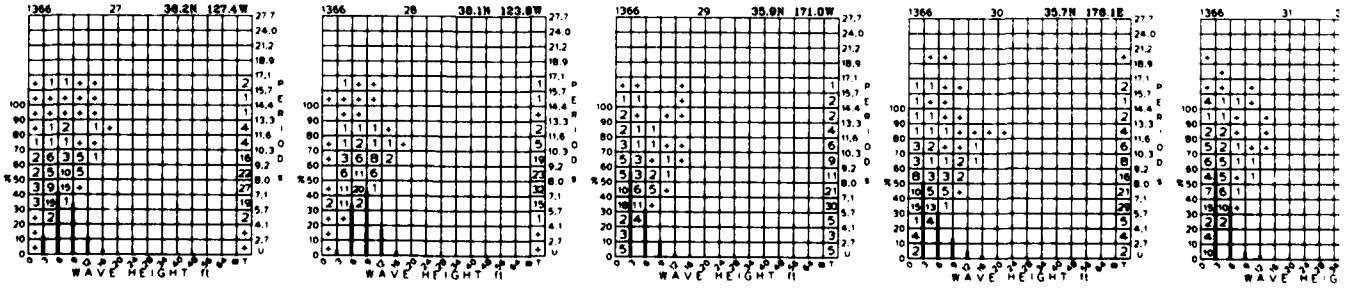
WAVE


1366 1 84.0N 166.7W
1366 2 59.4N 176.0W
1366 3 59.9N 191.6W
1366 4 56.8N 174.8E
1366 5
WAVE HEIGHT ft


1366 7 53.4N 164.7E
1366 8 52.0N 172.9E
1366 9 51.7N 150.8E
1366 10 51.7N 135.6W
1366 11 51.3N 150.8W
WAVE HEIGHT ft

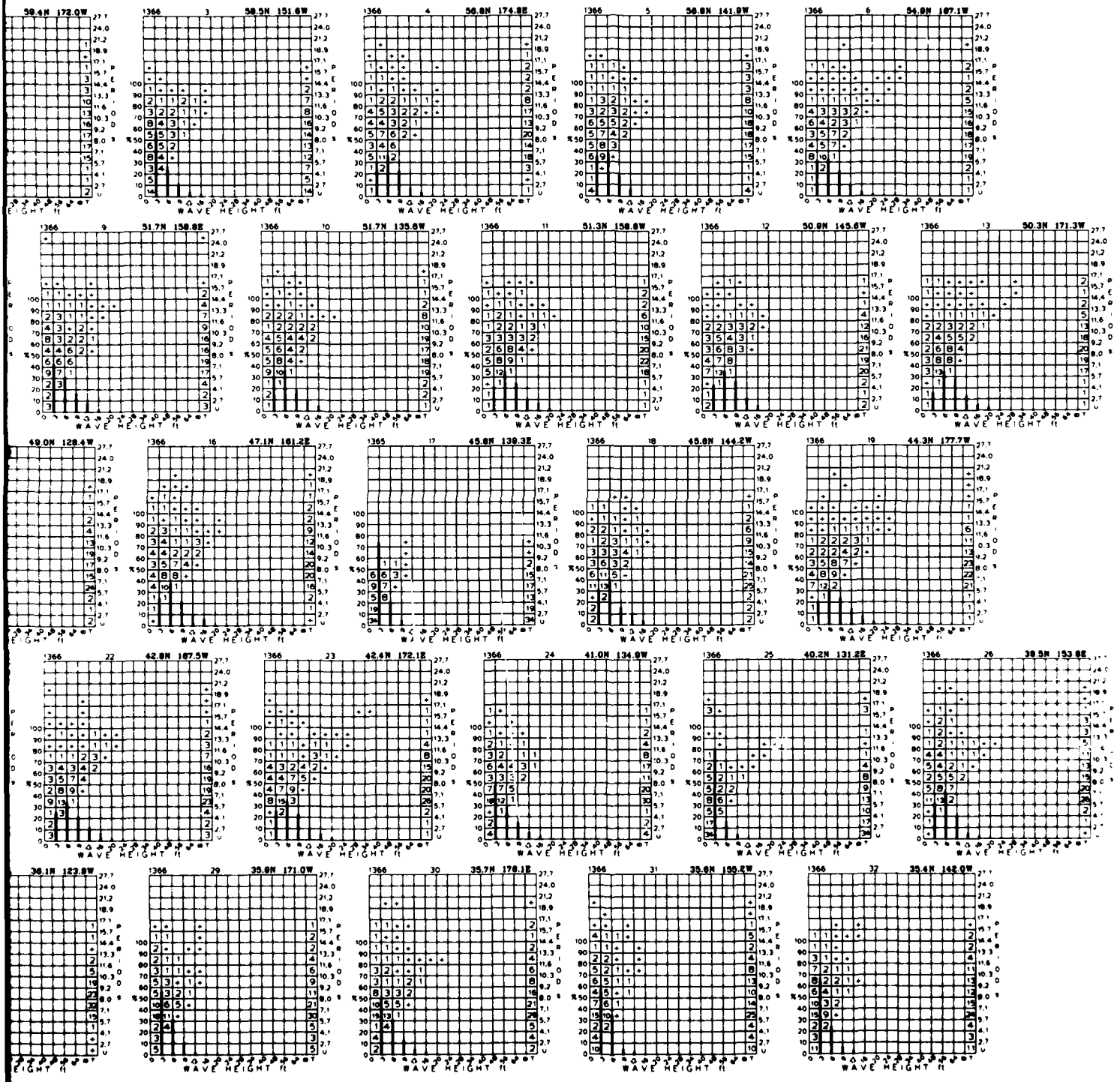

1366 14 49.3N 174.1E
1366 15 49.0N 128.4W
1366 16 47.1N 161.2E
1365 17 45.8N 139.3E
1366 18
WAVE HEIGHT ft


1366 20 44.2N 152.7W
1366 21 43.7N 128.7W
1366 22 42.8N 167.5W
1366 23 42.4N 172.1E
1366 24 41.0N 134.9W
WAVE HEIGHT ft


1366 27 38.2N 127.4W
1366 28 38.1N 123.8W
1366 29 35.9N 171.0W
1366 30 35.7N 178.1E
1366 31
WAVE HEIGHT ft

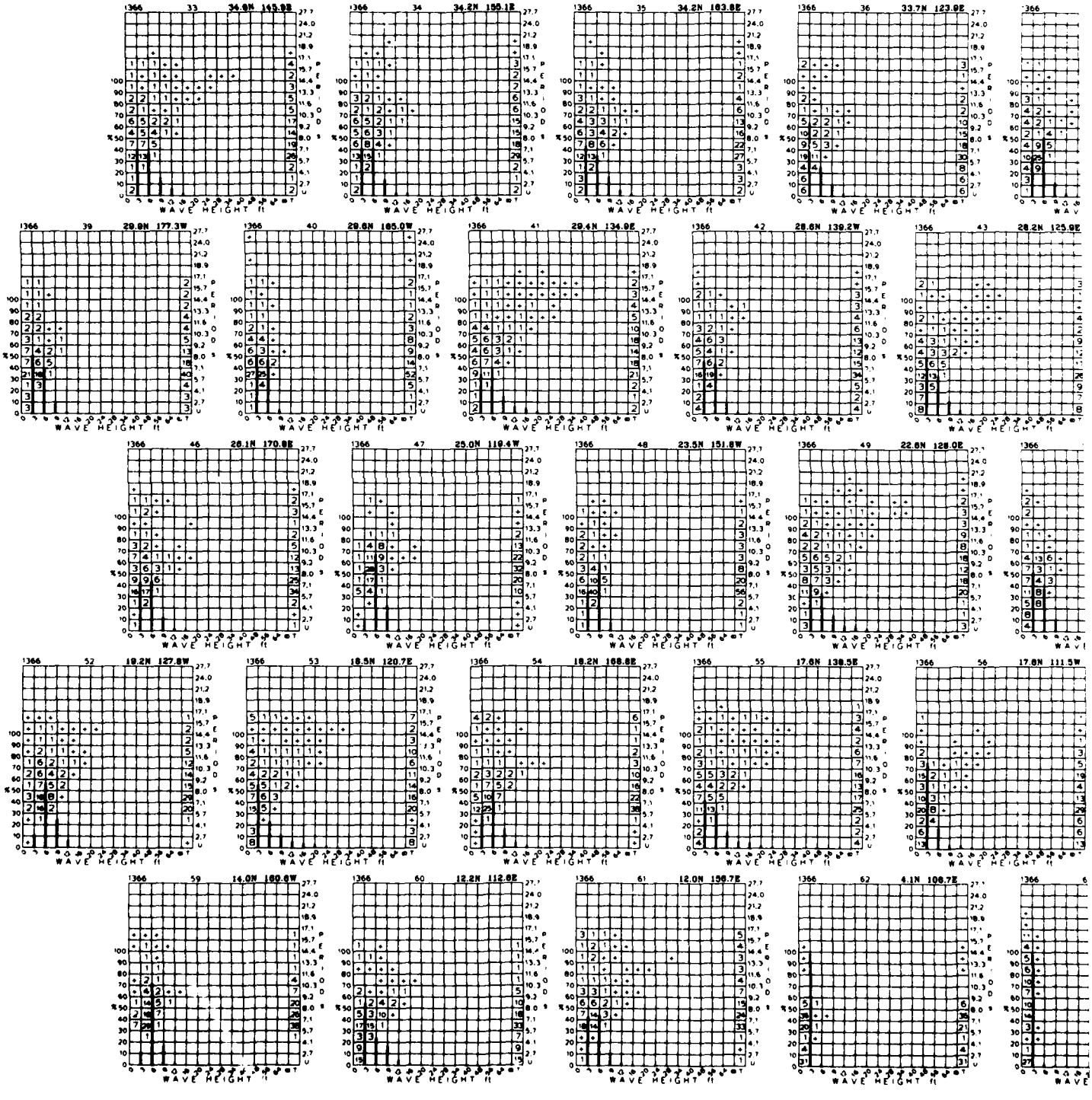
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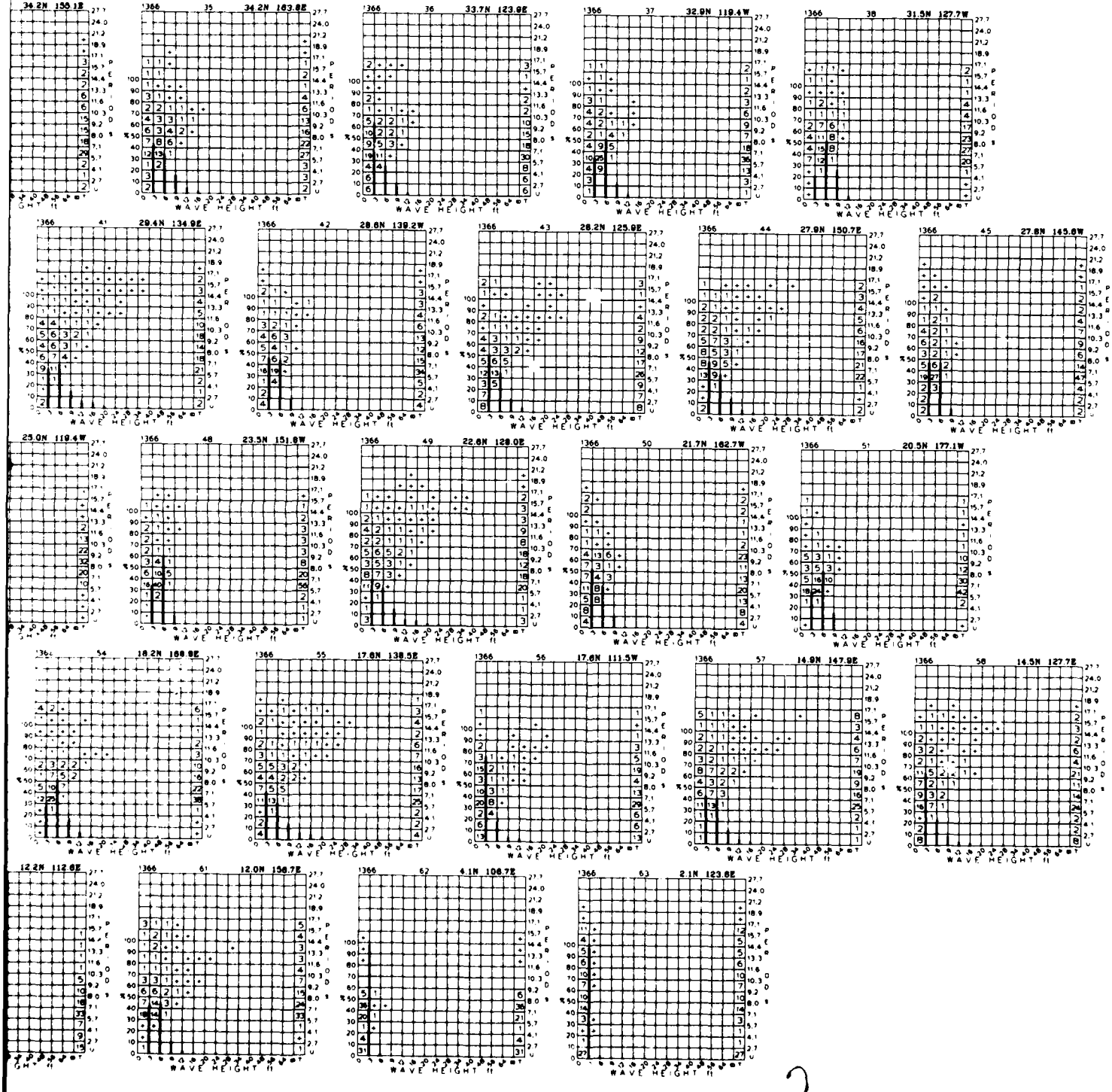
WAVE HEIGHT AND PERIOD



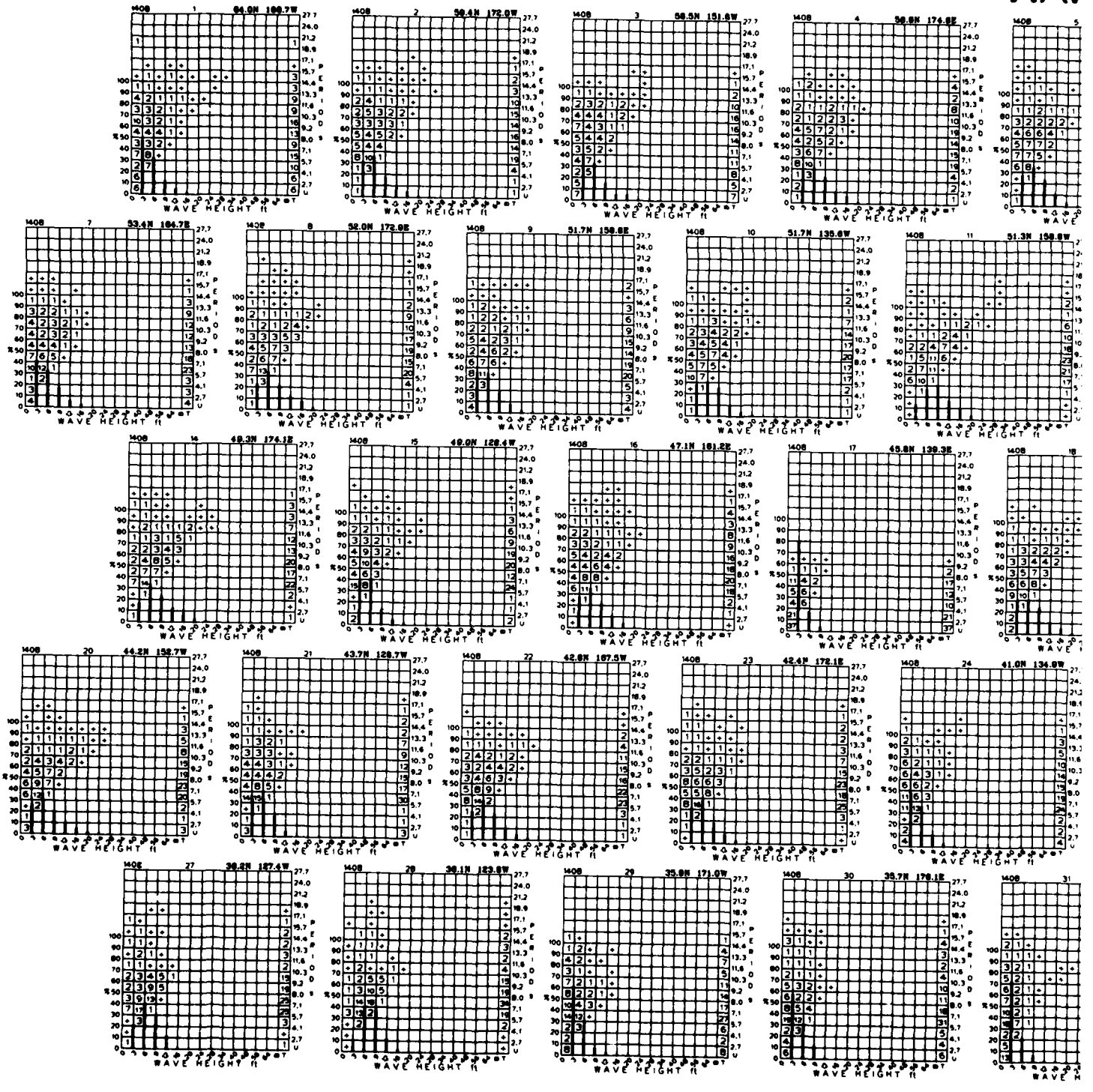
4

WAVE HEIGHT AND PERIOD (Cont'd)

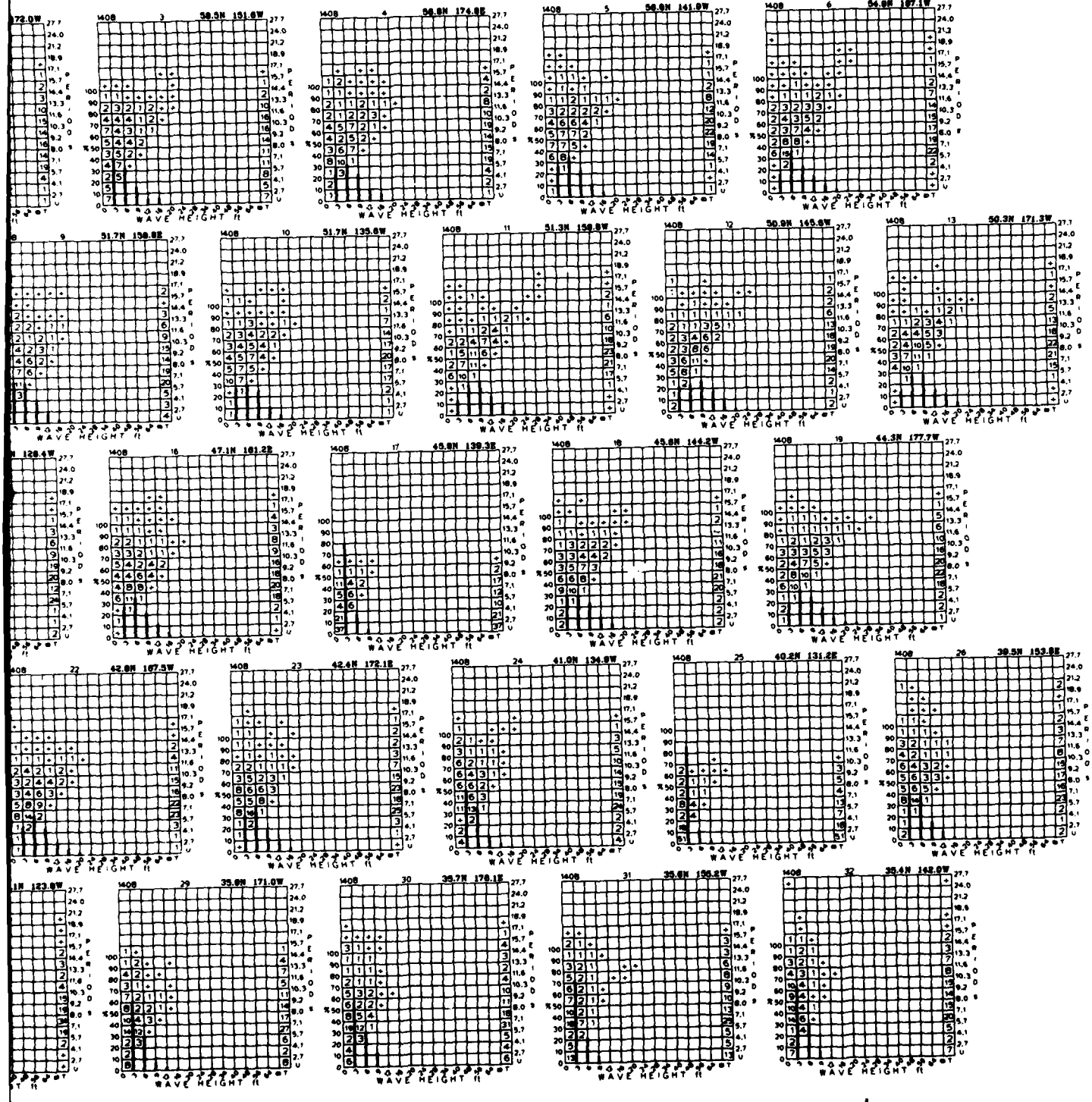



34.2N 155.1E
1366 35 34.2N 163.8E
1366 36 33.7N 123.9E
1366 37 32.9N 119.4W
1366 38 31.5N 127.7W
1366 41 29.4N 134.9E
1366 42 28.6N 139.2W
1366 43 28.2N 125.9E
1366 44 27.9N 150.7E
1366 45 27.8N 145.6W
25.0N 119.4W
1366 48 23.5N 151.8W
1366 49 22.8N 128.0E
1366 50 21.7N 162.7W
1366 51 20.5N 177.1W
1366 54 18.2N 169.9E
1366 55 17.8N 138.5E
1366 56 17.6N 111.5W
1366 57 14.9N 147.9E
1366 58 14.5N 127.7E
12.2N 112.6E
1366 61 12.0N 156.7E
1366 62 4.1N 106.7E
1366 63 2.1N 123.8E
WAVE HEIGHT

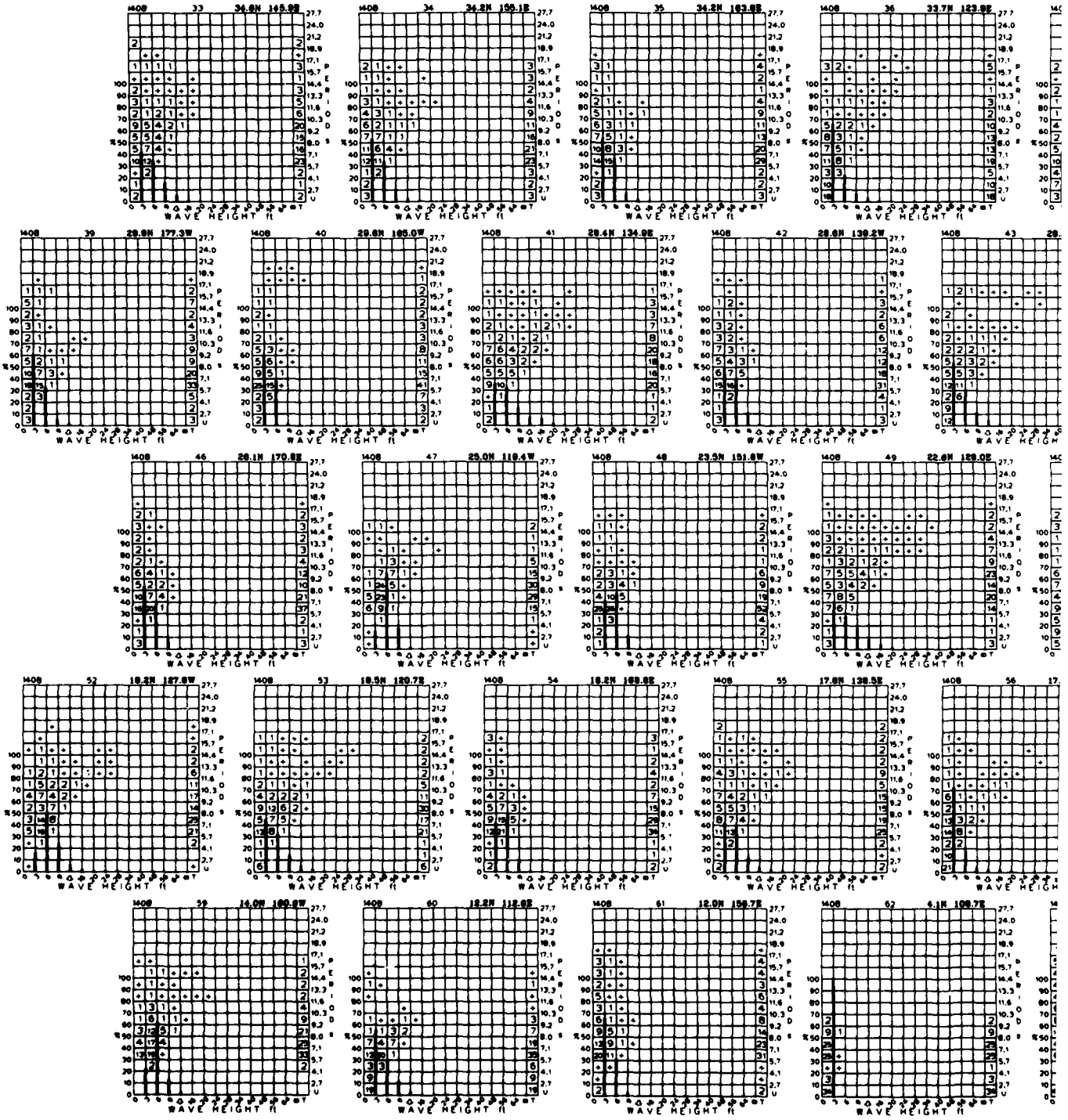
AUGUST

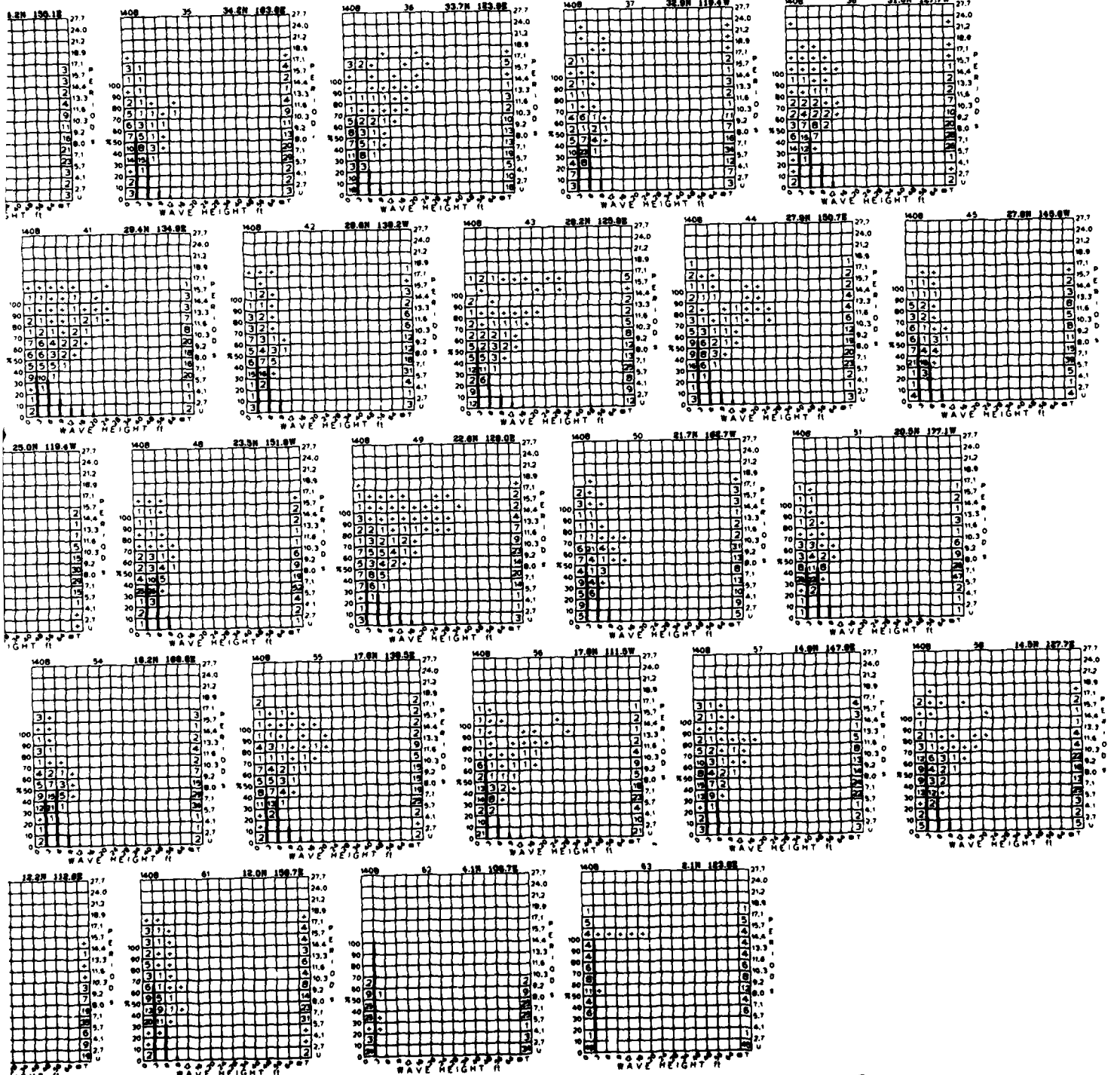

1408 1 64.0N 169.7W
1408 2 59.4N 172.0W
1408 3 56.5N 151.6W
1408 4 56.8N 174.8E
1408 5
1408 7 53.4N 164.7E
1408 8 52.0N 172.9E
1408 9 51.7N 150.6E
1408 10 51.7N 135.6W
1408 11 51.3N 159.8W
1408 14 49.3N 176.1E
1408 15 49.0N 128.4W
1408 16 47.1N 161.2E
1408 17 45.8N 139.3E
1408 18
1408 20 44.2N 158.7W
1408 21 43.7N 128.7W
1408 22 42.8N 167.5W
1408 23 42.4N 172.1E
1408 24 41.0N 134.8W
1408 27 38.2N 157.4W
1408 28 38.1N 123.8W
1408 29 35.8N 171.0W
1408 30 35.7N 178.1E
1408 31
WAVE HEIGHT ft
PERIOD sec

WAVE HEIGHT AND PERIOD



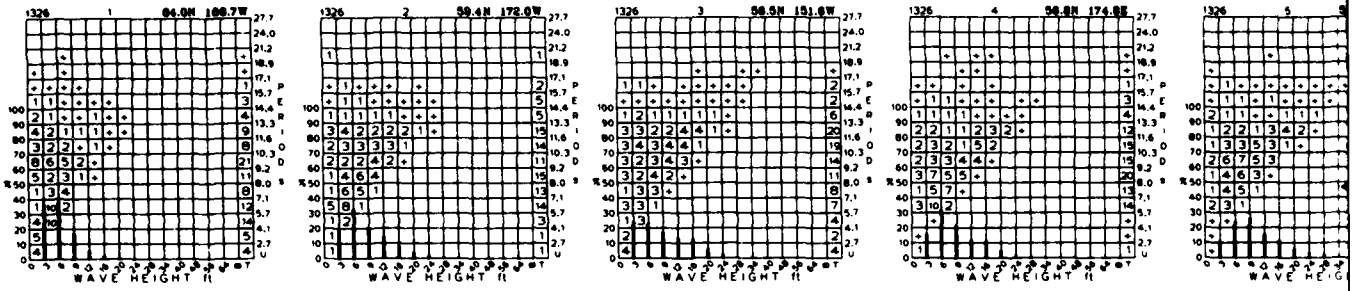
WAVE HEIGHT AND PERIOD (Cont'd)

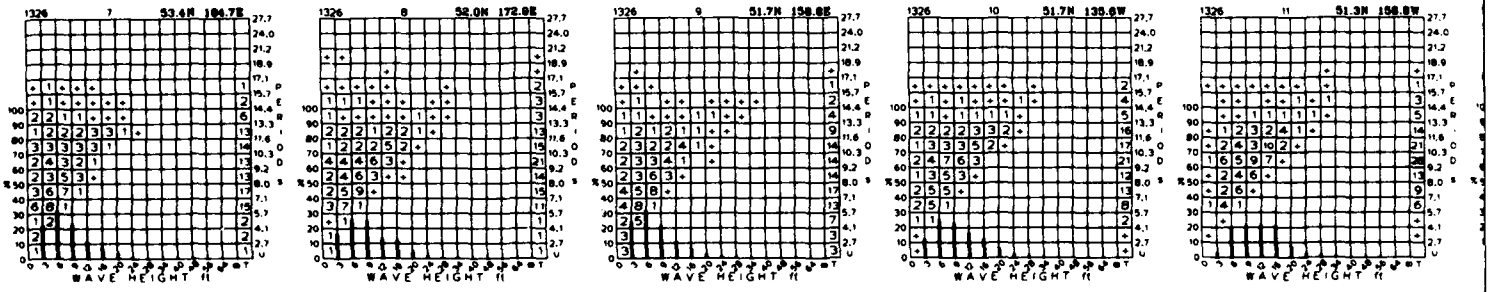


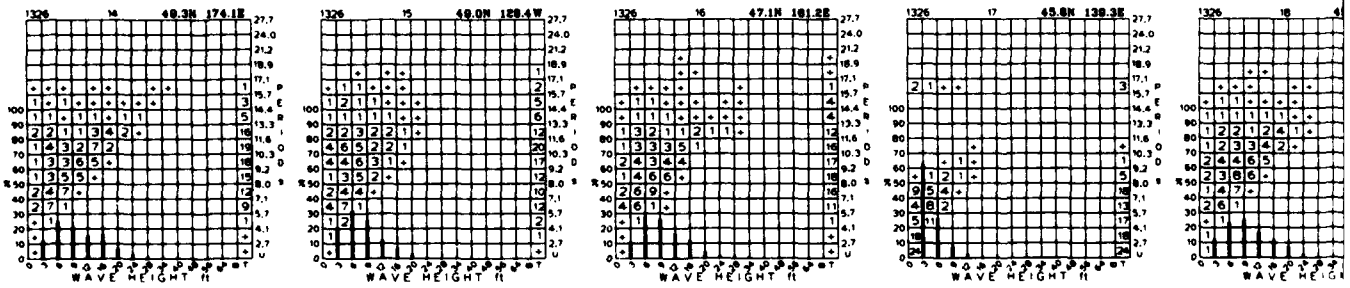

1408 35 34.2N 103.9E
1408 36 33.7N 103.9E
1408 37 32.9N 119.4W
1408 38 31.9N 127.7W
1408 41 29.4N 134.9E
1408 42 29.8N 138.2W
1408 43 29.2N 129.9E
1408 44 27.9N 150.7E
1408 45 27.0N 145.6W
1408 48 23.5N 151.9W
1408 49 22.6N 139.9E
1408 50 21.7N 165.7W
1408 51 20.9N 177.1W
1408 54 18.2N 166.6E
1408 55 17.9N 139.5E
1408 56 17.9N 111.9W
1408 57 14.9N 147.9E
1408 58 14.9N 127.7E
1408 61 12.0N 159.7E
1408 62 11.1N 139.7E
1408 63 8.1N 153.9E
WAVE HEIGHT ft
PERIOD sec

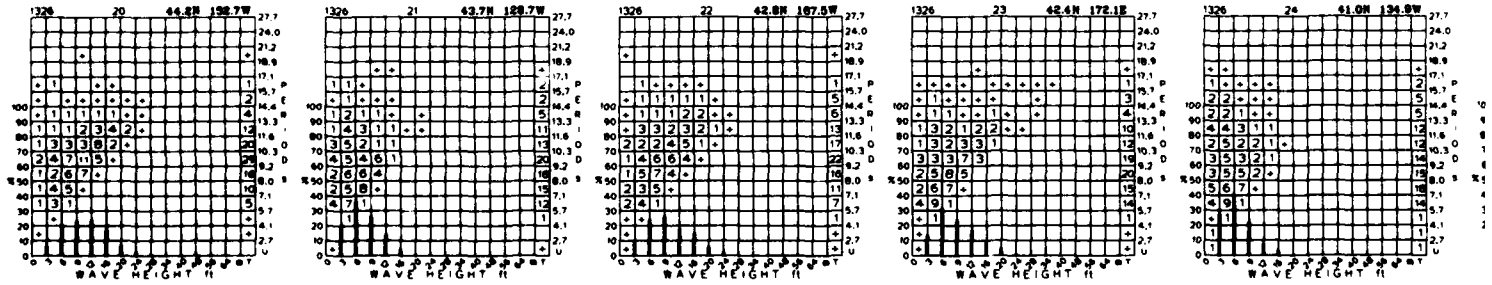
SEPTEMBER

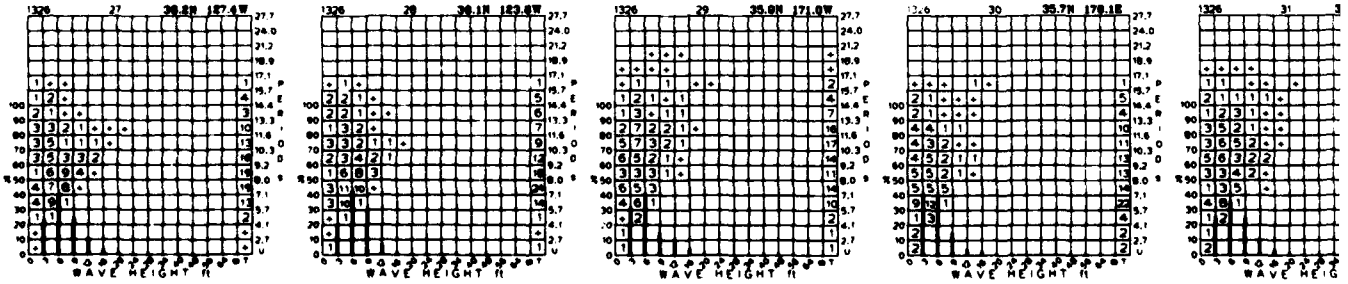
WAVE



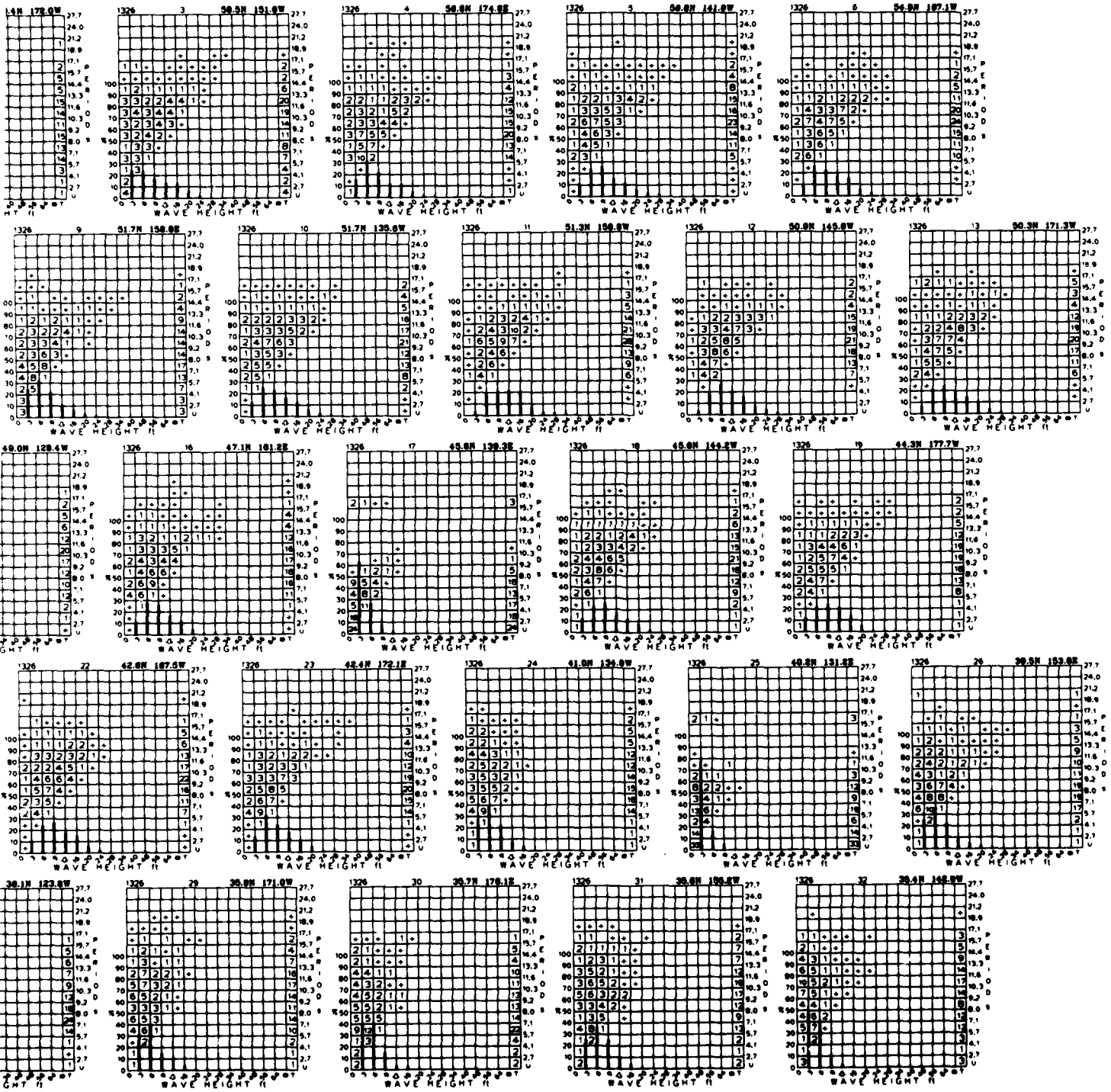




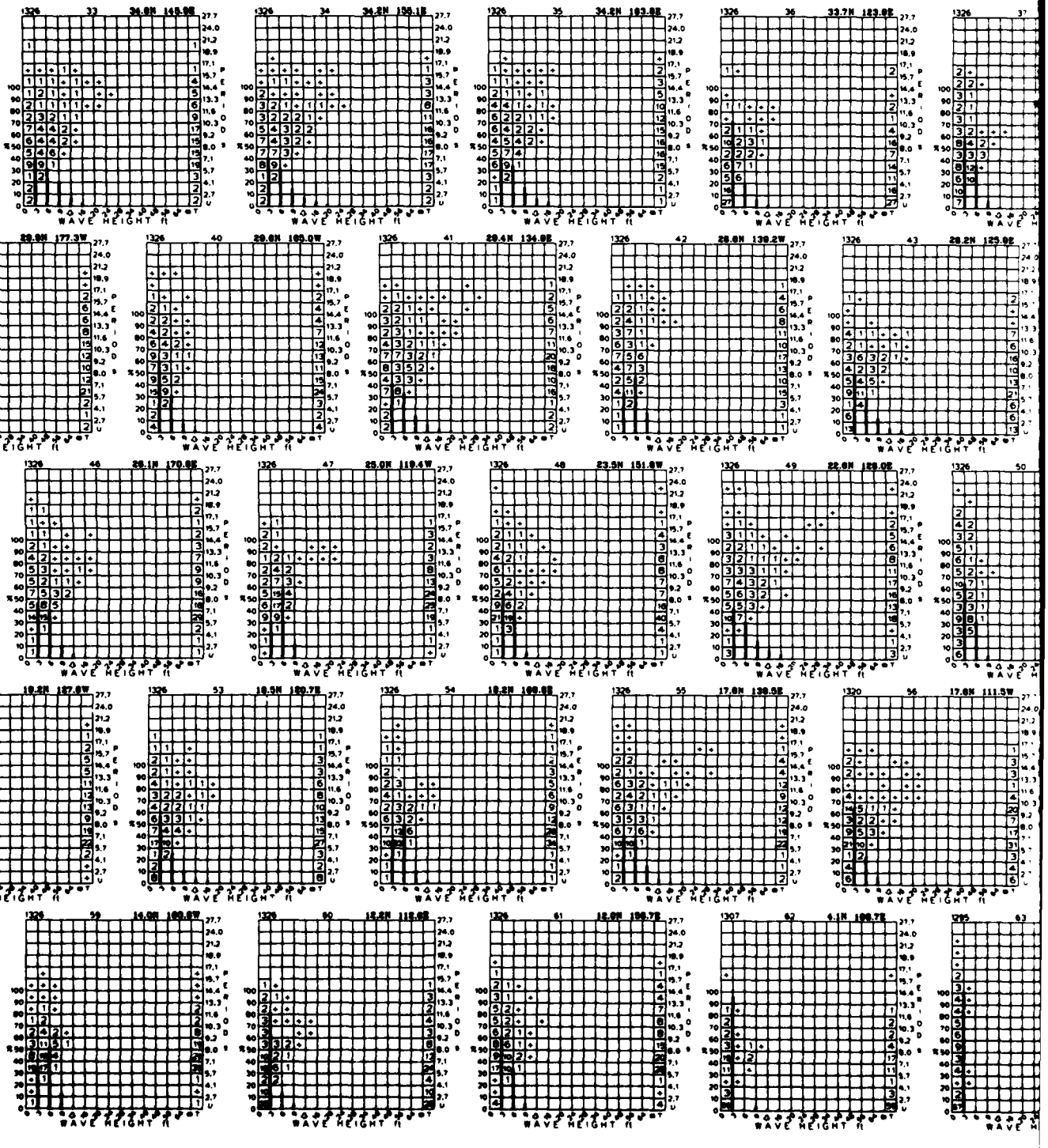




WAVE HEIGHT AND PERIOD

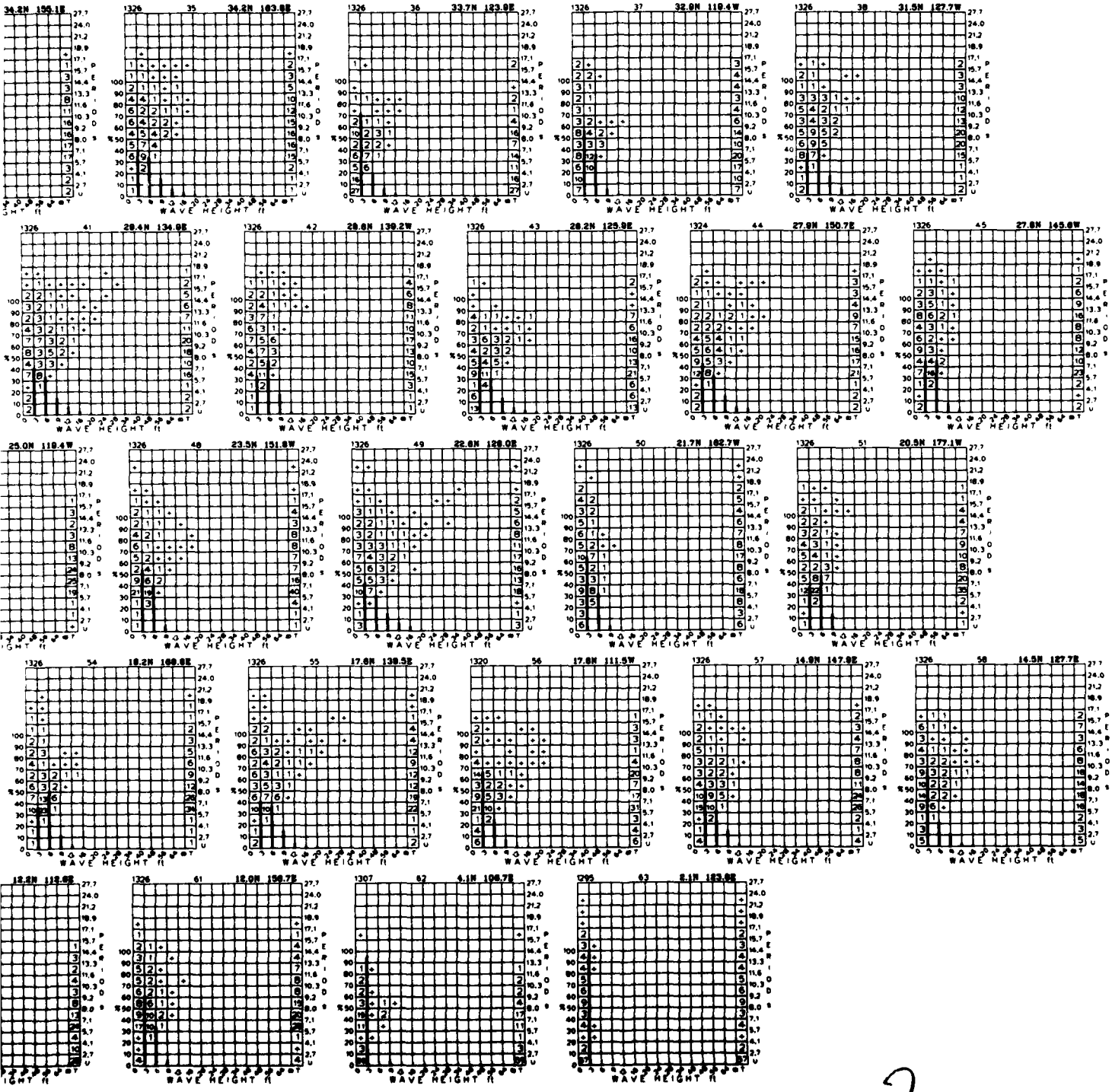


WAVE HEIGHT AND PERIOD (Cont'd)



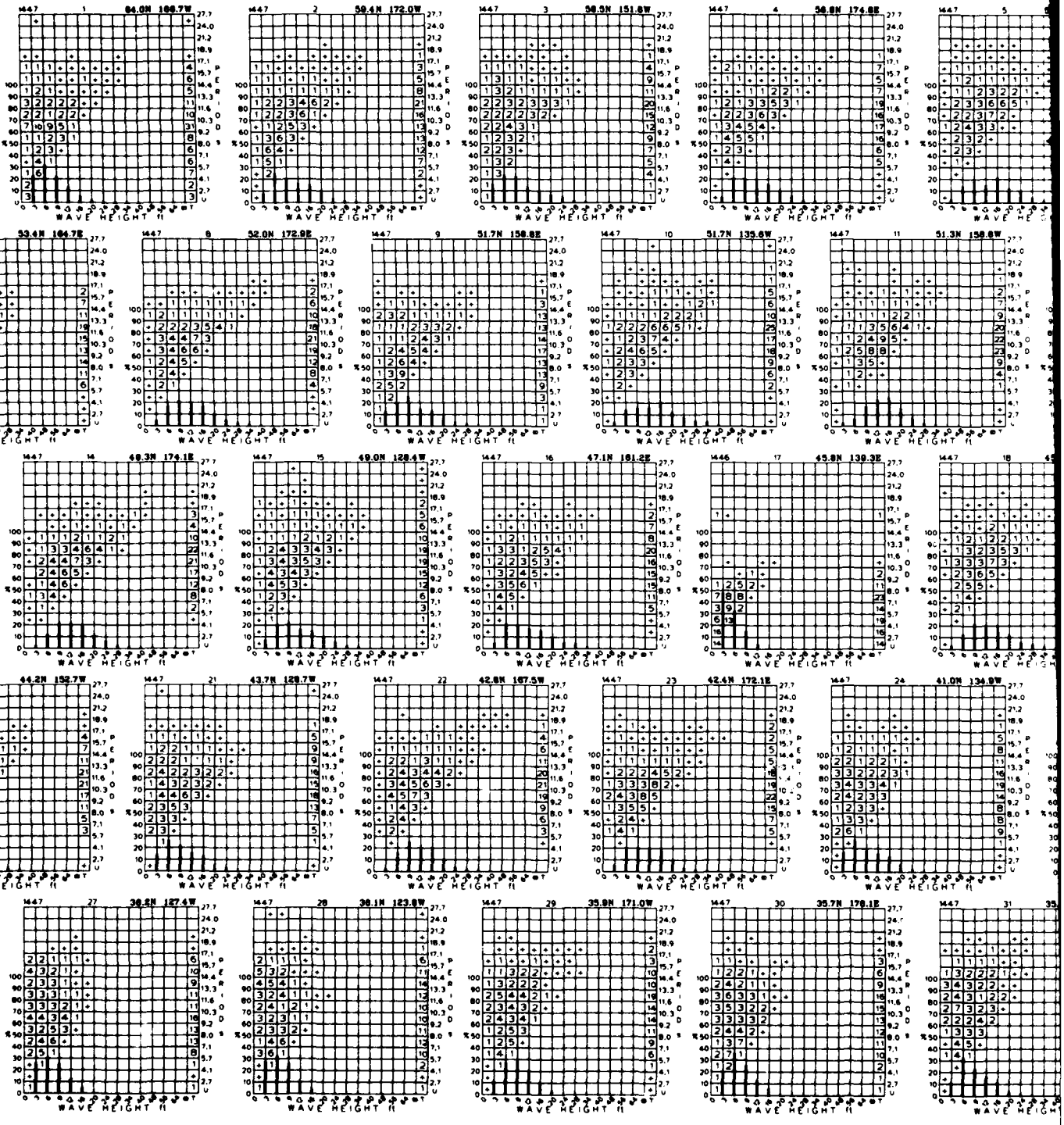
OD (Cont'd)

SEPTEMBER

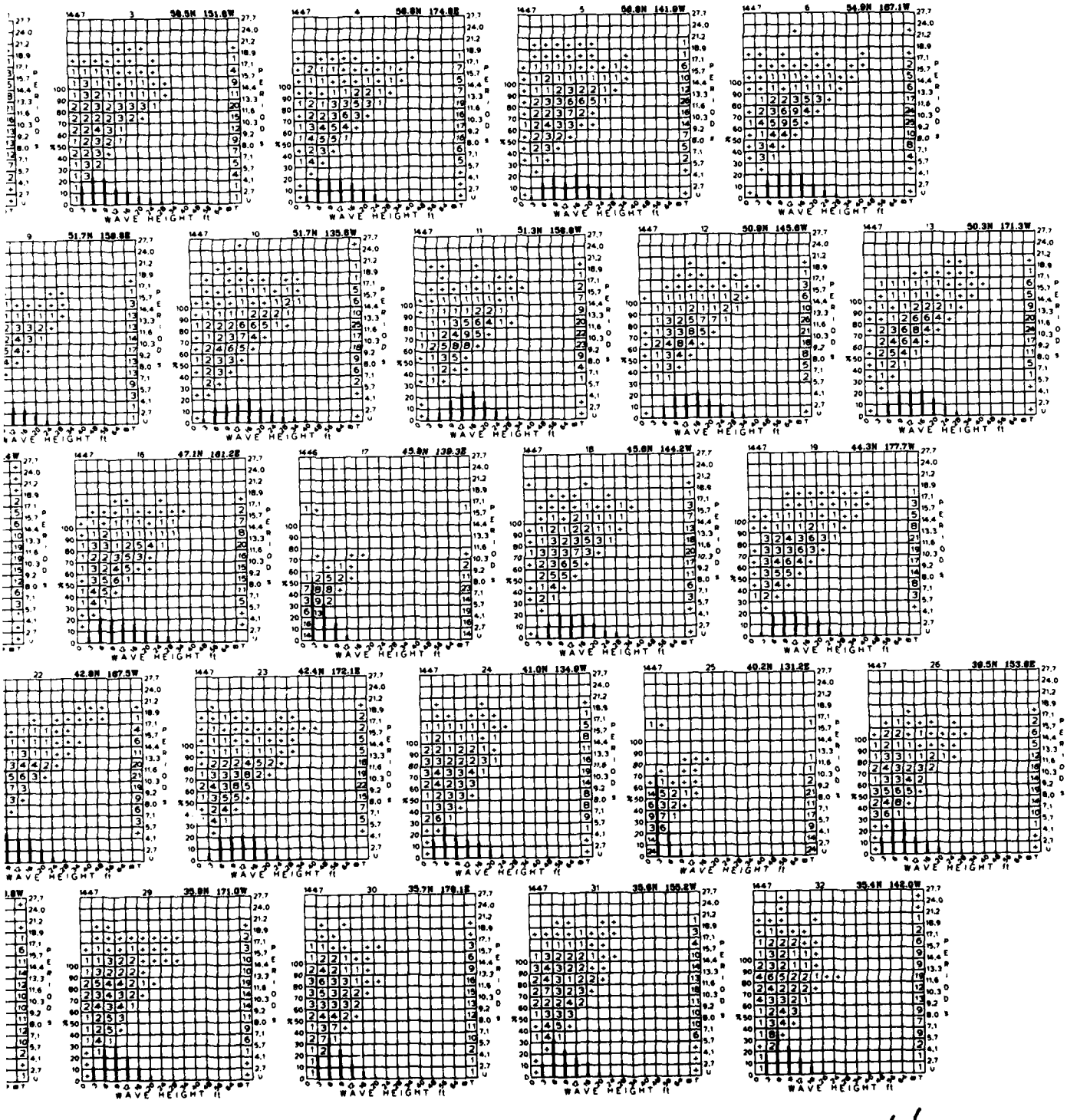


OCTOBER

WAVE

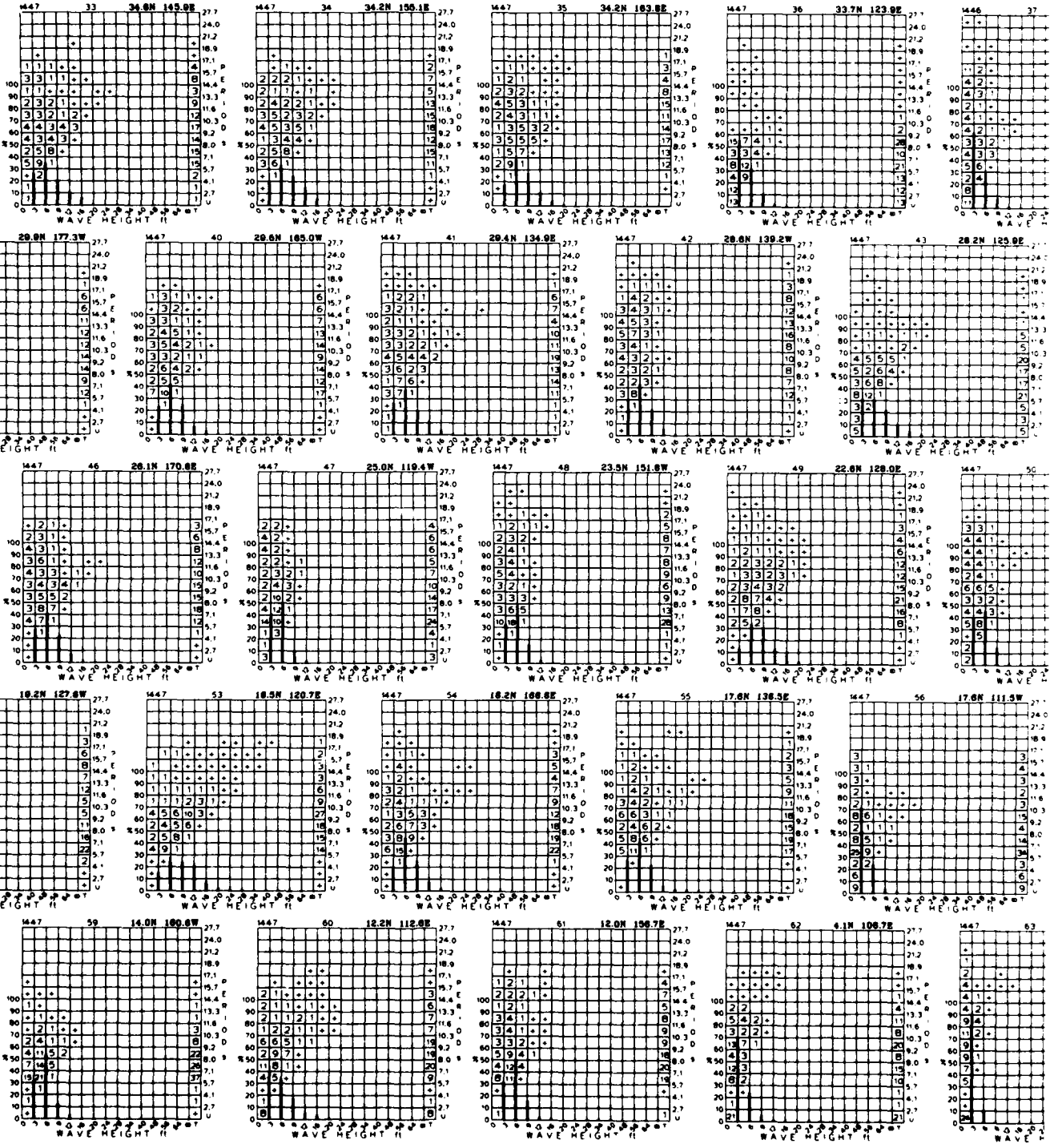


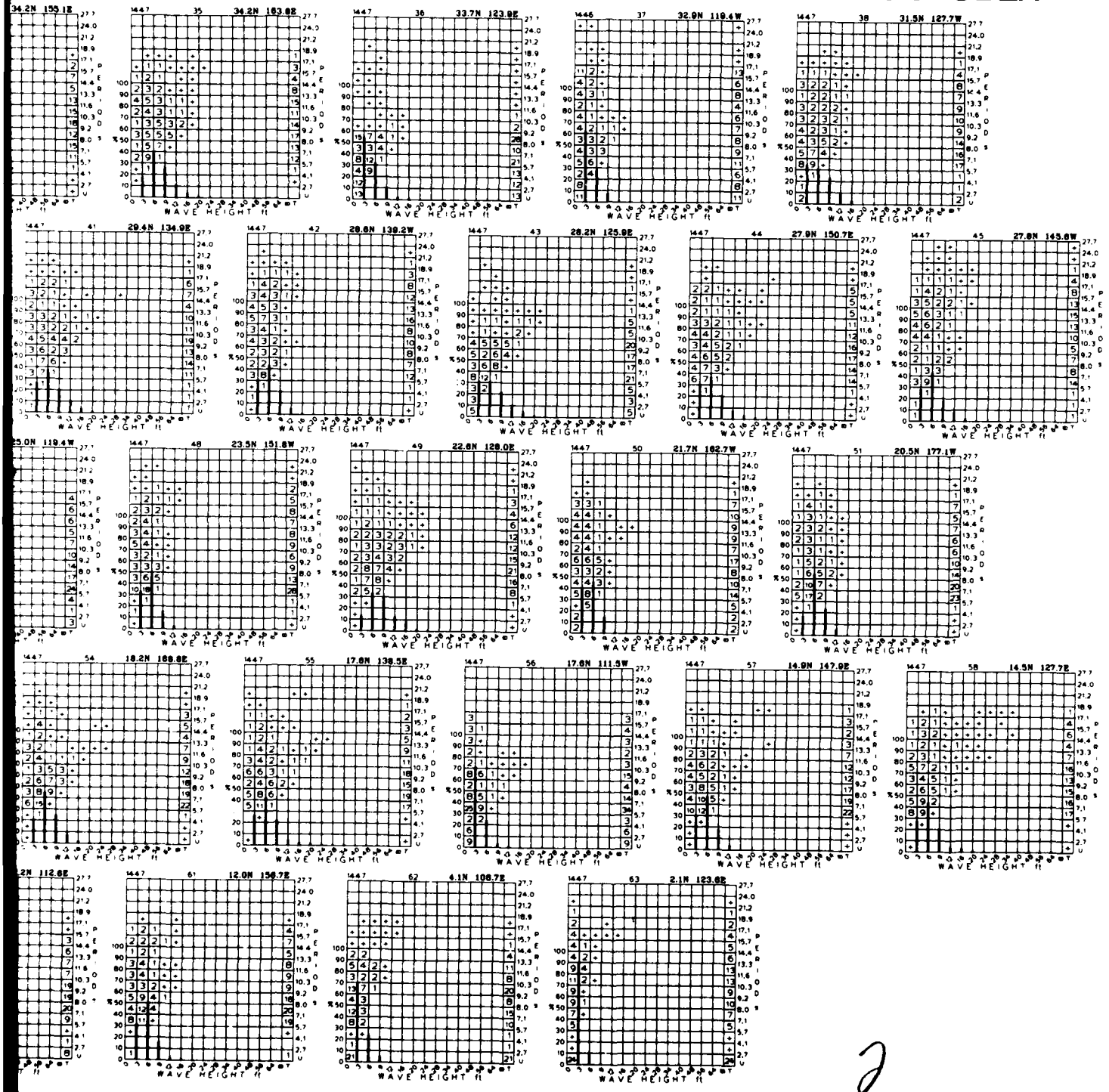
WAVE HEIGHT AND PERIOD



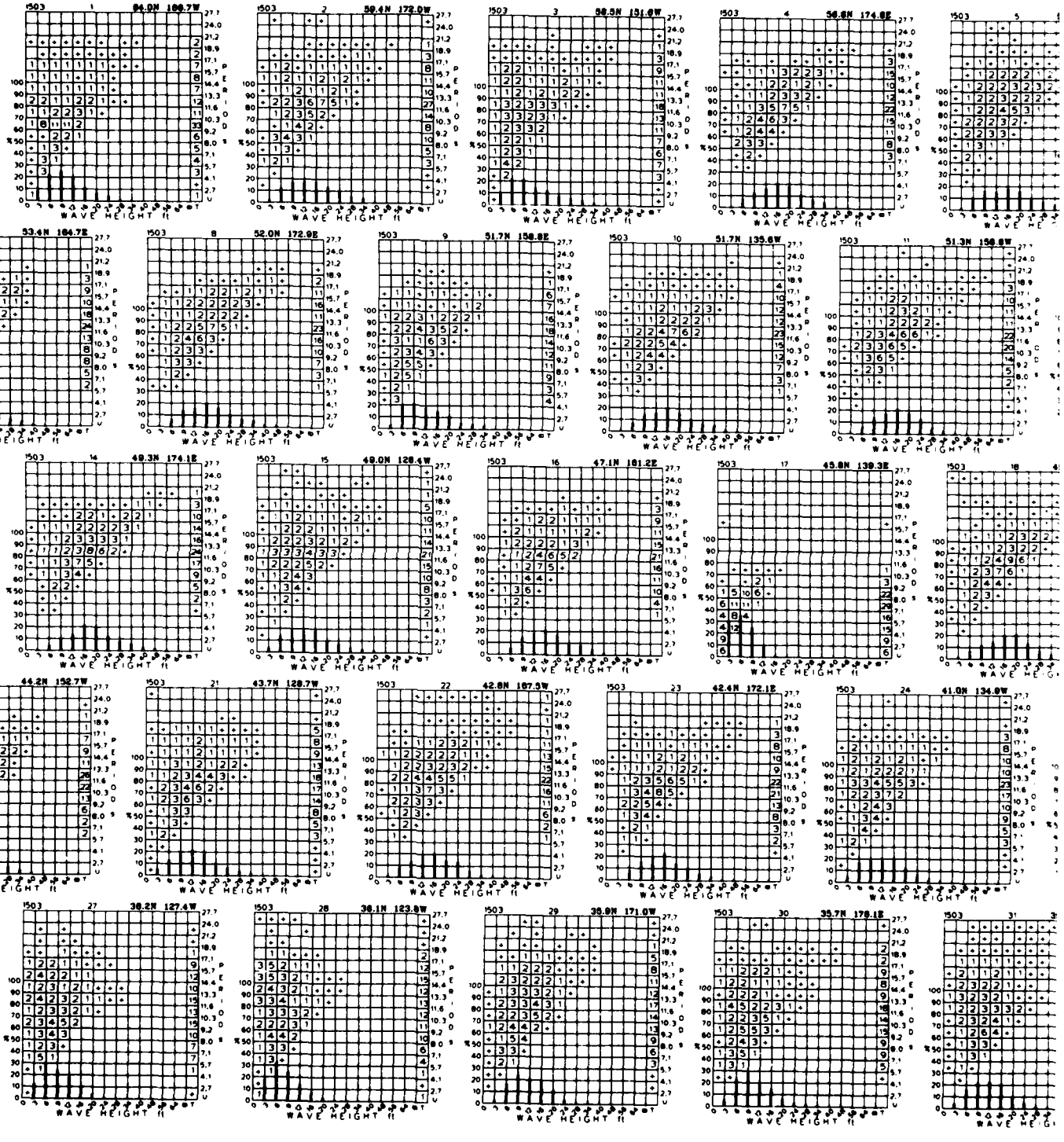
4

WAVE HEIGHT AND PERIOD (Cont'd)

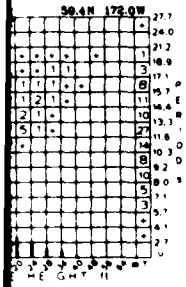


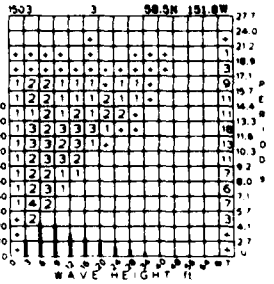

34.2N 159.1E
1447 35 34.2N 163.8E
1447 36 33.7N 123.8E
1446 37 32.9N 118.4W
1447 38 31.5N 127.7W
1447 41 29.4N 134.9E
1447 42 28.8N 139.2W
1447 43 28.2N 125.9E
1447 44 27.9N 150.7E
1447 45 27.8N 145.8W
25.0N 119.4W
1447 48 23.5N 151.8W
1447 49 22.8N 128.0E
1447 50 21.7N 162.7W
1447 51 20.5N 177.1W
1447 54 18.2N 168.8E
1447 55 17.8N 138.5E
1447 56 17.6N 111.5W
1447 57 14.9N 147.0E
1447 58 14.5N 127.7E
2N 112.6E
1447 61 12.0N 156.7E
1447 62 4.1N 108.7E
1447 63 2.1N 123.6E
WAVE HEIGHT ft

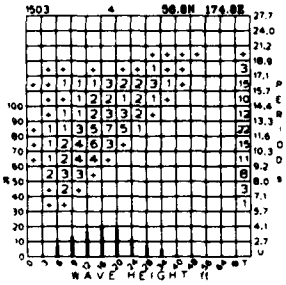
NOVEMBER

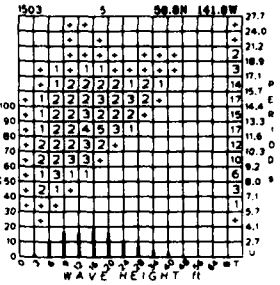

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1503 2 59.4N 172.0W
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1503 4 56.6N 174.8E
1503 5
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1503 8 52.0N 172.9E
1503 9 51.7N 158.8E
1503 10 51.7N 135.6W
1503 11 51.3N 156.8W
1503 14 49.3N 174.1E
1503 15 49.0N 128.4W
1503 16 47.1N 161.2E
1503 17 45.8N 139.3E
1503 18
1503 20 44.2N 152.7W
1503 21 43.7N 129.7W
1503 22 42.8N 167.5W
1503 23 42.6N 172.1E
1503 24 41.0N 134.0W
1503 27 38.2N 127.4W
1503 28 38.1N 123.8W
1503 29 38.0N 171.0W
1503 30 35.7N 178.1E
1503 31
WAVE HEIGHT ft
PERIOD sec

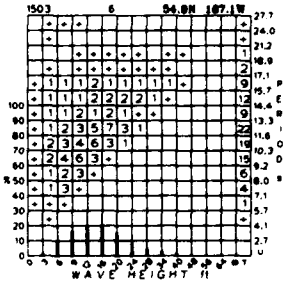
WAVE HEIGHT AND PERIOD

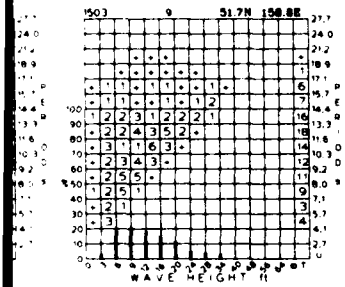


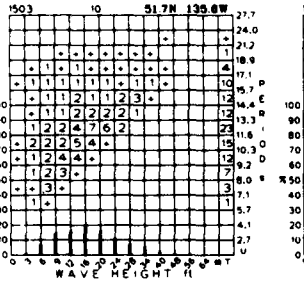


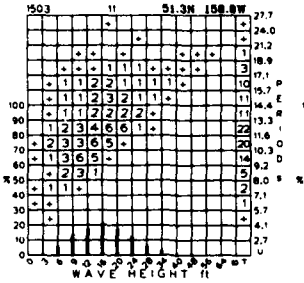


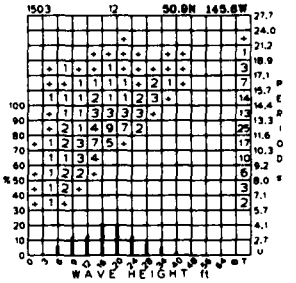


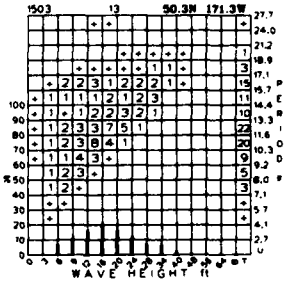


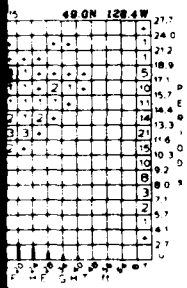


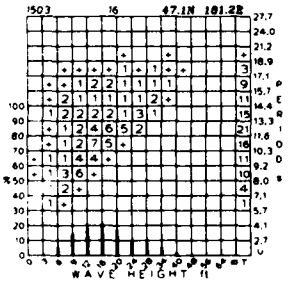


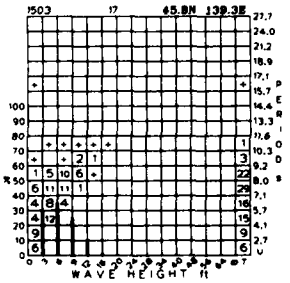


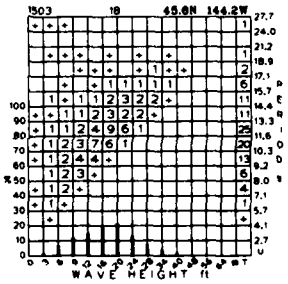


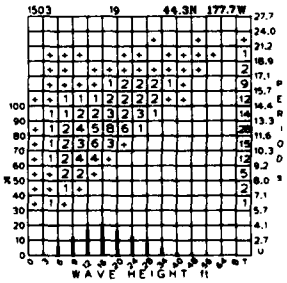


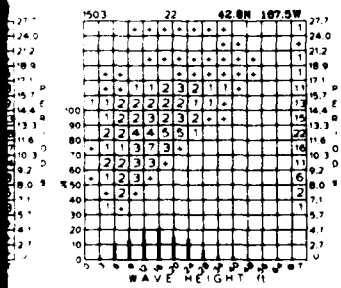


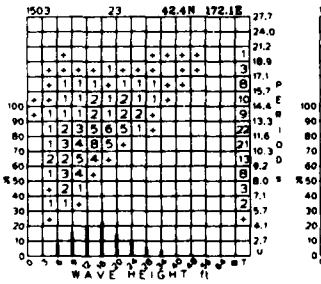


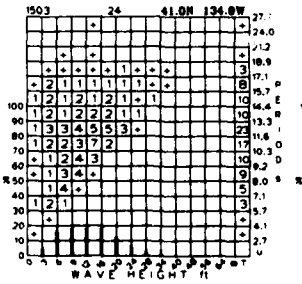


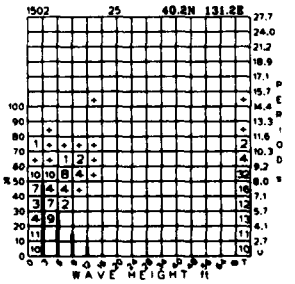


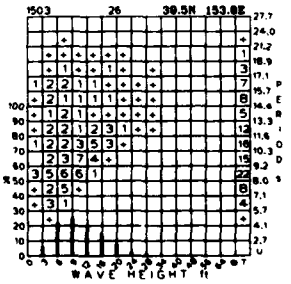


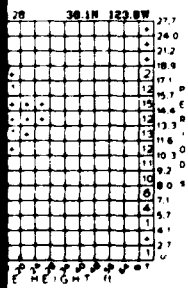


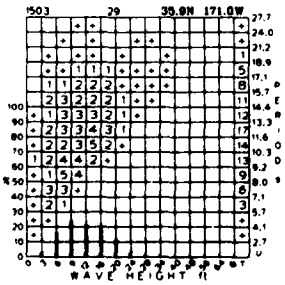


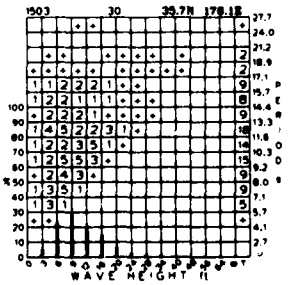


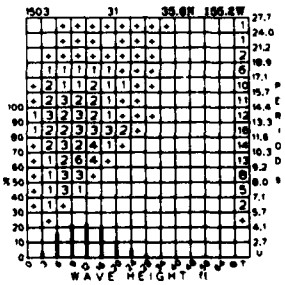


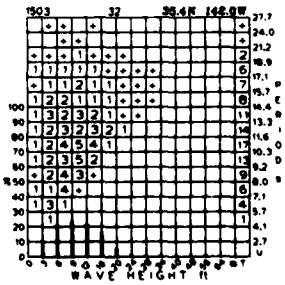






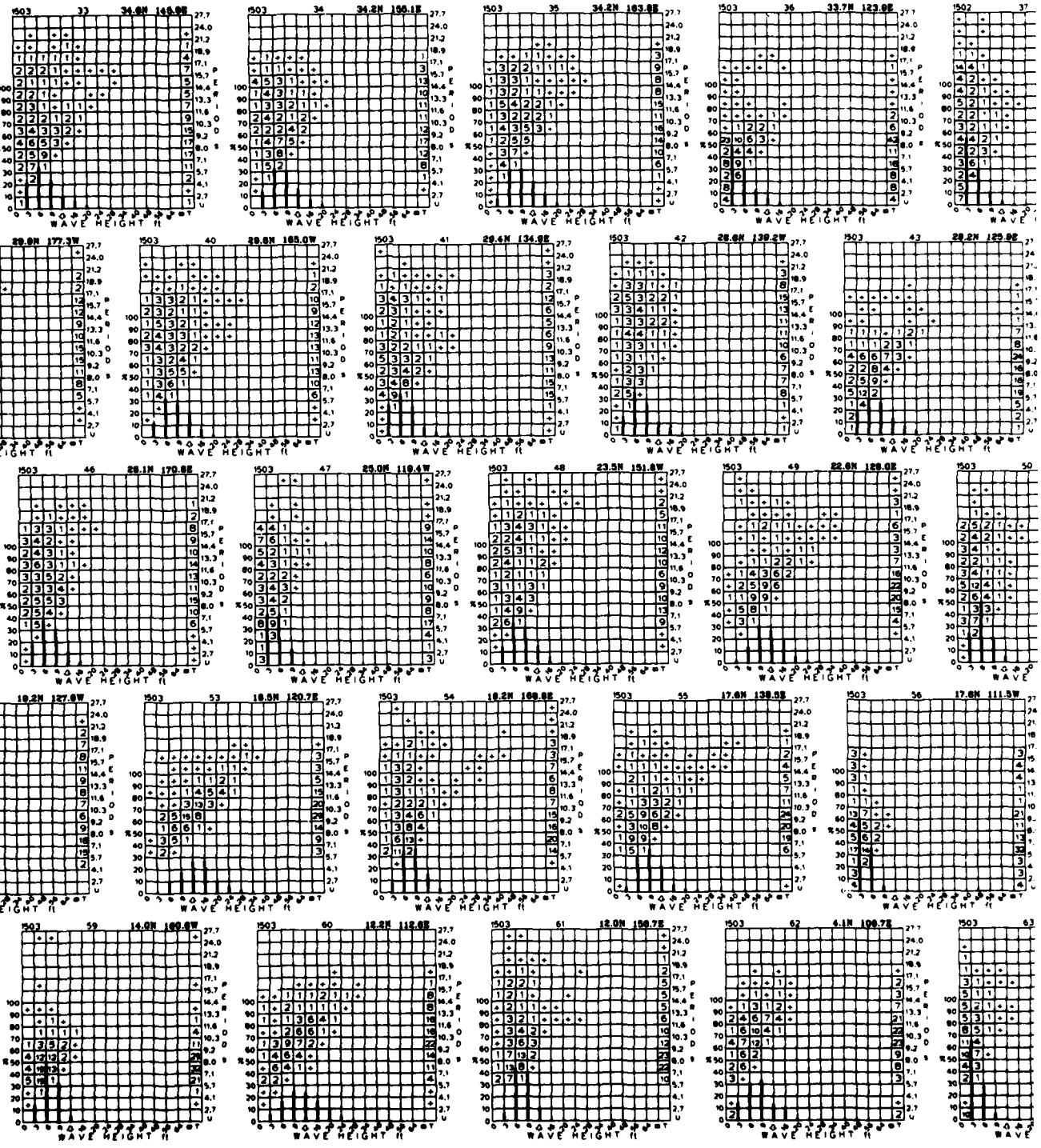




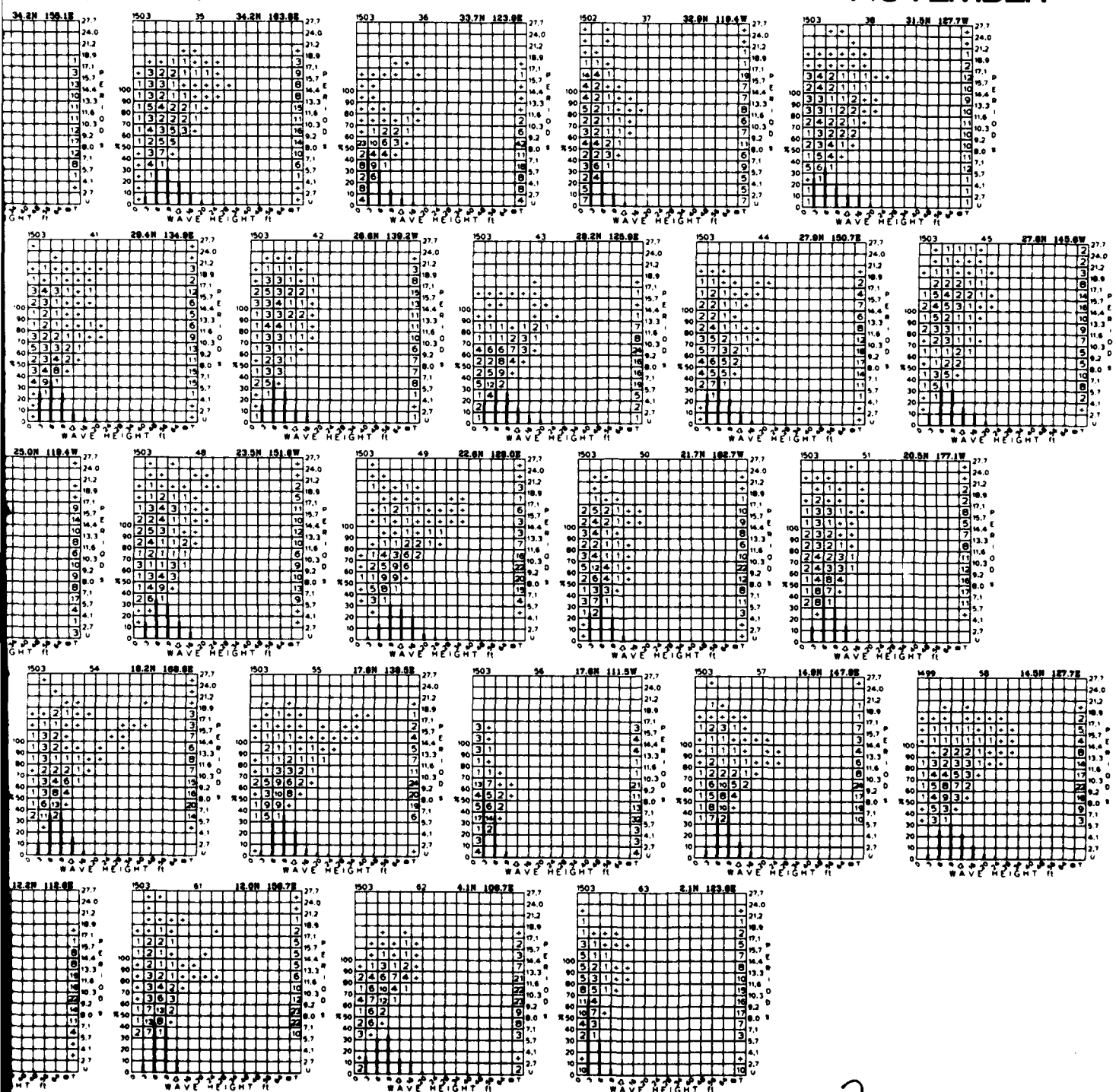


4

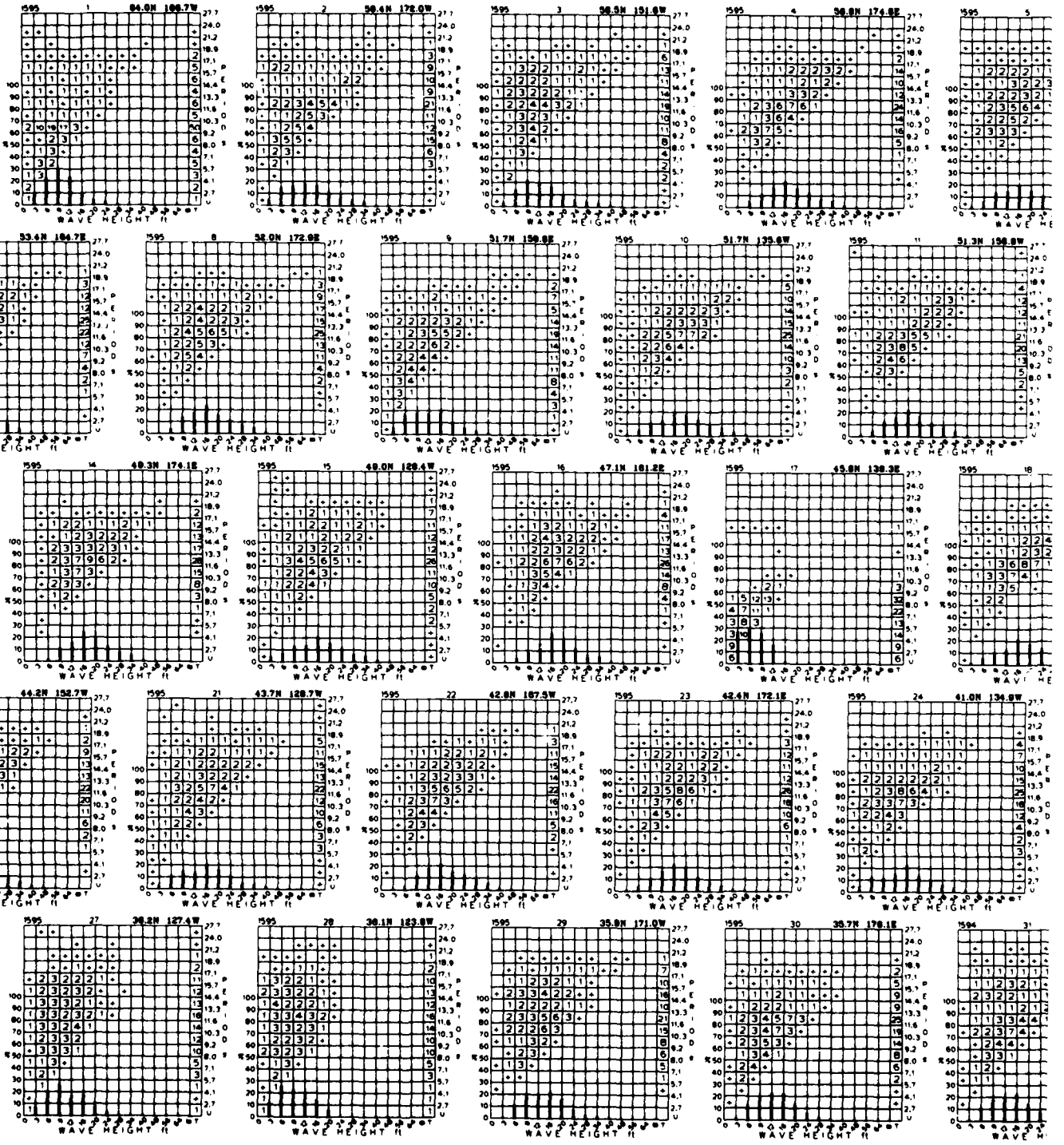
WAVE HEIGHT AND PERIOD (Cont'd)



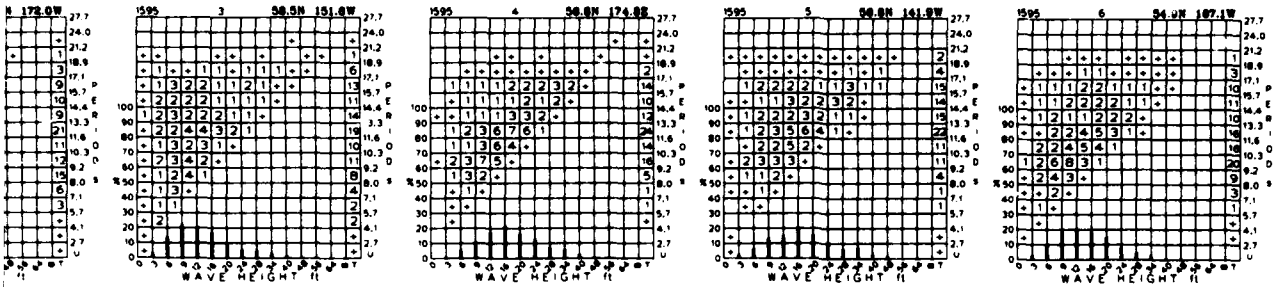
NOVEMBER

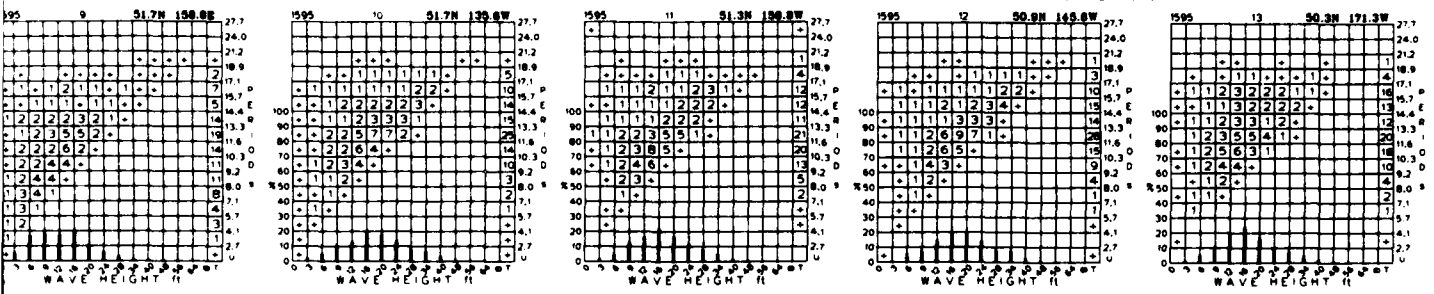

WAVE HEIGHT ft
PERCENT OCCURRENCE
N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW

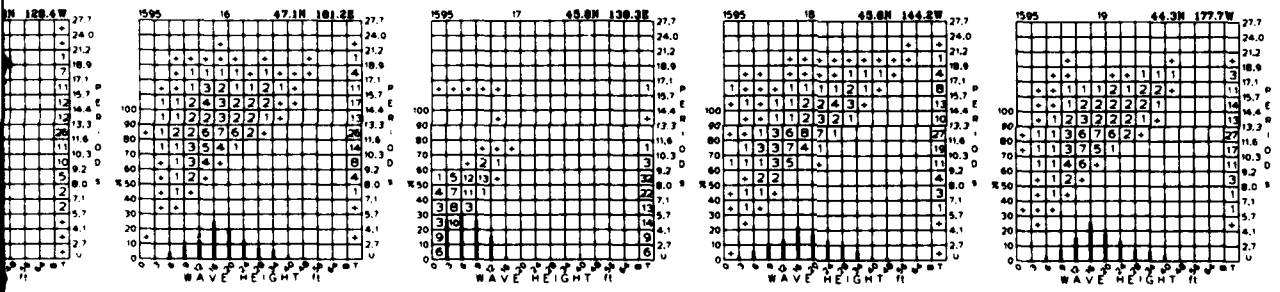
DECEMBER

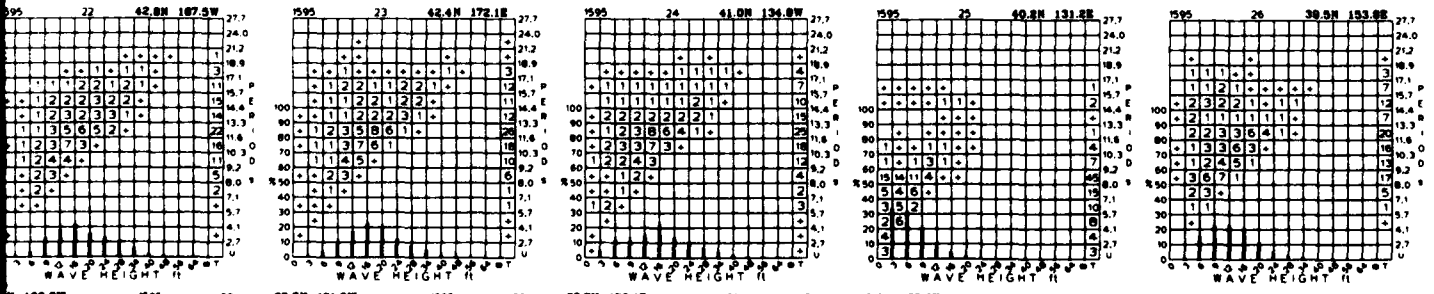

1595 1 64.0N 166.7W
1595 2 58.4N 172.0W
1595 3 56.5N 151.6W
1595 4 56.8N 174.8E
1595 5
1594 7 53.4N 164.7E
1595 8 52.0N 172.8E
1595 9 51.7N 150.8E
1595 10 51.7N 135.8W
1595 11 51.3N 150.8W
1595 14 49.3N 174.1E
1595 15 49.0N 128.4W
1595 16 47.1N 161.2E
1595 17 45.8N 138.3E
1595 18
1595 20 44.2N 152.7W
1595 21 43.7N 128.7W
1595 22 42.8N 167.5W
1595 23 42.4N 172.1E
1595 24 41.0N 134.8W
1595 27 36.2N 127.4W
1595 28 36.1N 123.8W
1595 29 35.9N 171.0W
1595 30 35.7N 176.1E
1594 31
WAVE HEIGHT ft

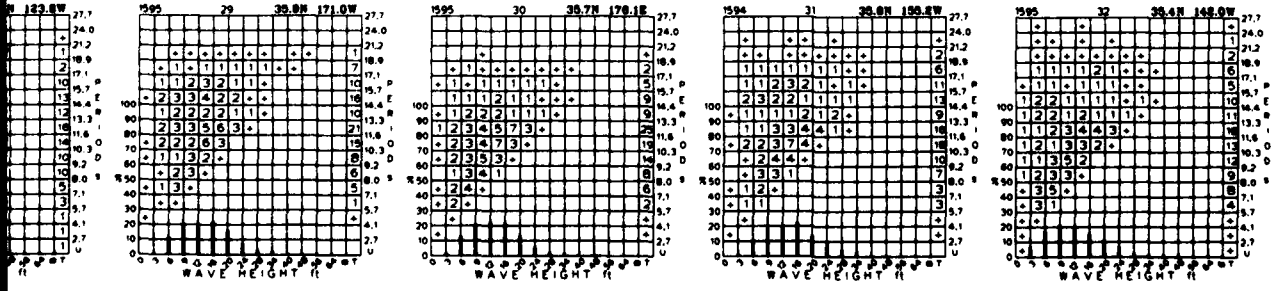
WAVE HEIGHT AND PERIOD



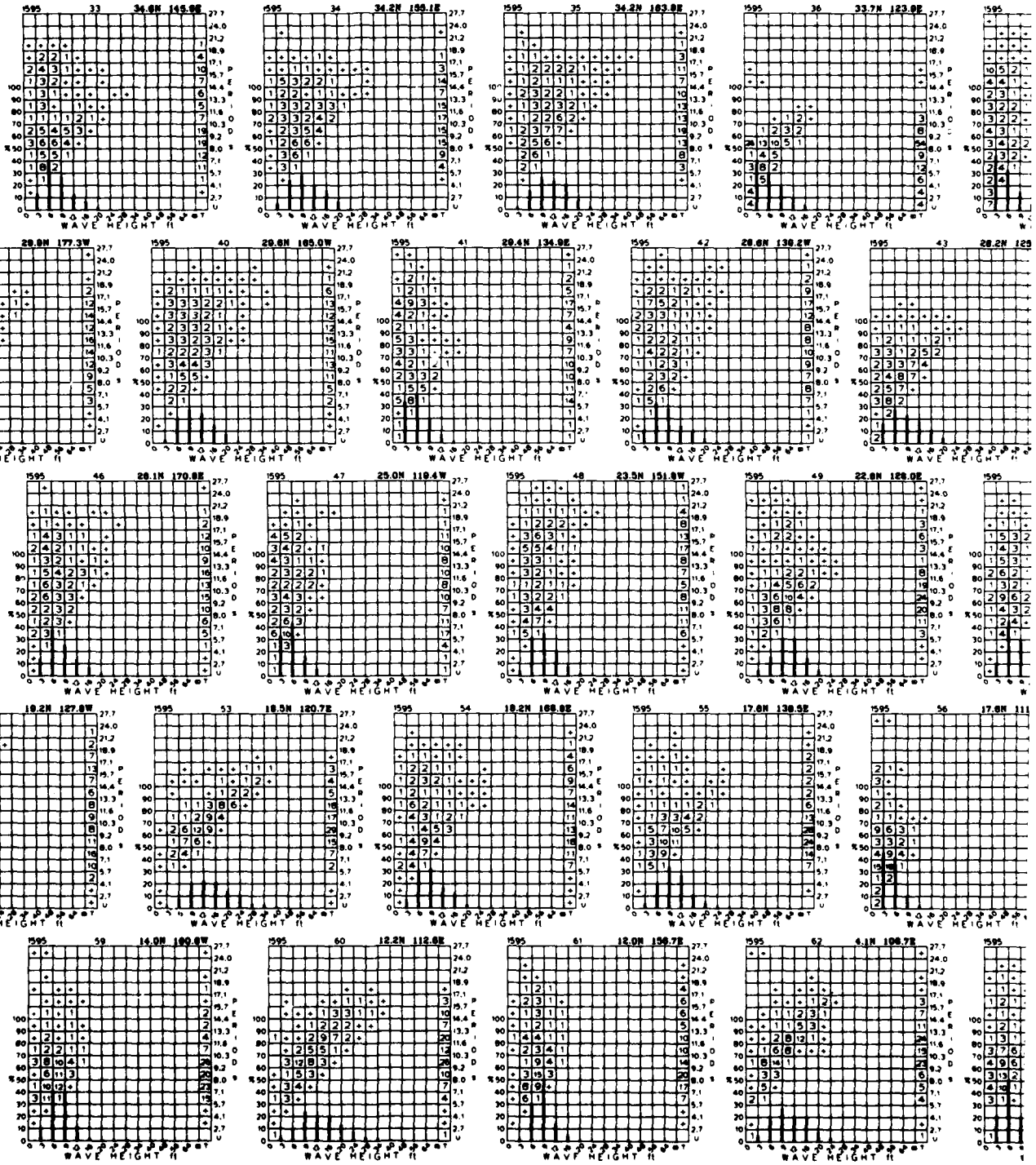






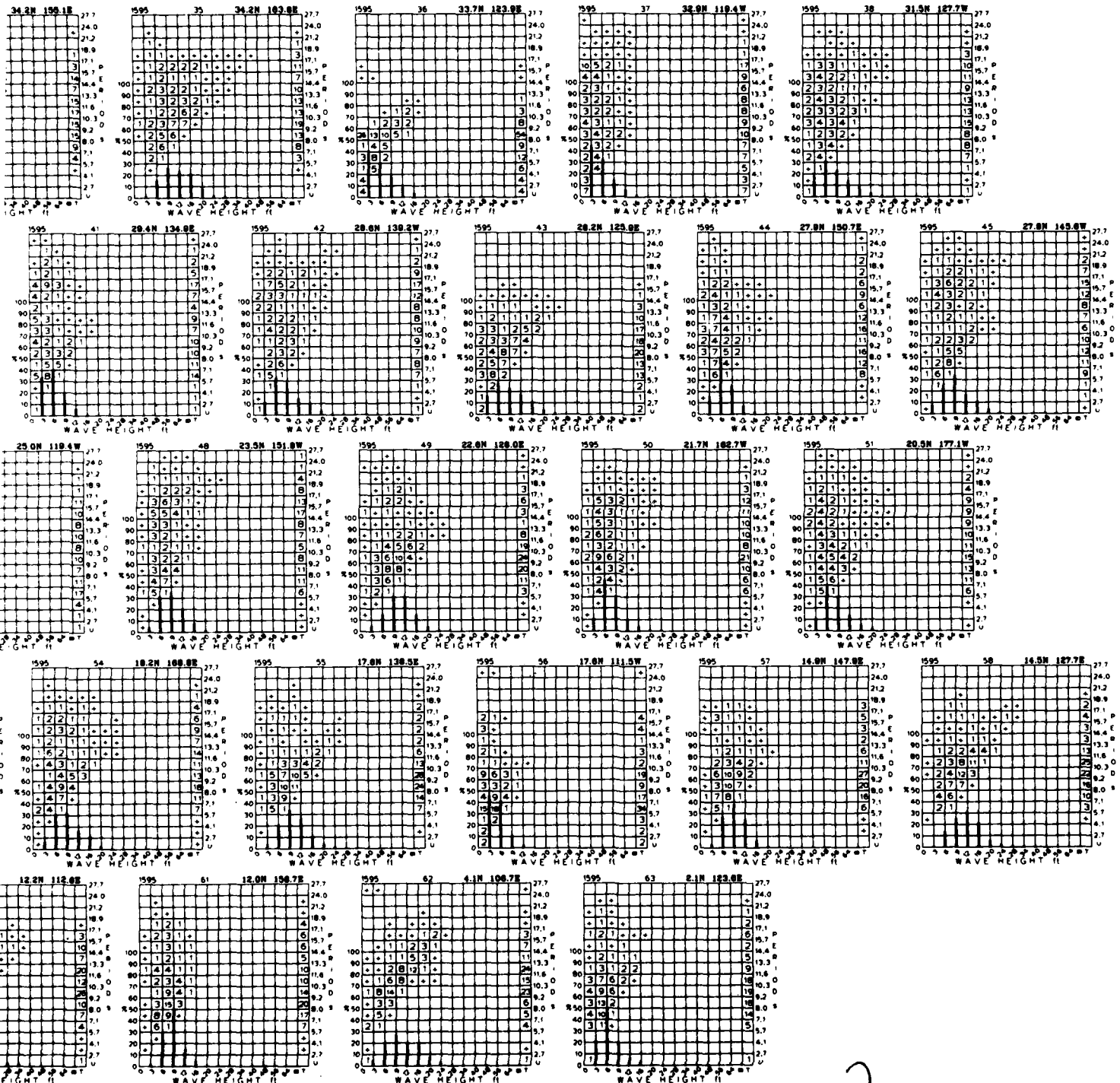


WAVE HEIGHT AND PERIOD (Cont'd)

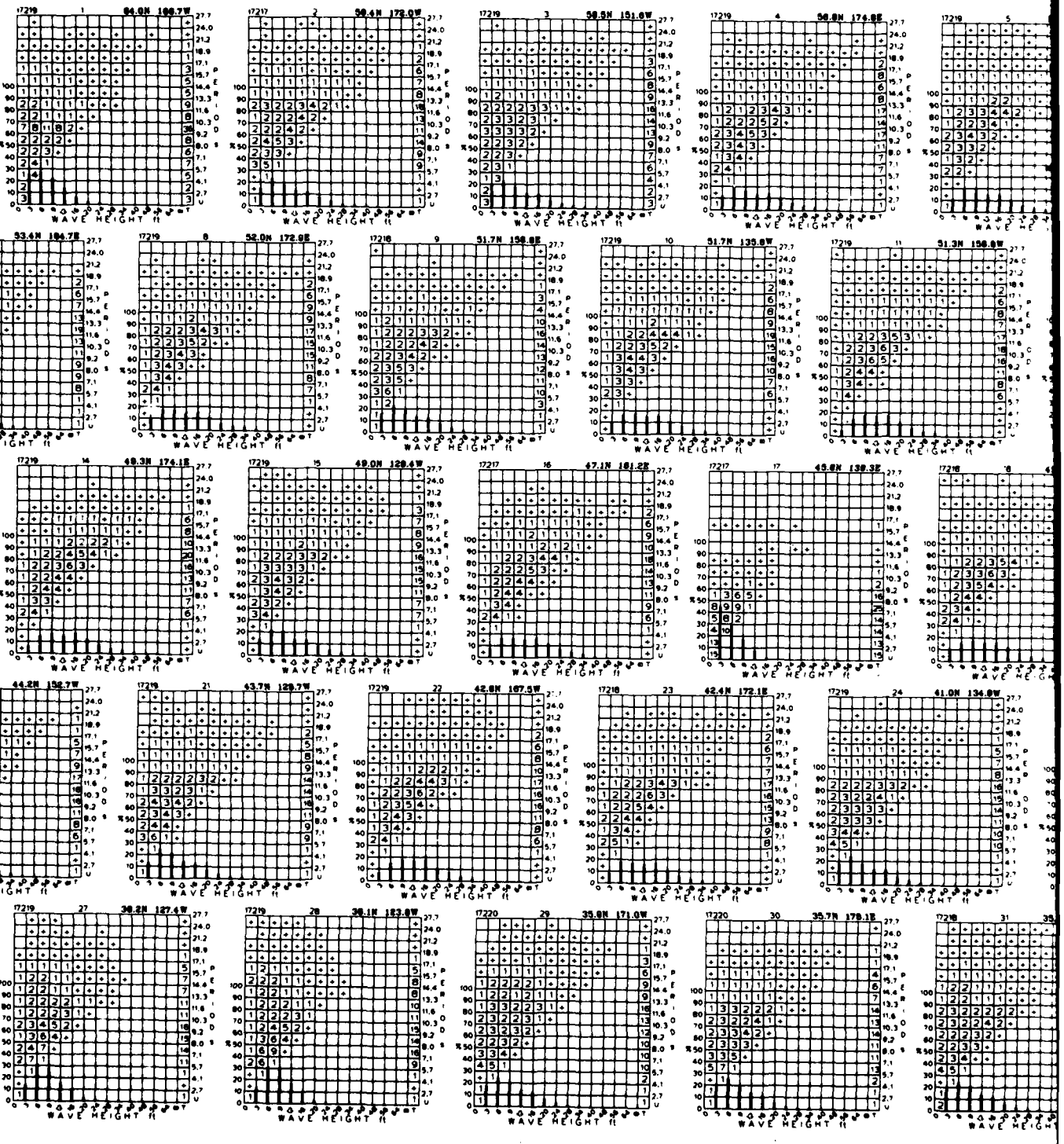


OD (Cont'd)

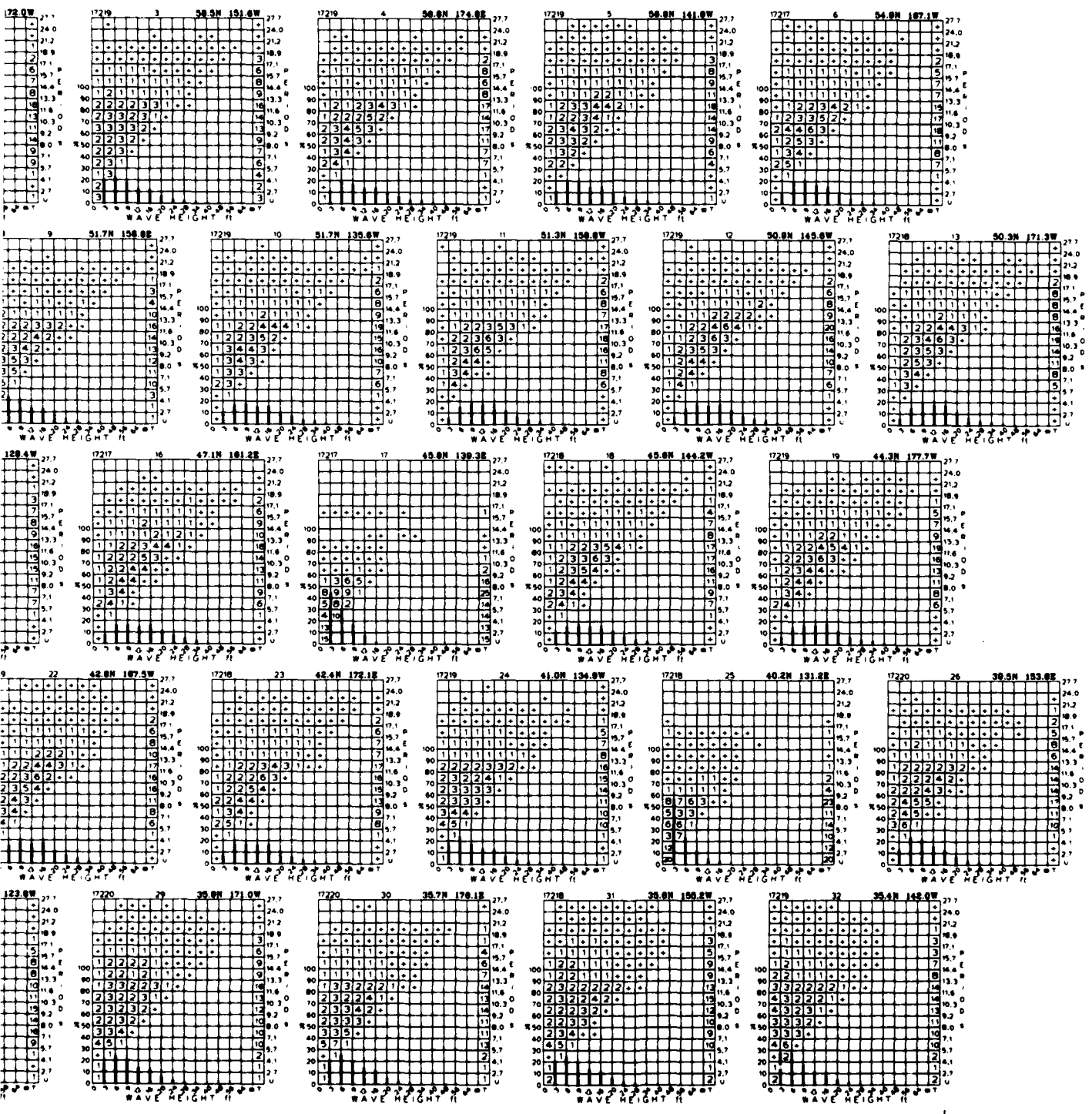
DECEMBER



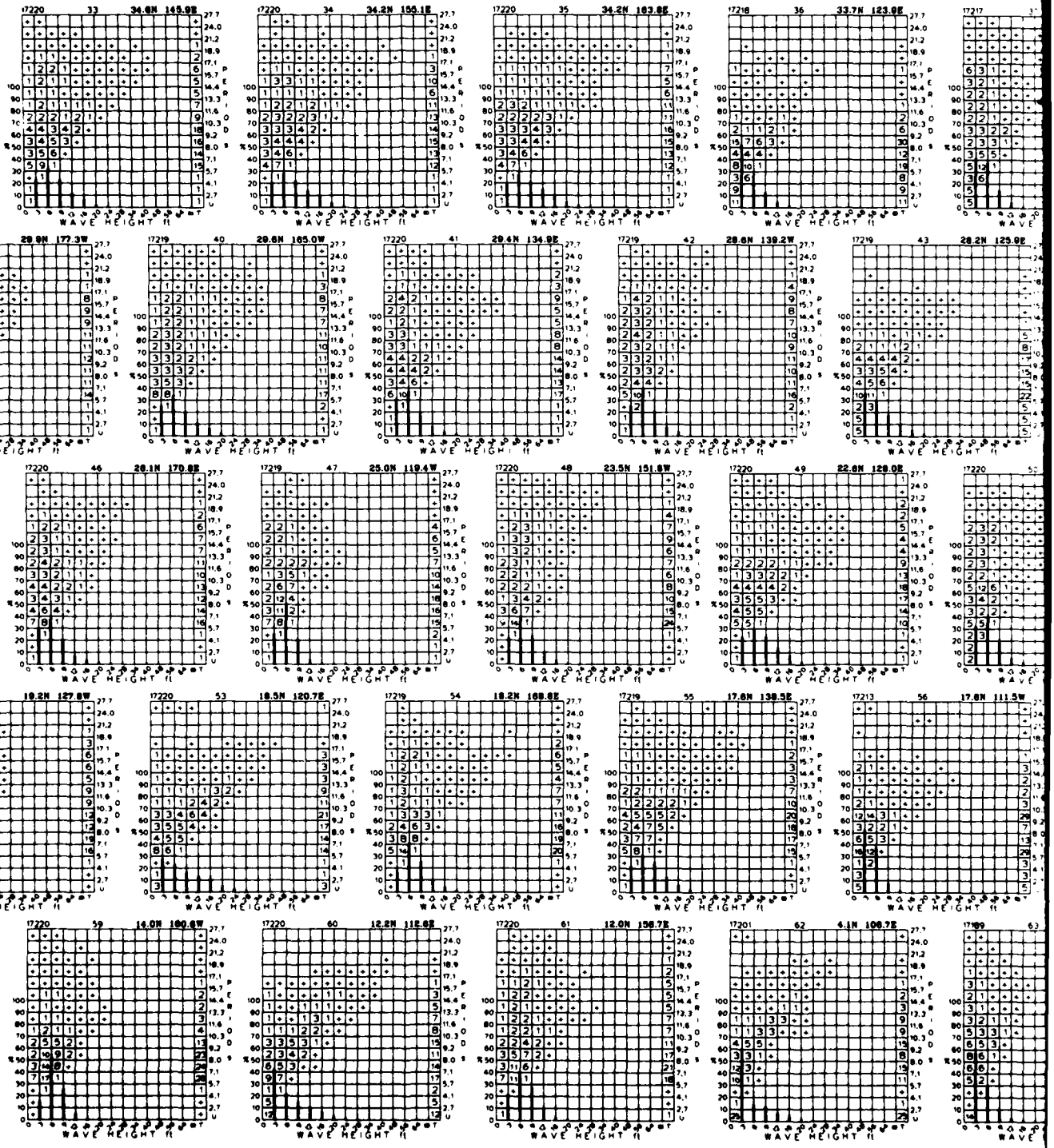
ANNUAL WAVE

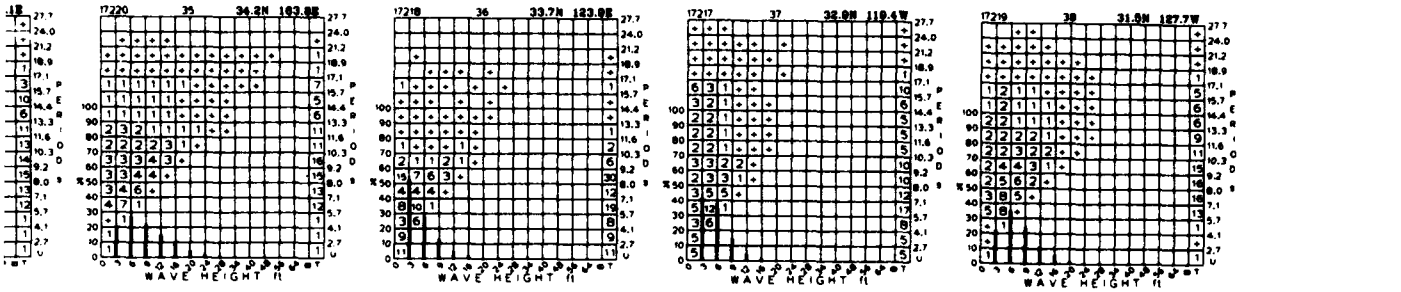

17219 1 64.0N 166.7W
17217 2 59.4N 178.0W
17219 3 58.5N 151.6W
17219 4 56.8N 174.8E
17219 5
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17219 8 52.0N 172.9E
17218 9 51.7N 156.8E
17219 10 51.7N 135.8W
17219 11 51.3N 156.8W
17219 14 48.3N 174.1E
17219 15 49.0N 129.4W
17217 16 47.1N 161.2E
17217 17 46.8N 139.3E
17218 18
17218 20 44.2N 158.7W
17219 21 43.7N 129.7W
17219 22 42.8N 167.5W
17218 23 42.4N 172.1E
17219 24 41.0N 134.8W
17219 27 38.2N 127.4W
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17220 30 35.7N 179.1E
17218 31
WAVE HEIGHT ft

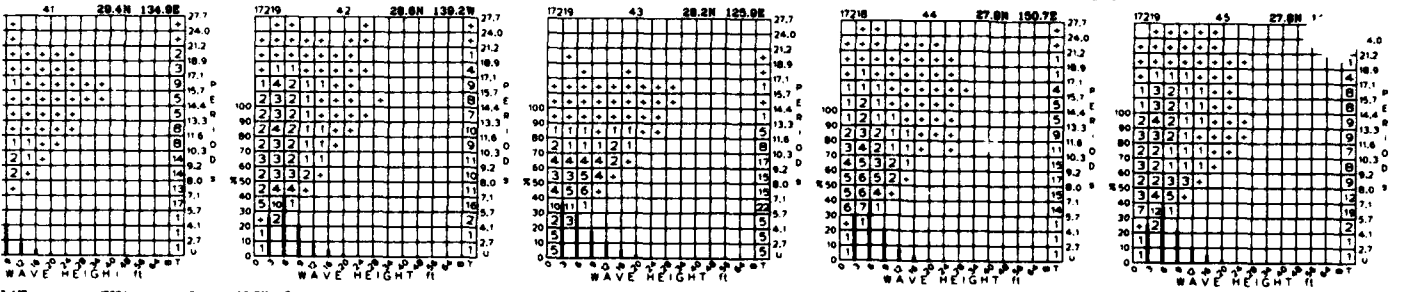
WAVE HEIGHT AND PERIOD

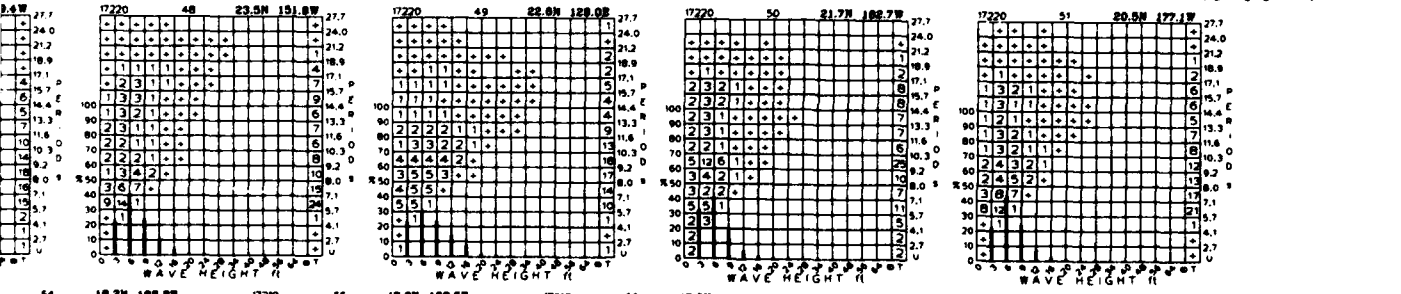


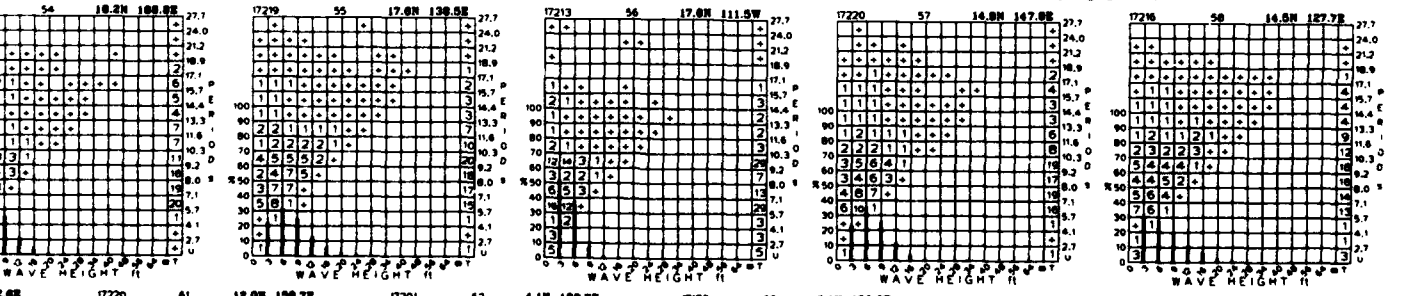
WAVE HEIGHT AND PERIOD (Cont'd)

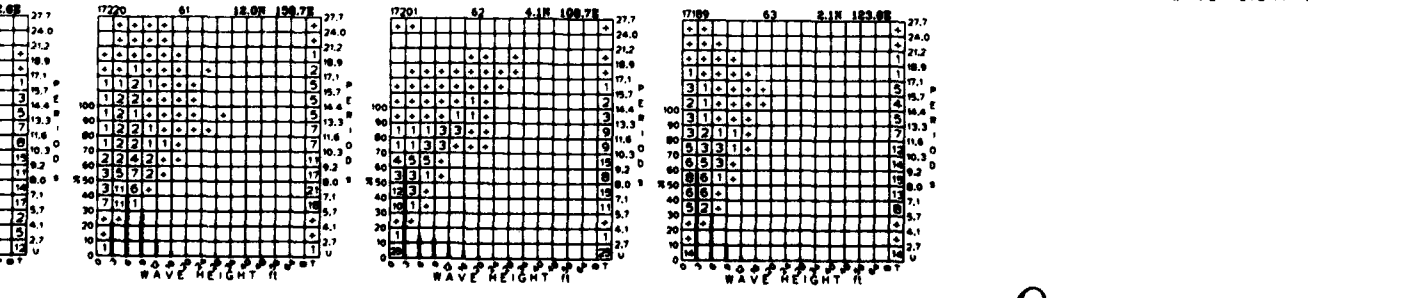






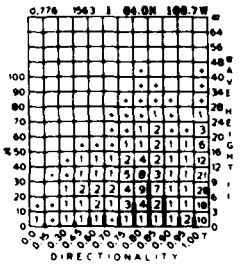


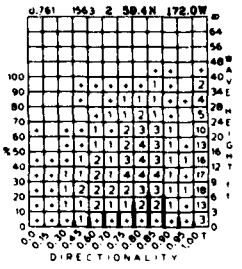


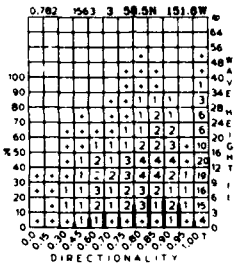


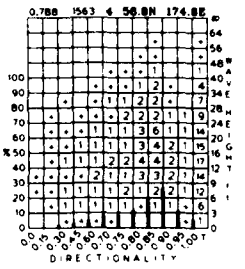
JANUARY

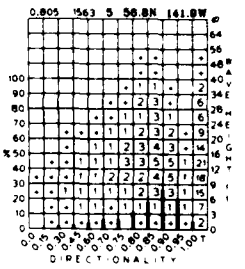
WAVE HEIGHT

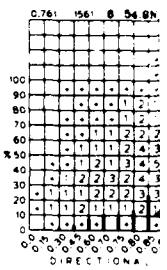


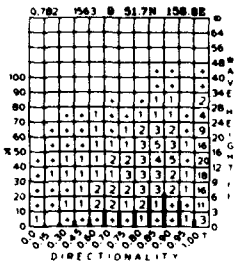


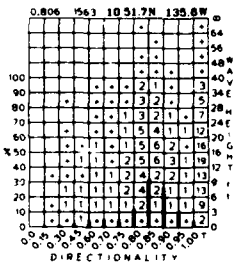


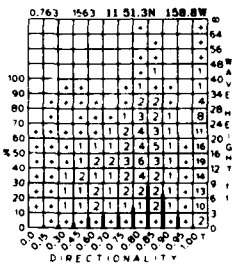


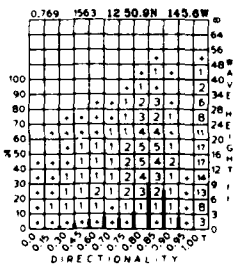


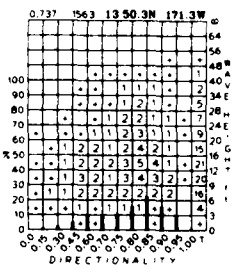


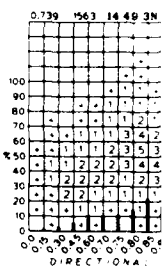


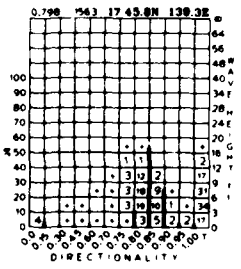


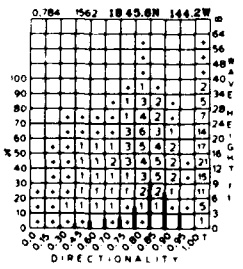


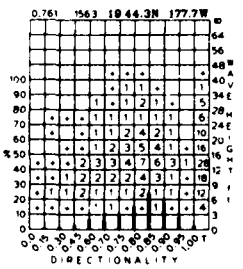


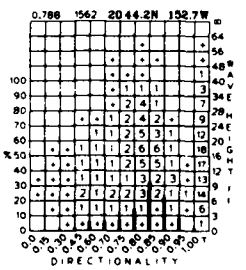


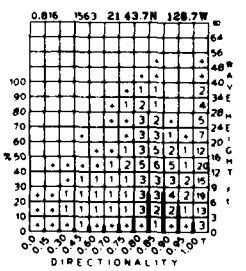


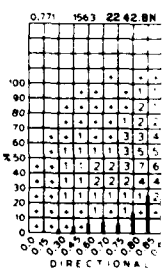


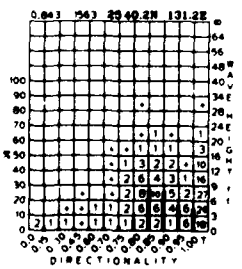


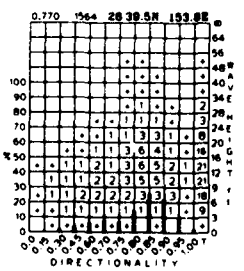


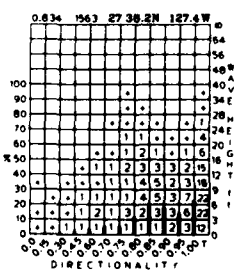


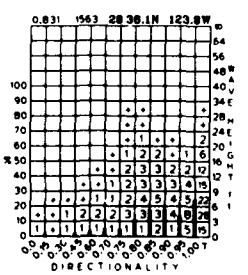


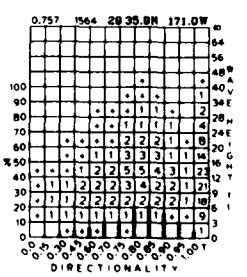


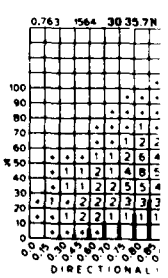






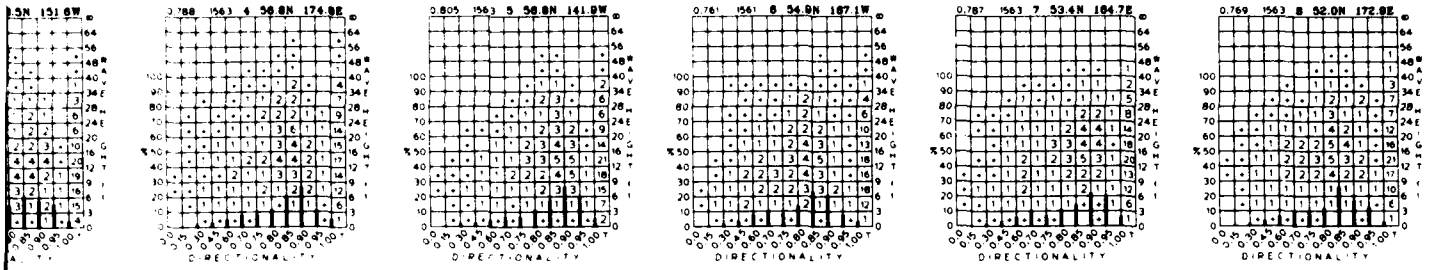


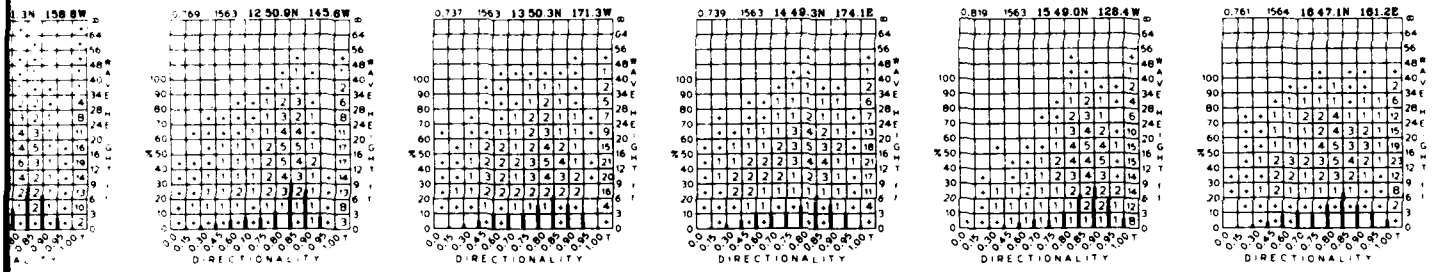


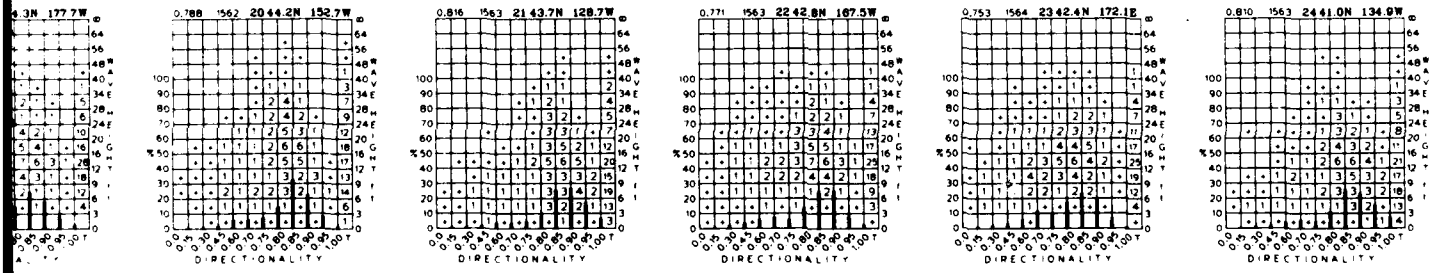


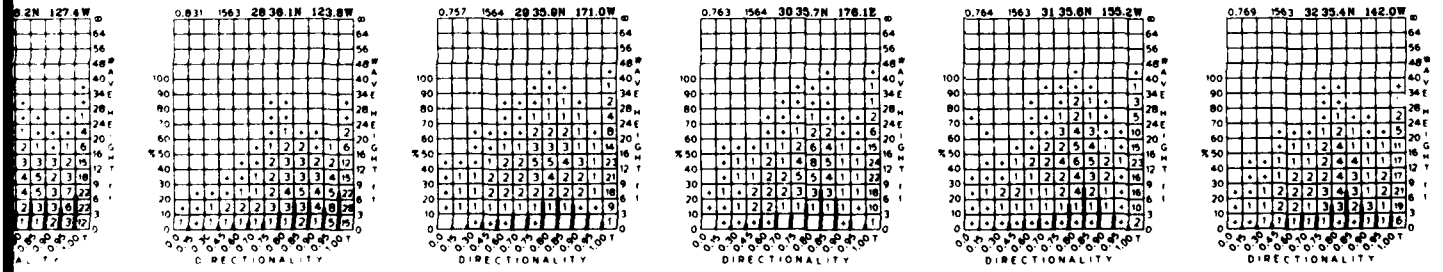
3

WAVE HEIGHT AND DIRECTIONALITY

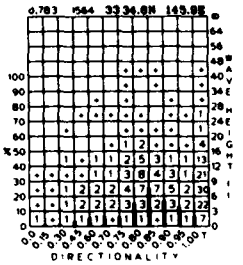


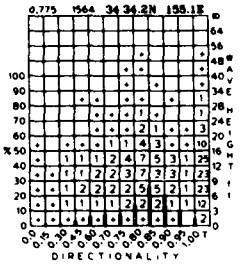


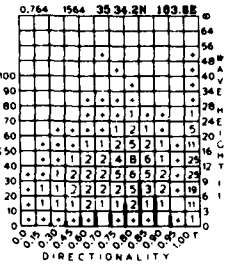


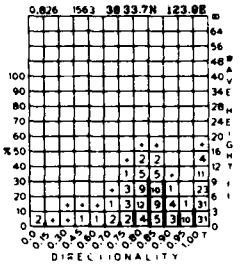


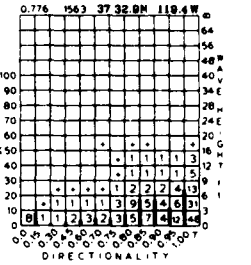
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

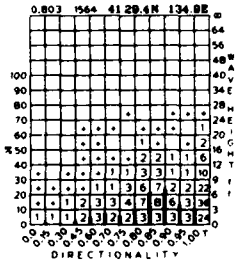


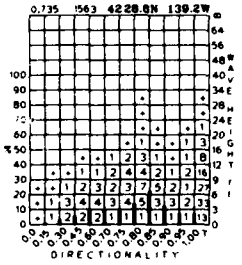


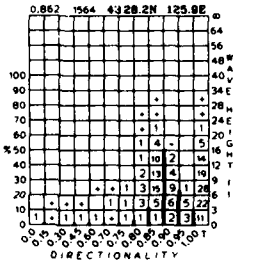


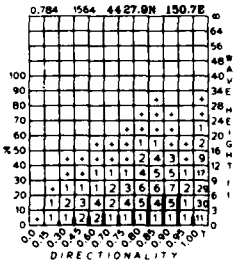


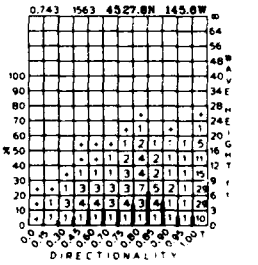


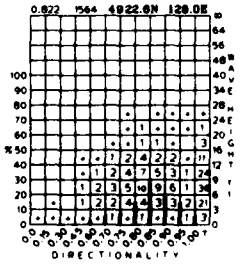


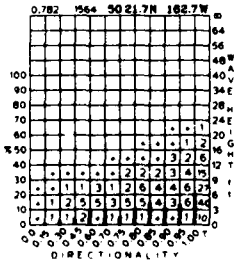


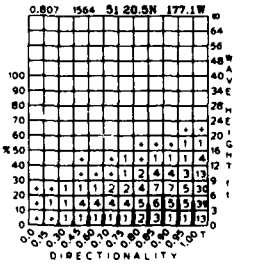


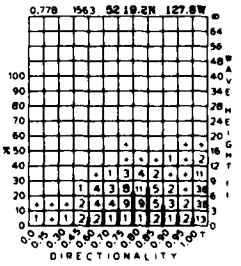


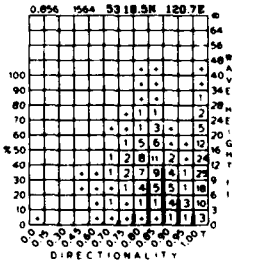


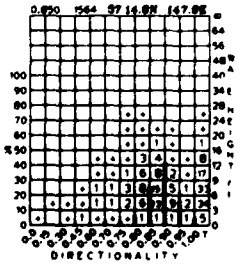


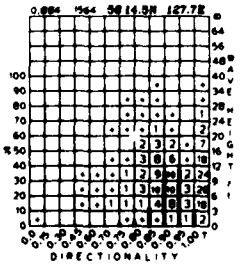


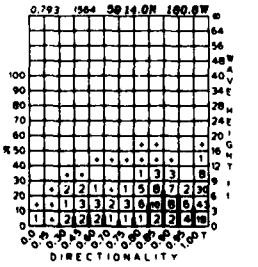


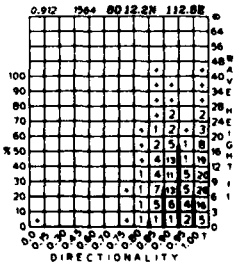


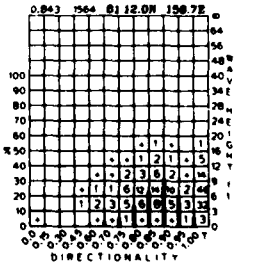






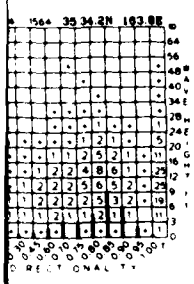


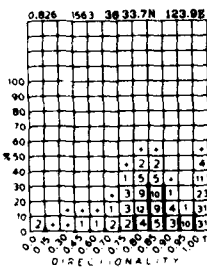


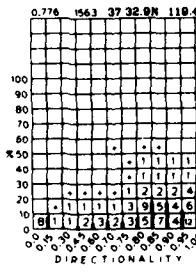


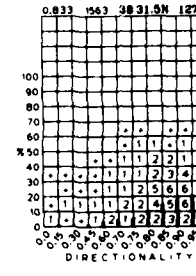
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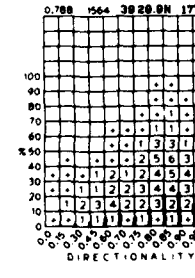
JANUARY

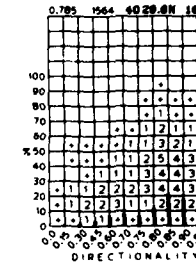


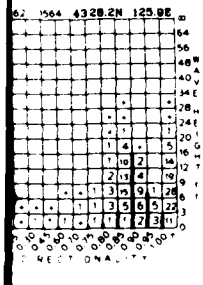


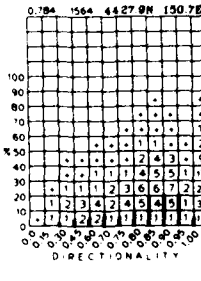


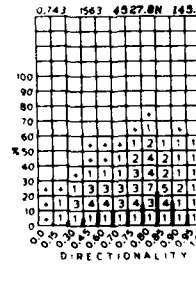


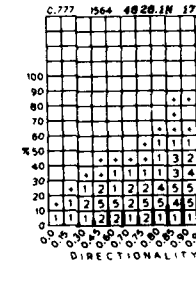


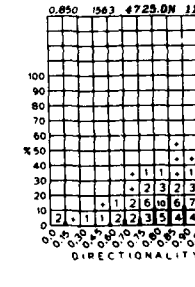


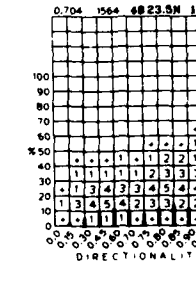


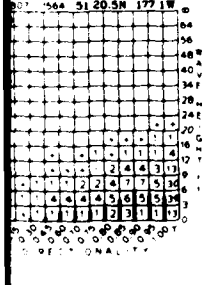


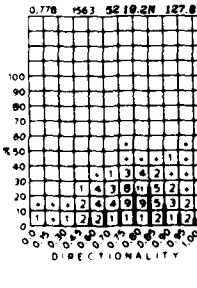


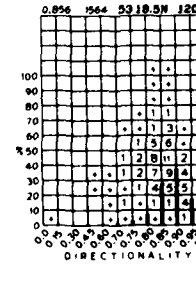


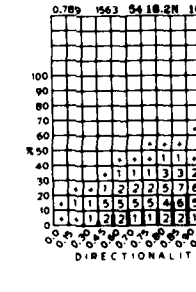


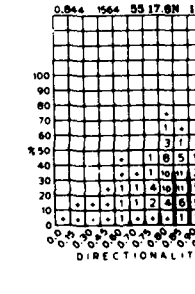


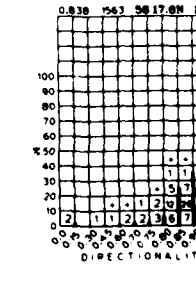


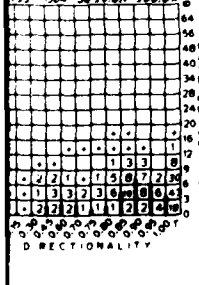


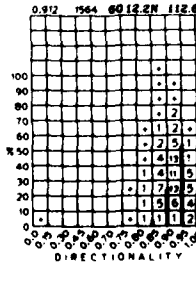


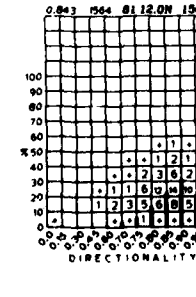


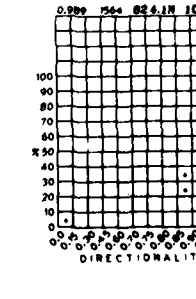


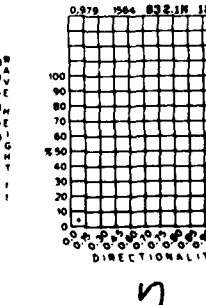






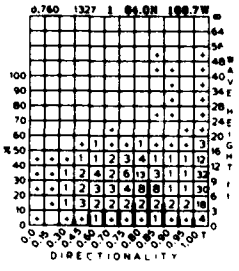


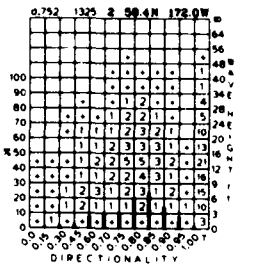


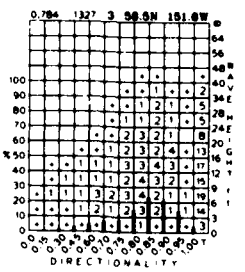


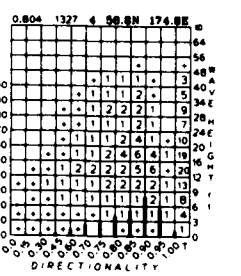
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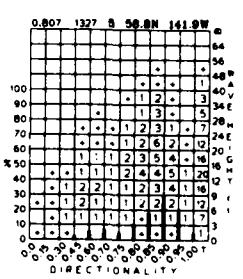
WAVE HEIGHT

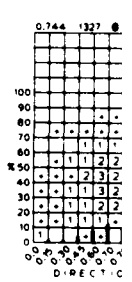


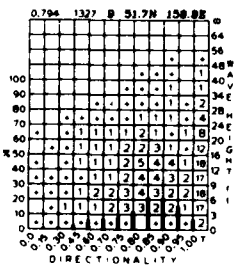


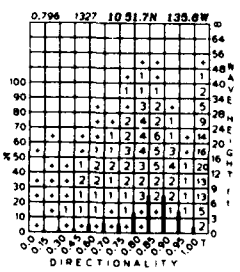


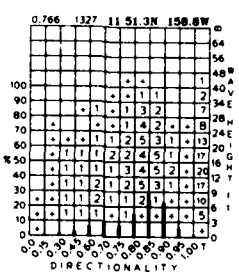


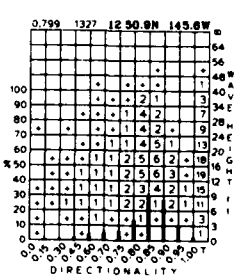


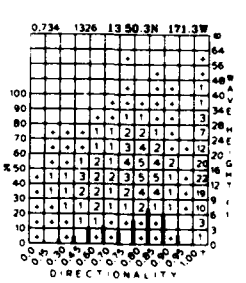


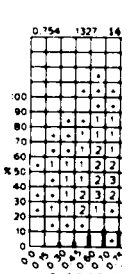


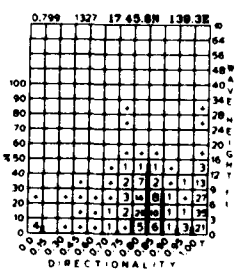


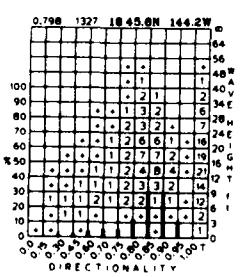


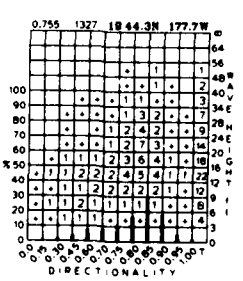


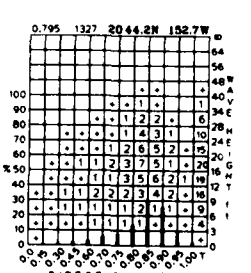


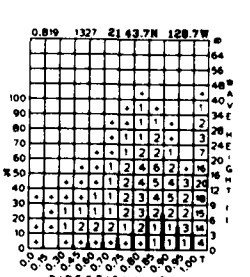


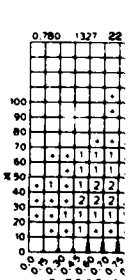


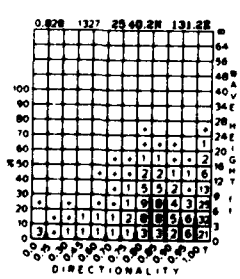


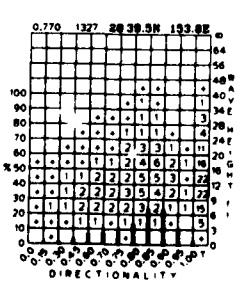


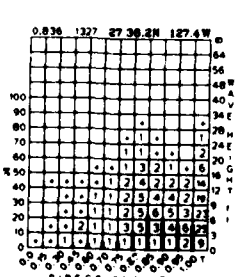


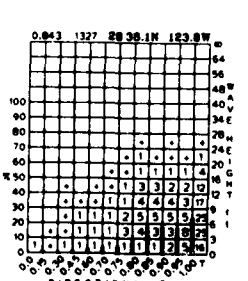


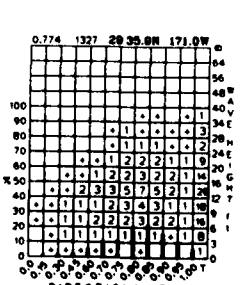


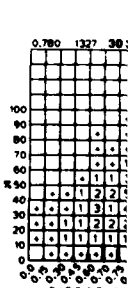






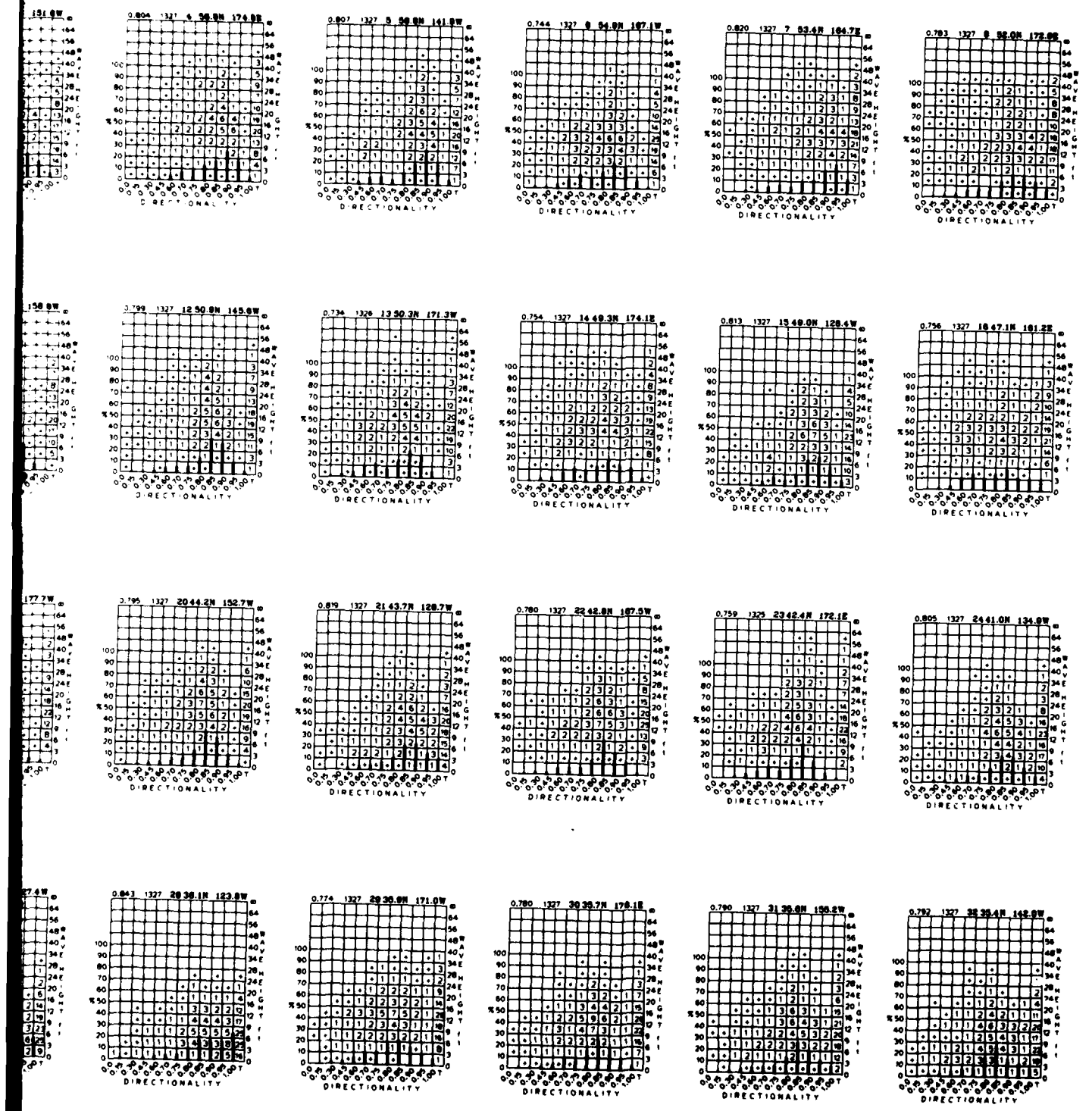




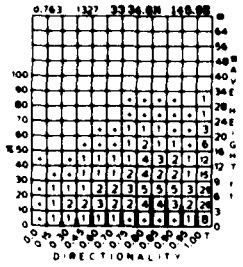


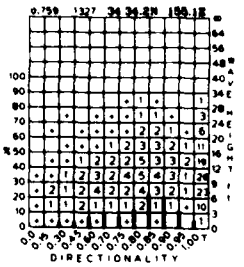
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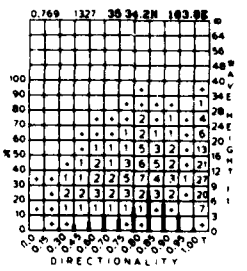
WAVE HEIGHT AND DIRECTIONALITY

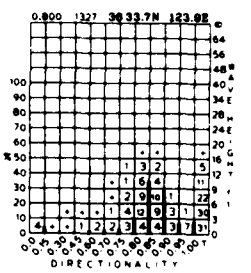


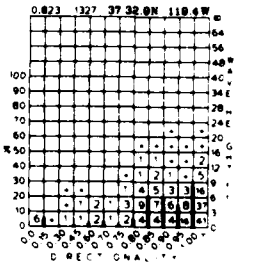
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

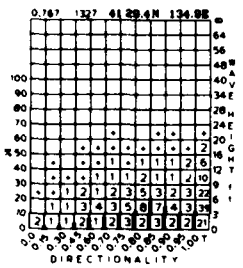


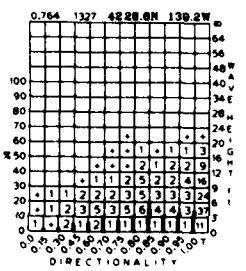


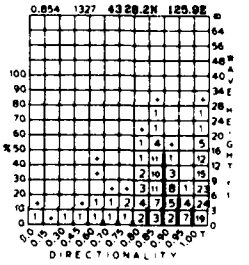


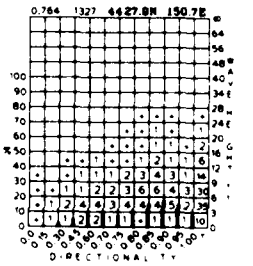


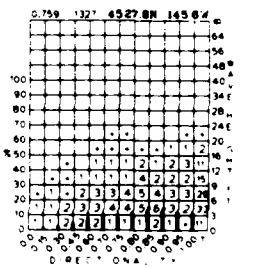


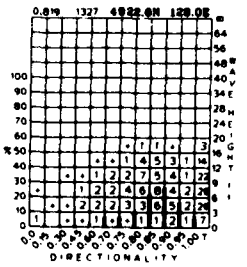


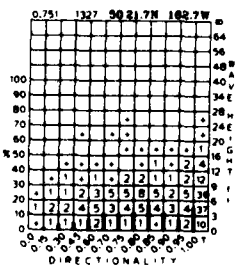


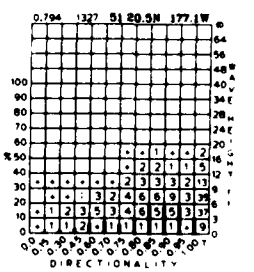


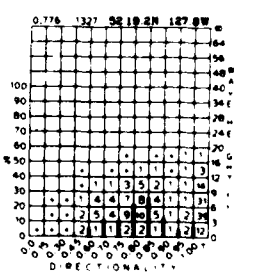


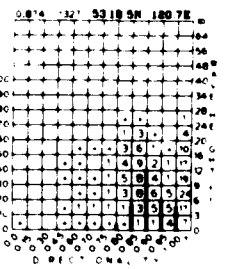


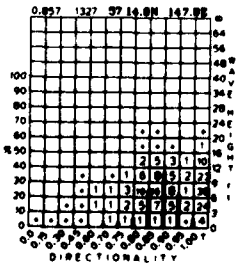


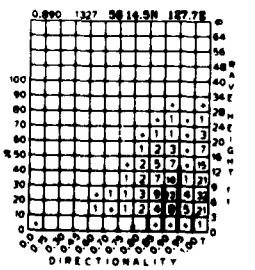


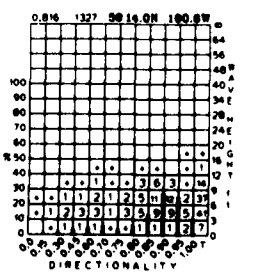


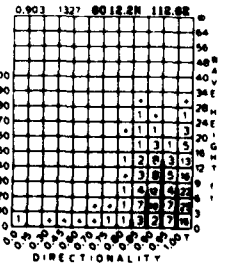


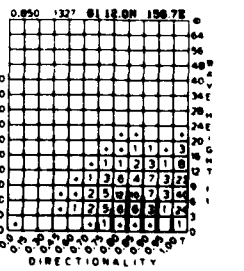






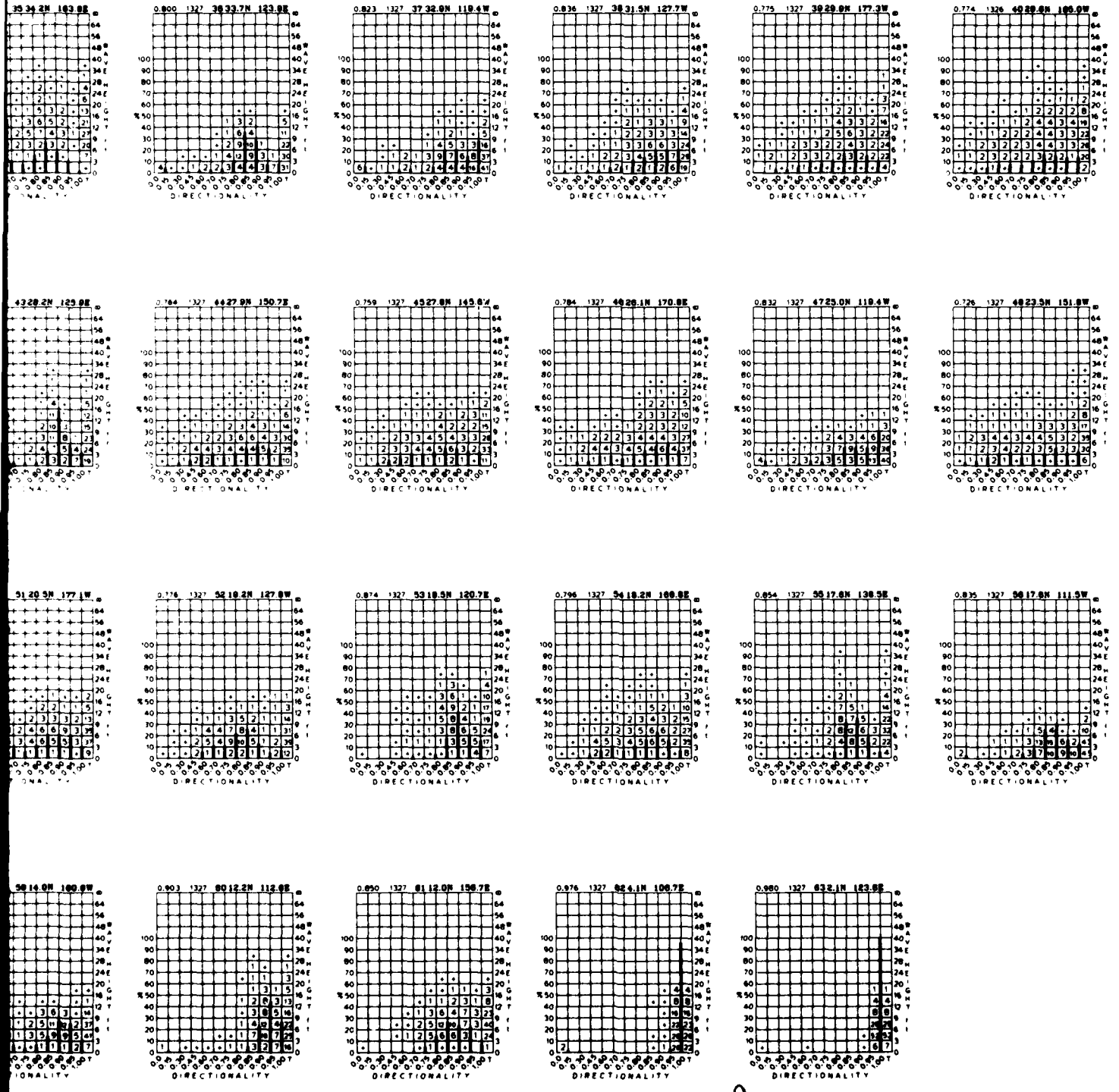






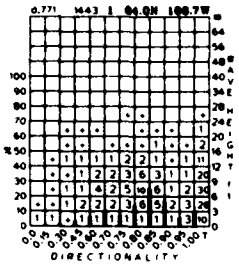
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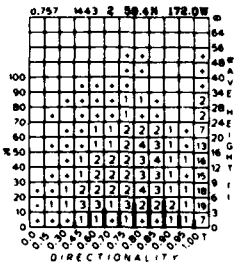
FEBRUARY

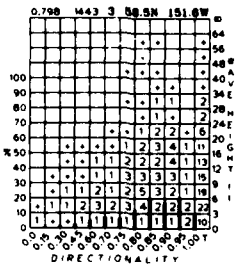


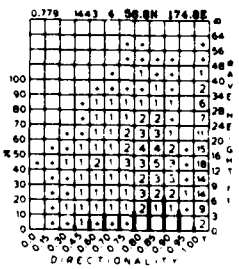
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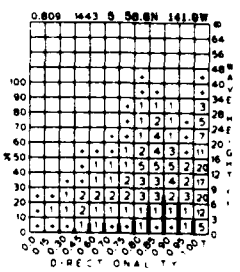
WAVE HEIGHT

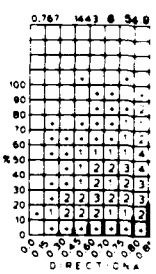


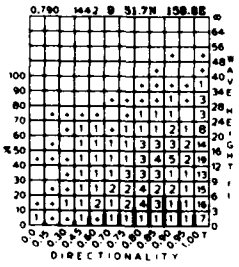


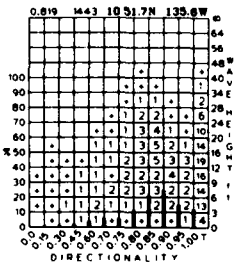


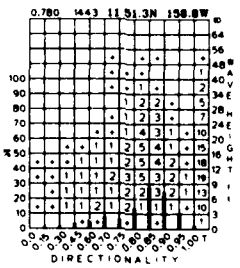


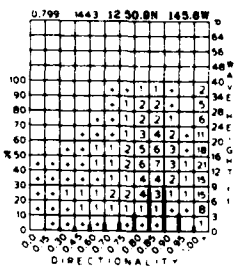


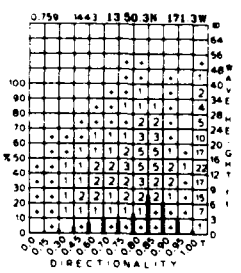


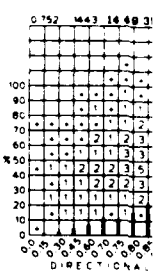


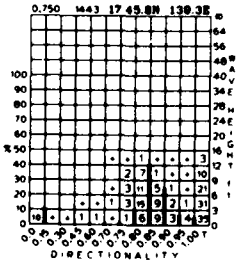


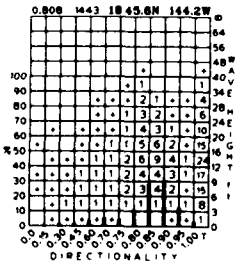


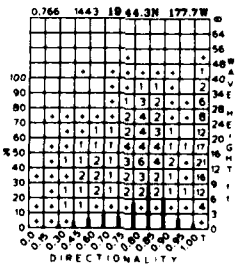


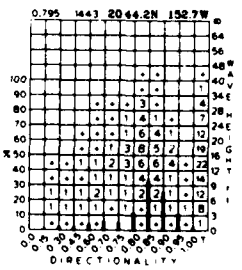


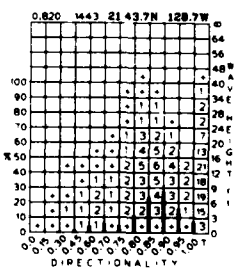


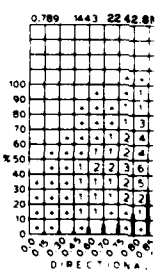


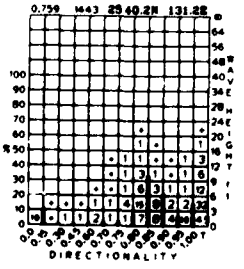


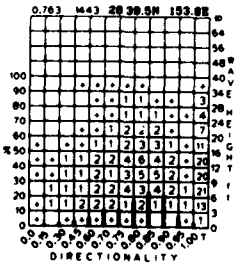


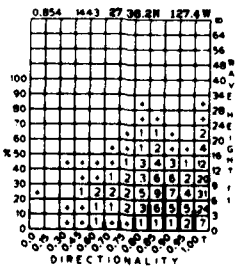


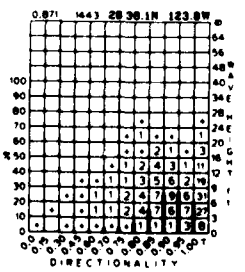


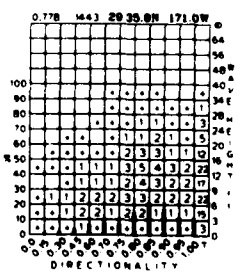


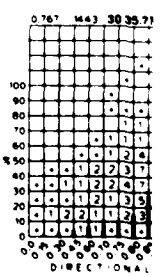




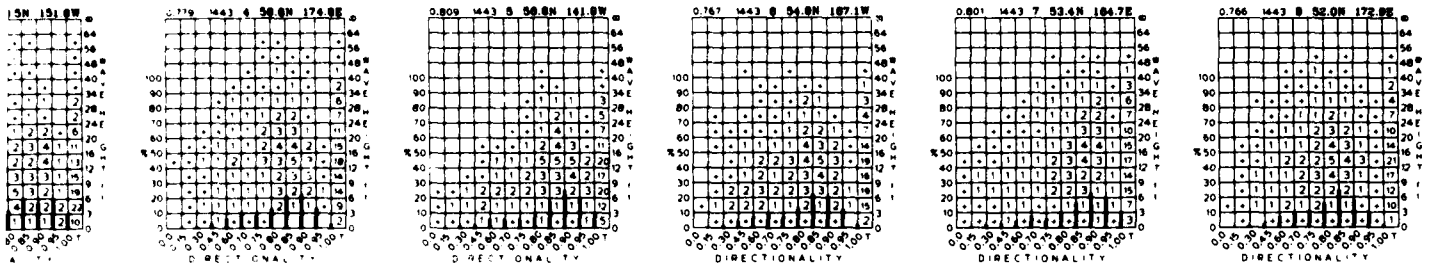


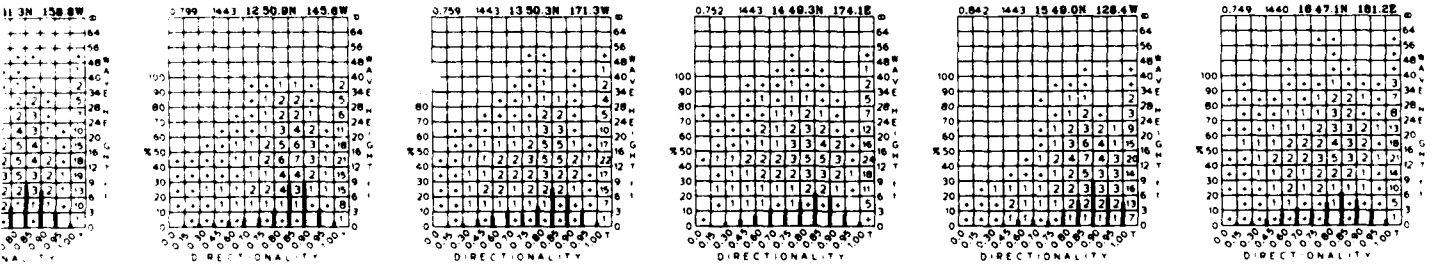


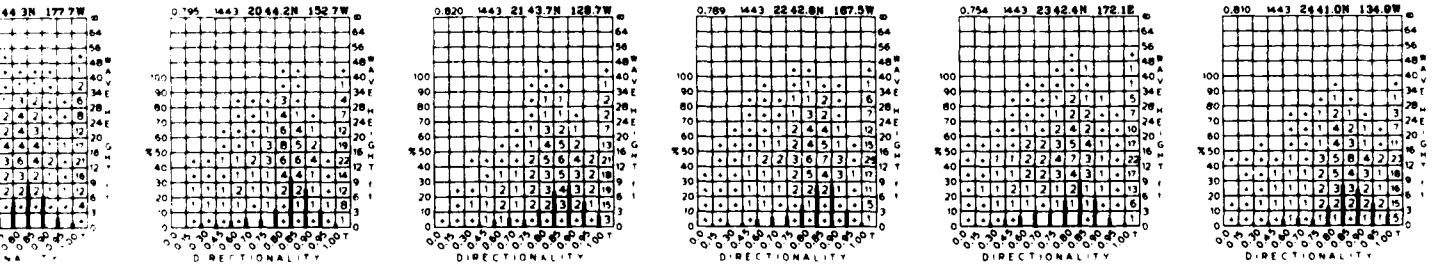


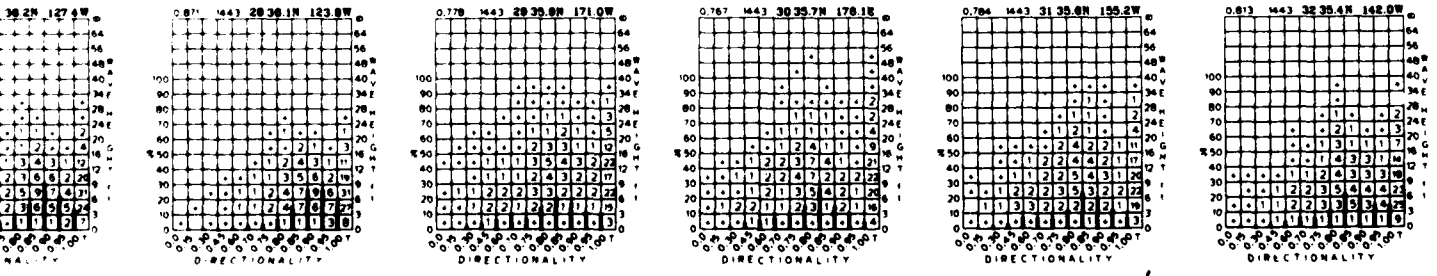


WAVE HEIGHT AND DIRECTIONALITY

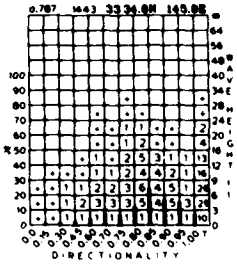


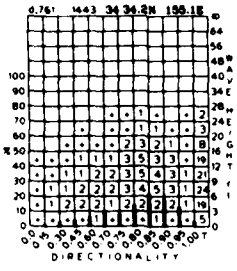


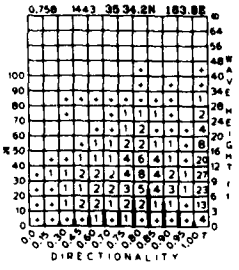


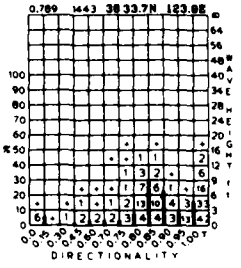


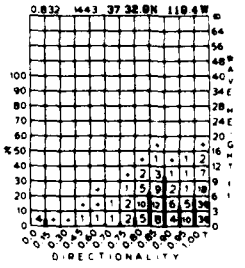
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

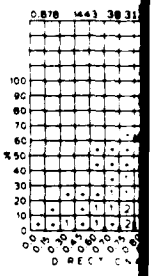


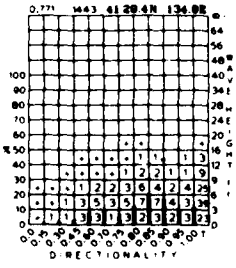


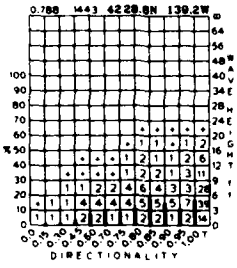


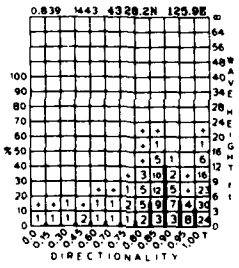


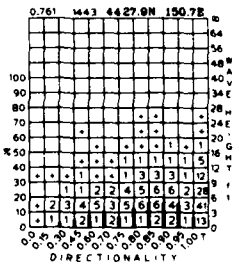


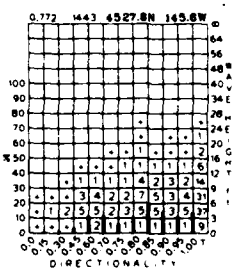


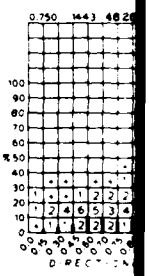


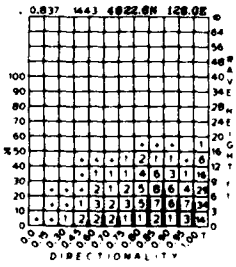


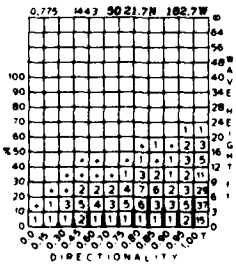


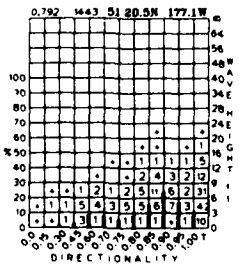


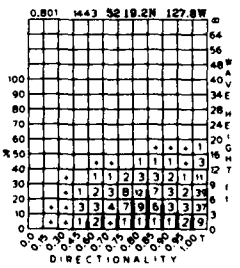


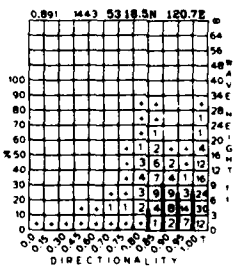


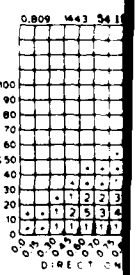


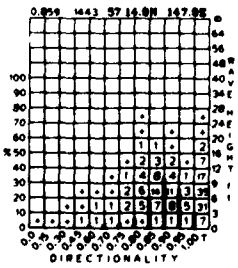


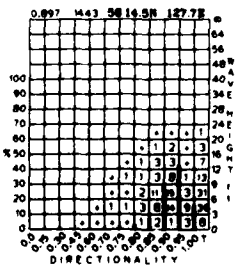


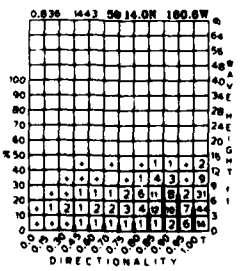


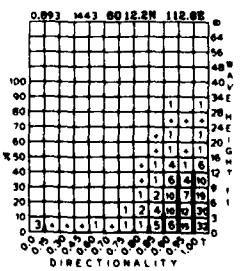


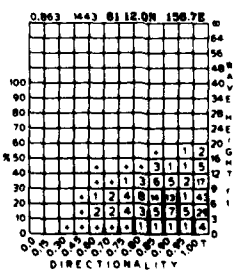


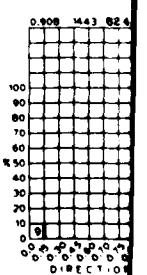






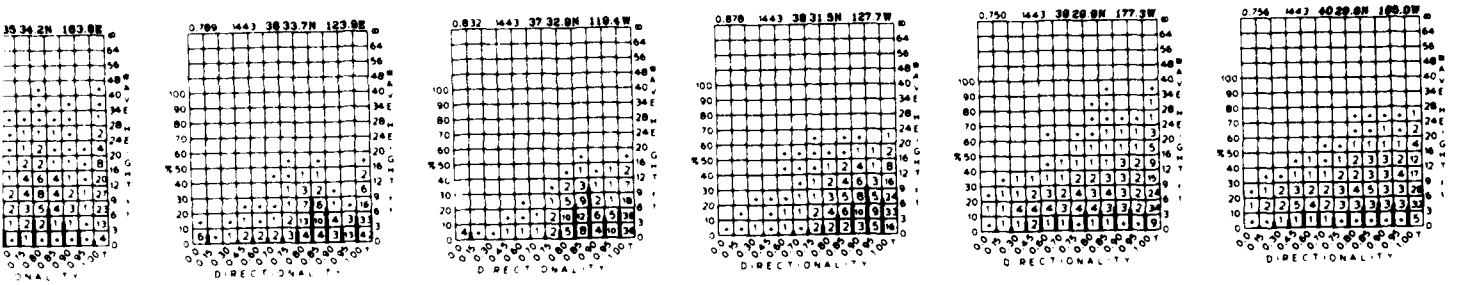


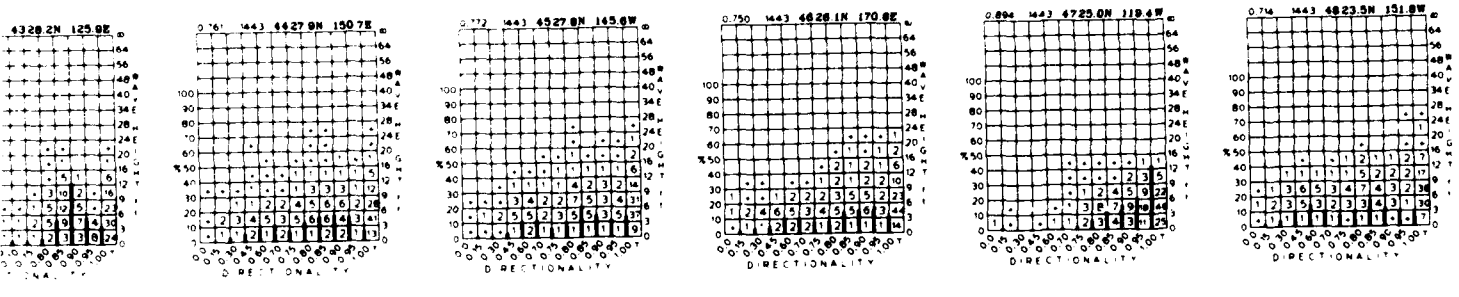


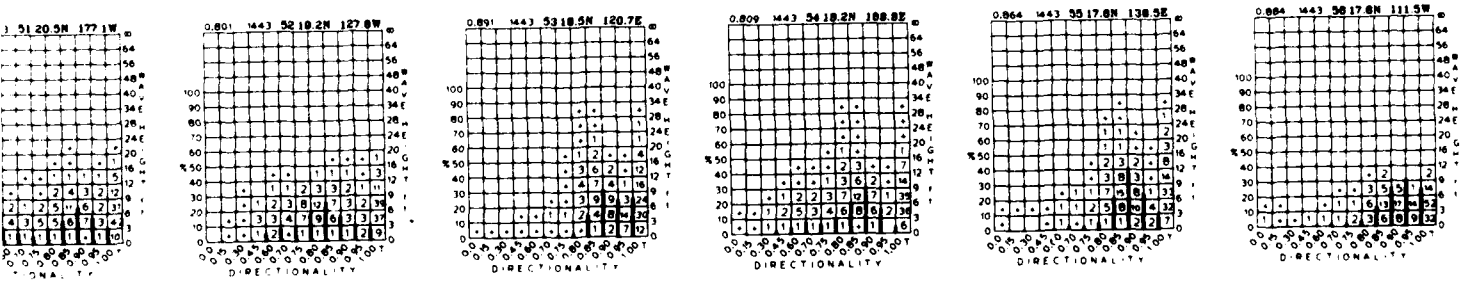


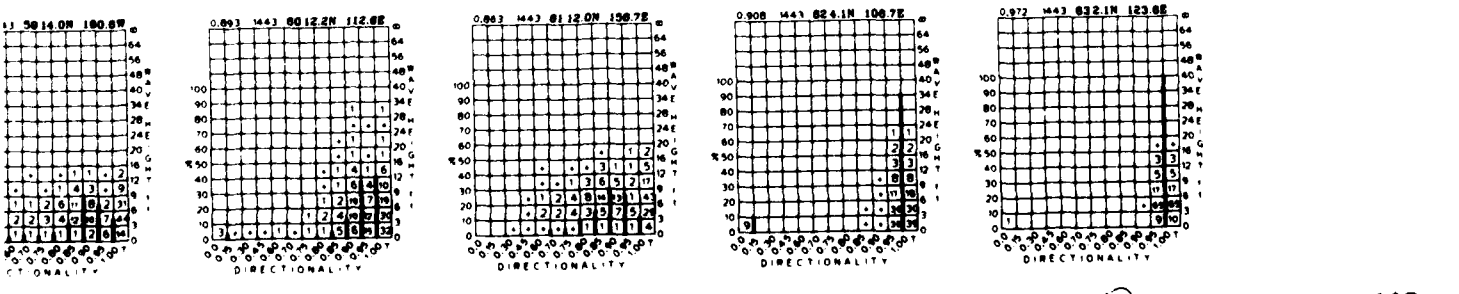
TIONALITY (Cont'd)

MARCH



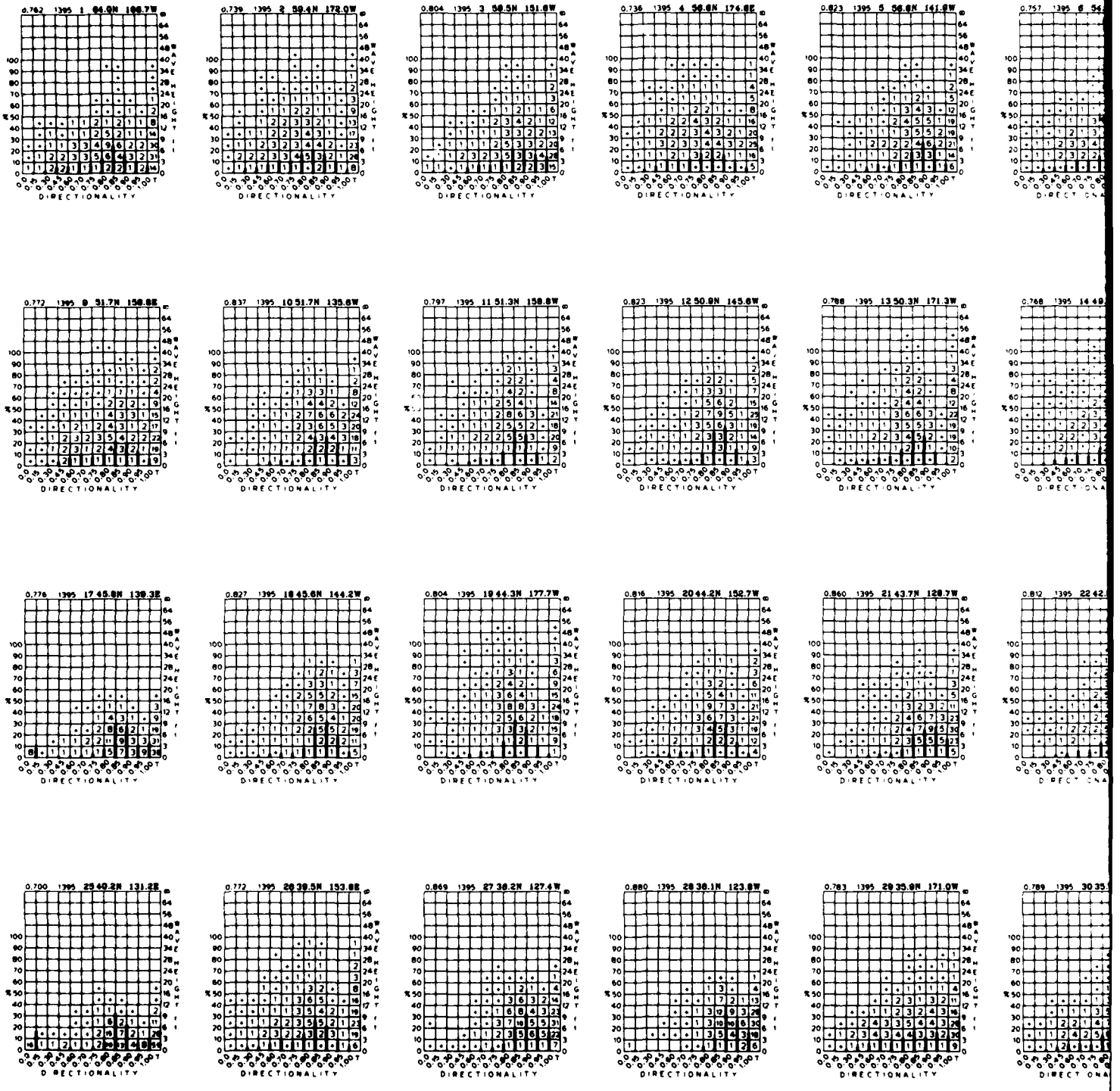




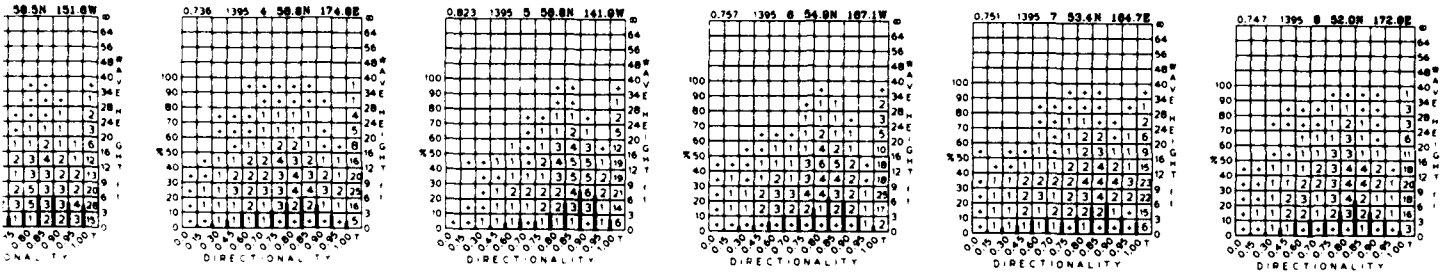


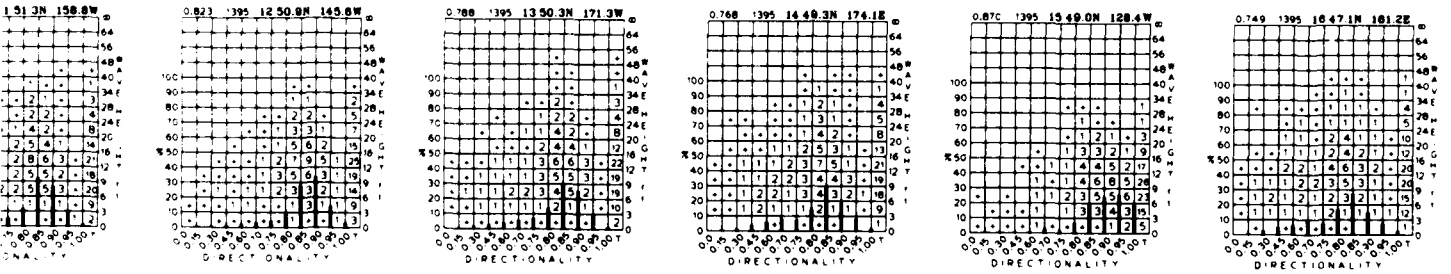
APRIL

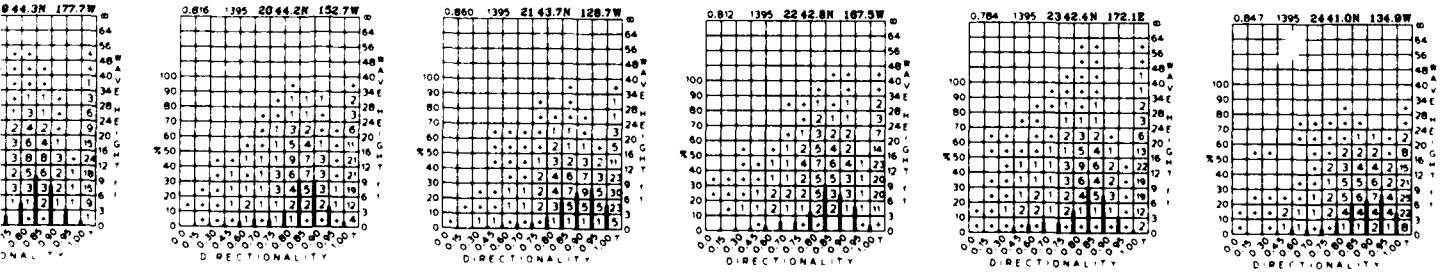
WAVE HEIGHT

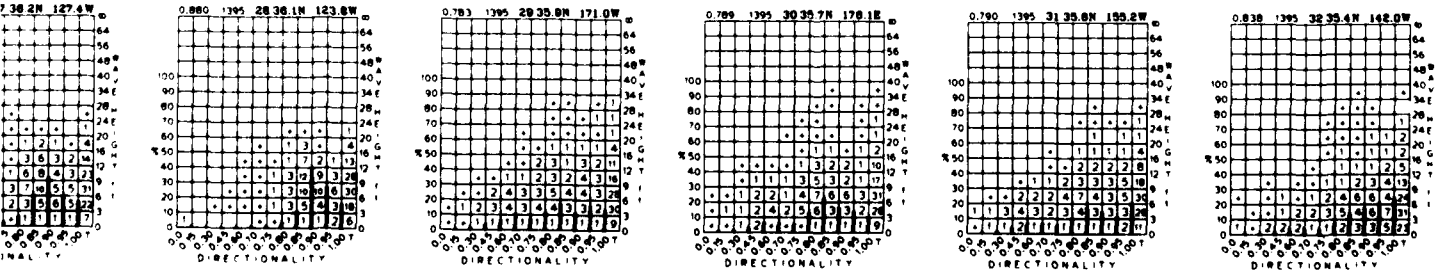


WAVE HEIGHT AND DIRECTIONALITY

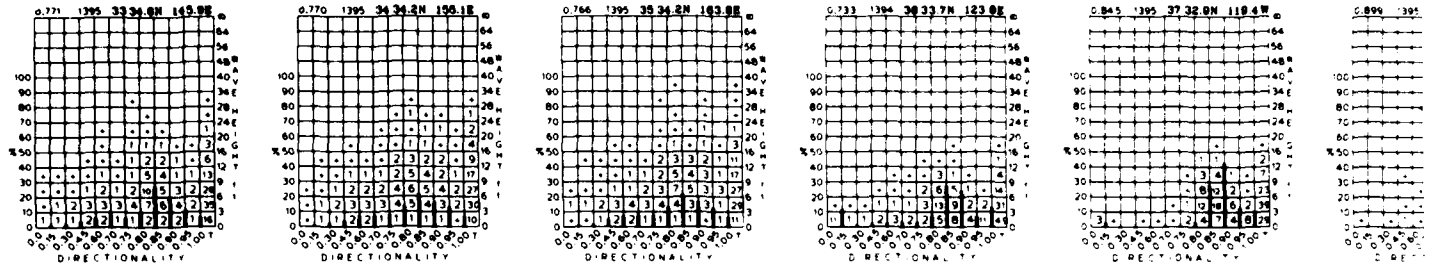


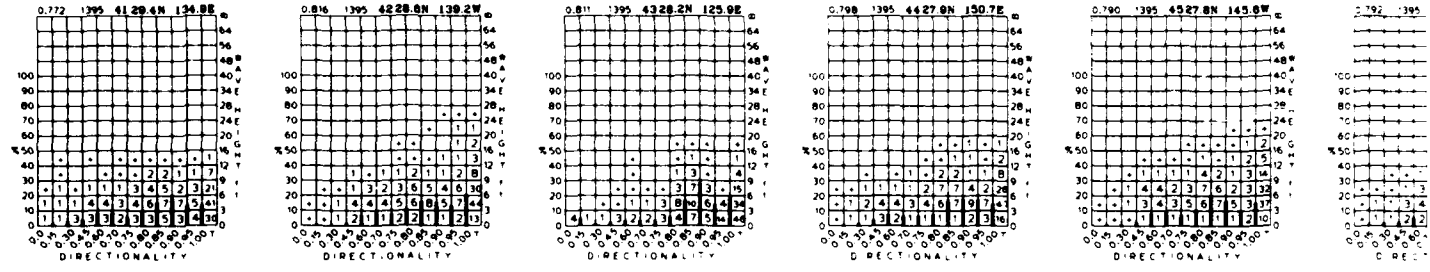


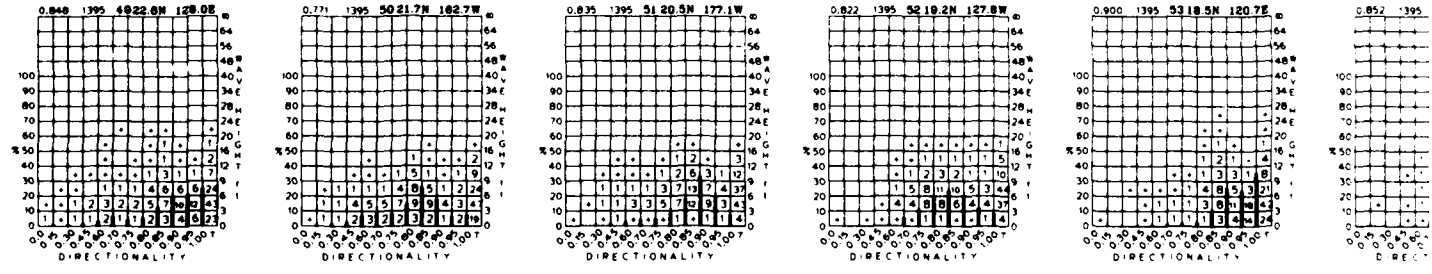


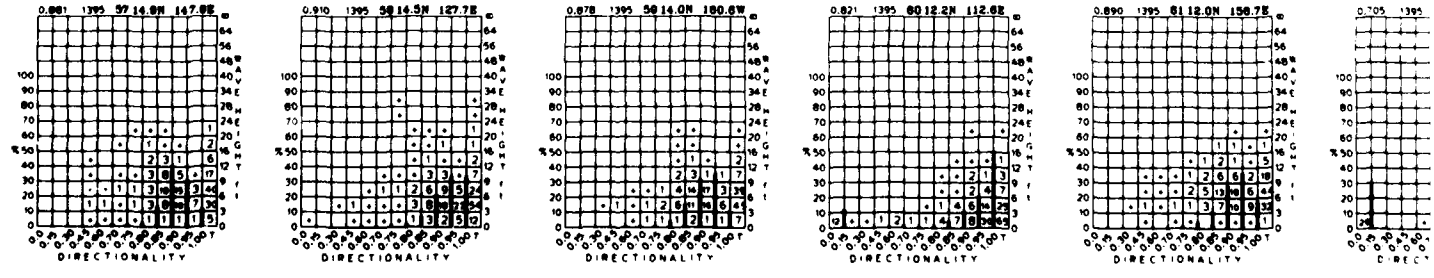


WAVE HEIGHT AND DIRECTIONALITY (Cont'd)



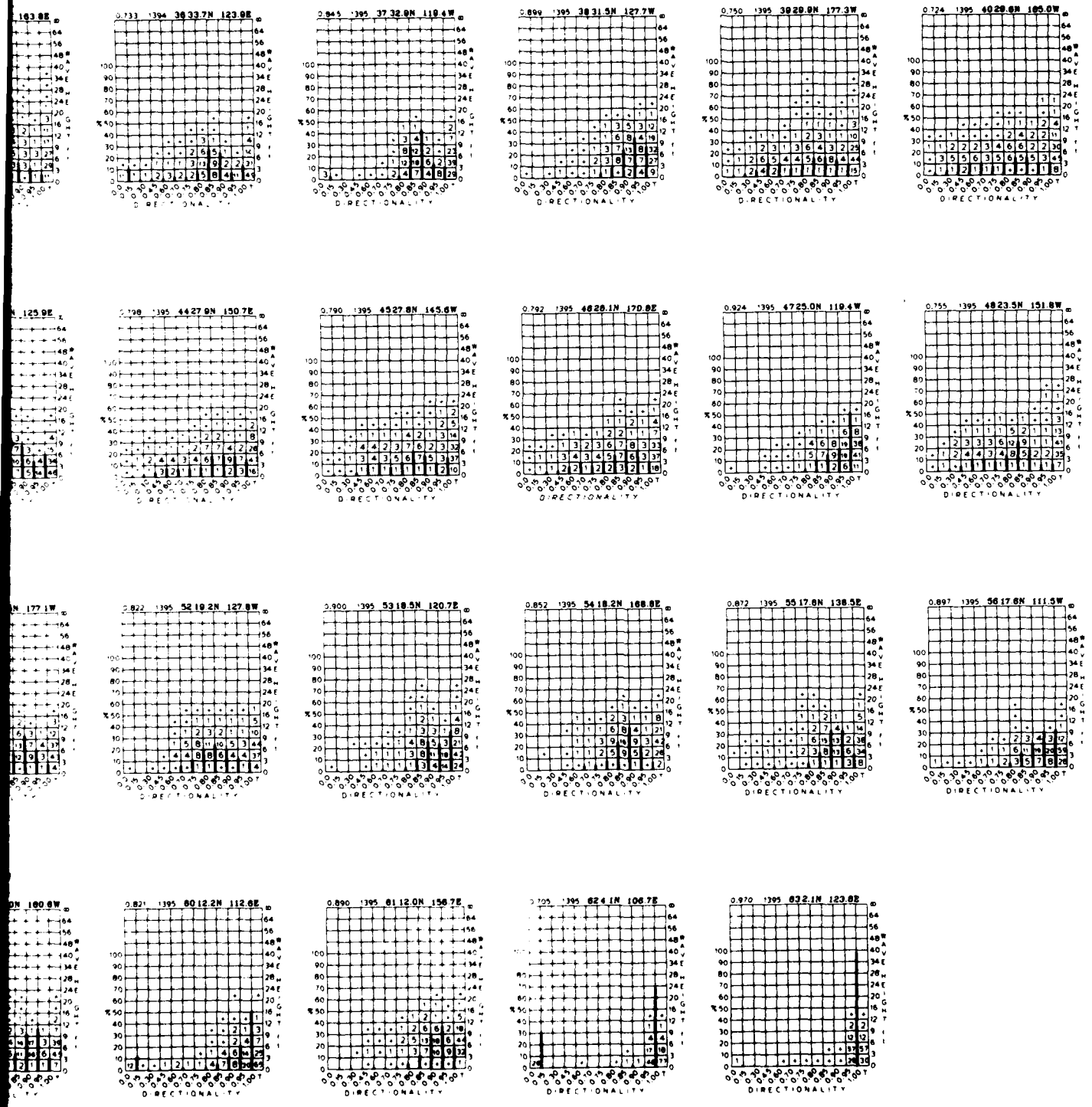






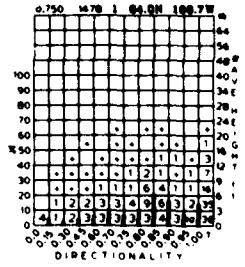
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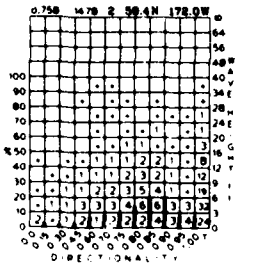
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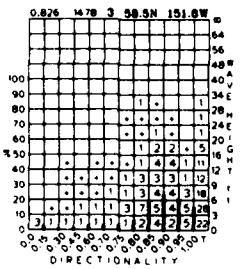


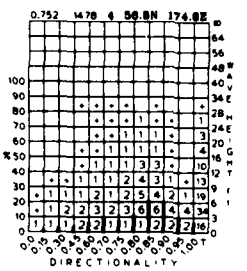
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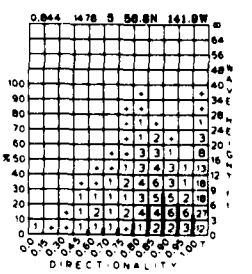
WAVE HEIGHT

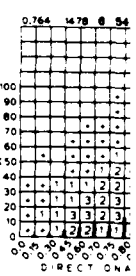


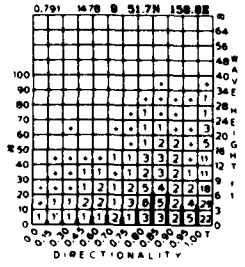


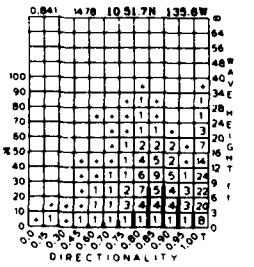


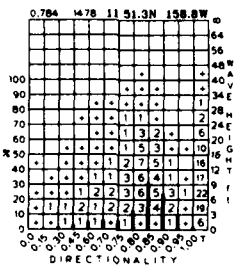


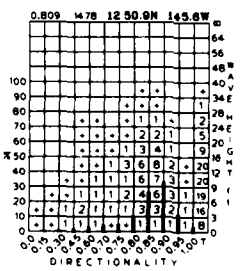


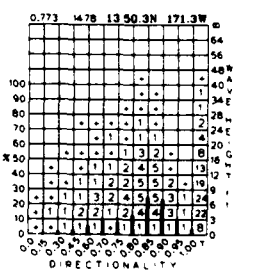


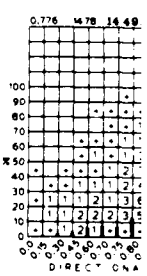


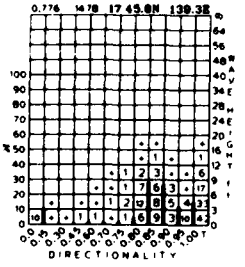


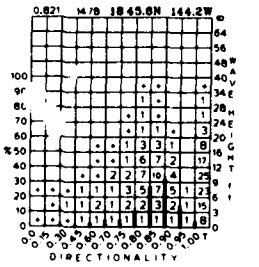


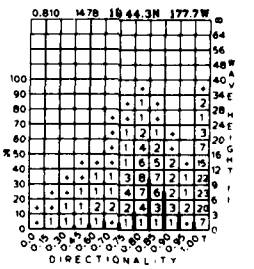


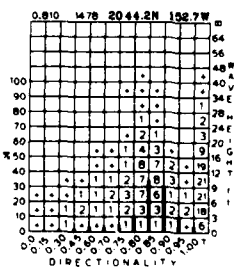


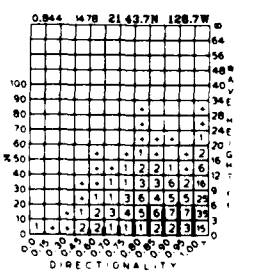


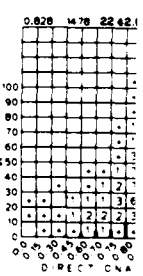


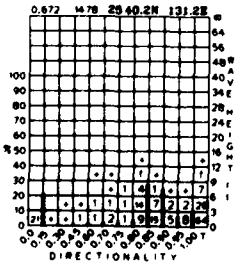


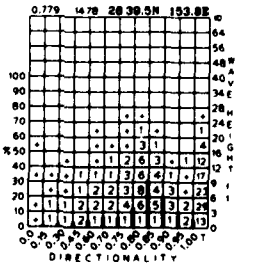


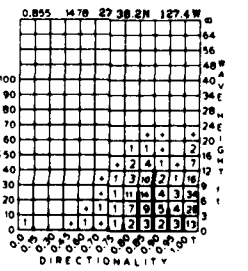


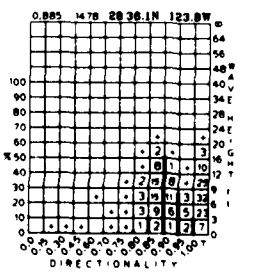


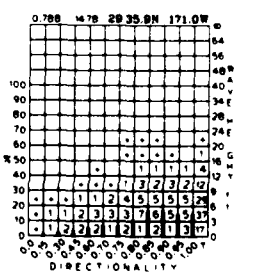


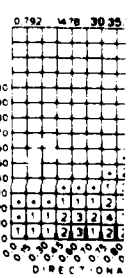




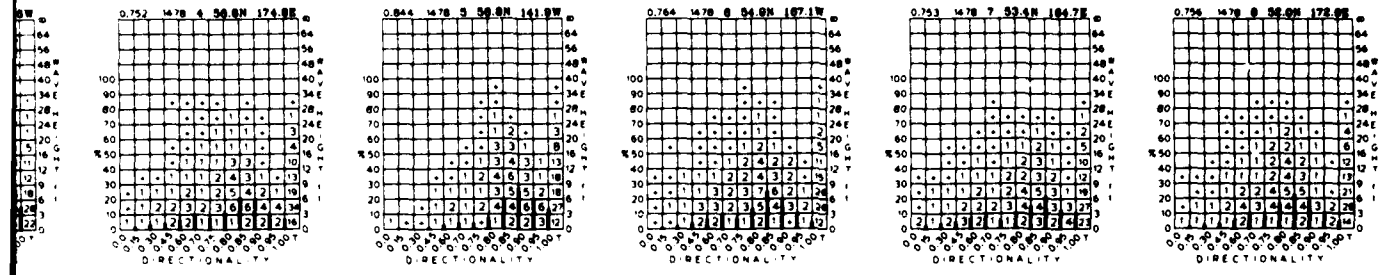


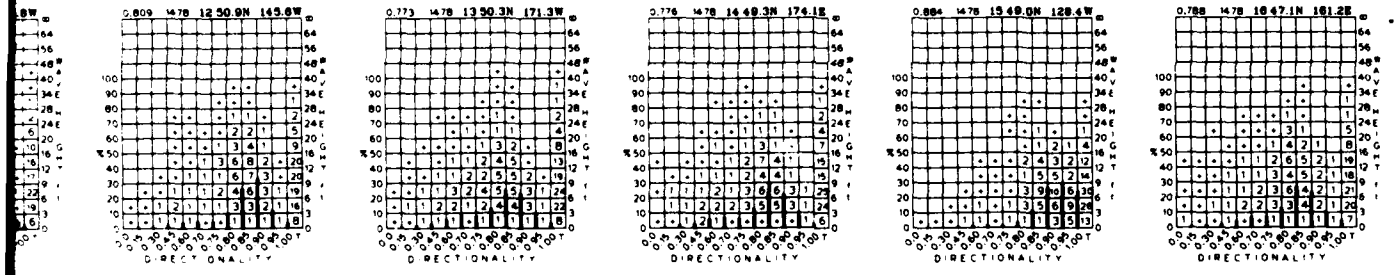


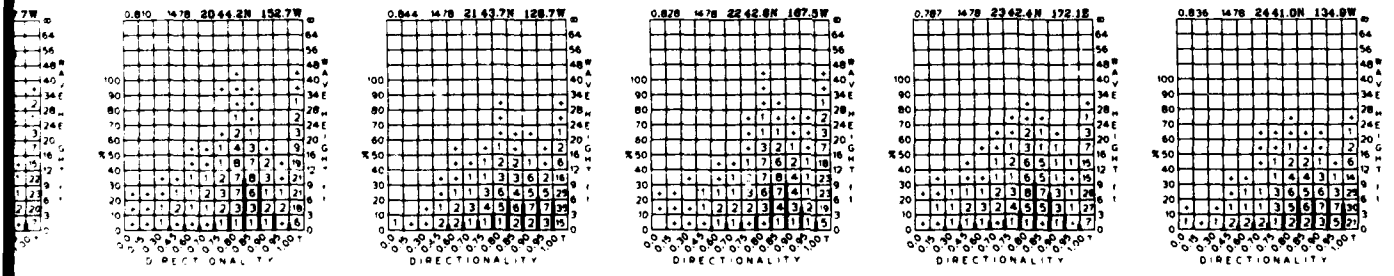


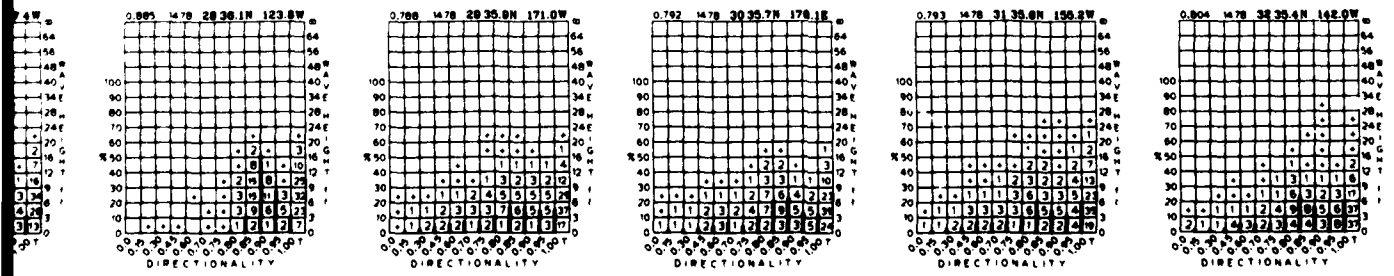


WAVE HEIGHT AND DIRECTIONALITY

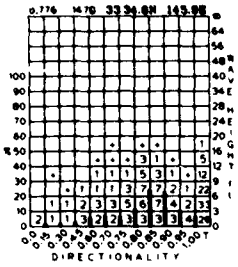


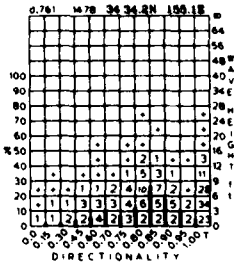


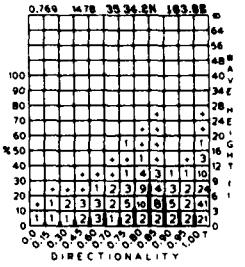


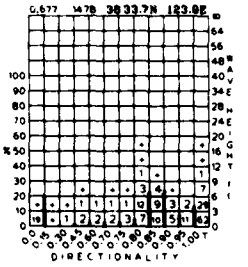


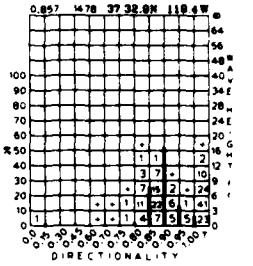
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

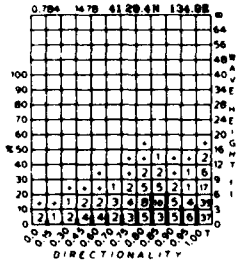


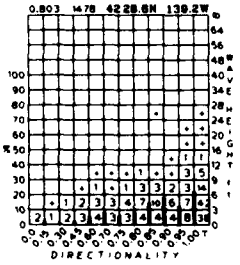


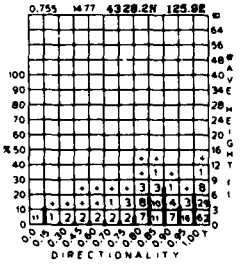


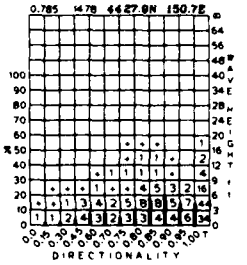


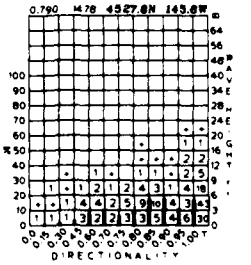


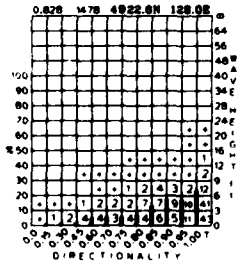


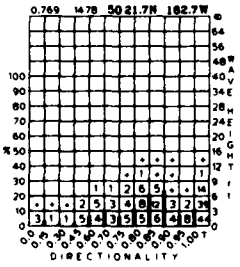


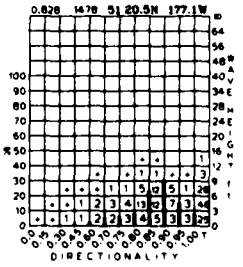


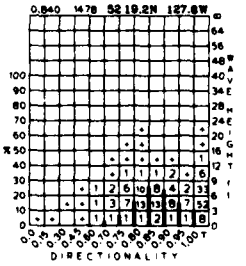


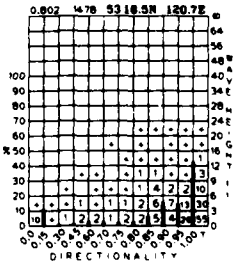


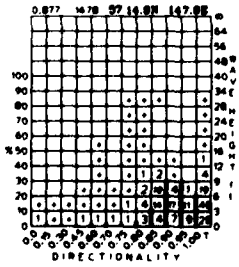


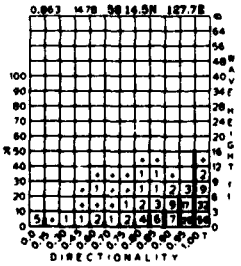


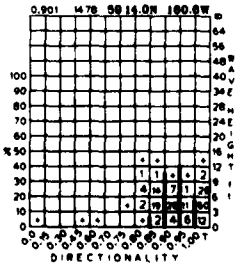


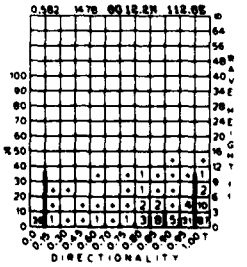


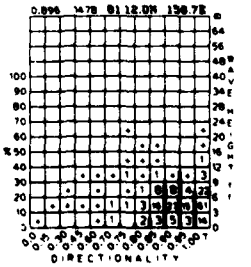






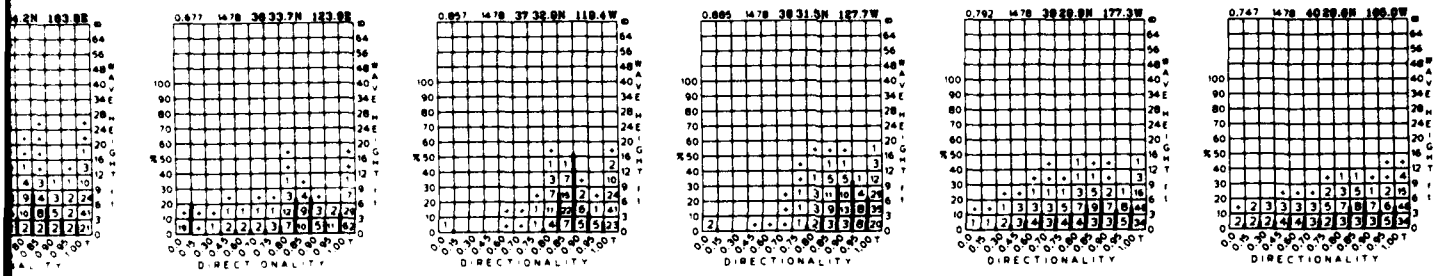


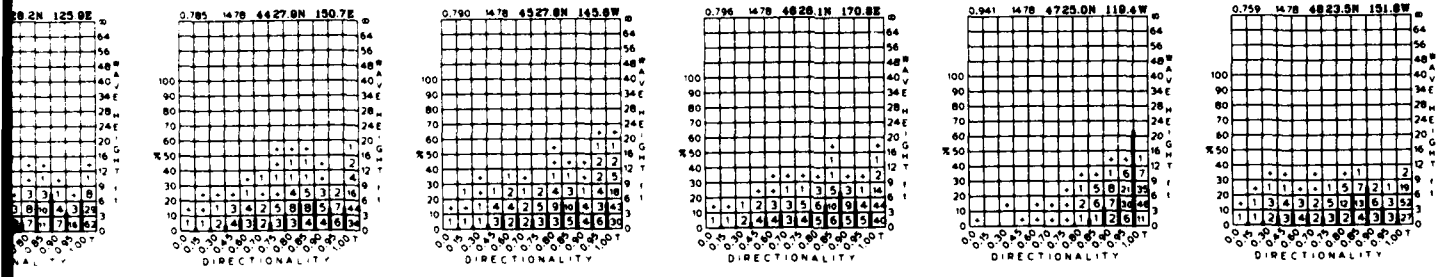


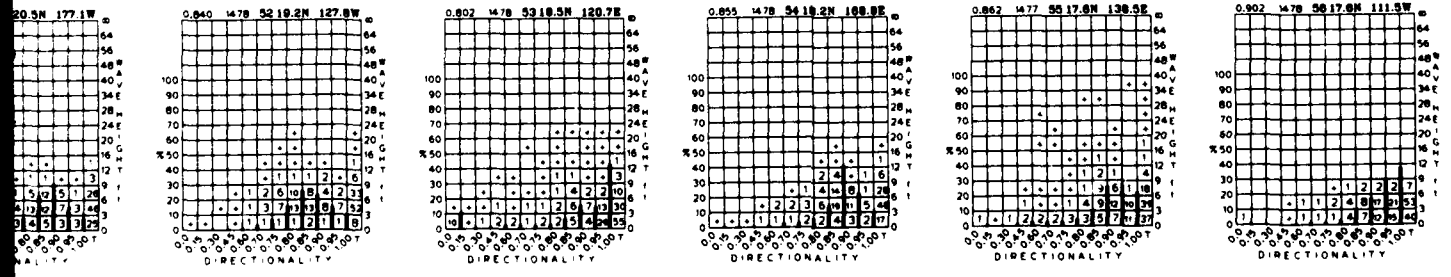


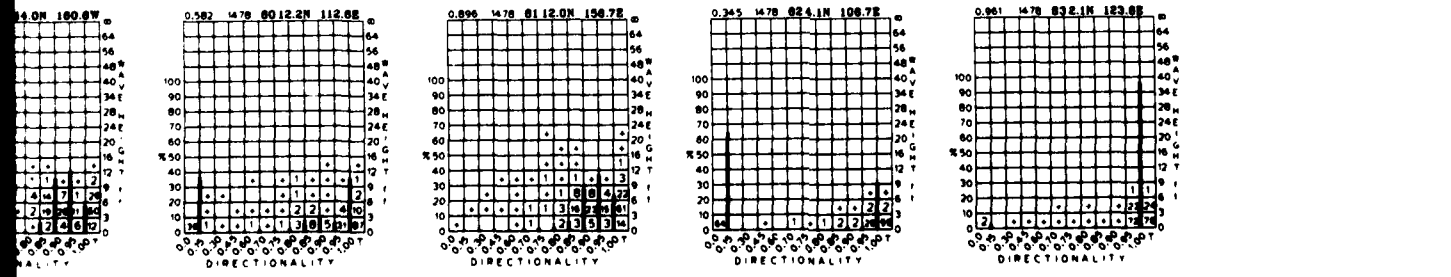
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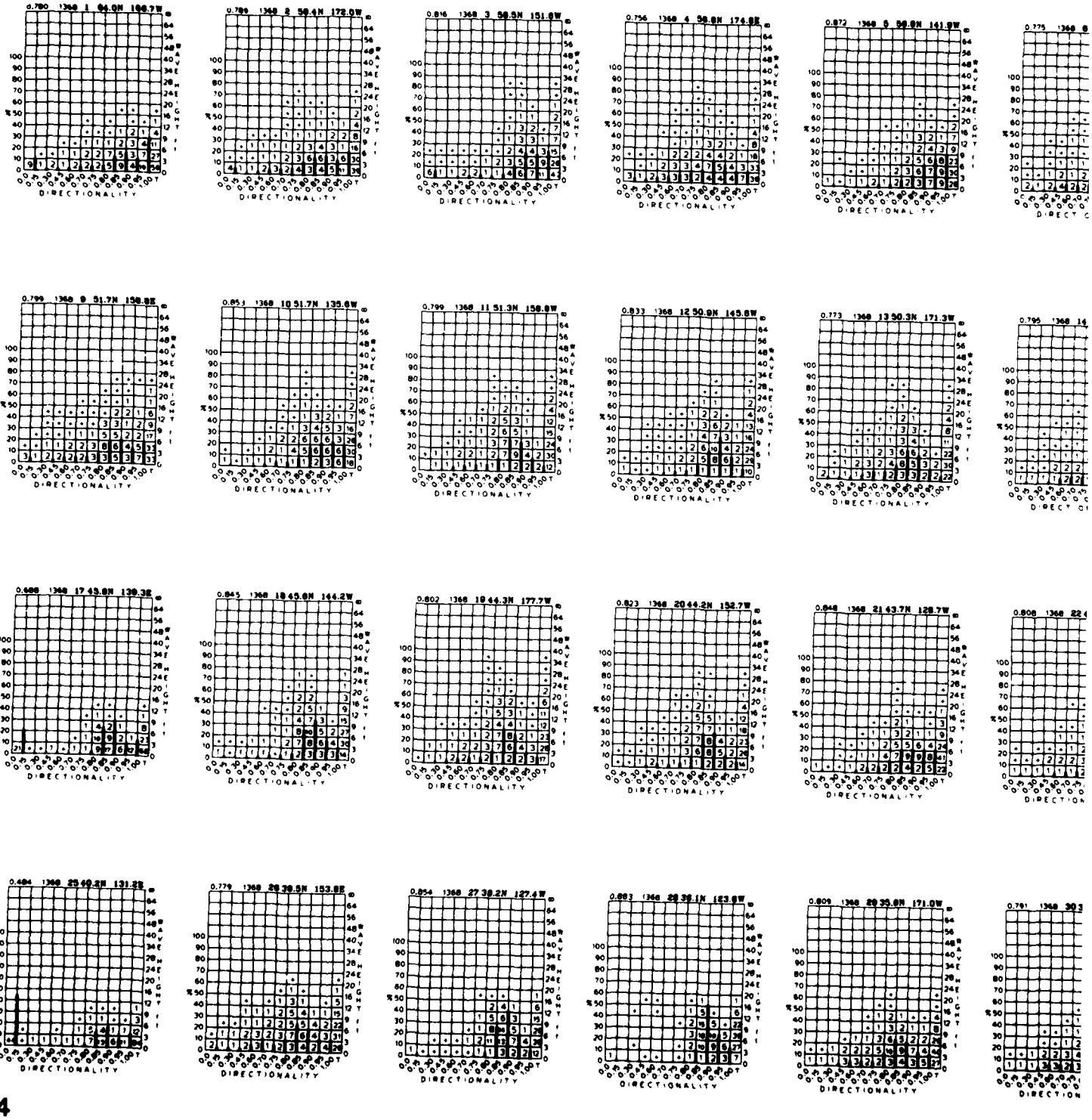




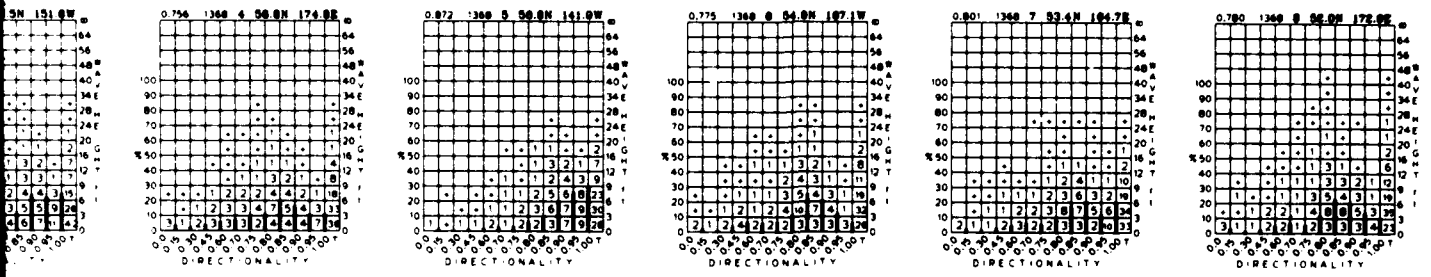


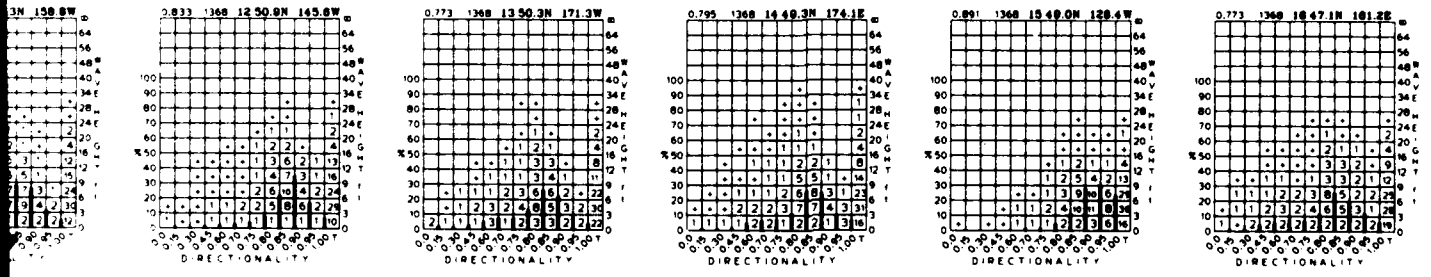
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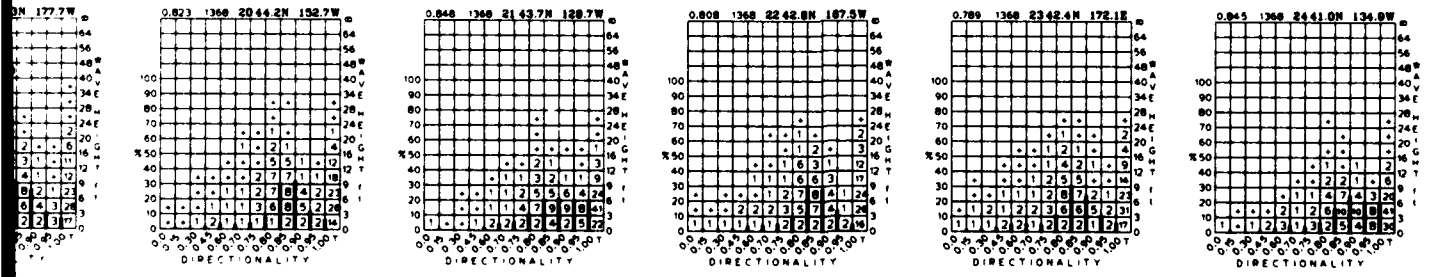
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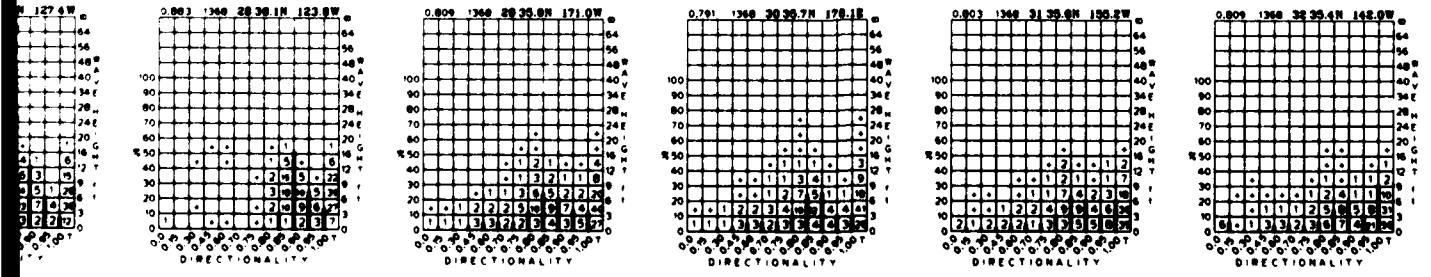


WAVE HEIGHT AND DIRECTIONALITY

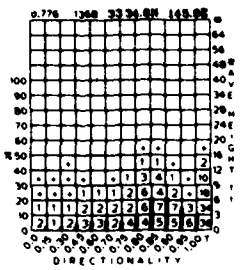


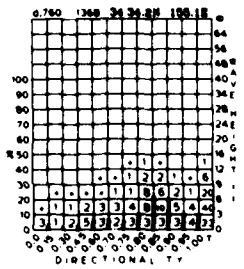


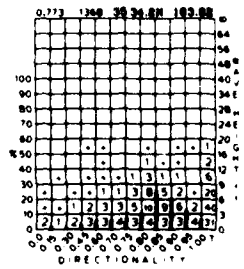


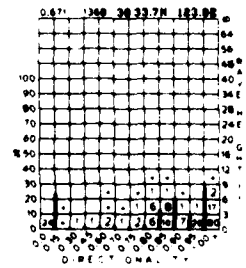


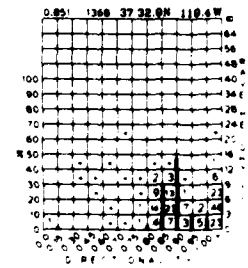
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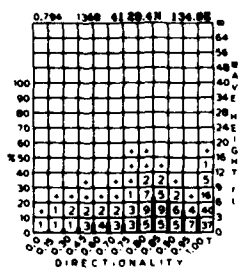


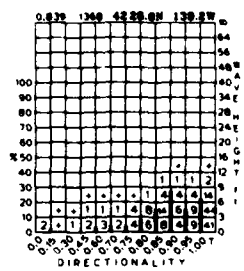


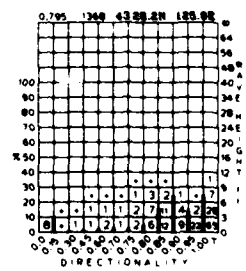


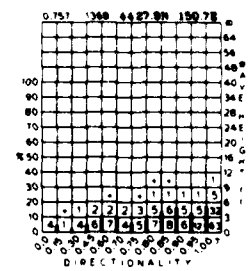


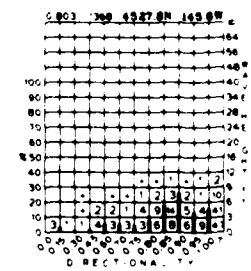


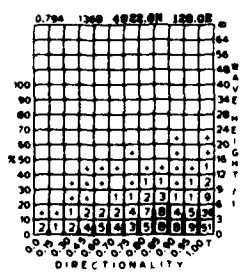


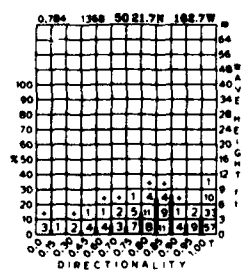


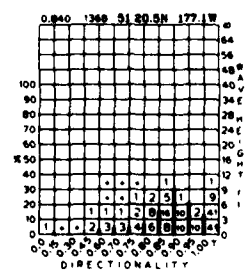


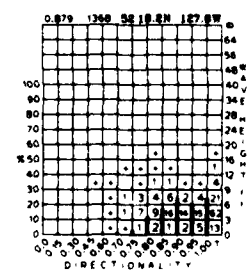


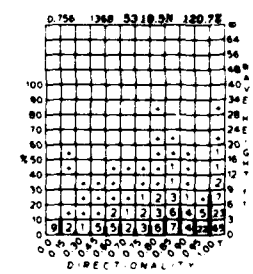


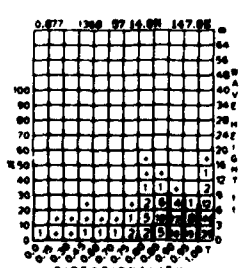


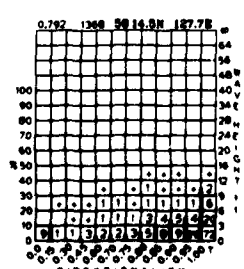


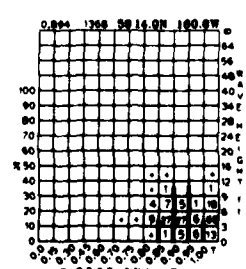


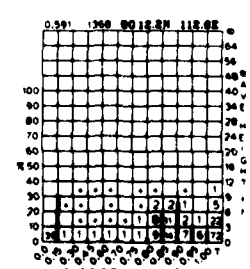


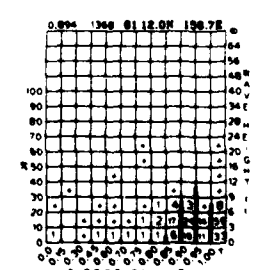






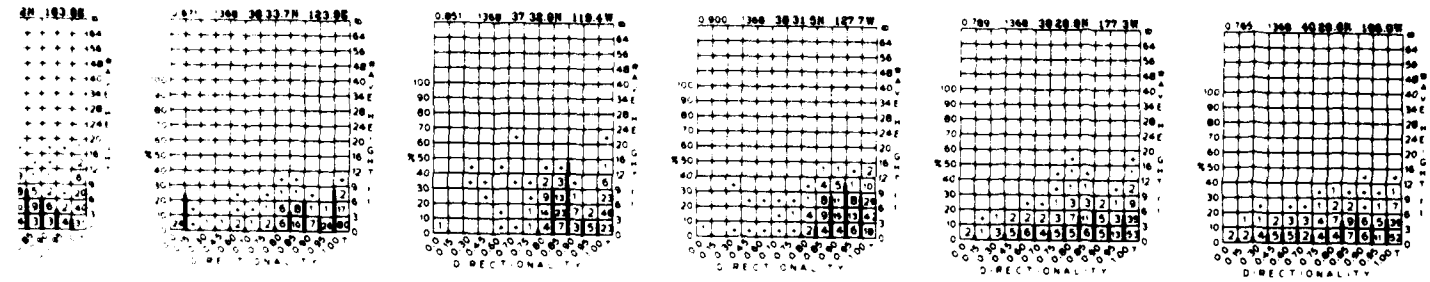


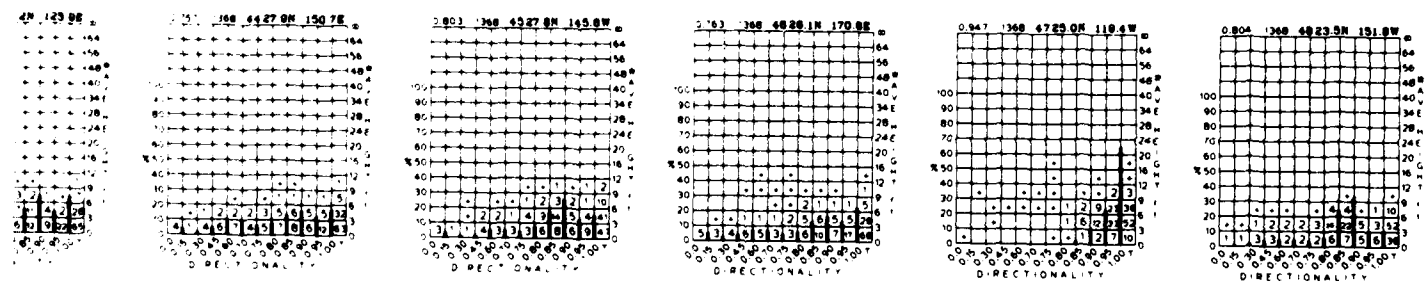


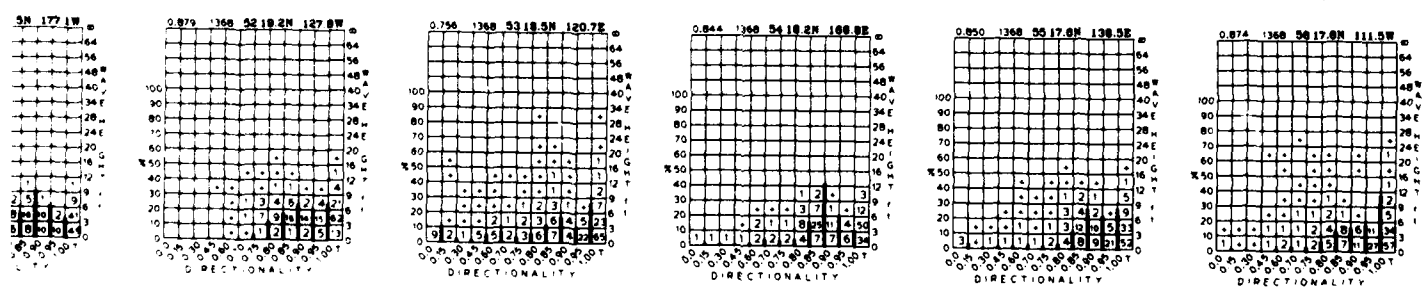


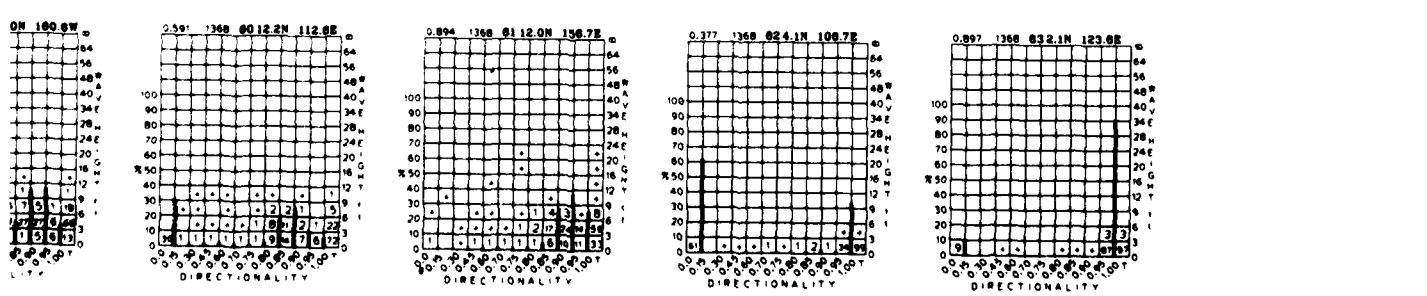
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JUNE



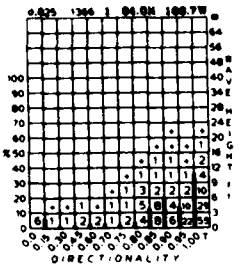


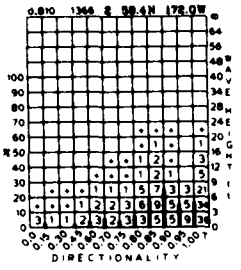


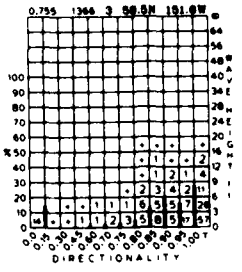


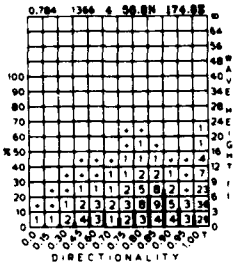
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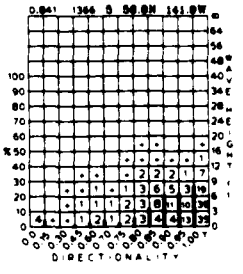
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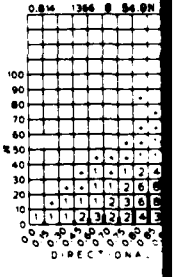


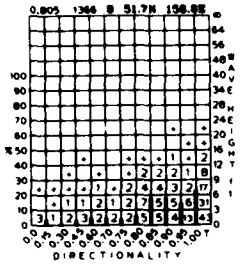


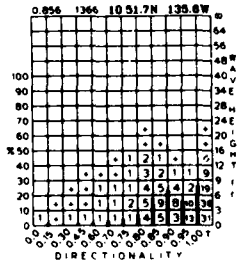


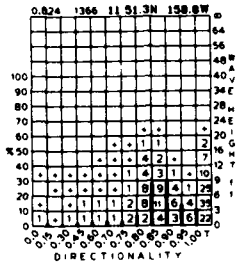


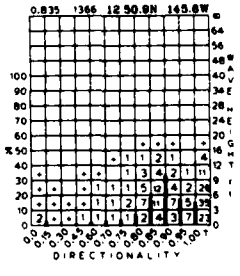


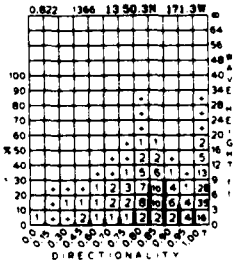


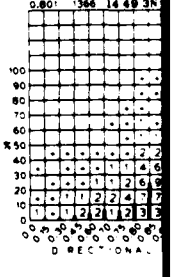


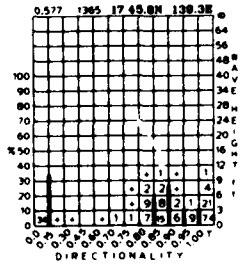


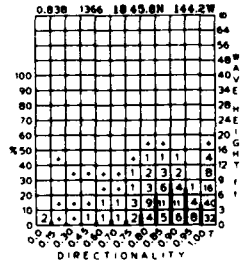


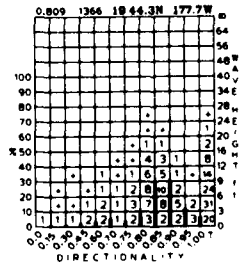


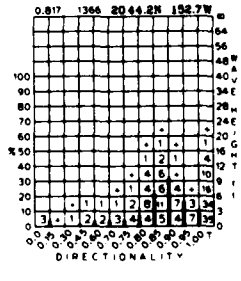


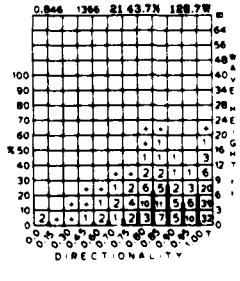


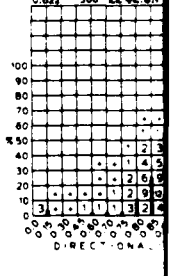


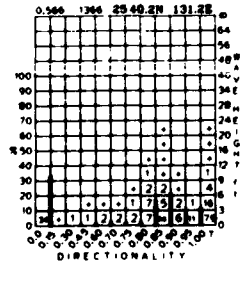


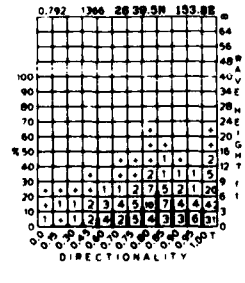


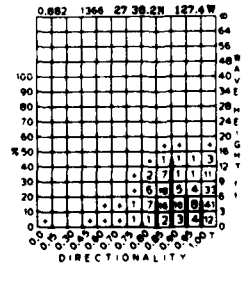


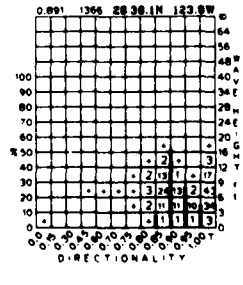


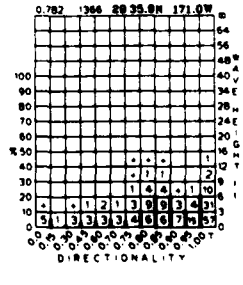


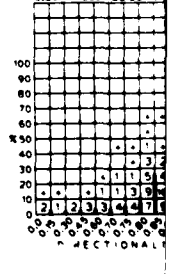




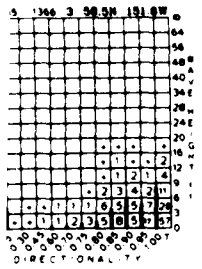


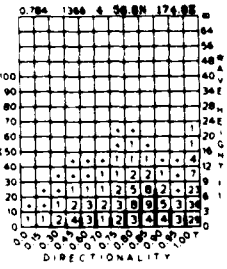


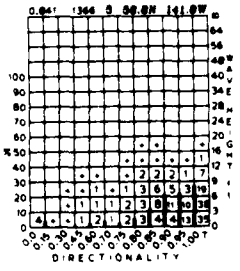


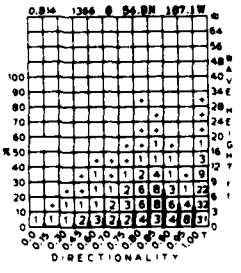


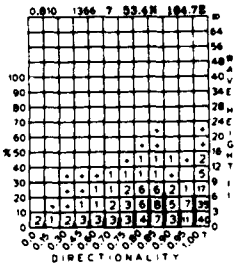
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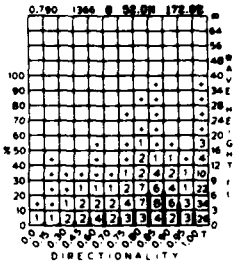


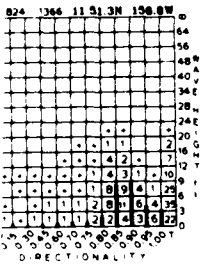


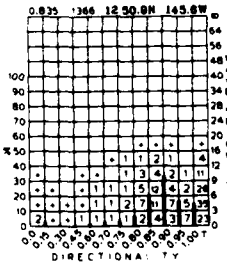


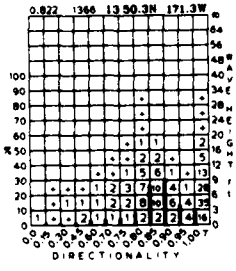


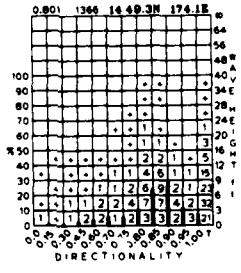


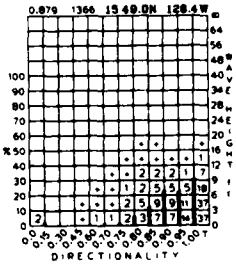


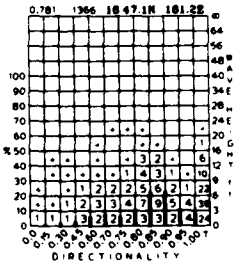


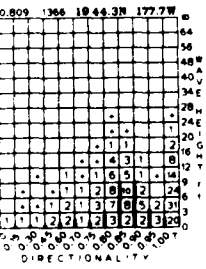


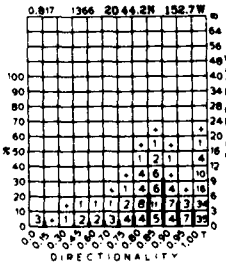


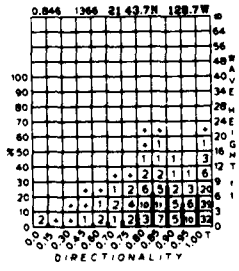


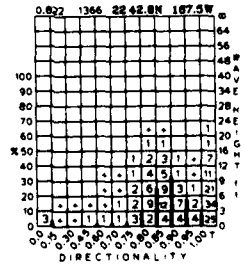


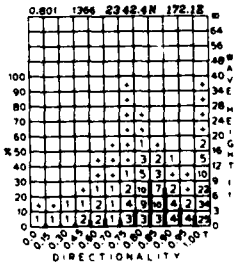


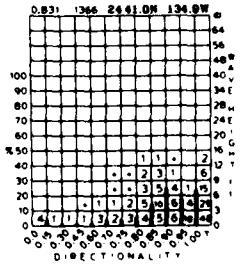


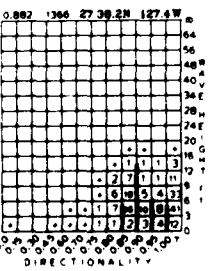


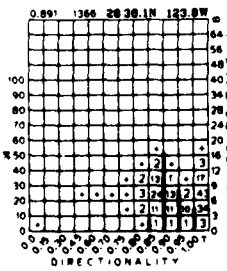


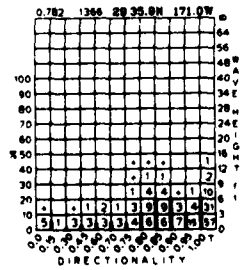


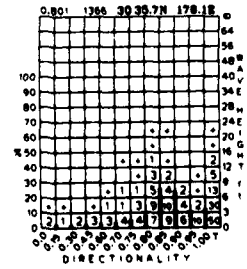


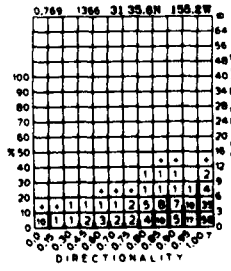


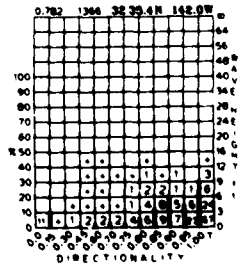






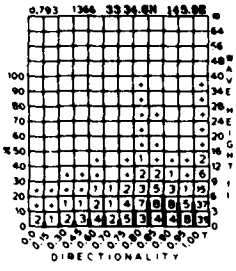


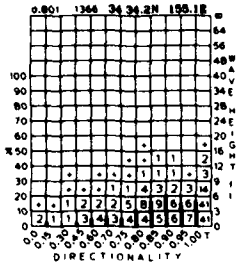


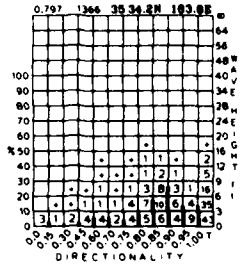


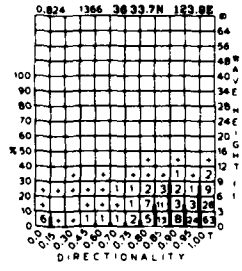
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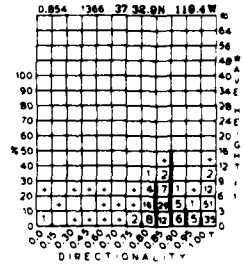
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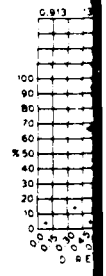


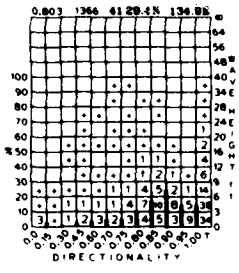


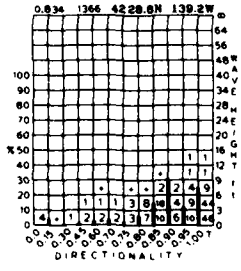


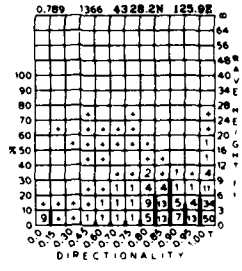


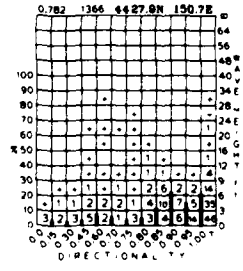


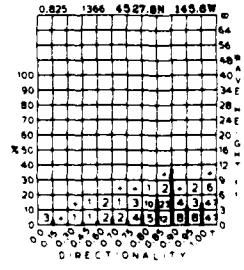


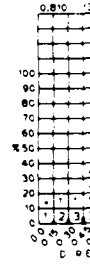


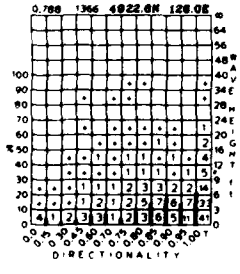


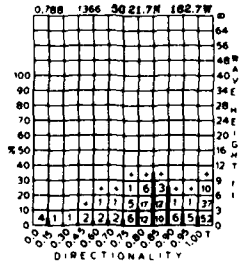


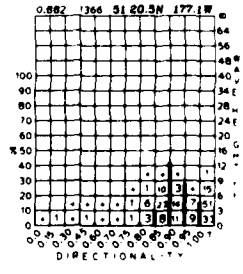


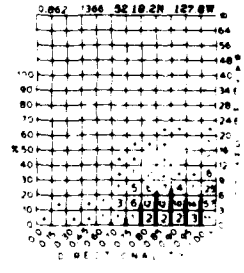


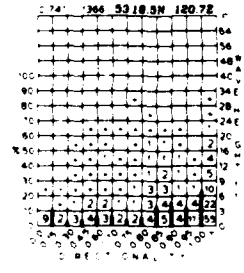


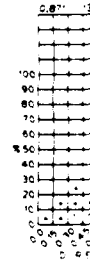


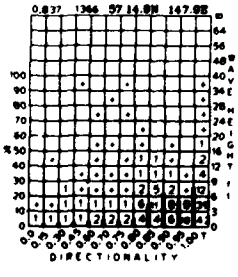


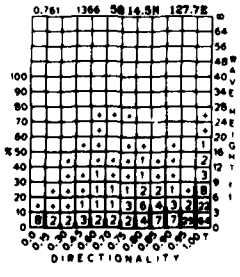


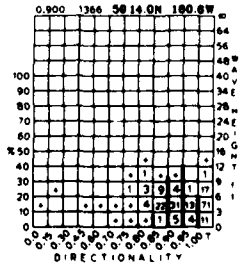


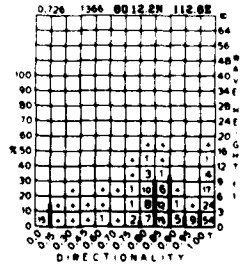


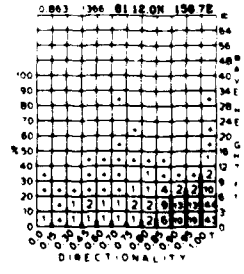


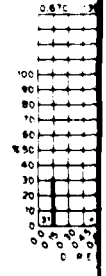






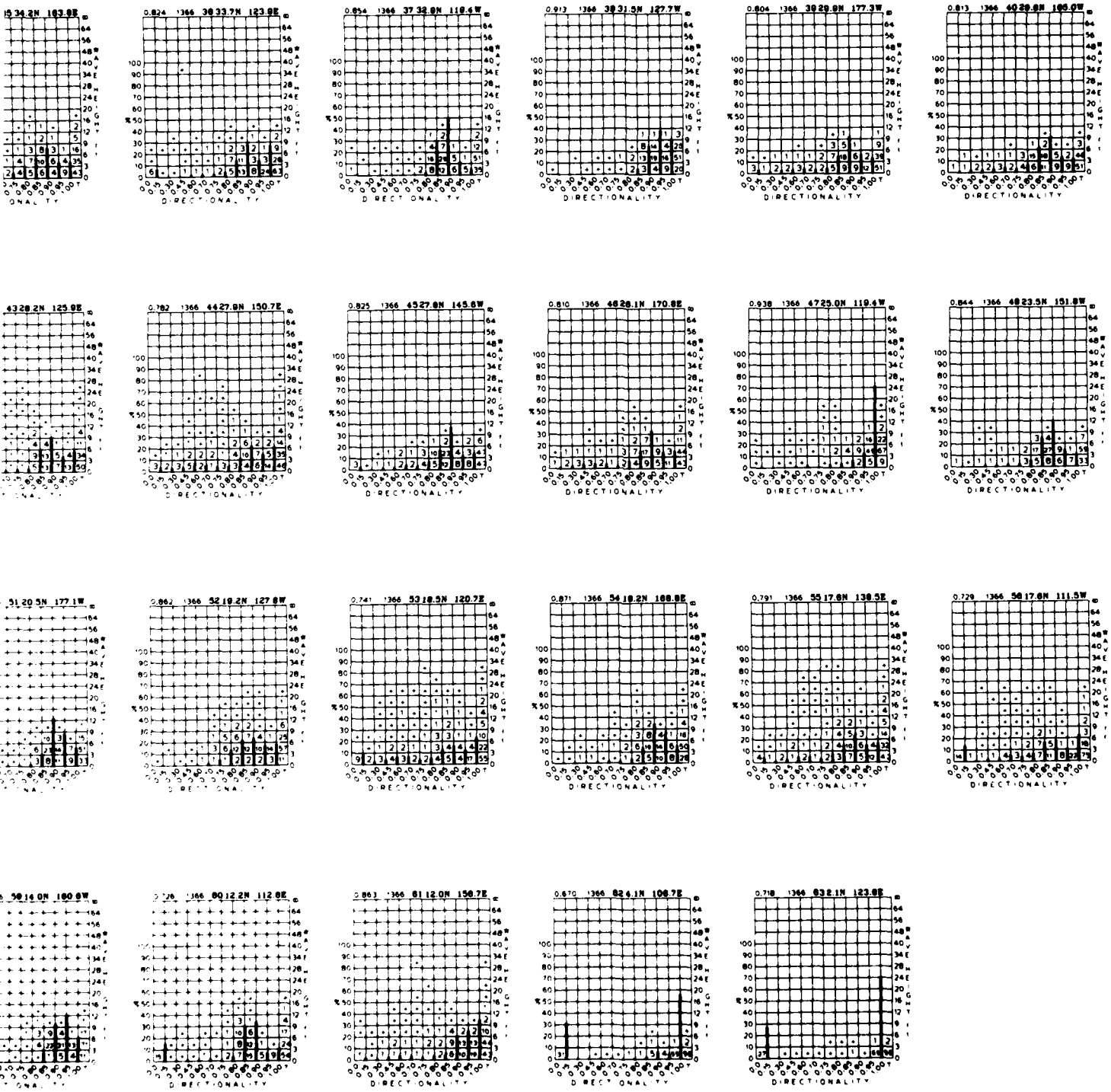






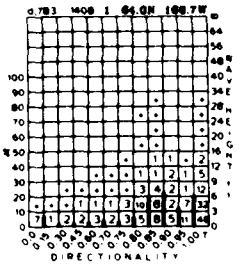
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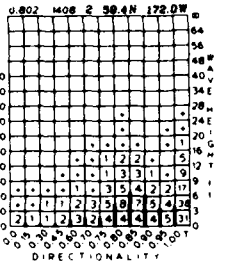
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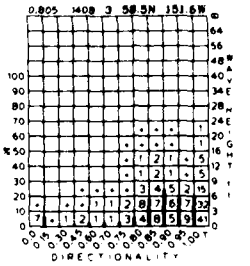


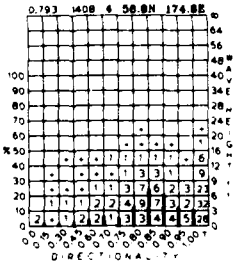
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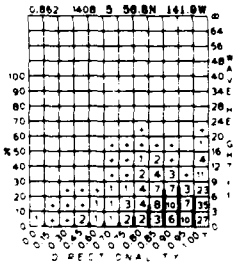
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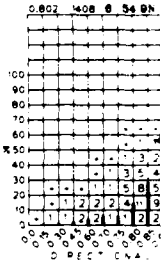


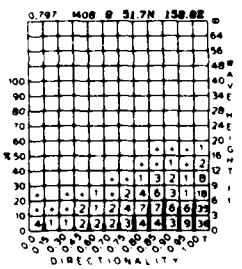


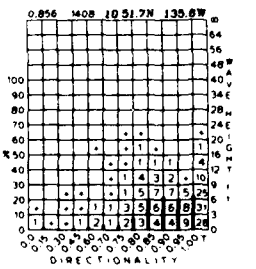


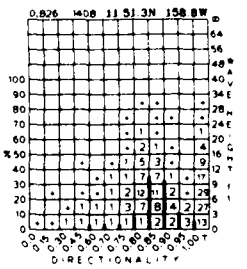


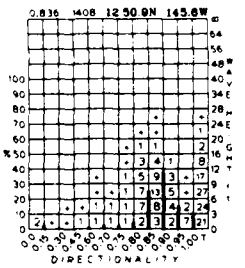


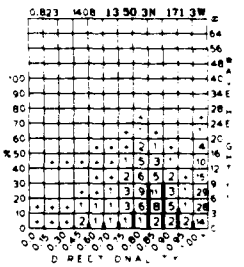


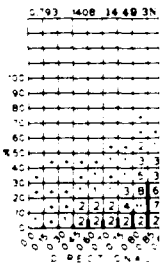


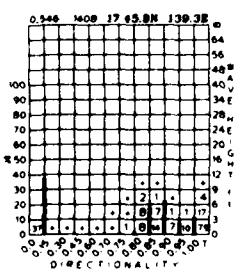


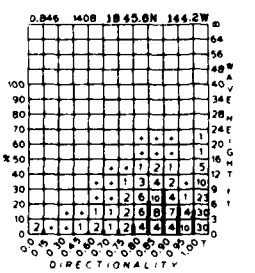


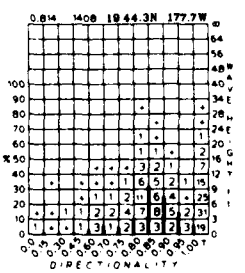


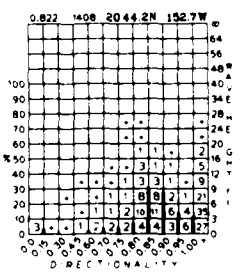


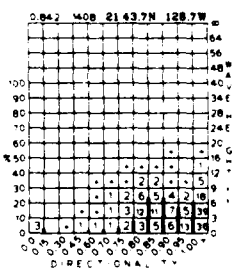


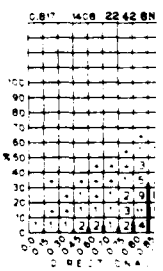


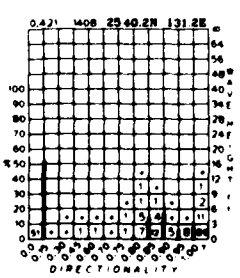


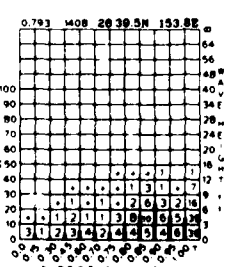


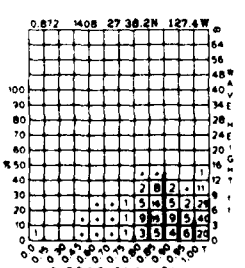


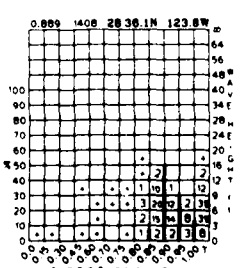


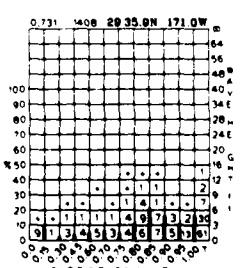


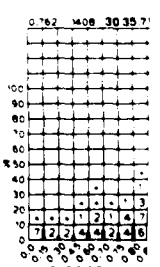




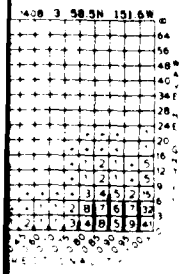


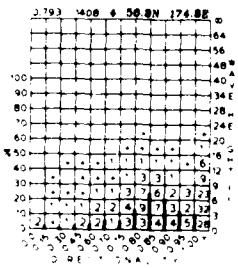


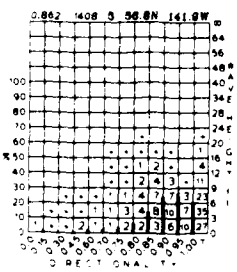


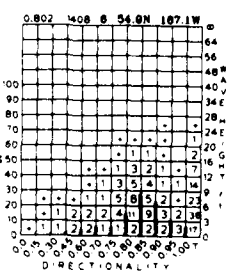


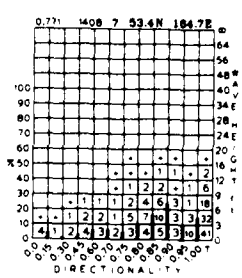
WAVE HEIGHT AND DIRECTIONALITY

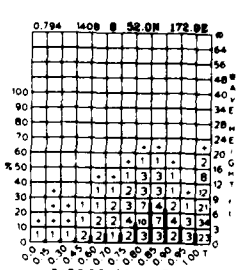


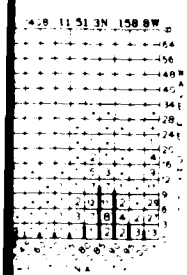


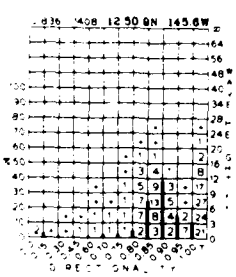


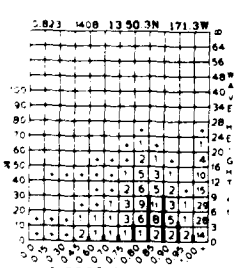


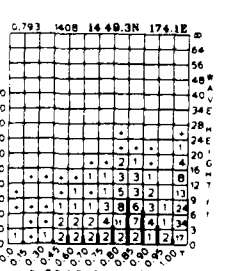


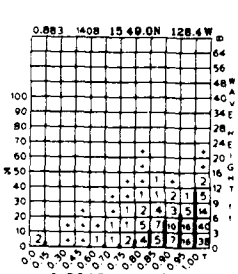


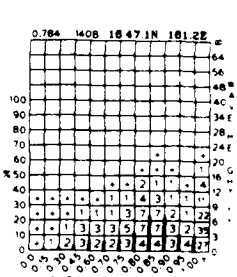


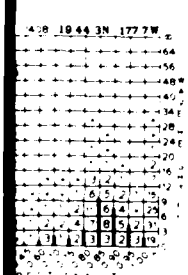


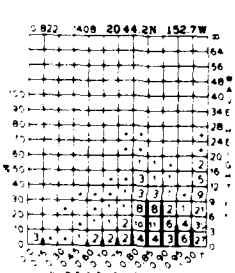


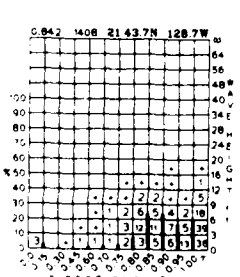


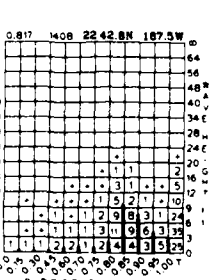


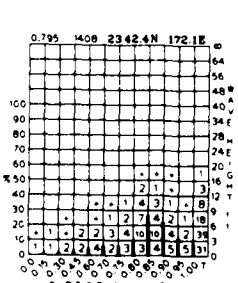


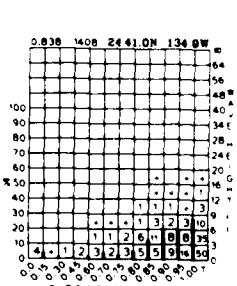


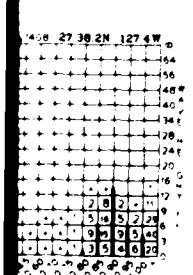


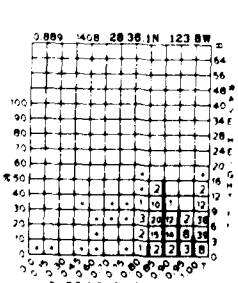


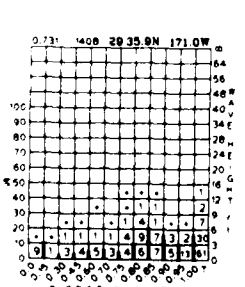


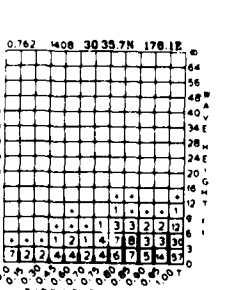


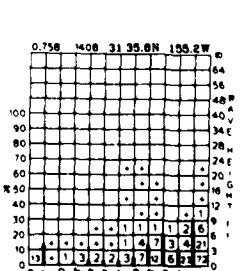


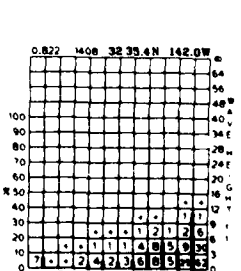




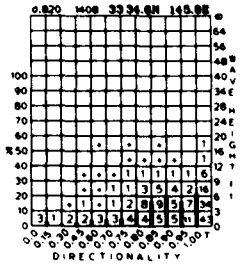


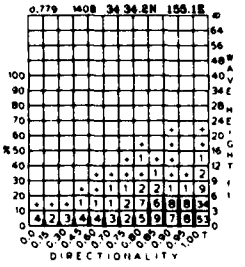


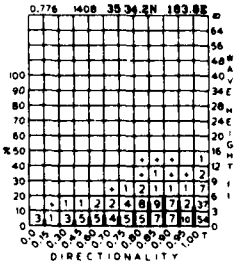


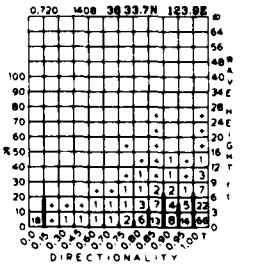


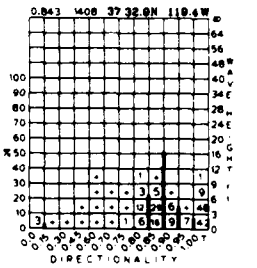
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

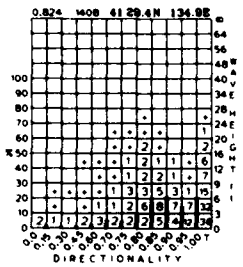


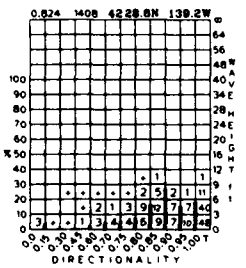


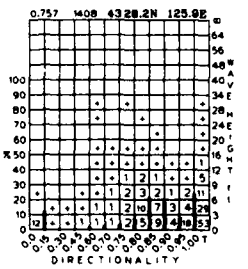


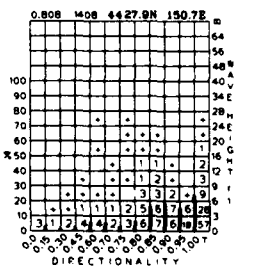


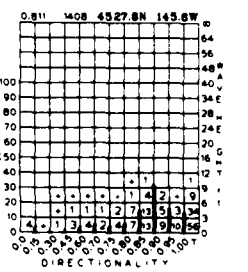


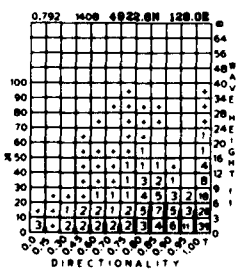


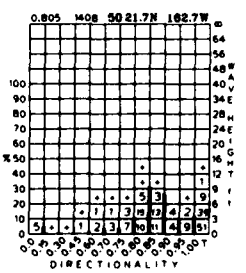


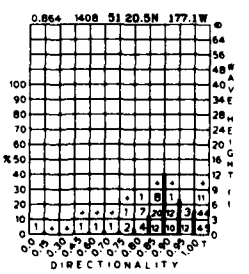


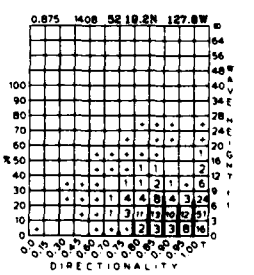


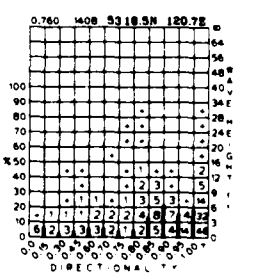


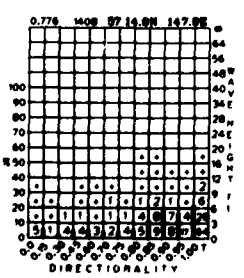


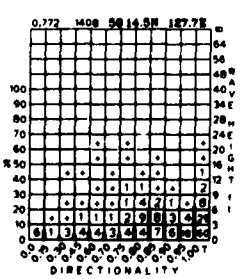


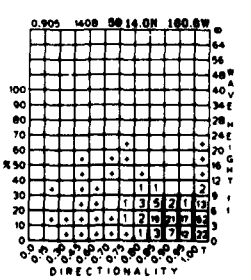


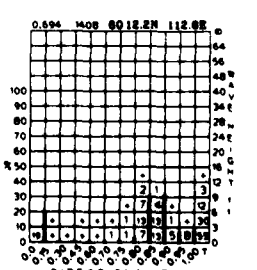


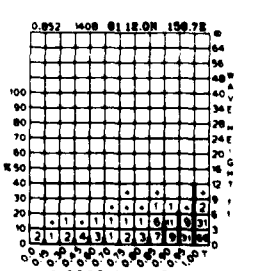






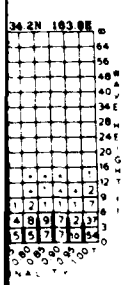


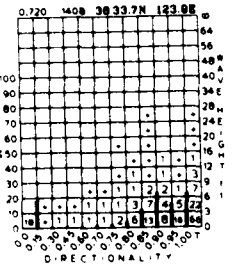


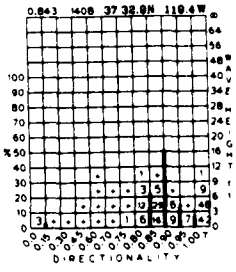


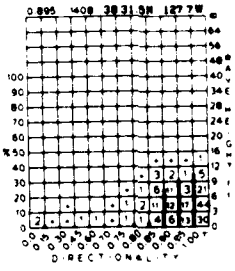
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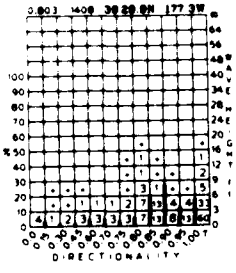
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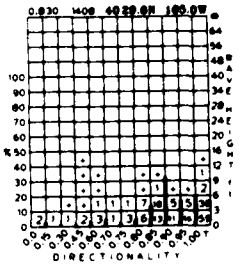


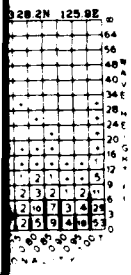


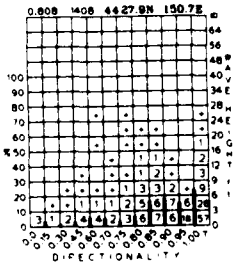


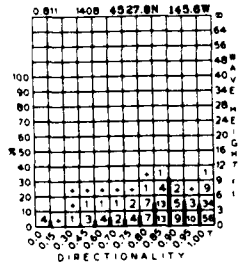


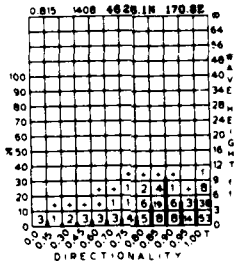


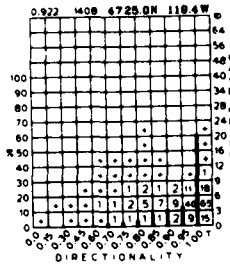


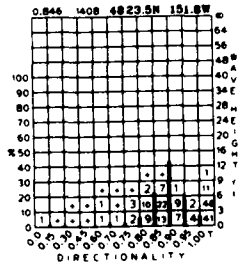


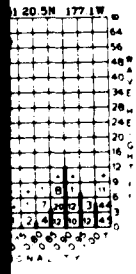


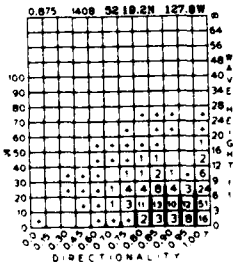


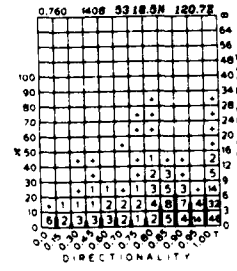


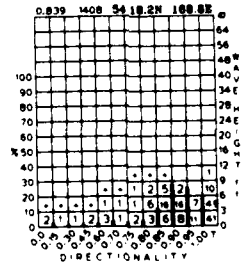


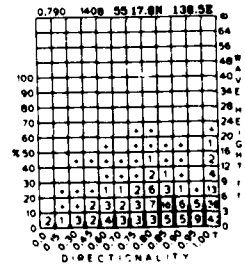


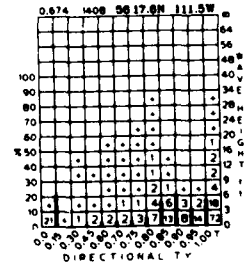


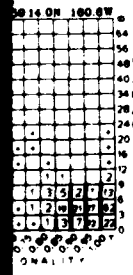


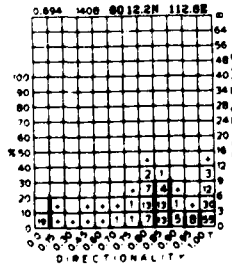


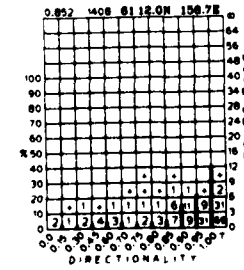


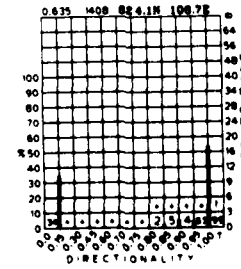


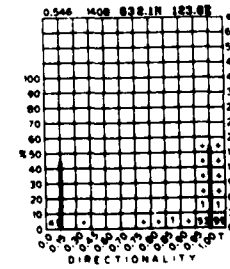








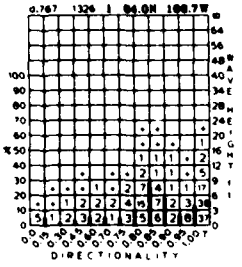


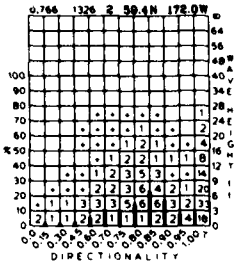


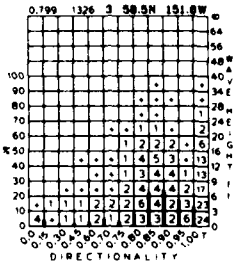
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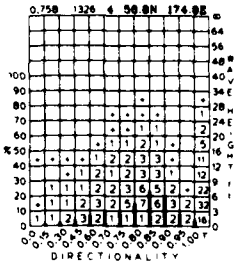
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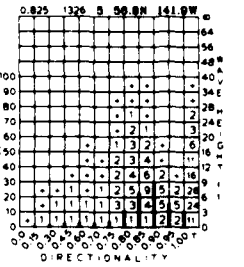
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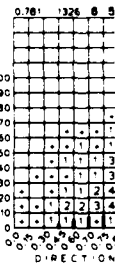


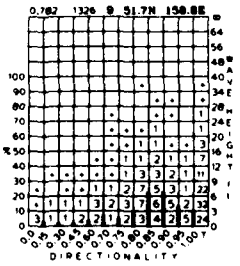


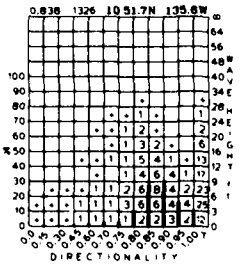


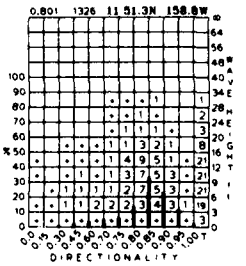


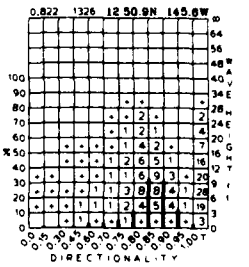


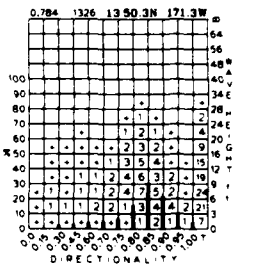


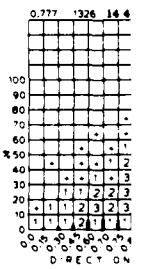


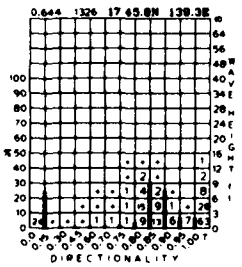


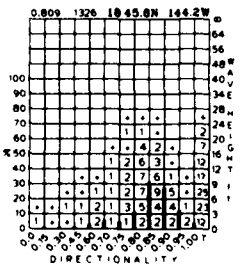


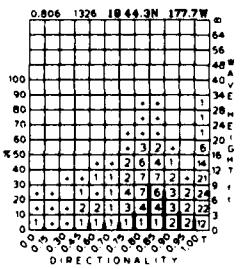


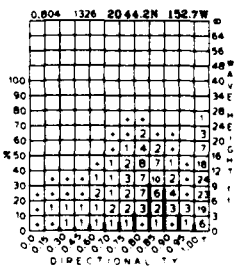


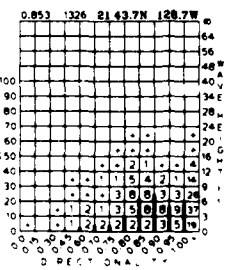


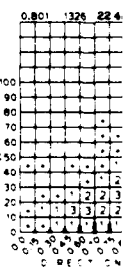


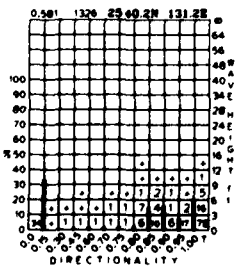


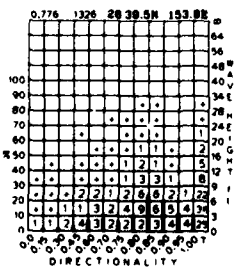


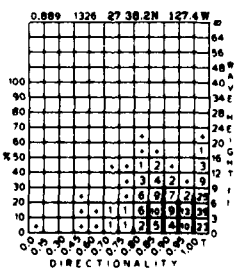


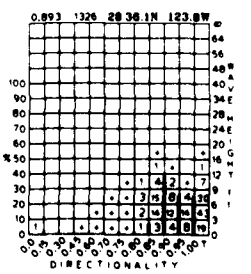


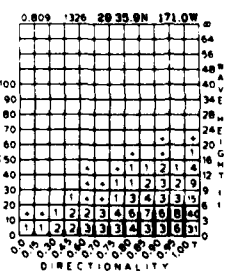


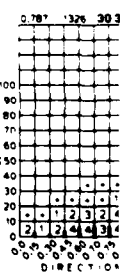




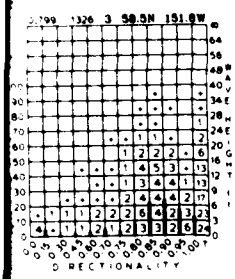


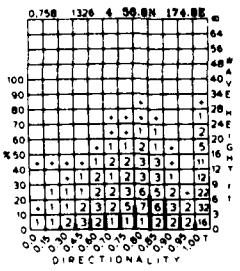


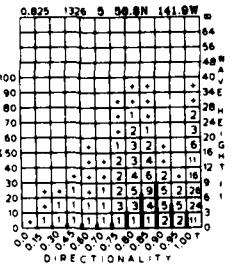


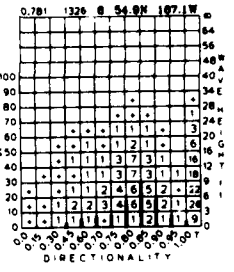


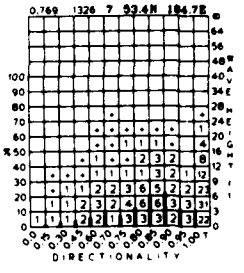
WAVE HEIGHT AND DIRECTIONALITY

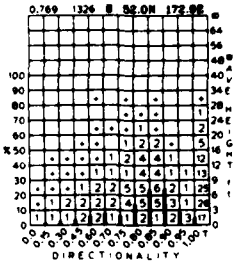


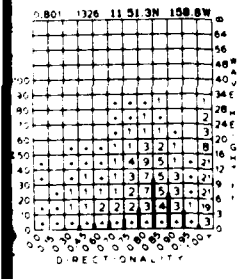


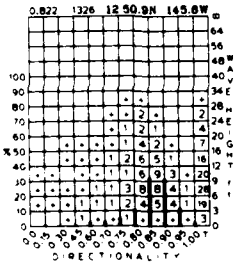


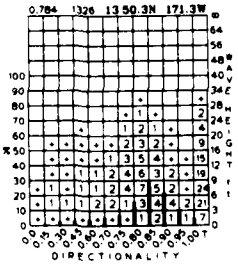


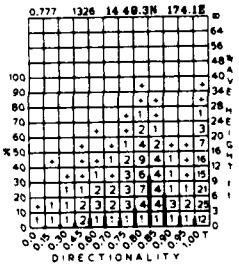


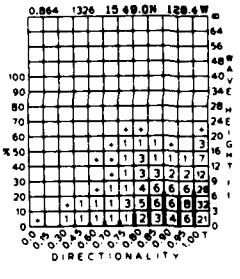


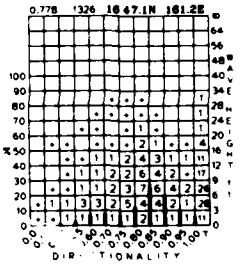


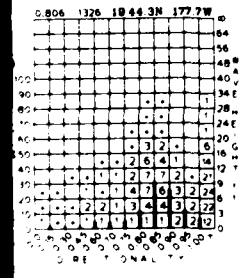


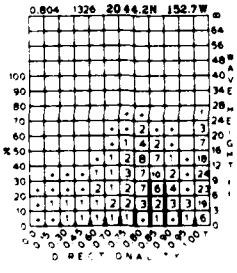


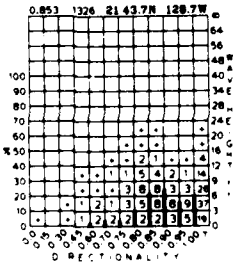


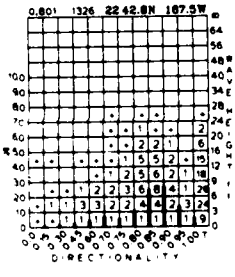


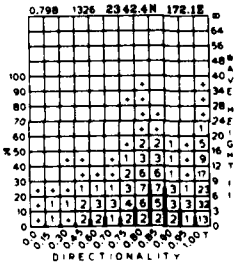


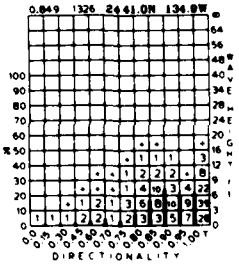


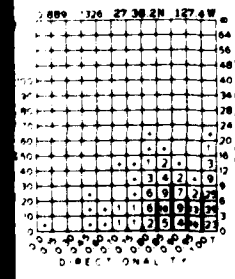


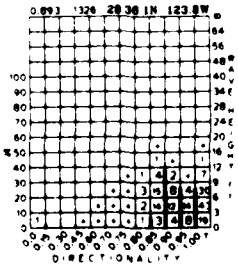


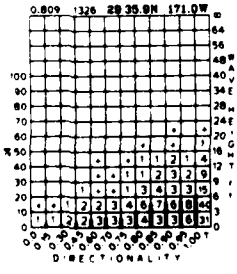


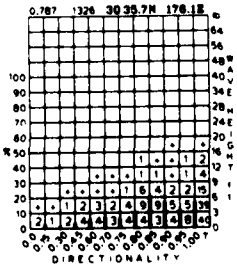


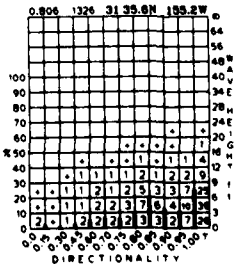


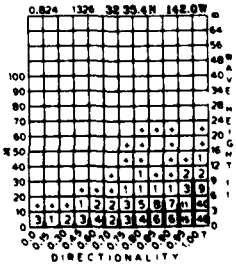




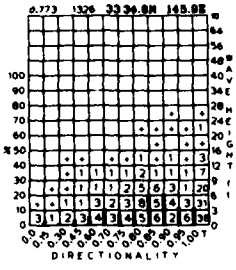


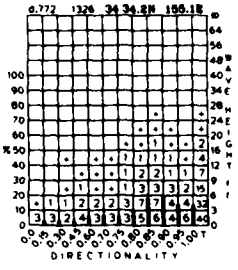


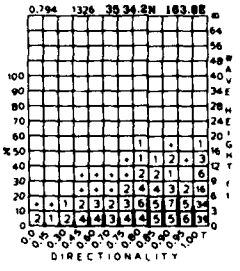


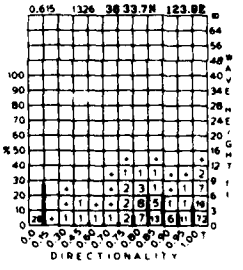


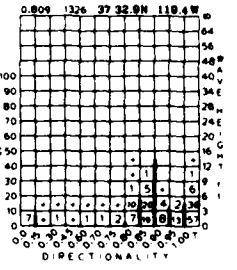
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

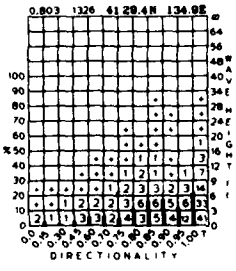


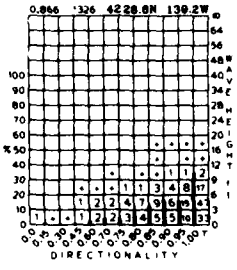


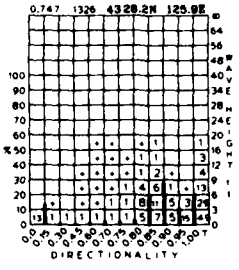


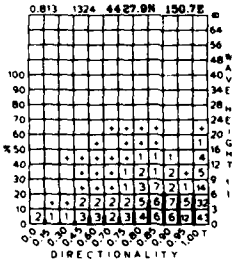


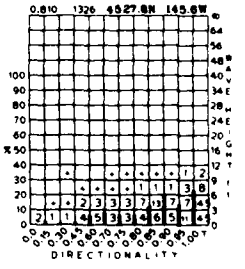


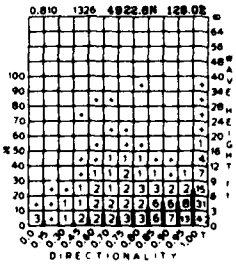


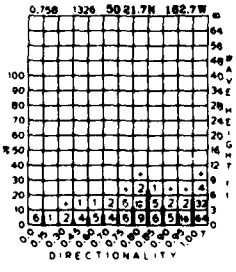


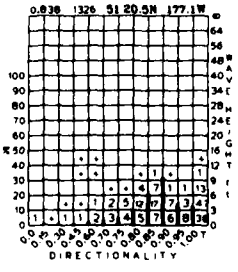


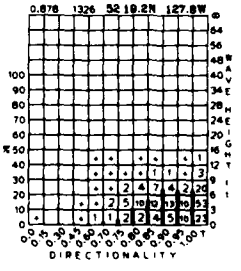


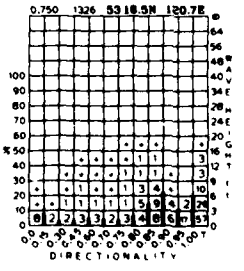


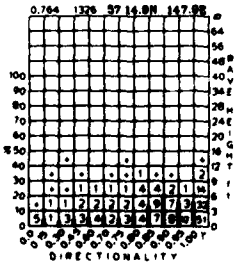


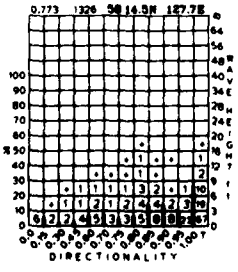


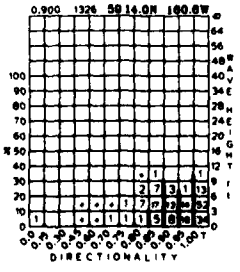


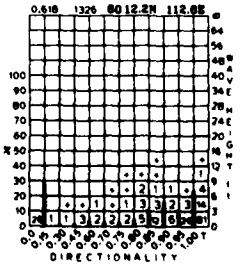


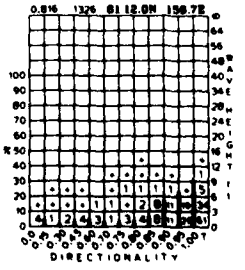






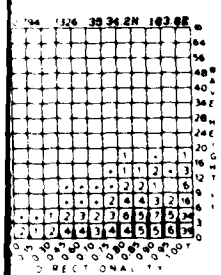
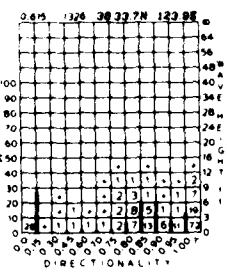
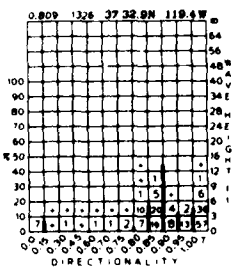
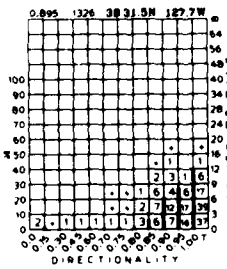
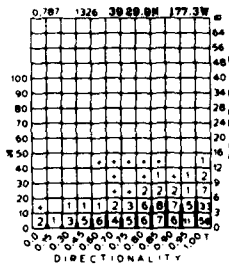
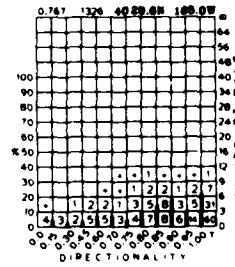


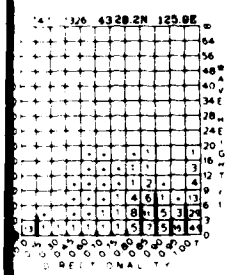
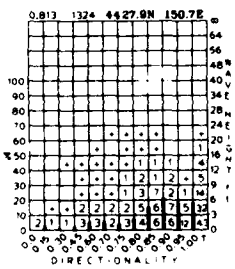
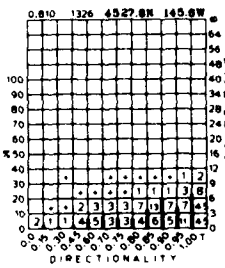
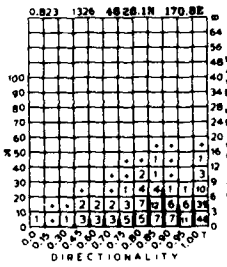
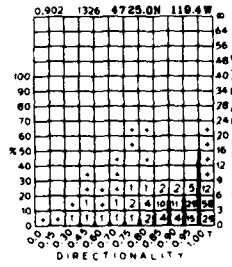
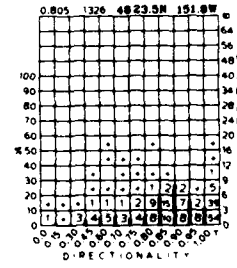


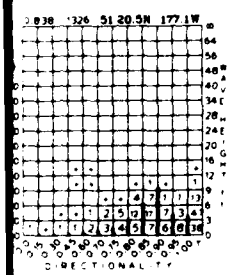
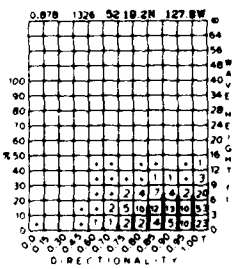
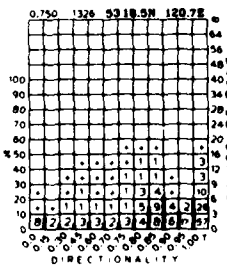
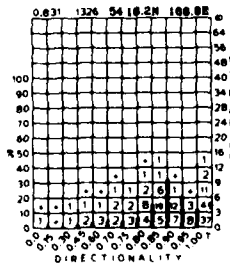
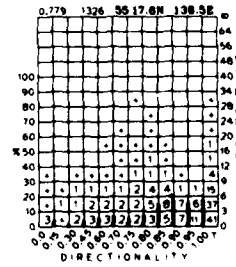
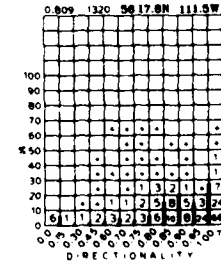


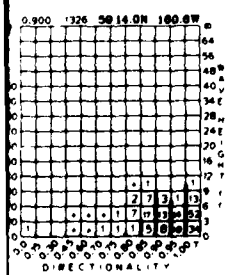
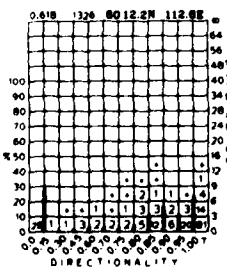
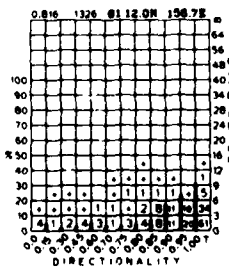
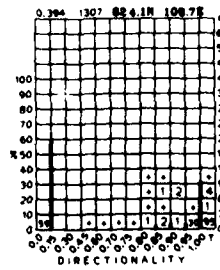
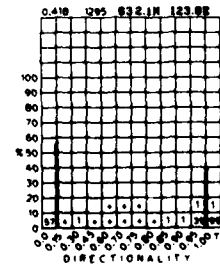
RECTIONALITY (Cont'd)

SEPTEMBER

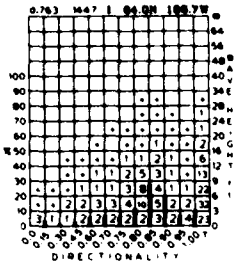







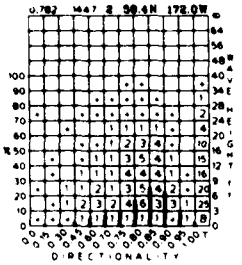






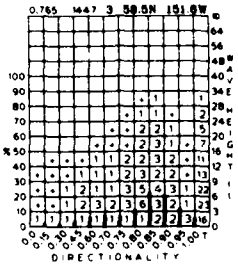
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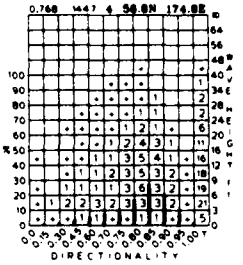
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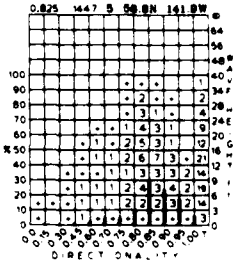
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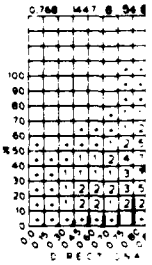


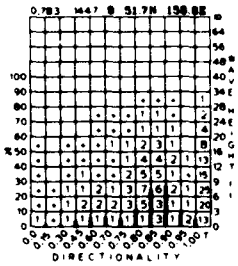


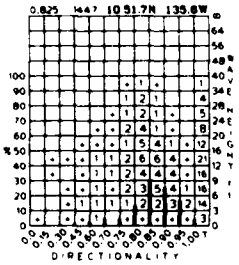


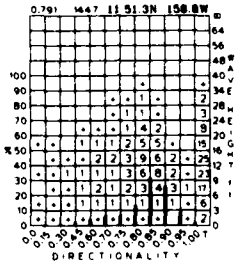


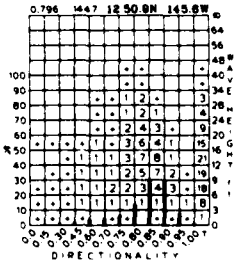


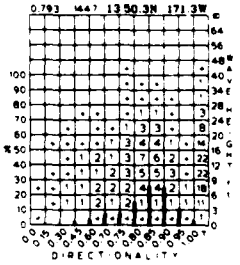


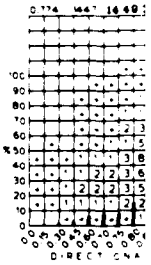


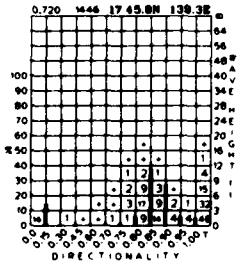


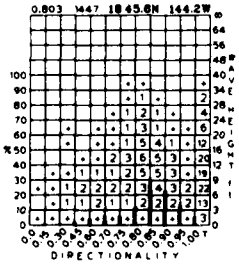


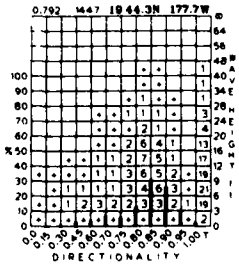


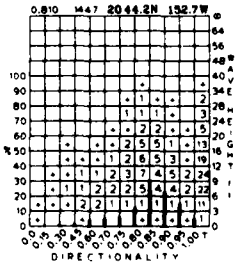


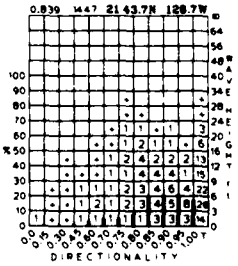


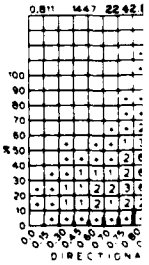


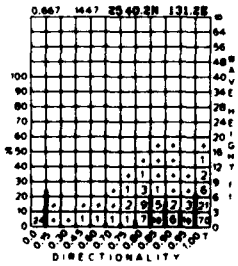


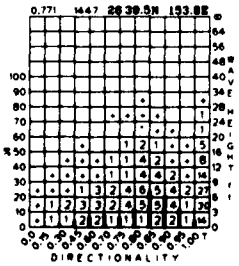


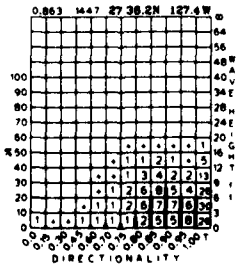


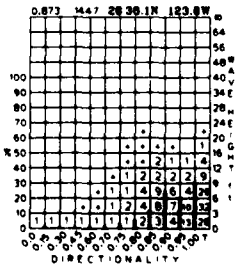


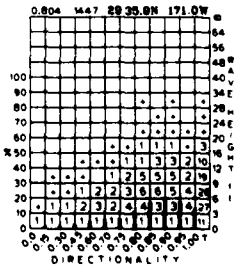


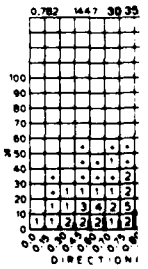




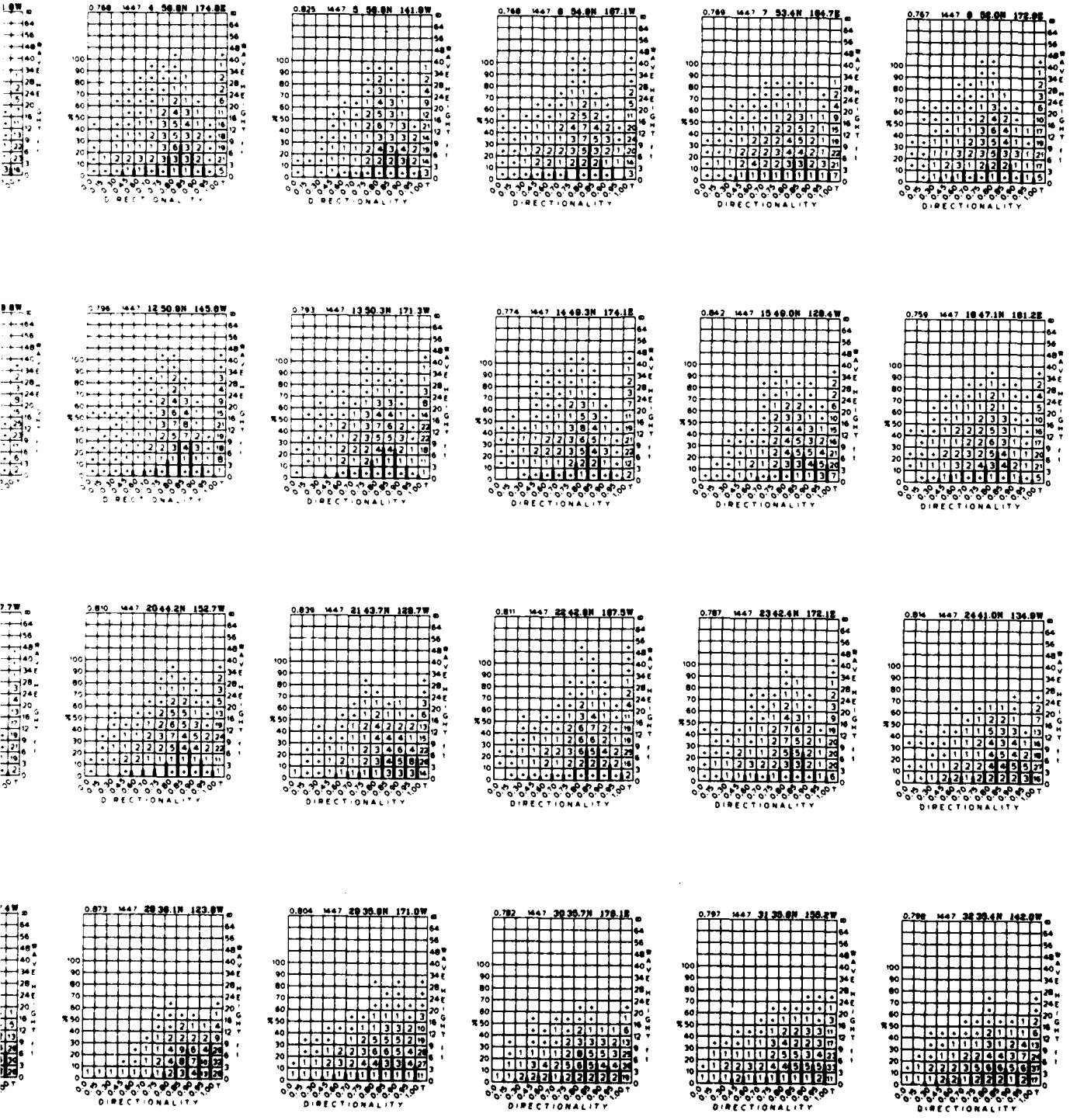




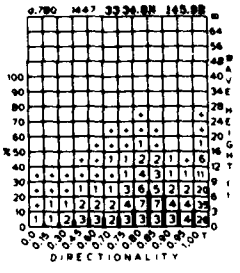


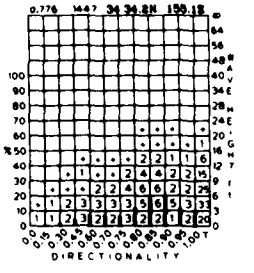


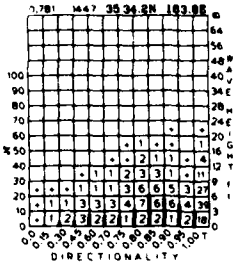
WAVE HEIGHT AND DIRECTIONALITY

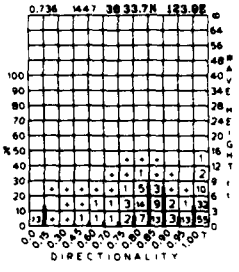


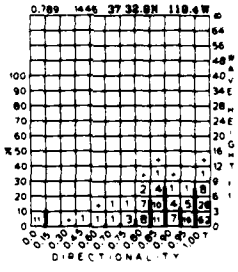
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

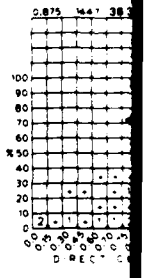


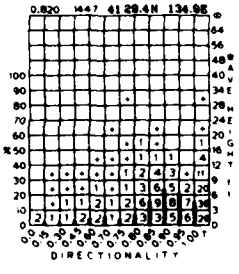


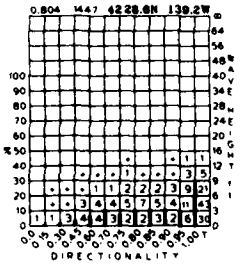


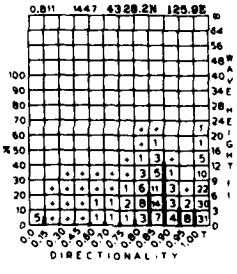


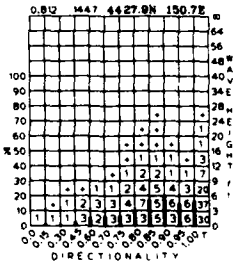


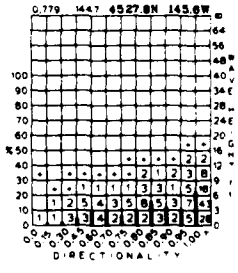


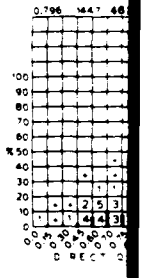


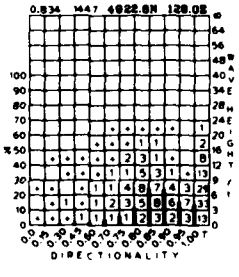


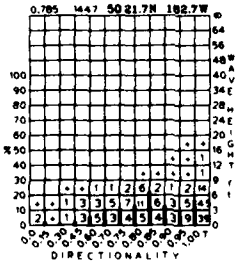


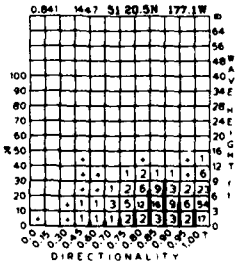


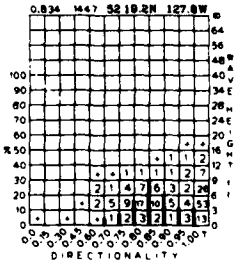


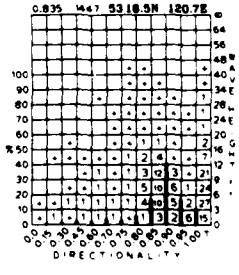


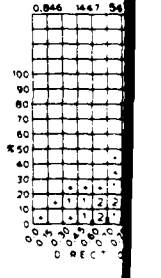


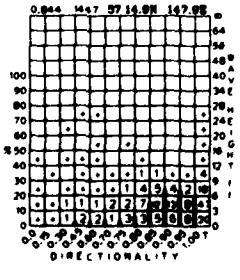


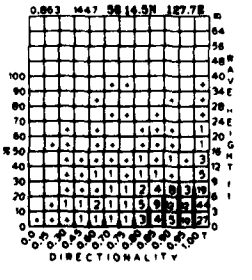


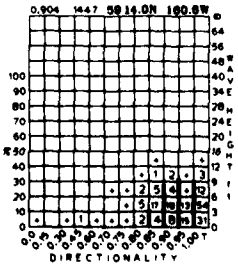


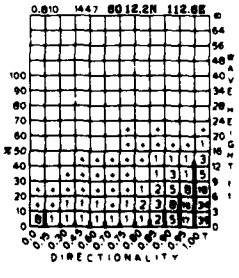


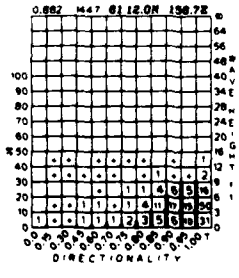


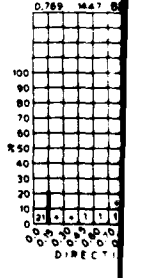






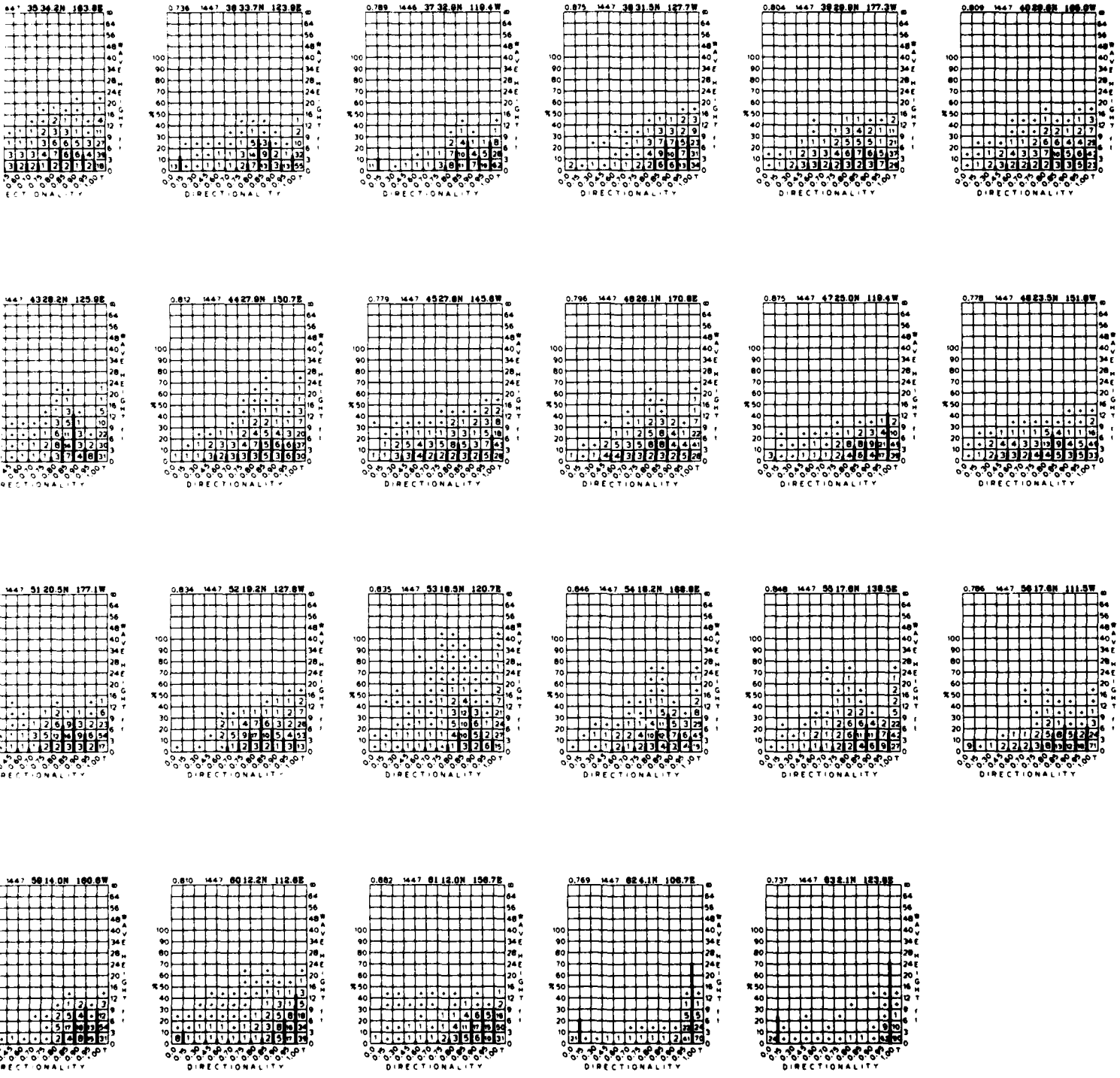






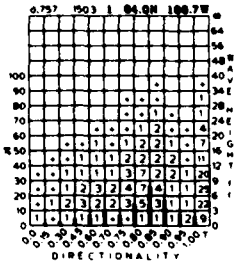
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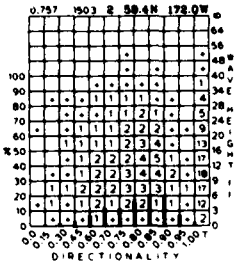
OCTOBER

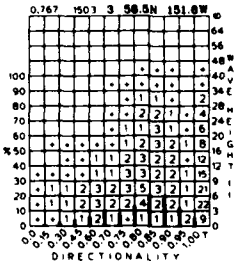


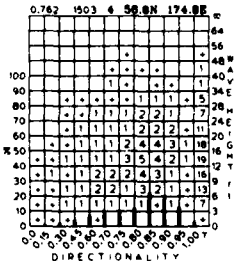
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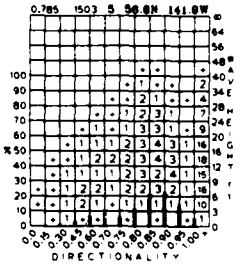
WAVE HEIGHT

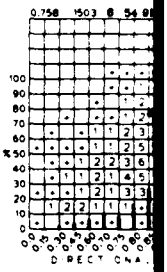


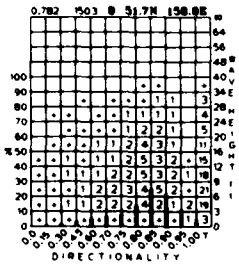


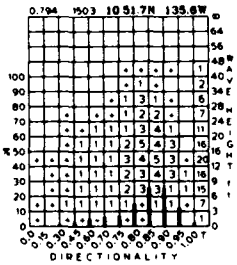


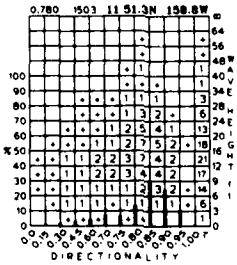


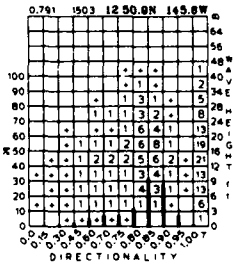


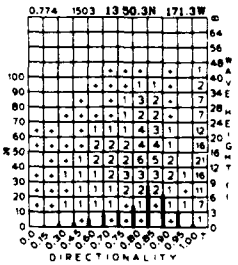


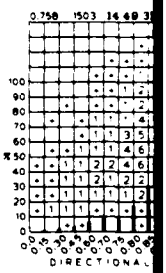


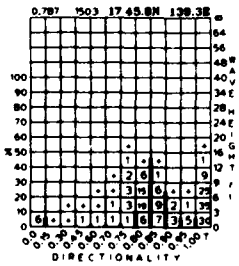


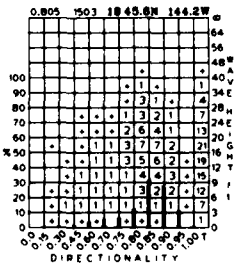


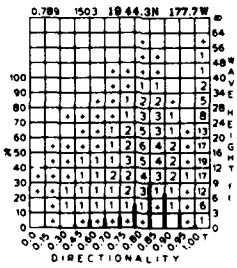


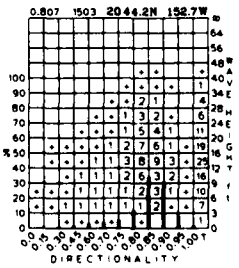


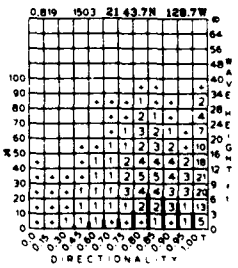


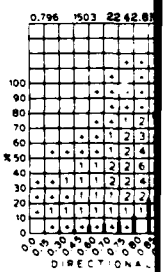


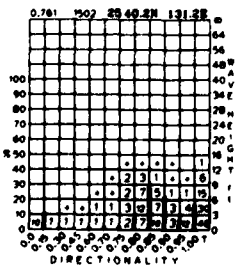


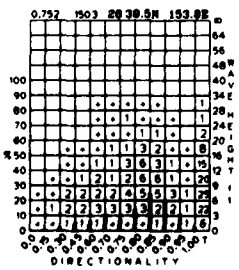


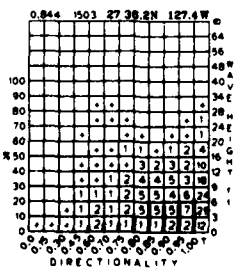


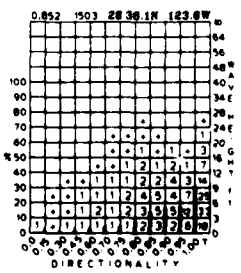


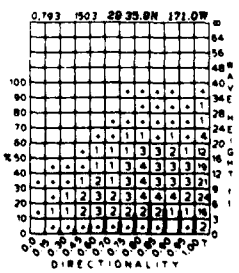


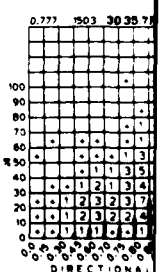




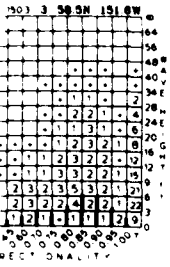


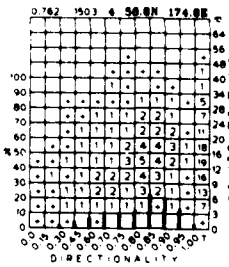


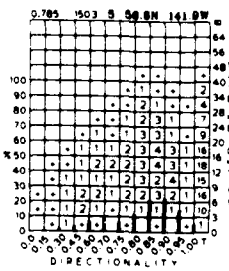


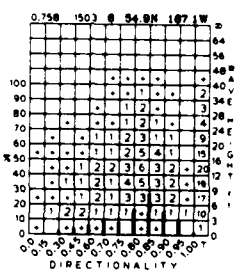


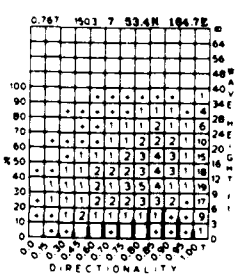
WAVE HEIGHT AND DIRECTIONALITY

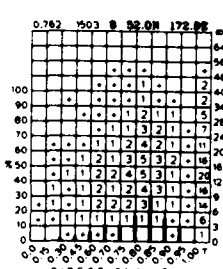


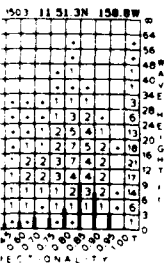


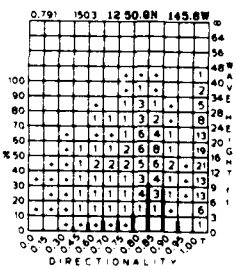


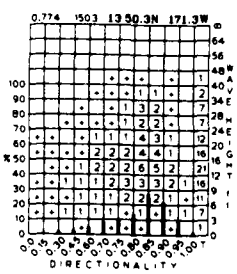


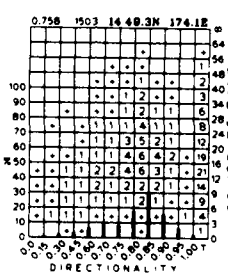


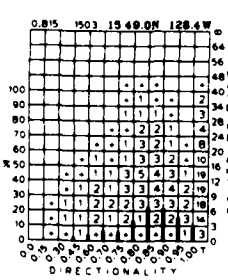


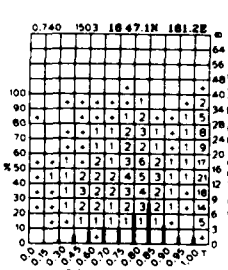


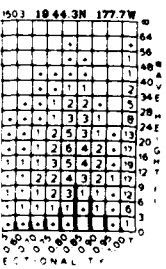


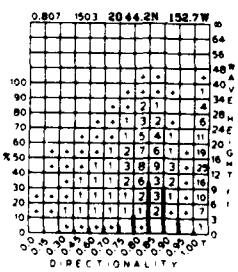


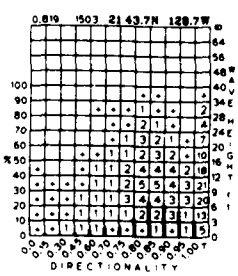


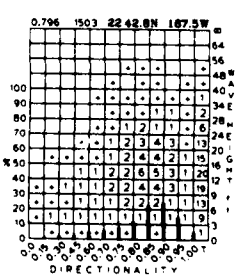


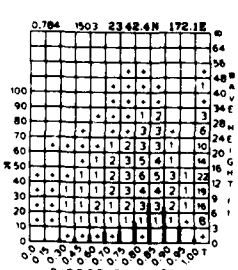


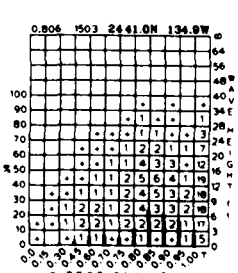


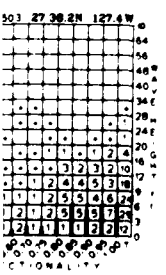


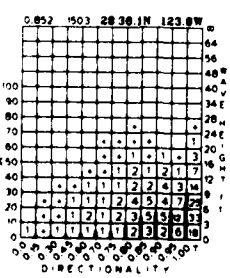


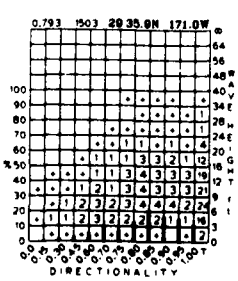


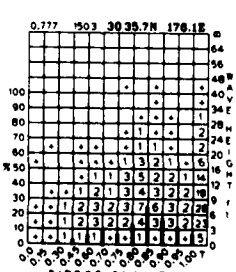


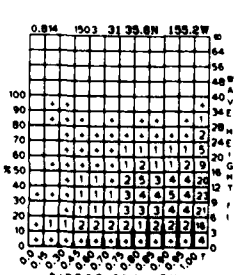


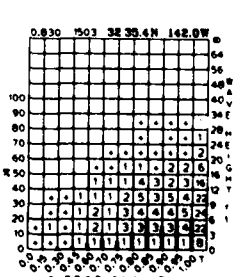




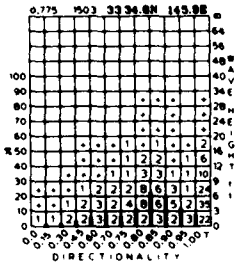


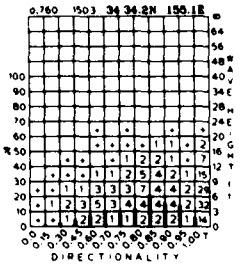


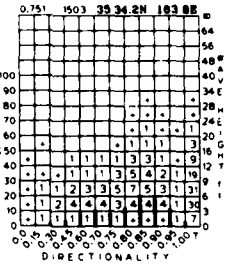


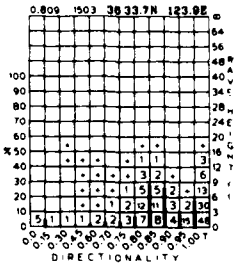


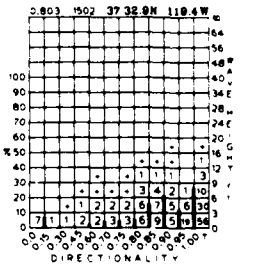
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

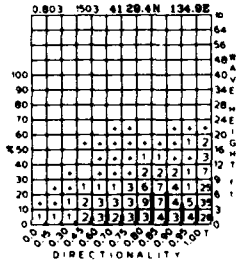


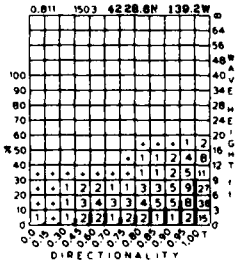


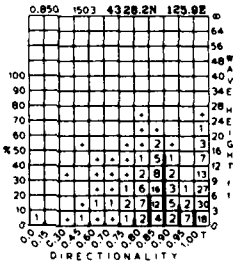


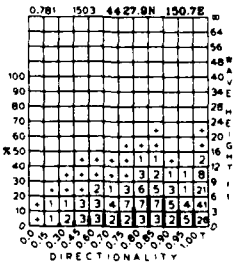


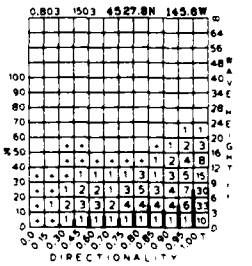


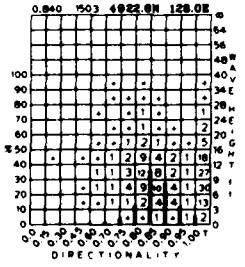


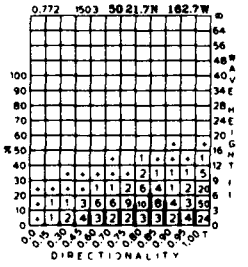


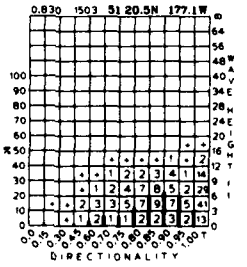


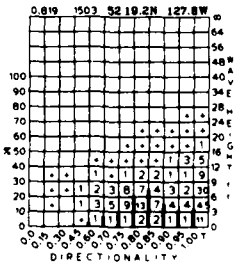


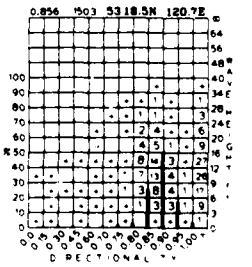


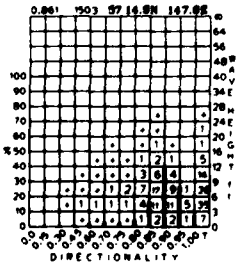


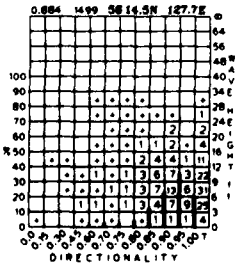


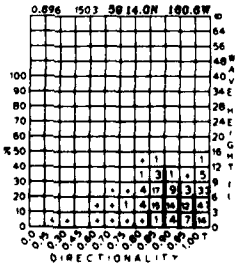


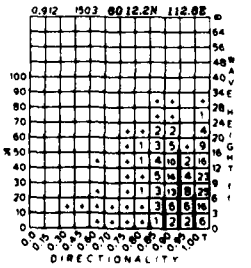


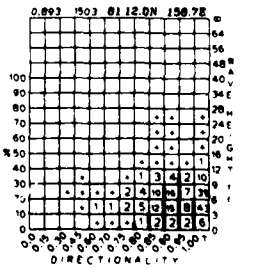






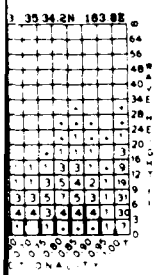


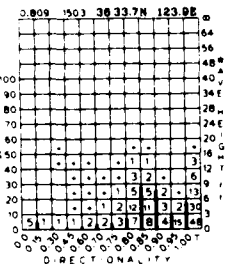


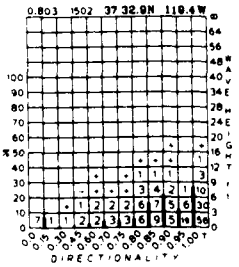


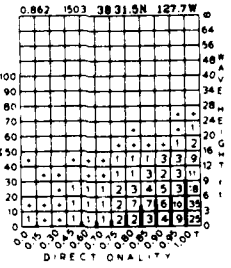
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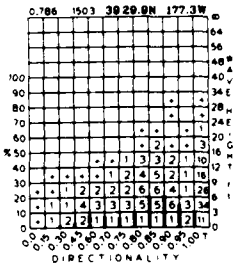
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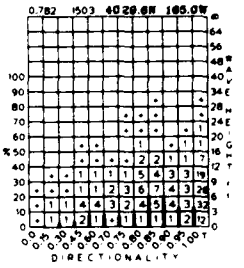


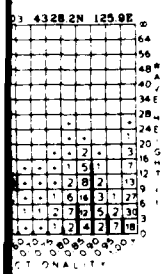


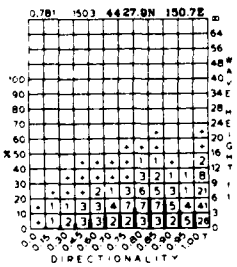


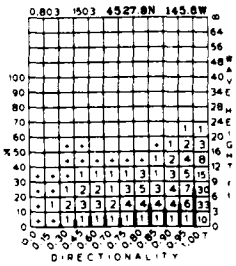


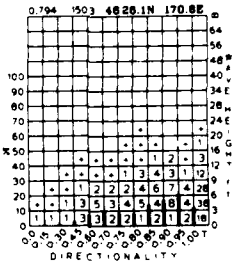


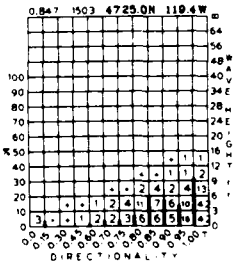


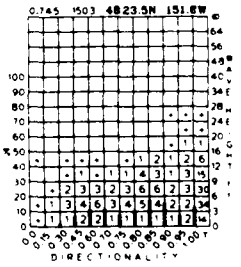


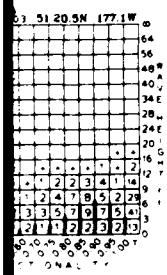


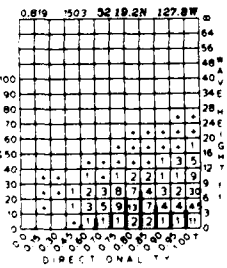


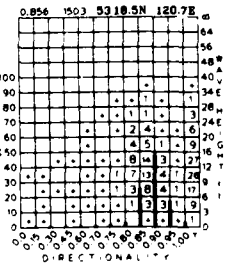


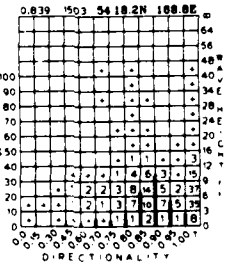


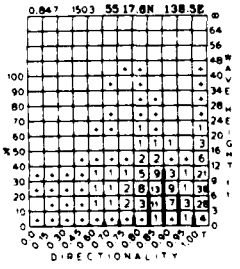


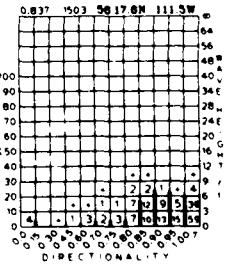


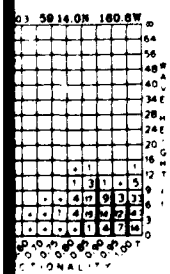


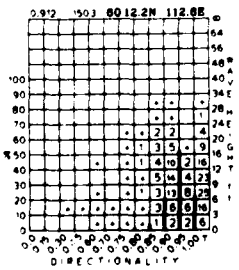


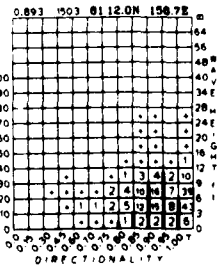


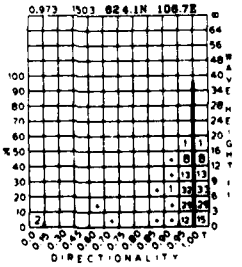


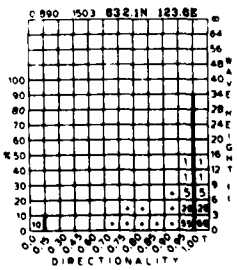








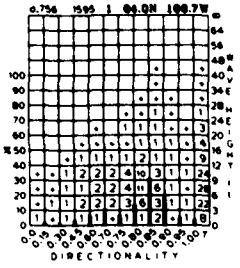


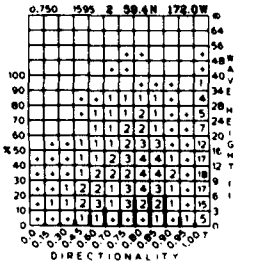


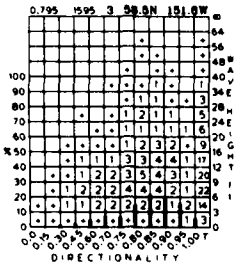
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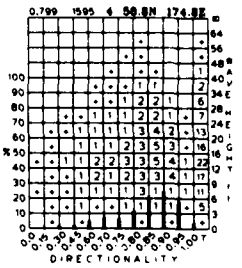
DECEMBER

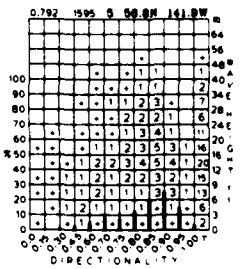
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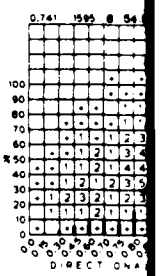


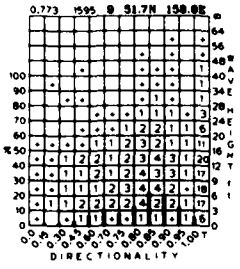


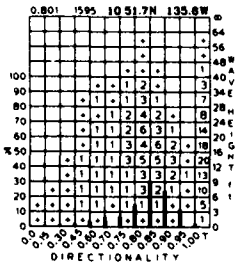


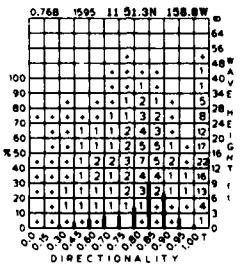


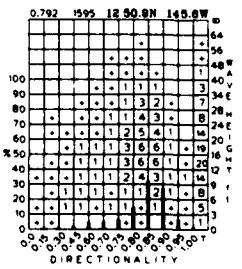


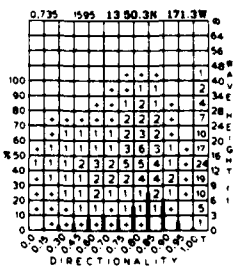


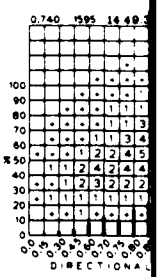


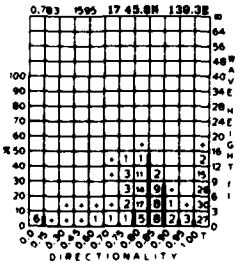


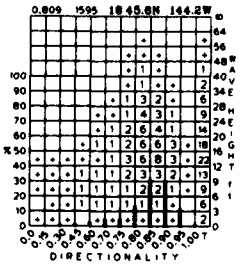


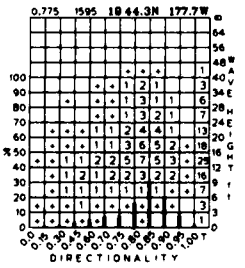


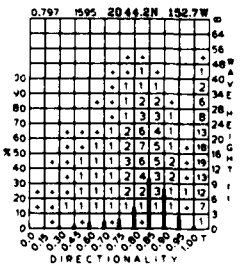


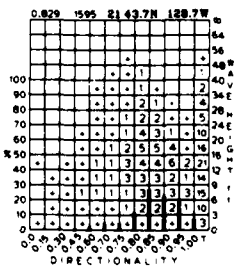


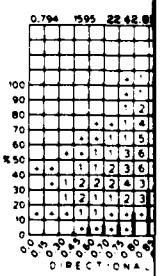


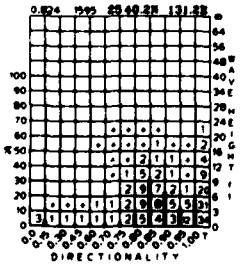


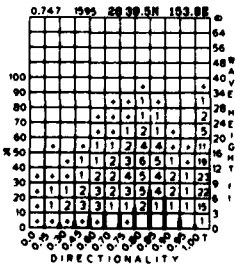


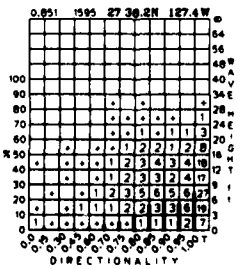


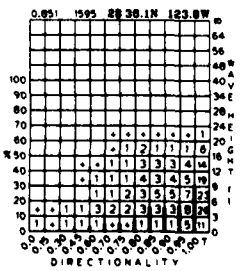


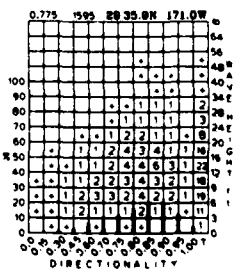


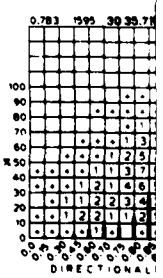






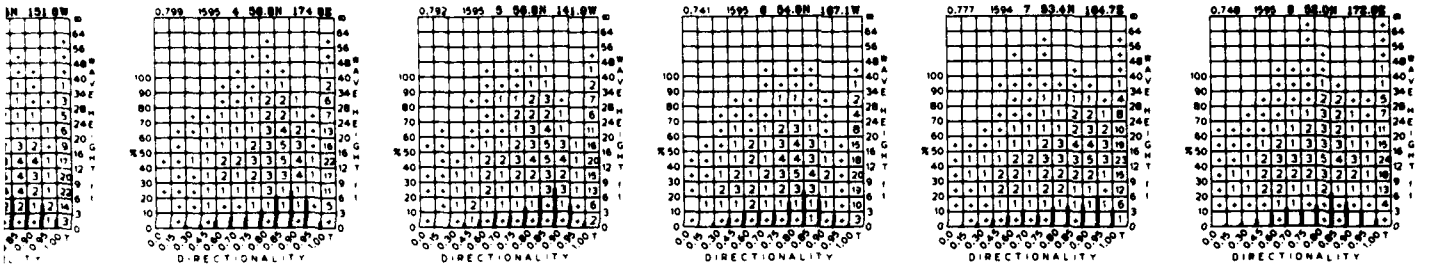


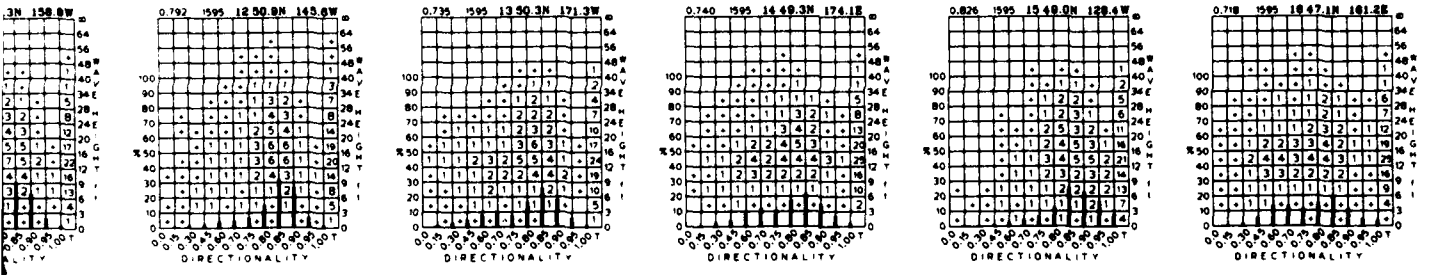


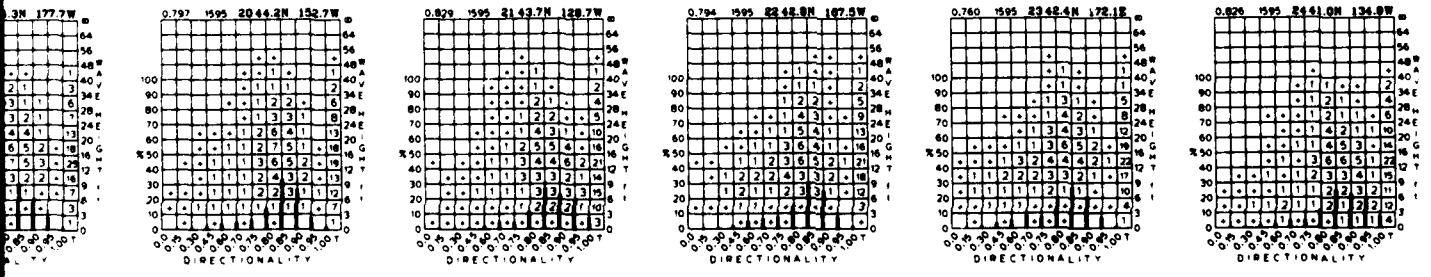


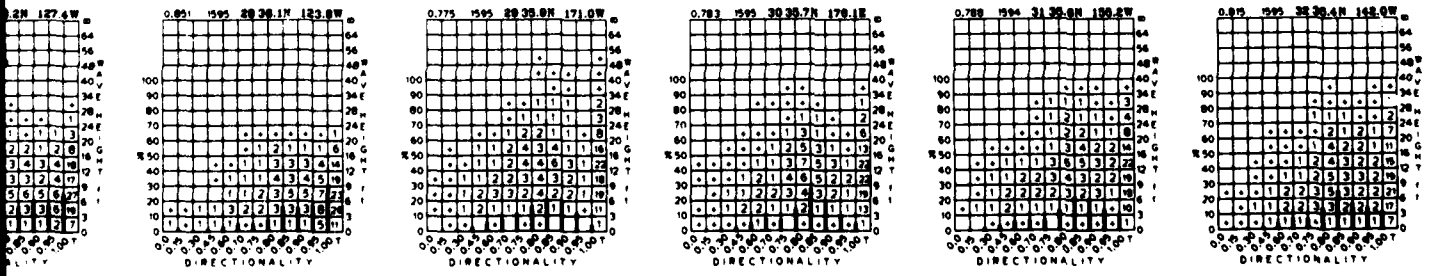
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WAVE HEIGHT AND DIRECTIONALITY

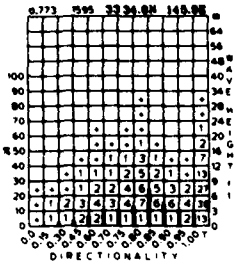


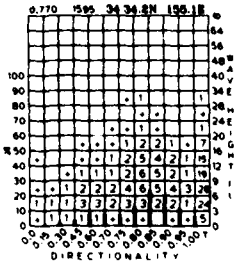


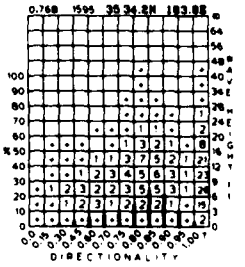


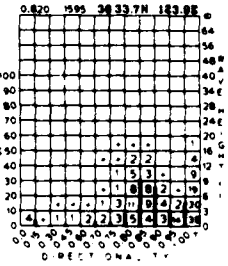


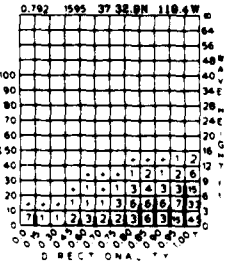
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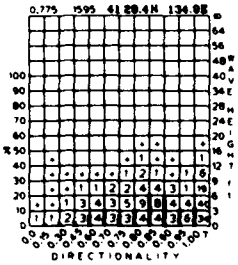


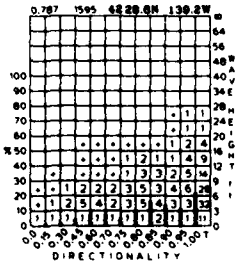


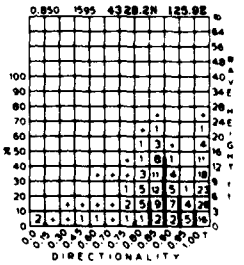


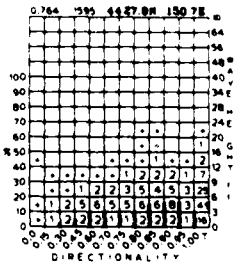


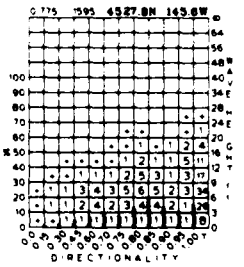


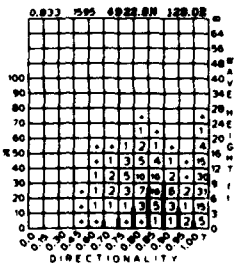


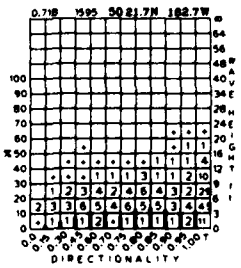


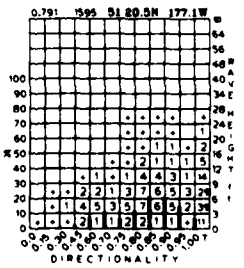


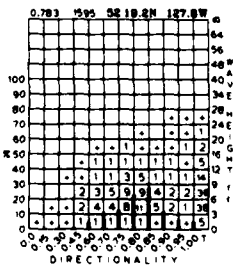


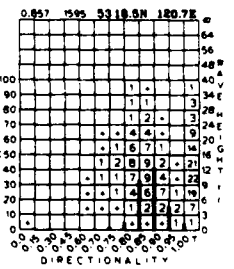


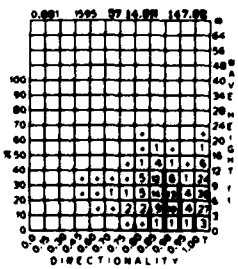


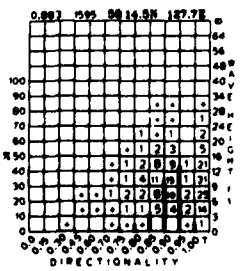


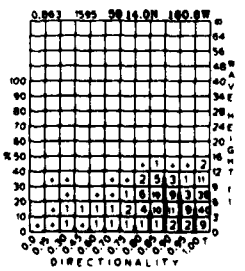


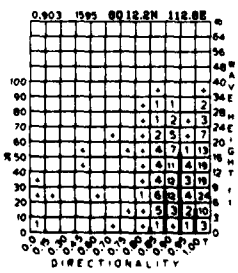


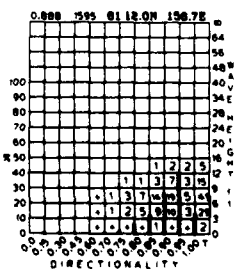






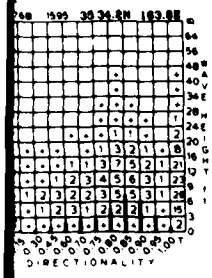


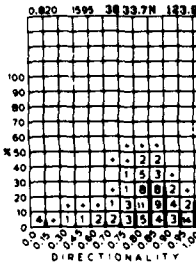


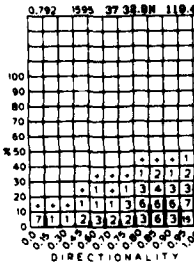


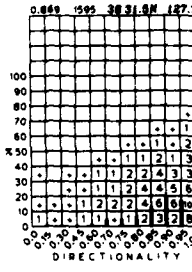
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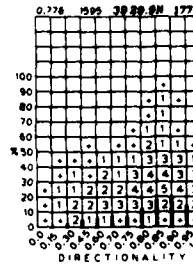
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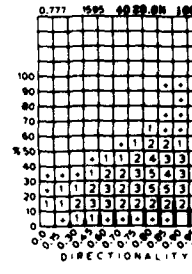


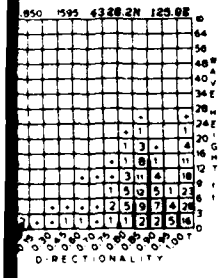


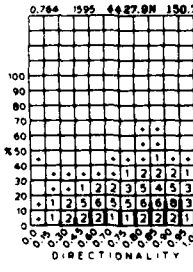


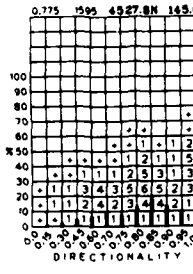


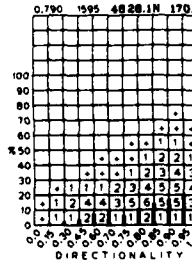


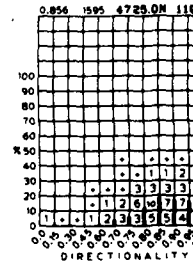


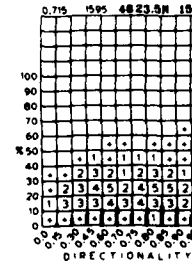


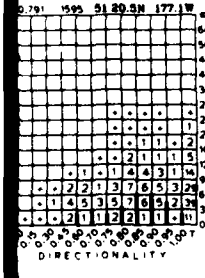


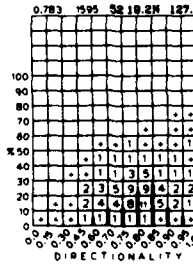


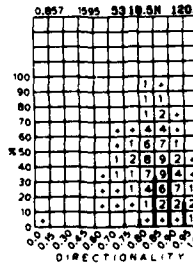


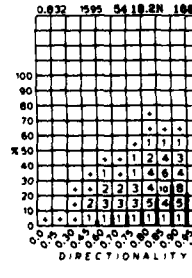


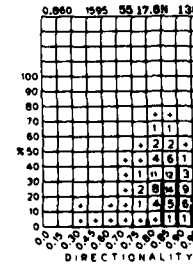


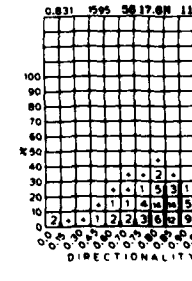


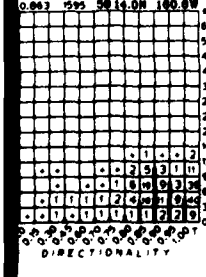


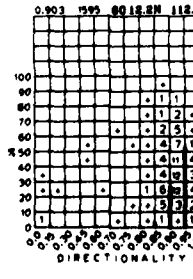


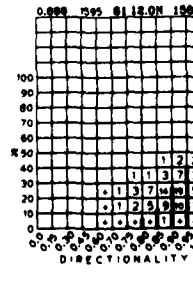


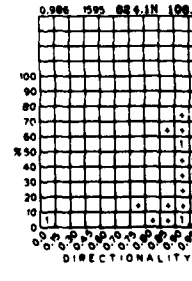


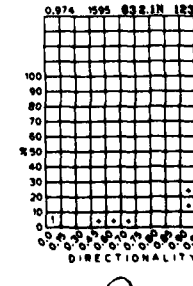








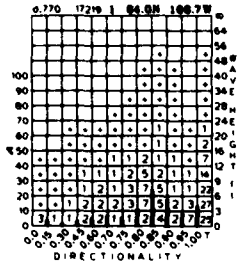


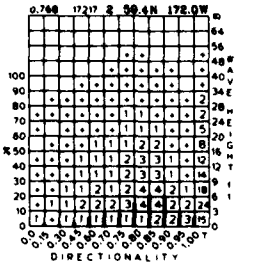


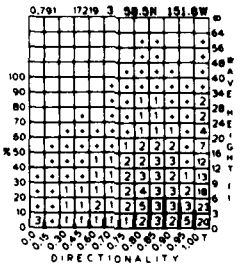
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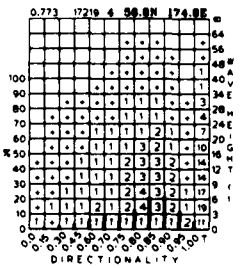
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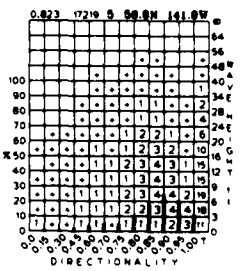
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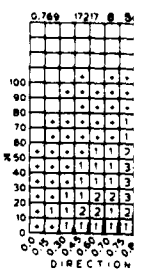


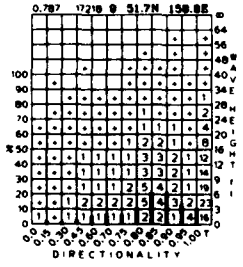


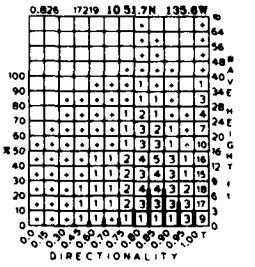


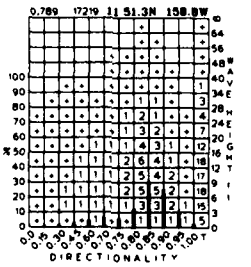


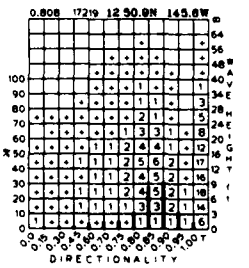


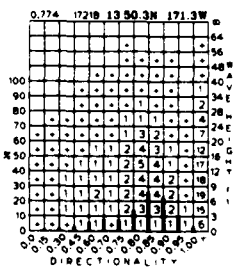


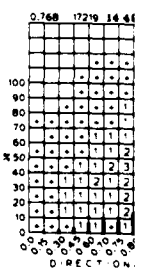


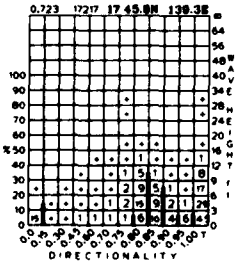


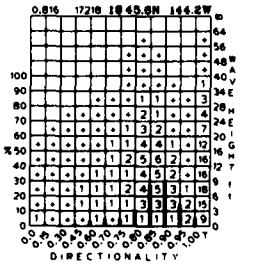


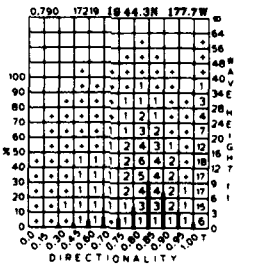


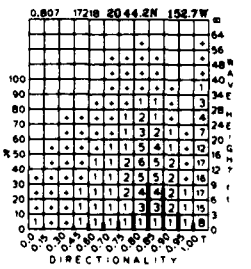


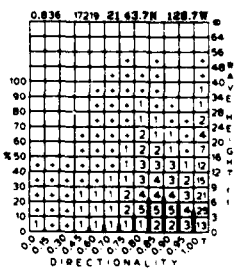


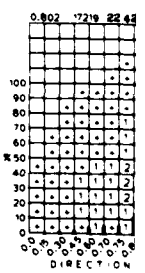


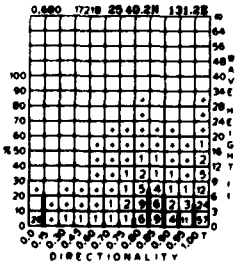


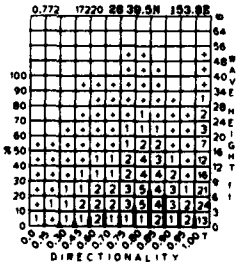


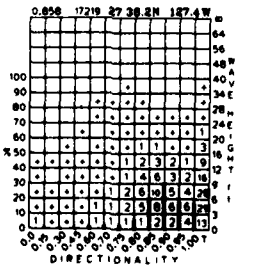


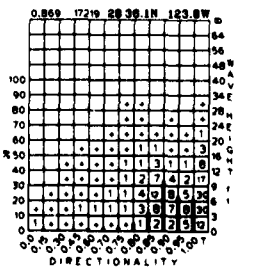


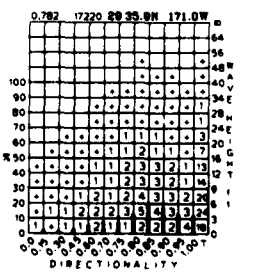


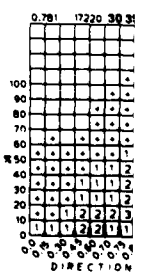




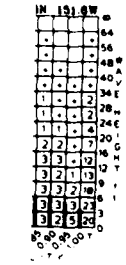


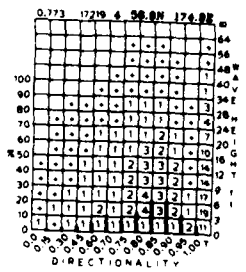


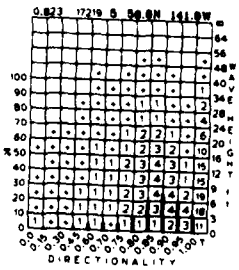


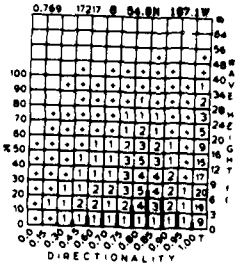


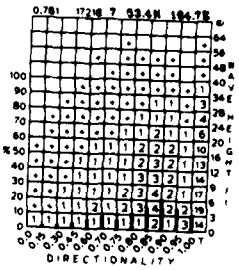
WAVE HEIGHT AND DIRECTIONALITY

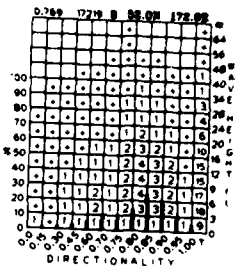


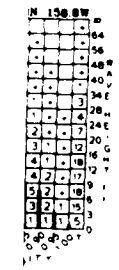


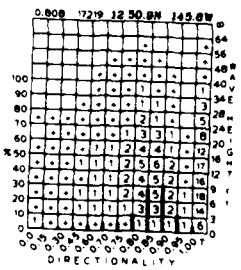


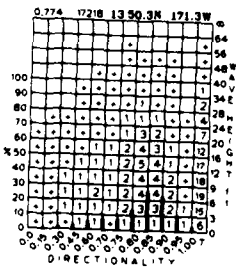


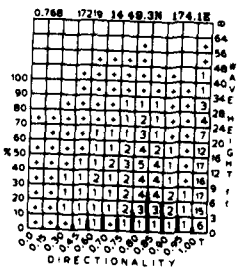


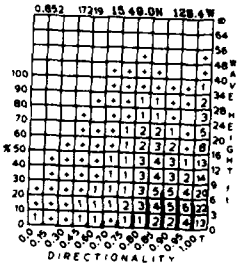


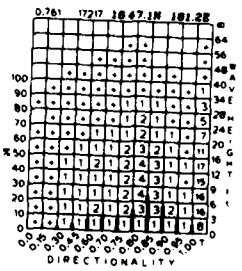




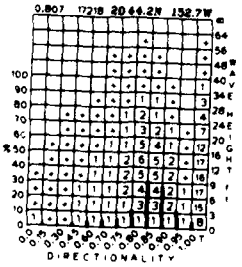


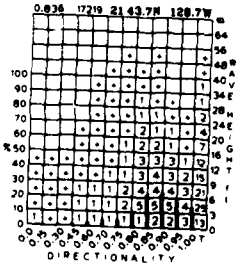


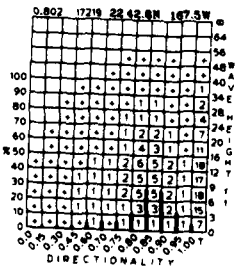


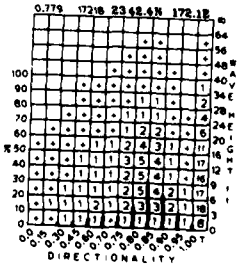


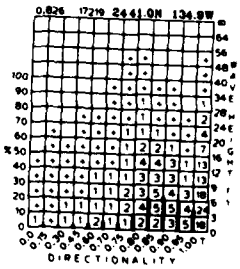


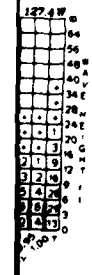


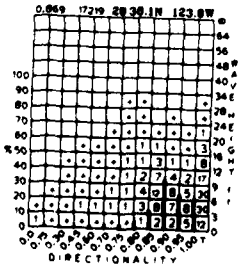


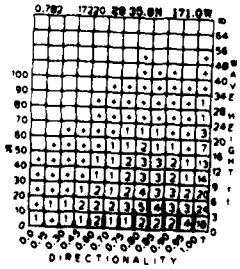


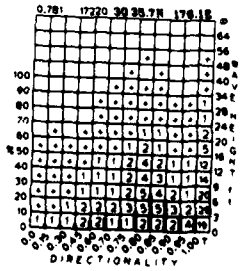


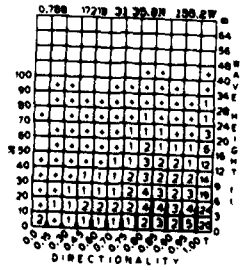


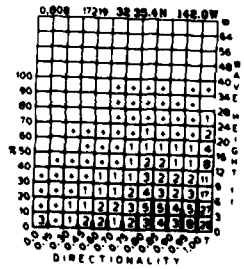






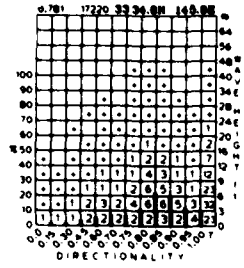


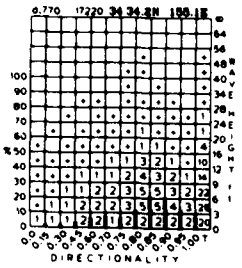


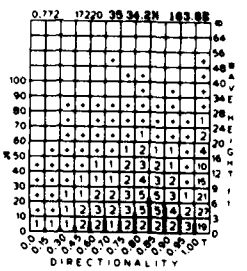


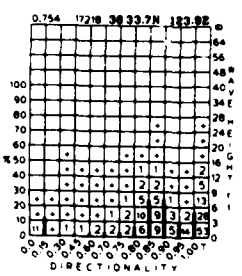
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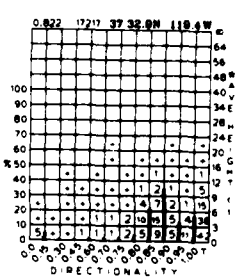
WAVE HEIGHT AND DIRECTIONALITY (Cont'd)

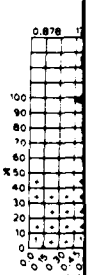


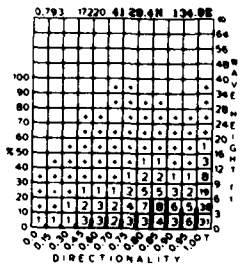


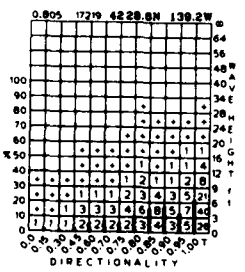


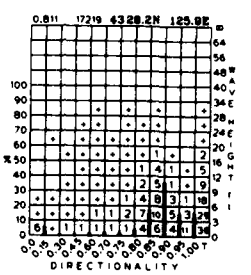


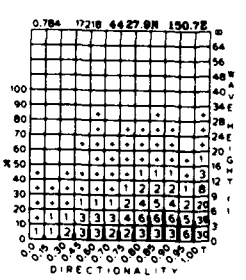


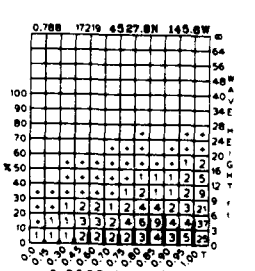


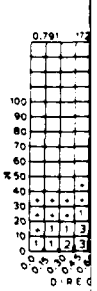


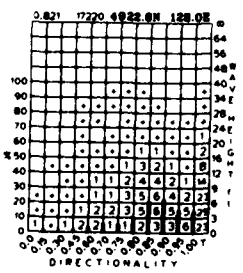


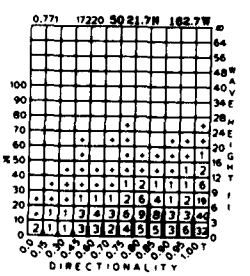


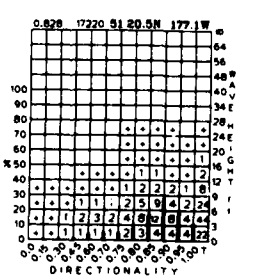


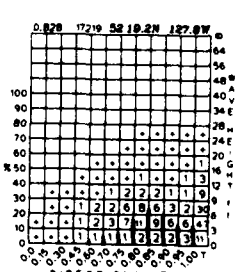


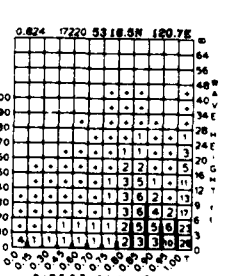


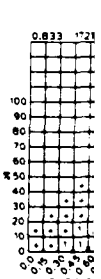


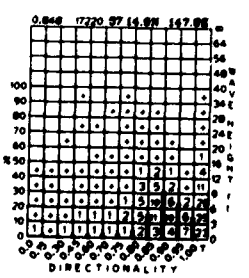


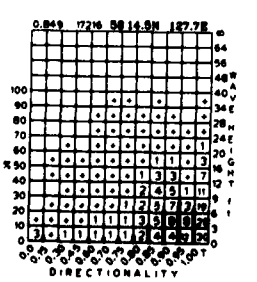


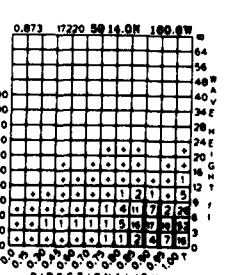


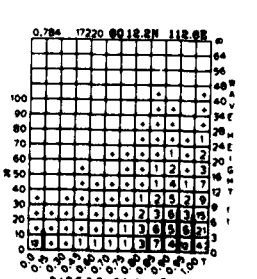


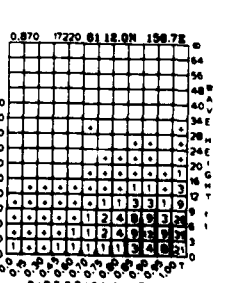


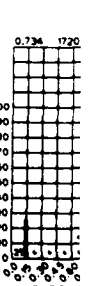






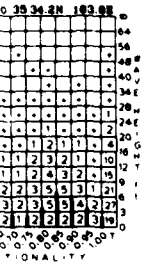


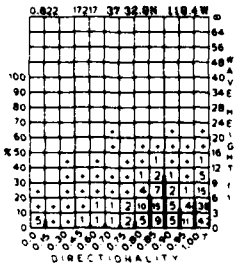


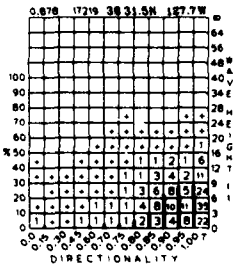


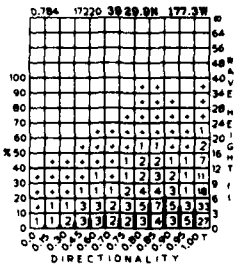
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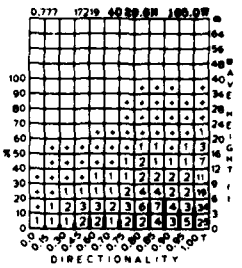
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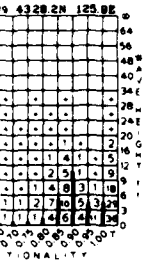


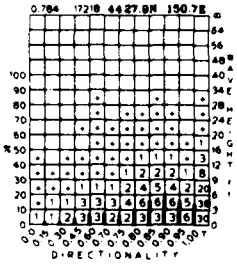


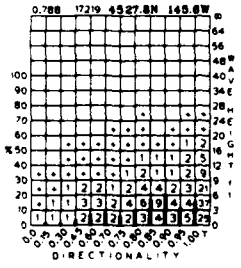


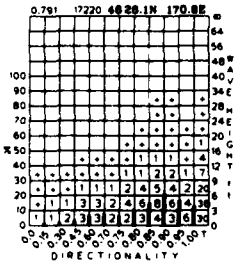


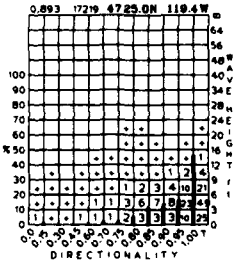


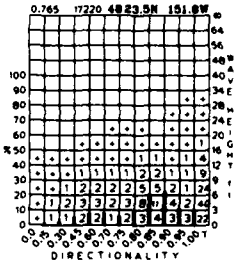


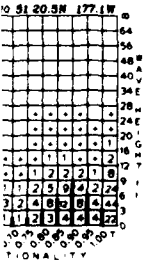


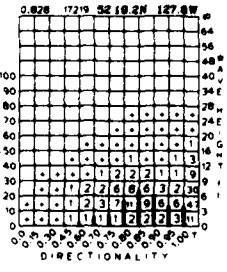


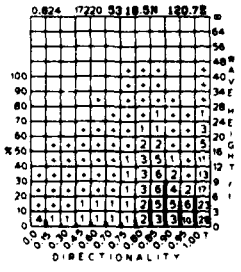


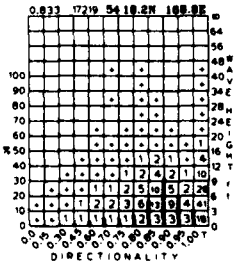


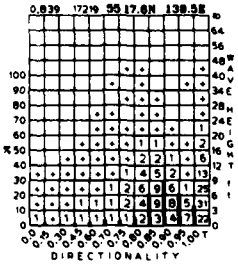


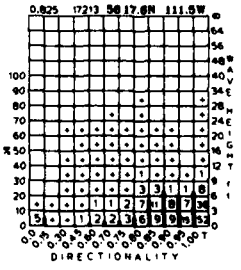


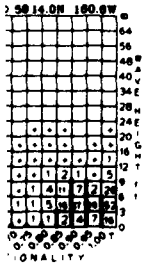


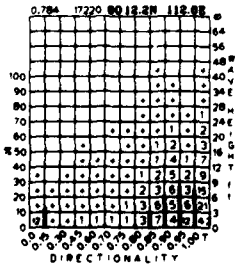


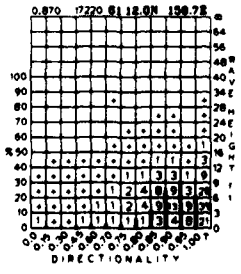


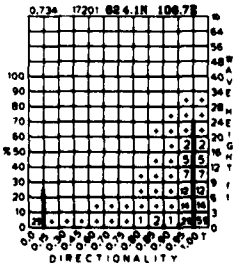


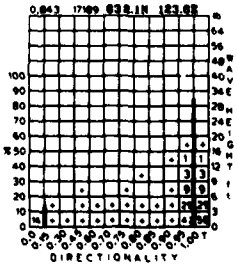








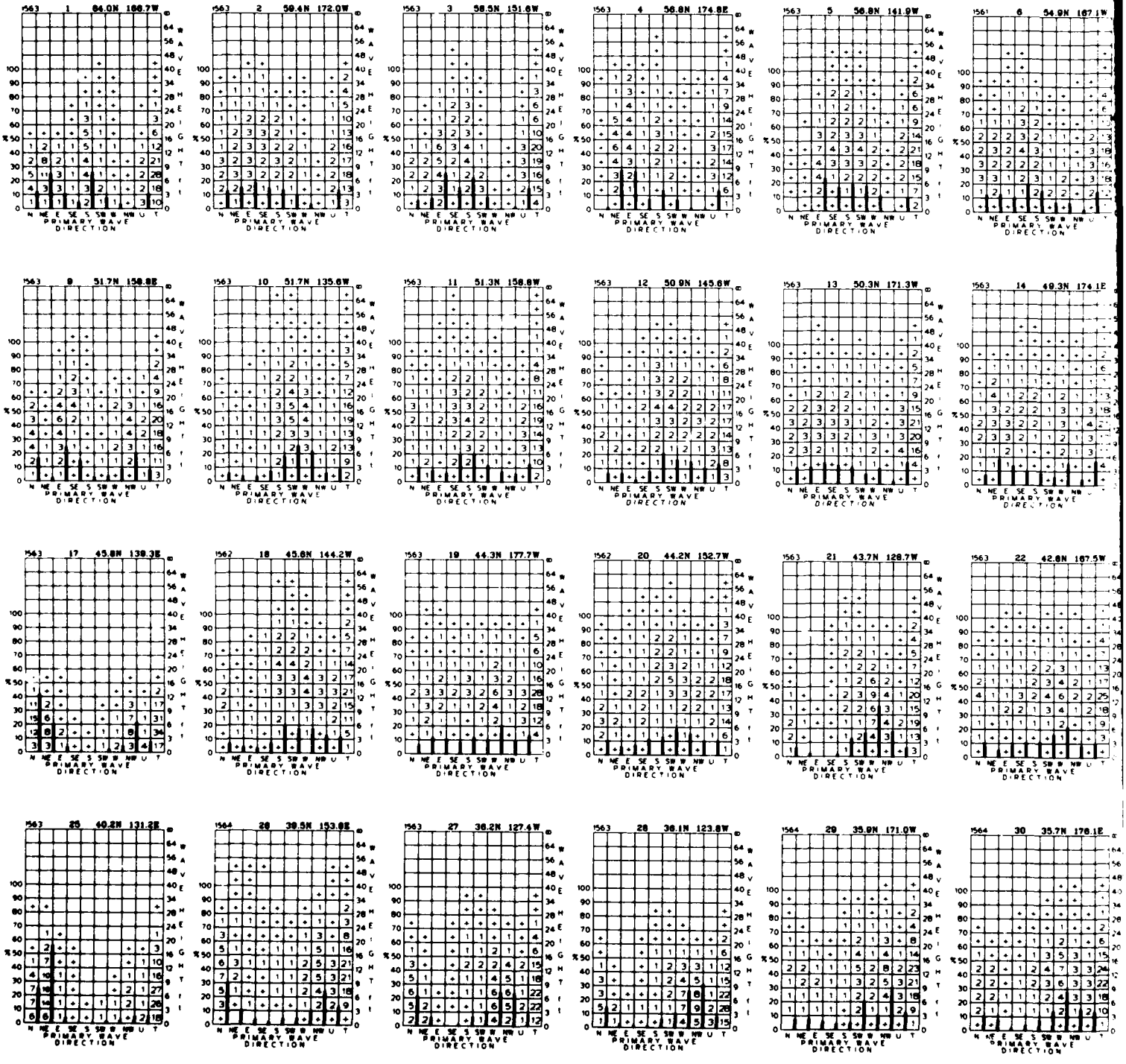




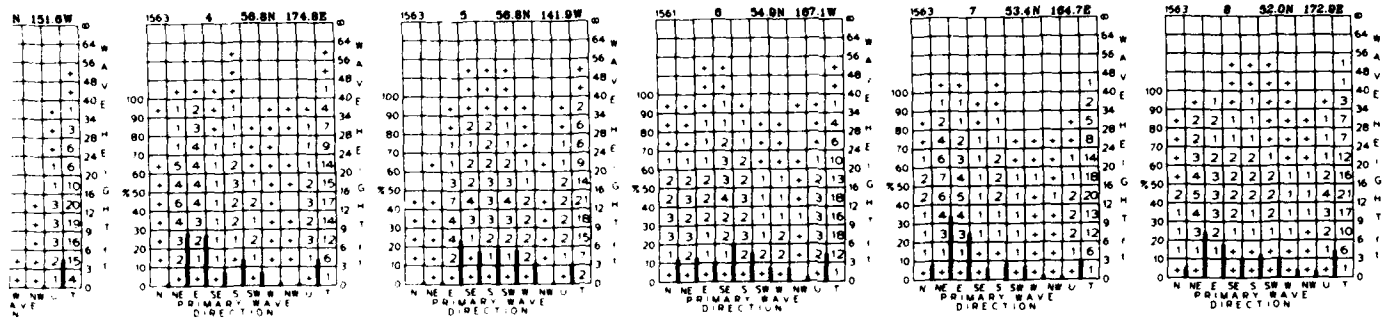
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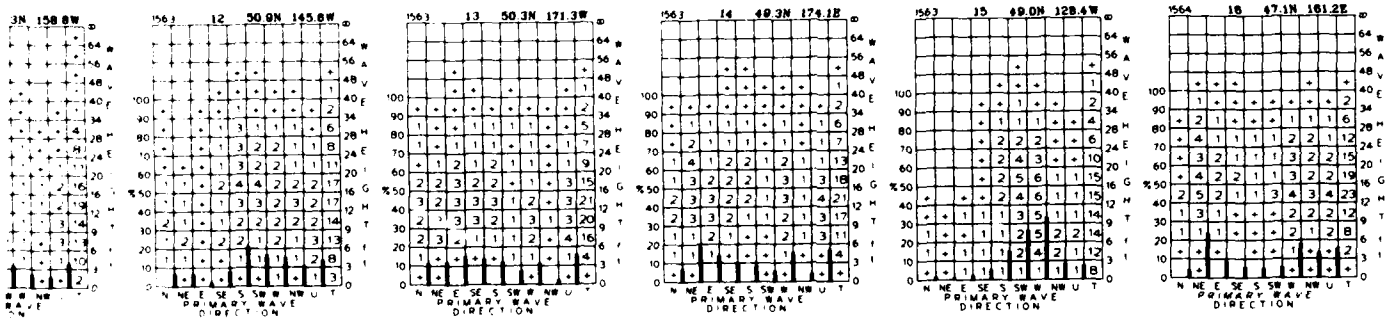
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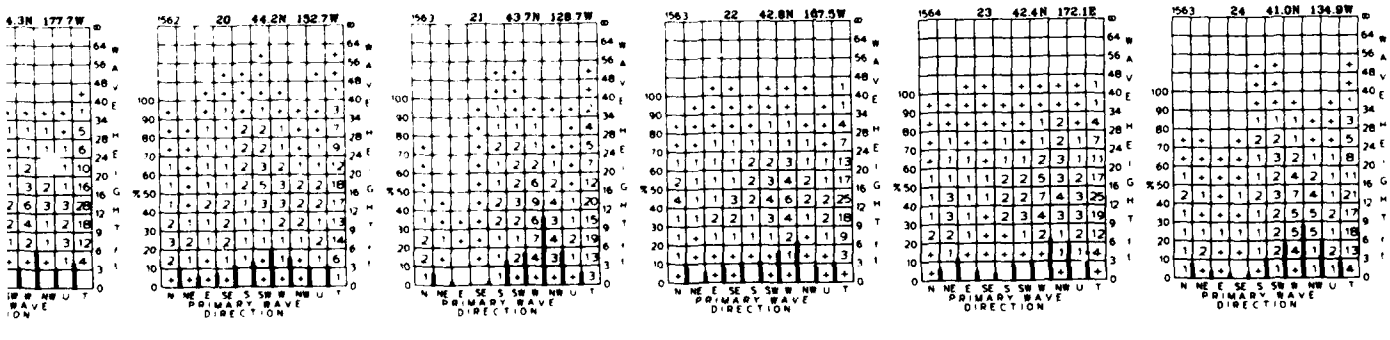
WAVE HEIGHT AND PRIMAR

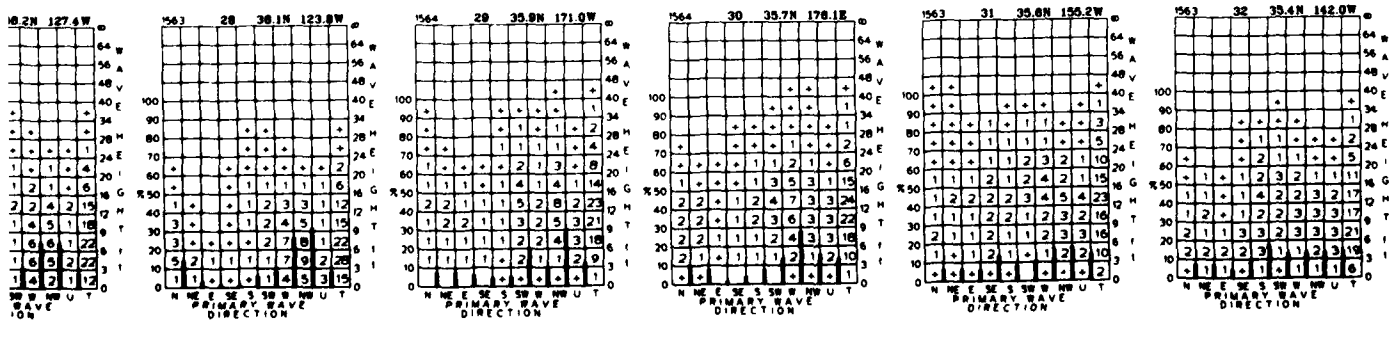


WAVE HEIGHT AND PRIMARY WAVE DIRECTION

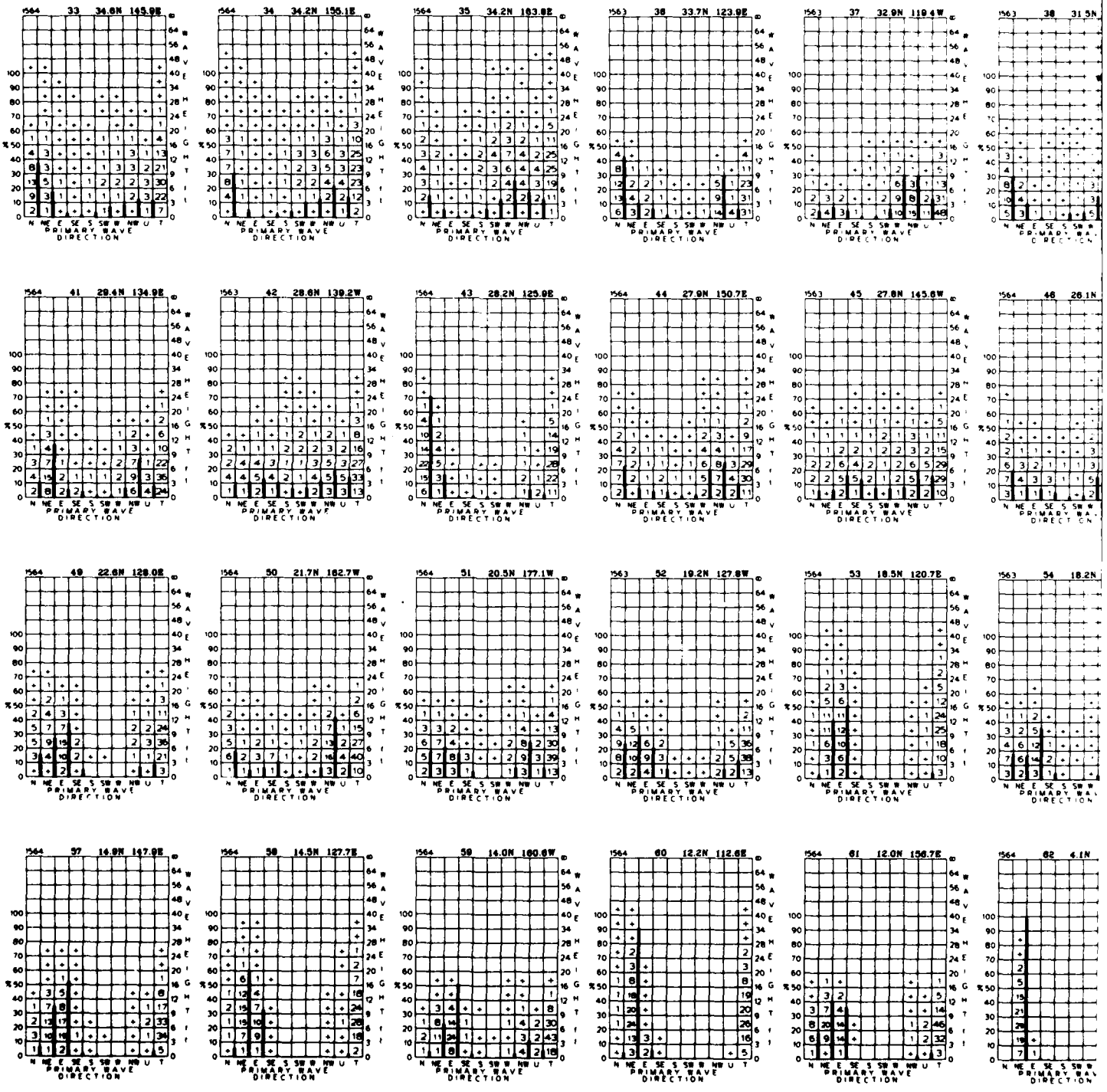






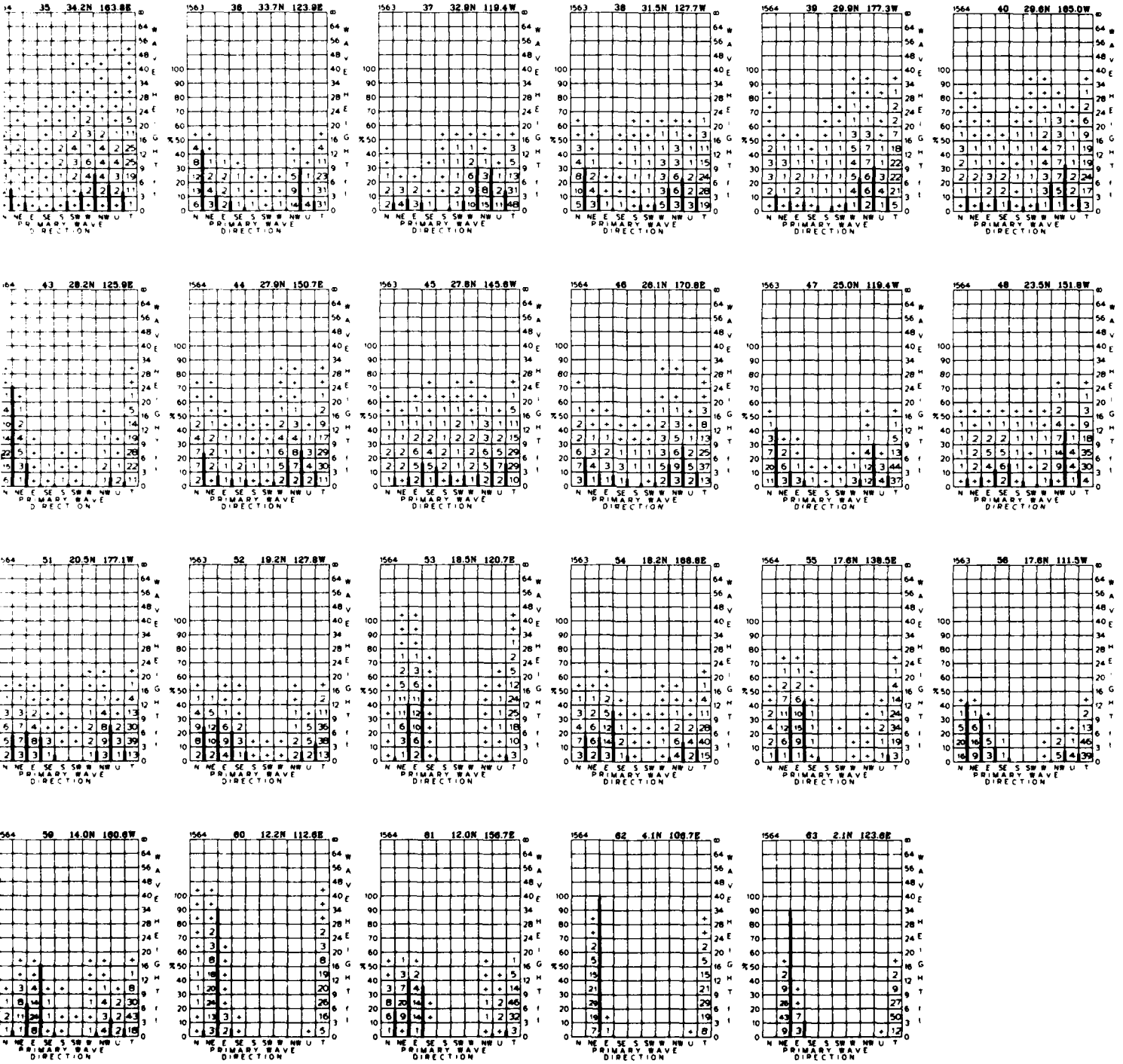


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



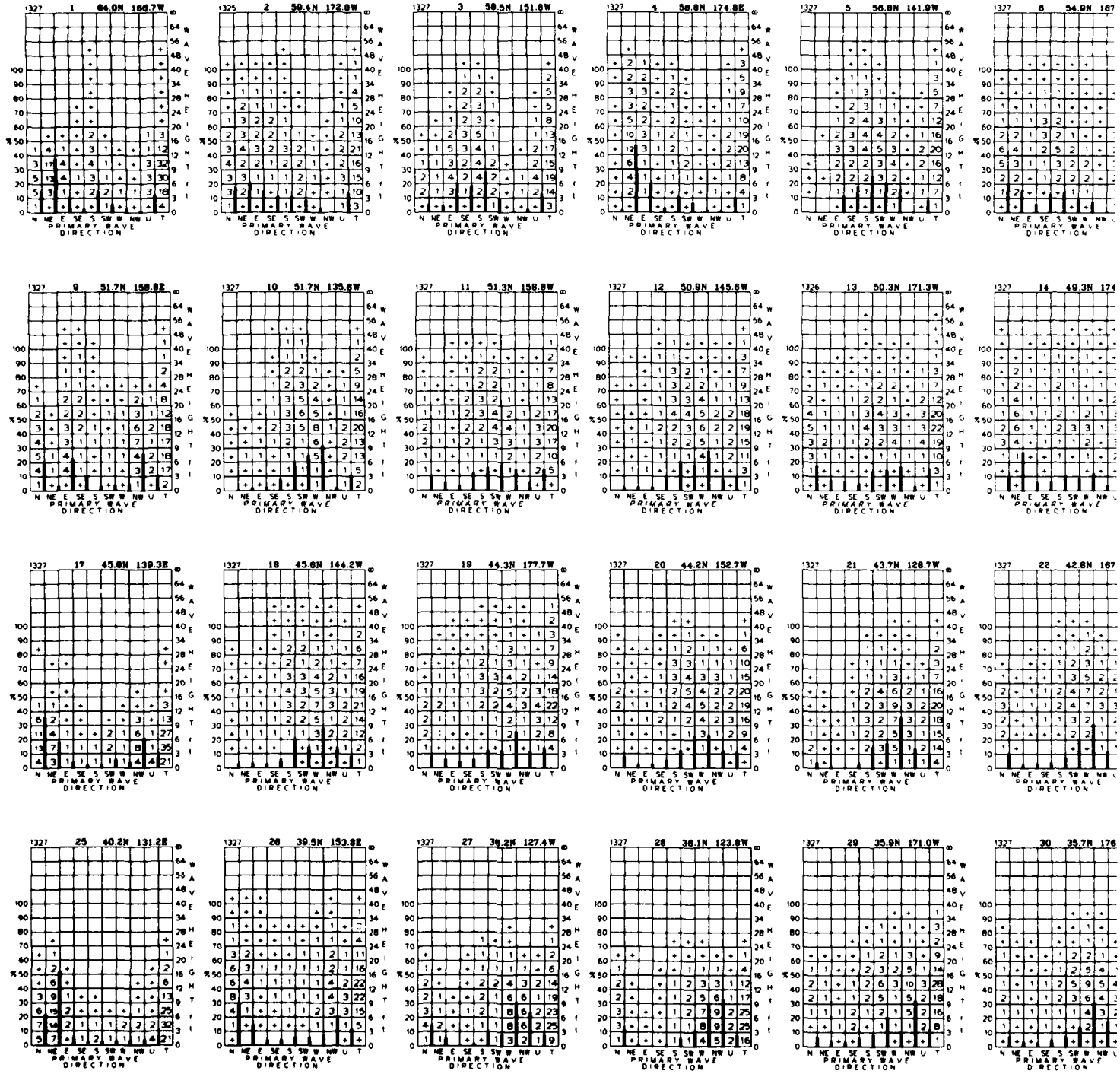
IMARY WAVE DIRECTION (Cont'd)

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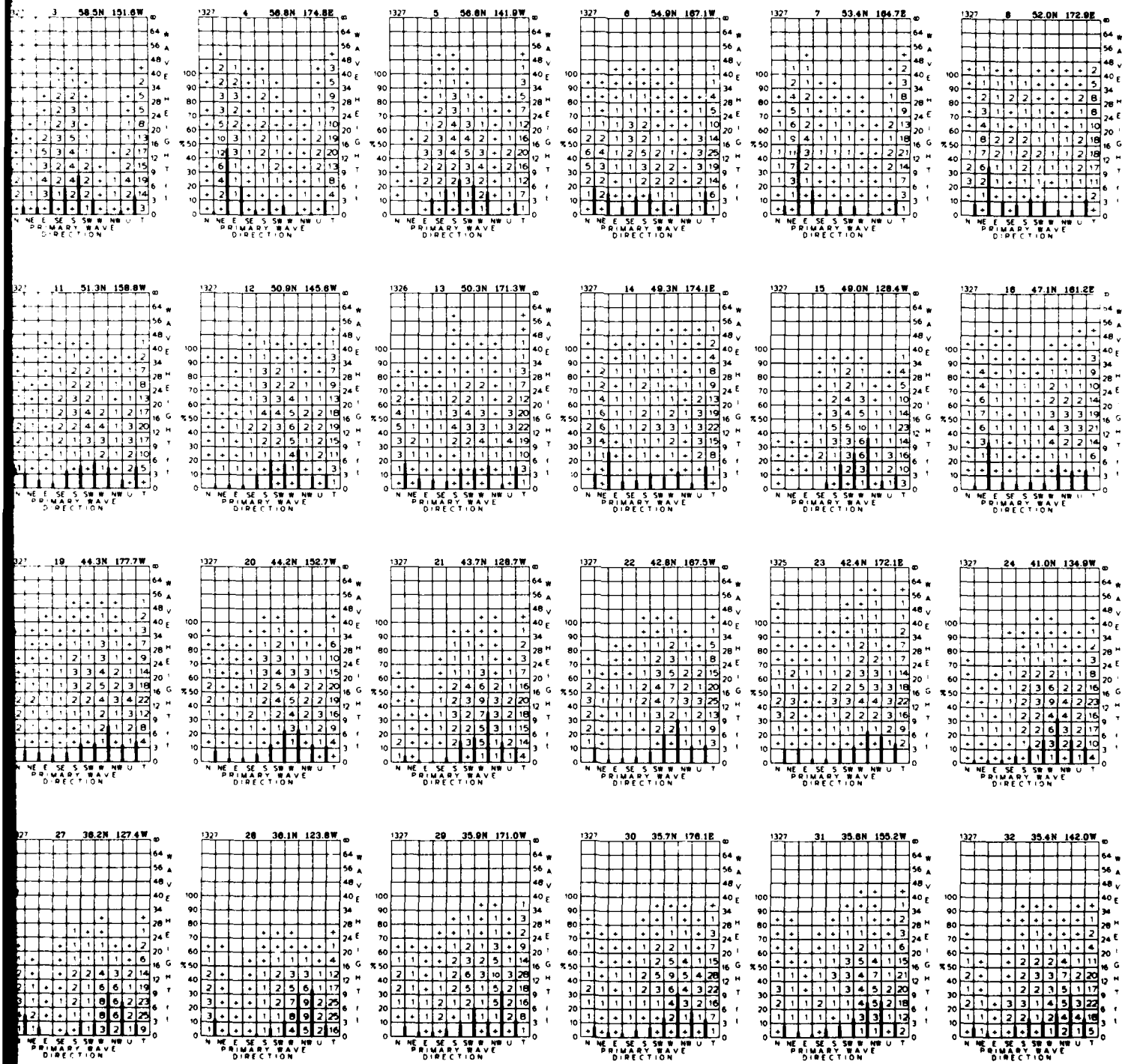


FEBRUARY

WAVE HEIGHT AND PRIMA

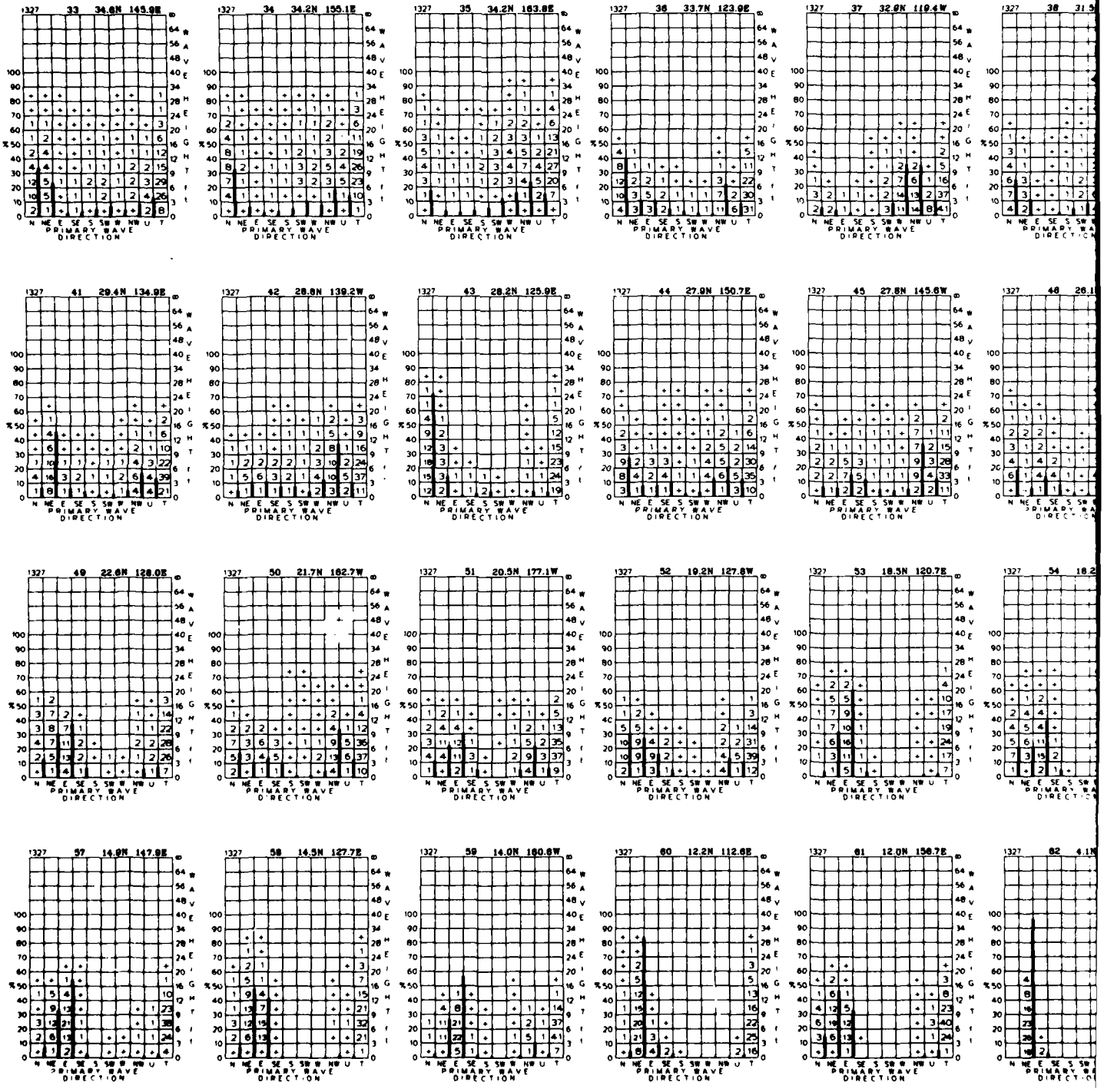


WAVE HEIGHT AND PRIMARY WAVE DIRECTION



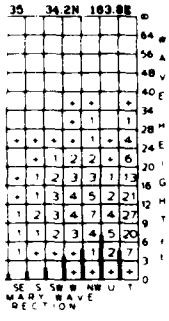
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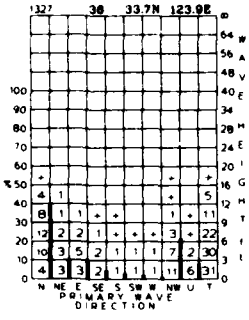
WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)

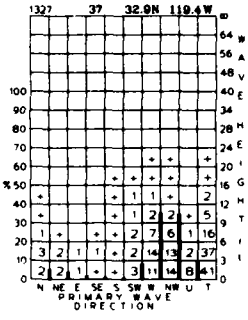


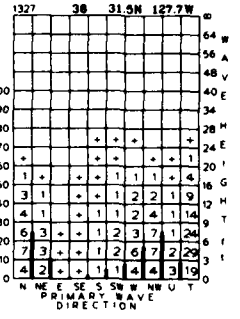
MARY WAVE DIRECTION (Cont'd)

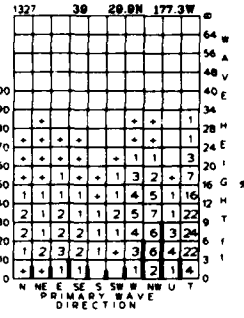
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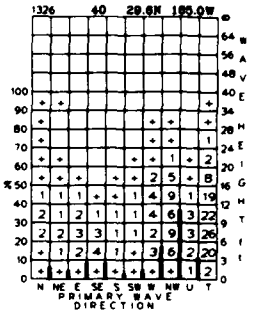


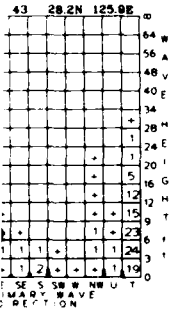


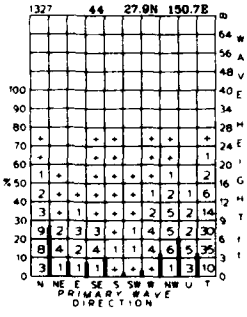


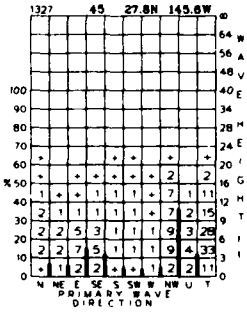


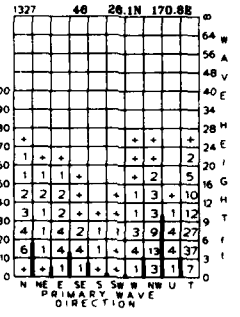


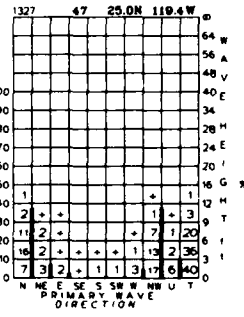


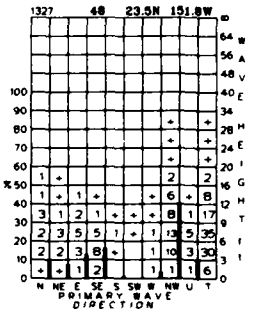


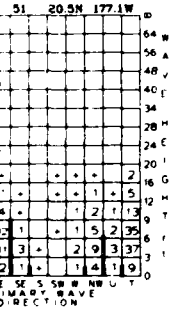


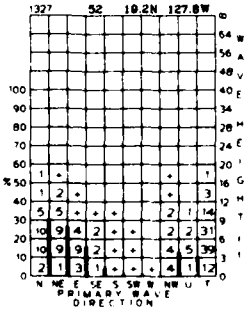


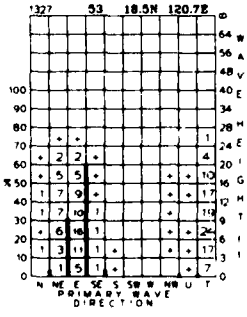


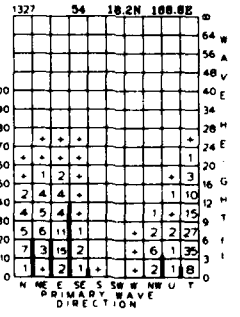


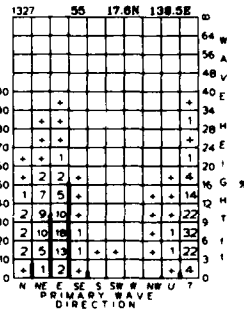


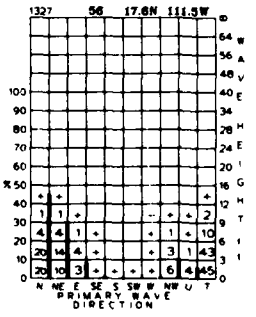


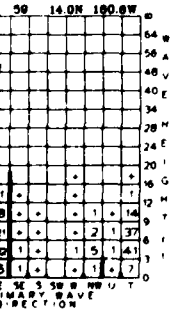


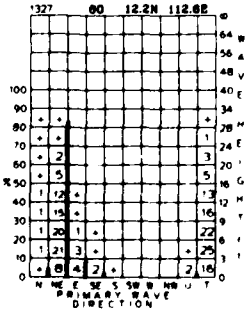


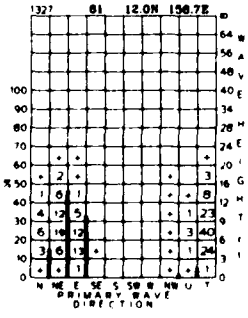


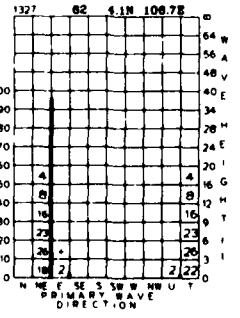


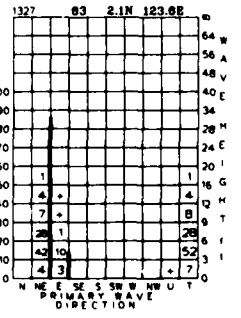






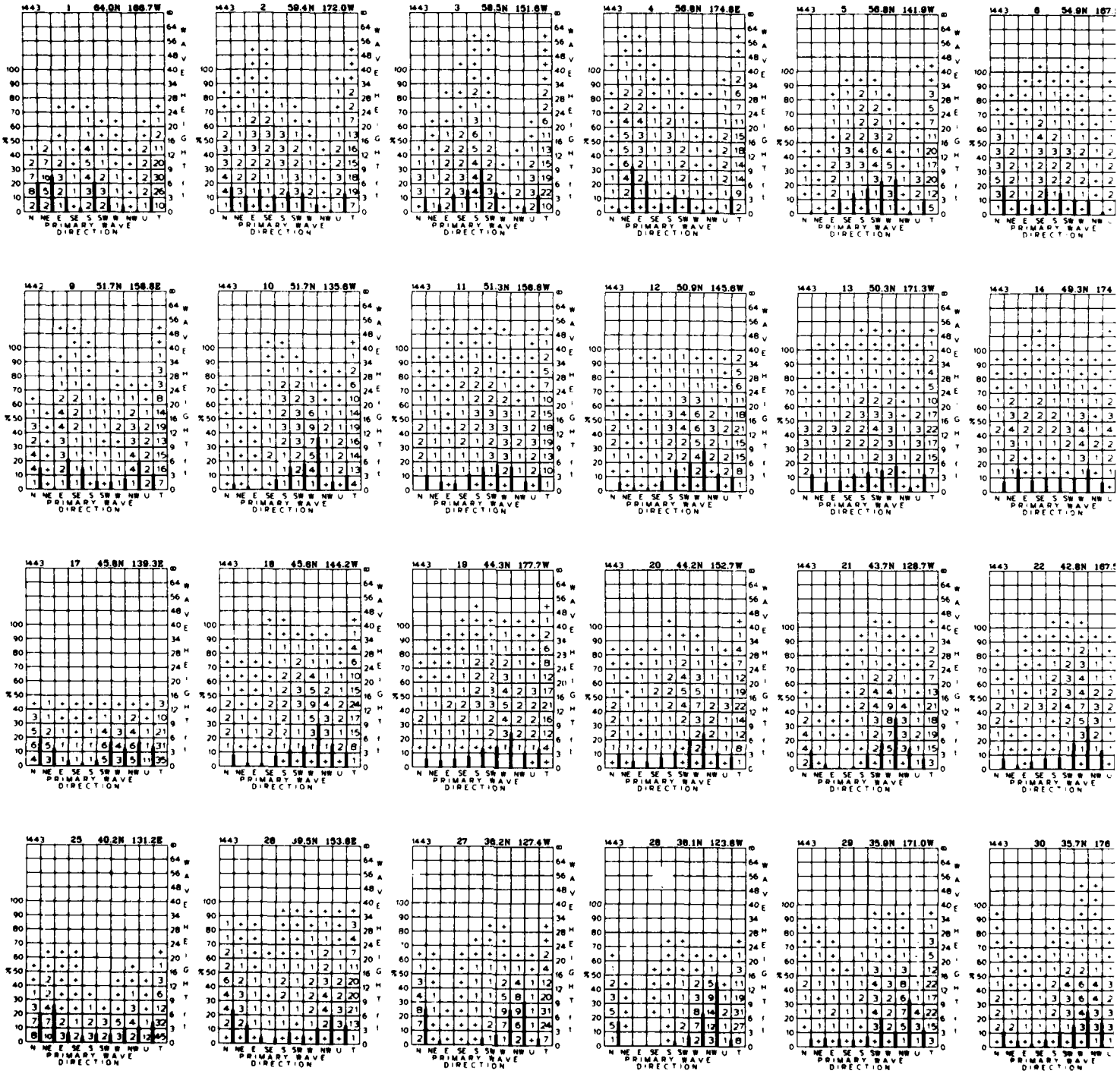






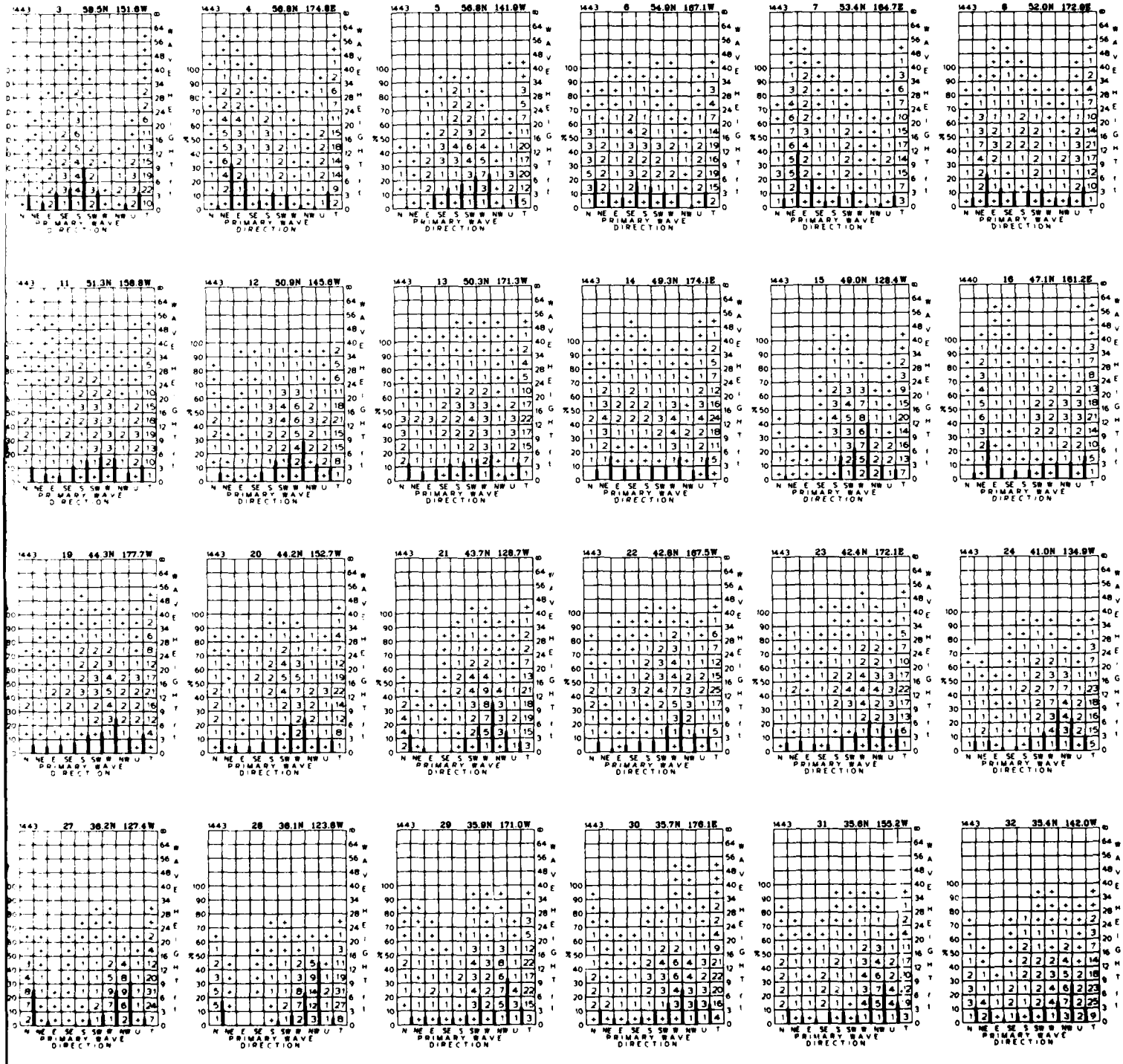
MARCH

WAVE HEIGHT AND PRIMA

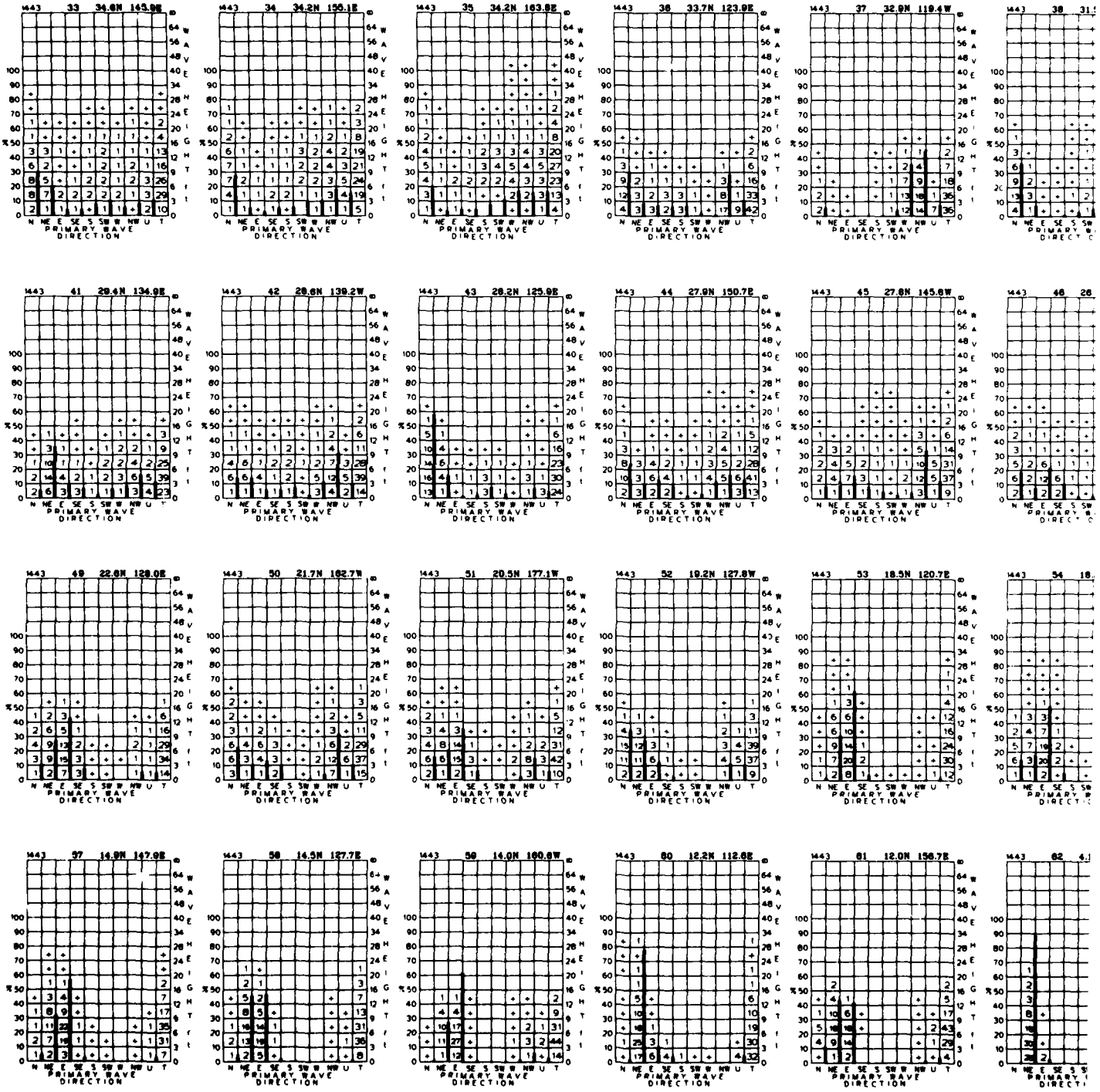


3

WAVE HEIGHT AND PRIMARY WAVE DIRECTION

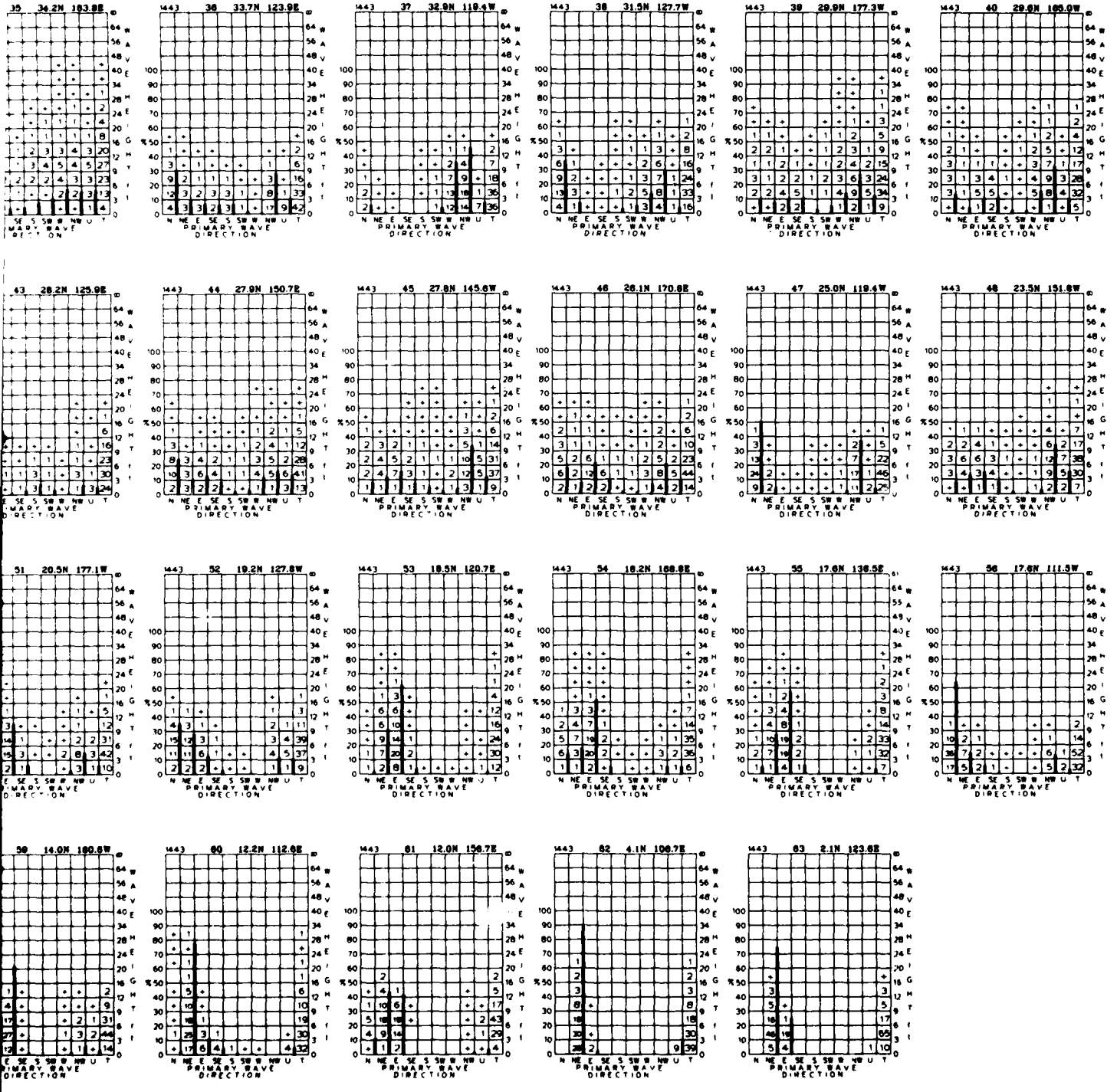


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



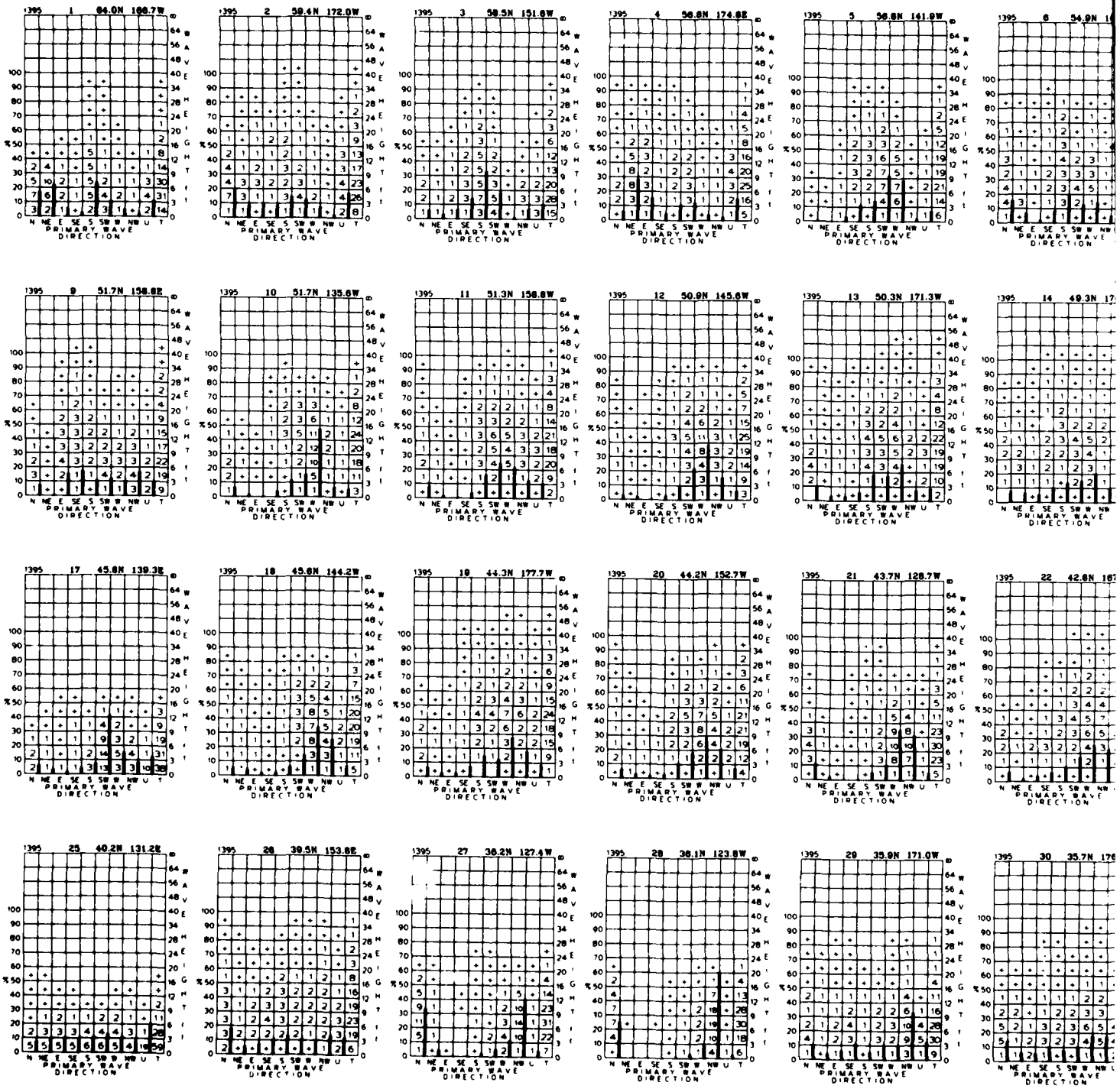
MARY WAVE DIRECTION (Cont'd)

MARCH

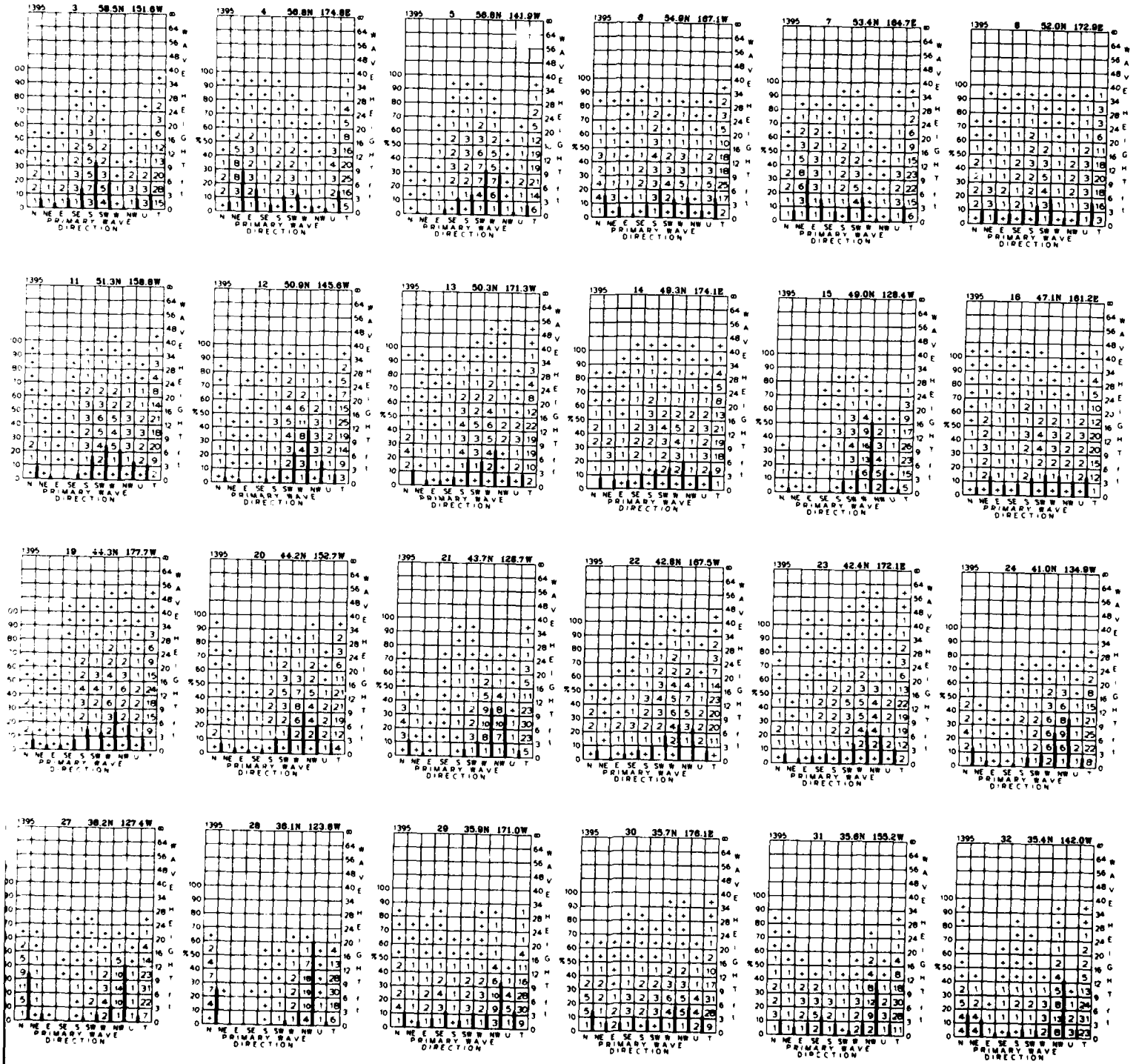


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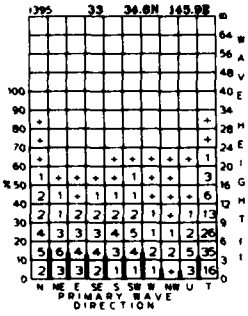
WAVE HEIGHT AND PRIM

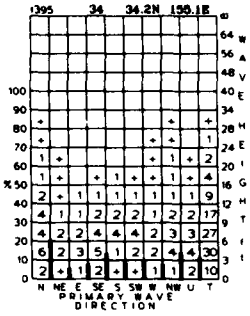


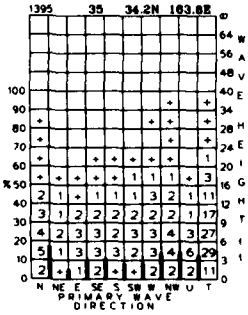
WAVE HEIGHT AND PRIMARY WAVE DIRECTION

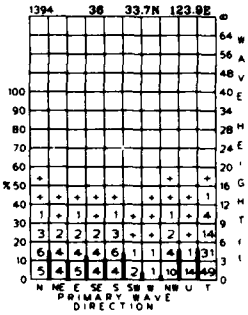


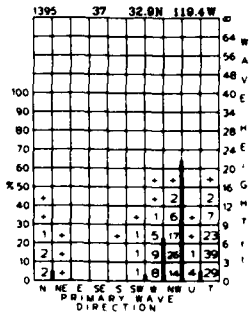
WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)

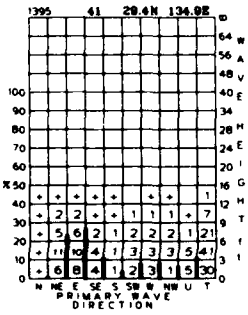


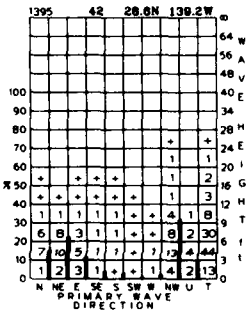


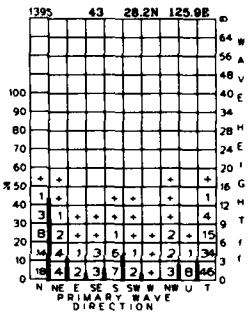


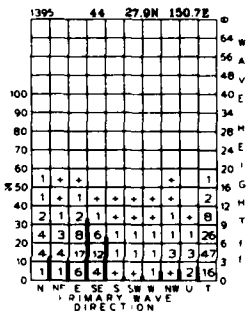


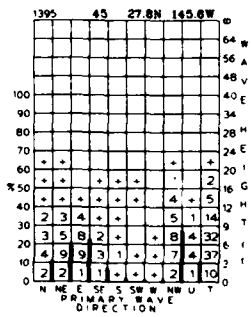


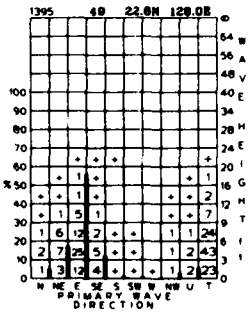


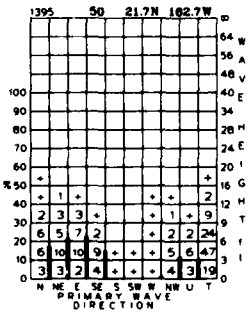


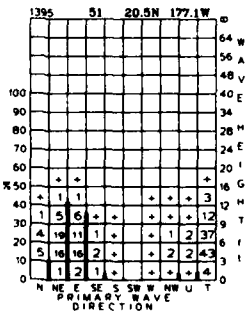


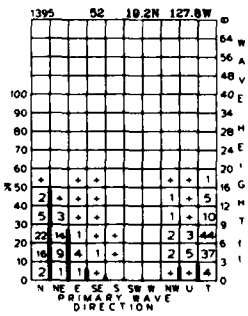


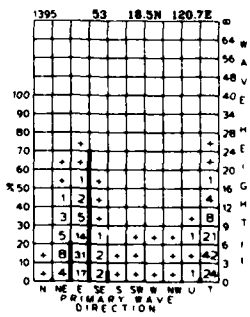


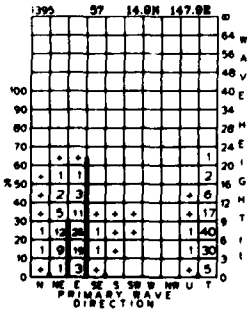


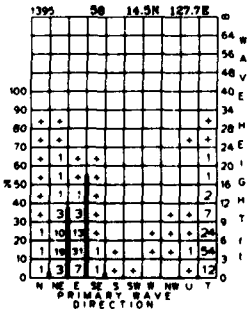


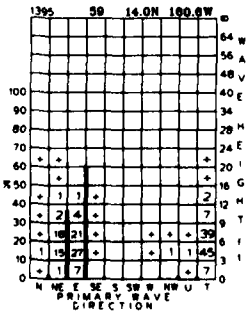


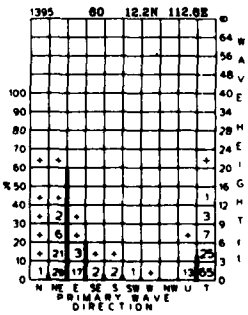


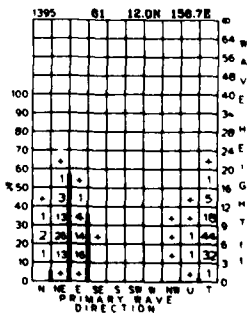






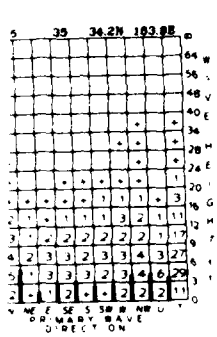


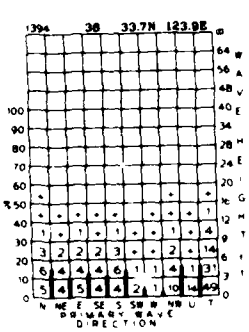


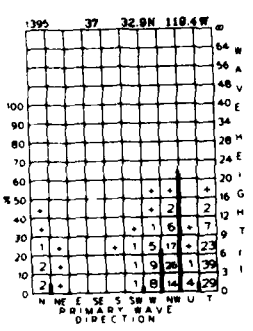


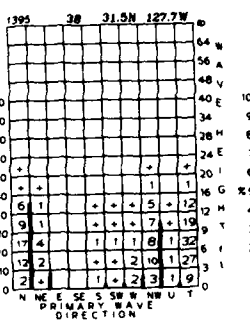
IMARY WAVE DIRECTION (Cont'd)

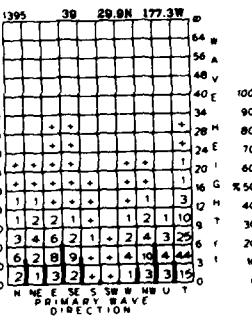
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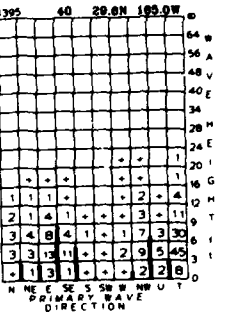


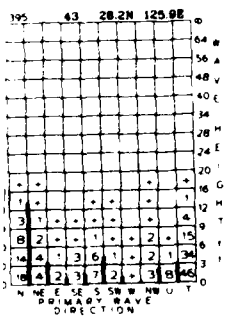


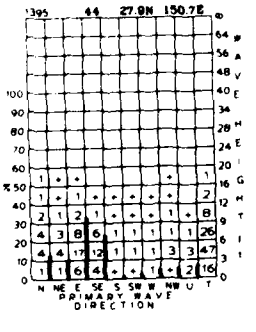


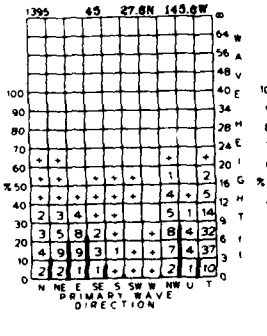


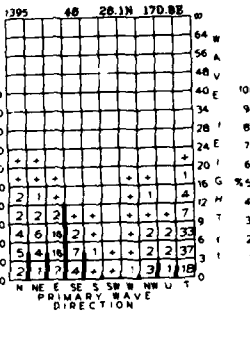


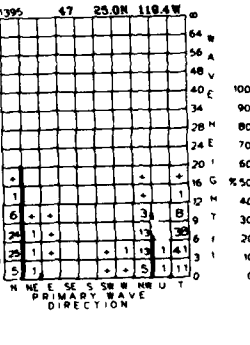


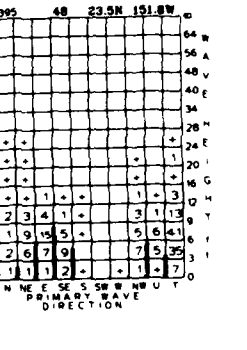


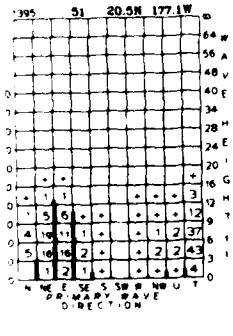


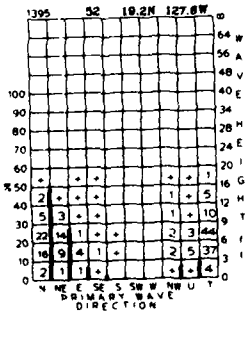


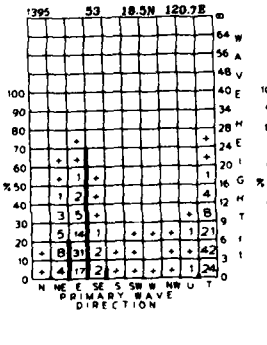


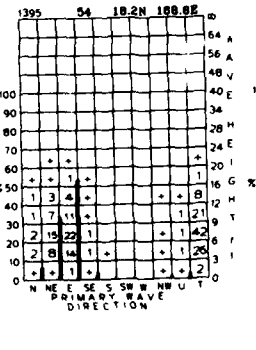


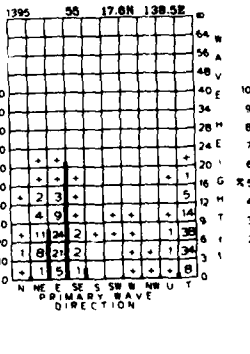


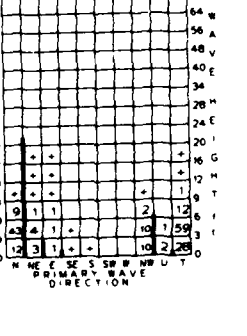


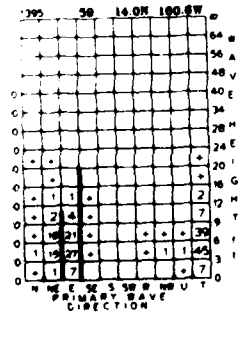


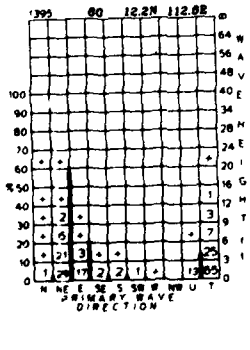


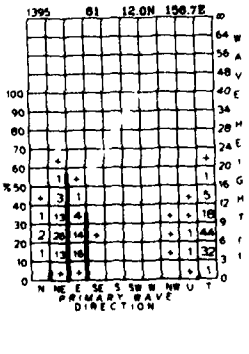


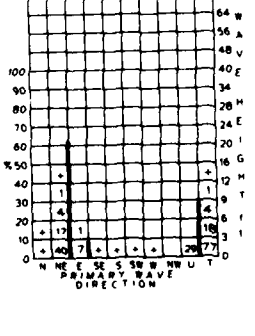


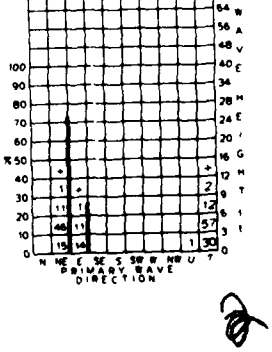






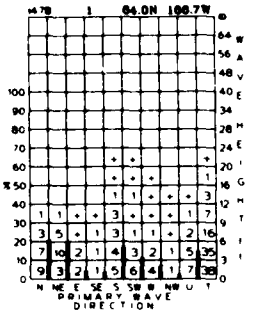


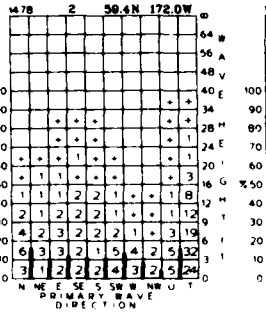


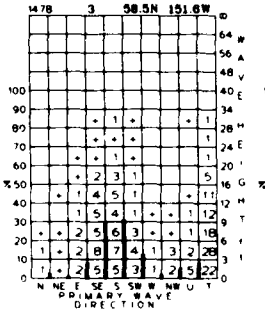


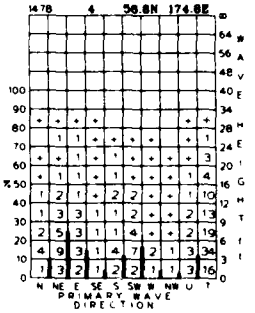
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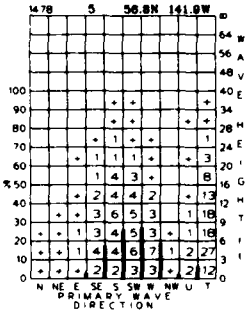
WAVE HEIGHT AND PRIMA

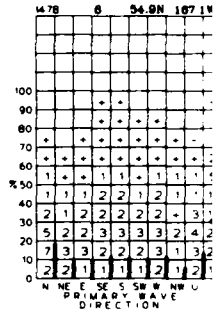


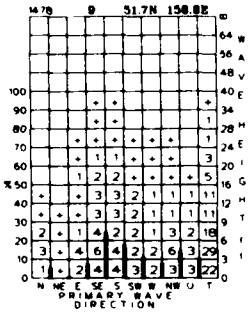


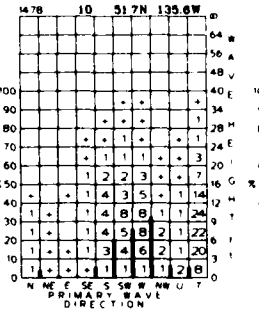


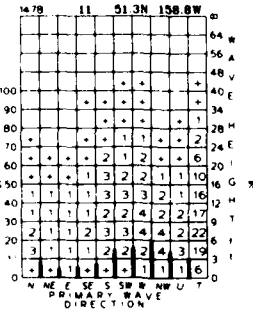


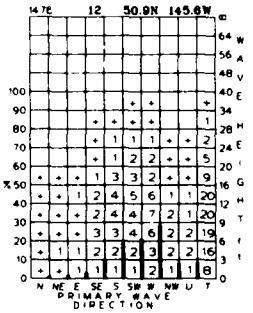


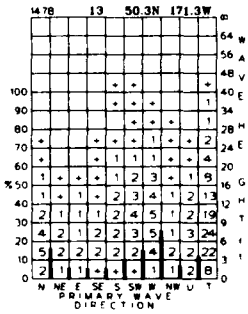


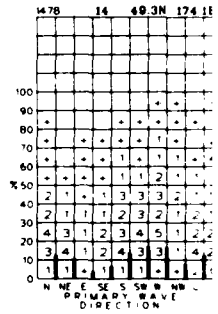


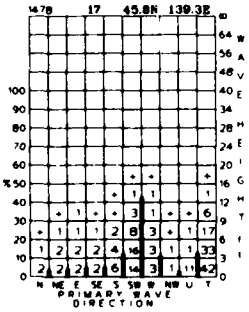


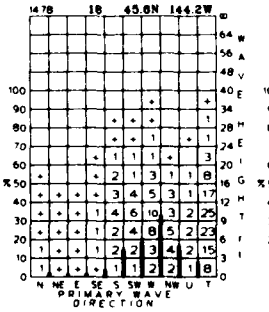


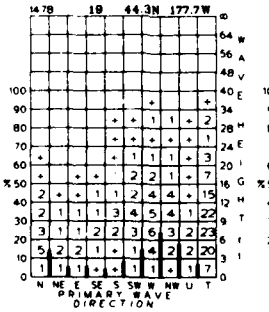


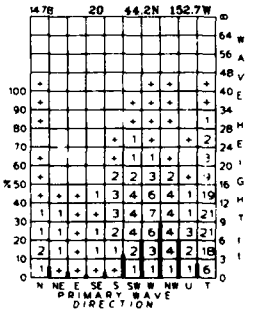


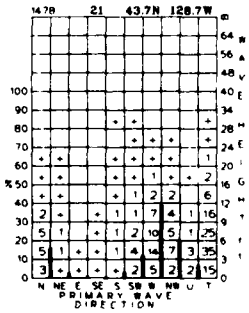


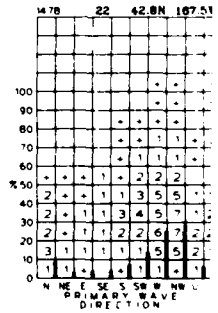


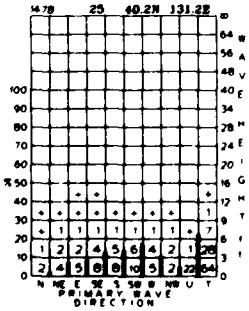


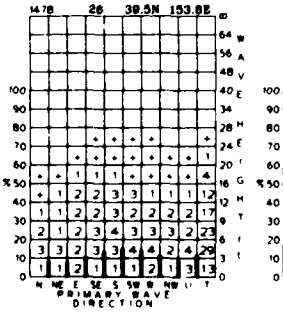


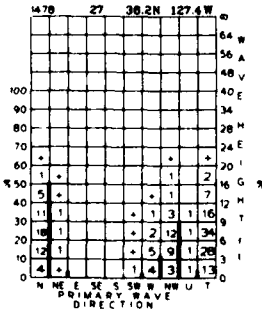


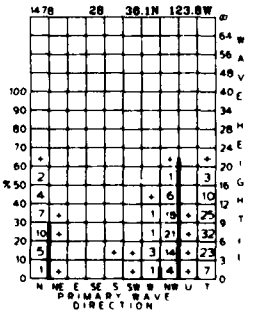


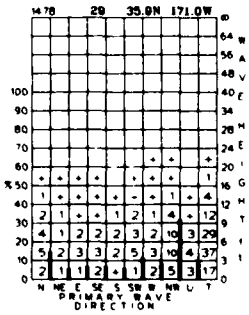


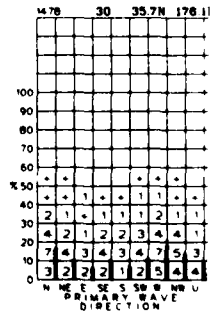






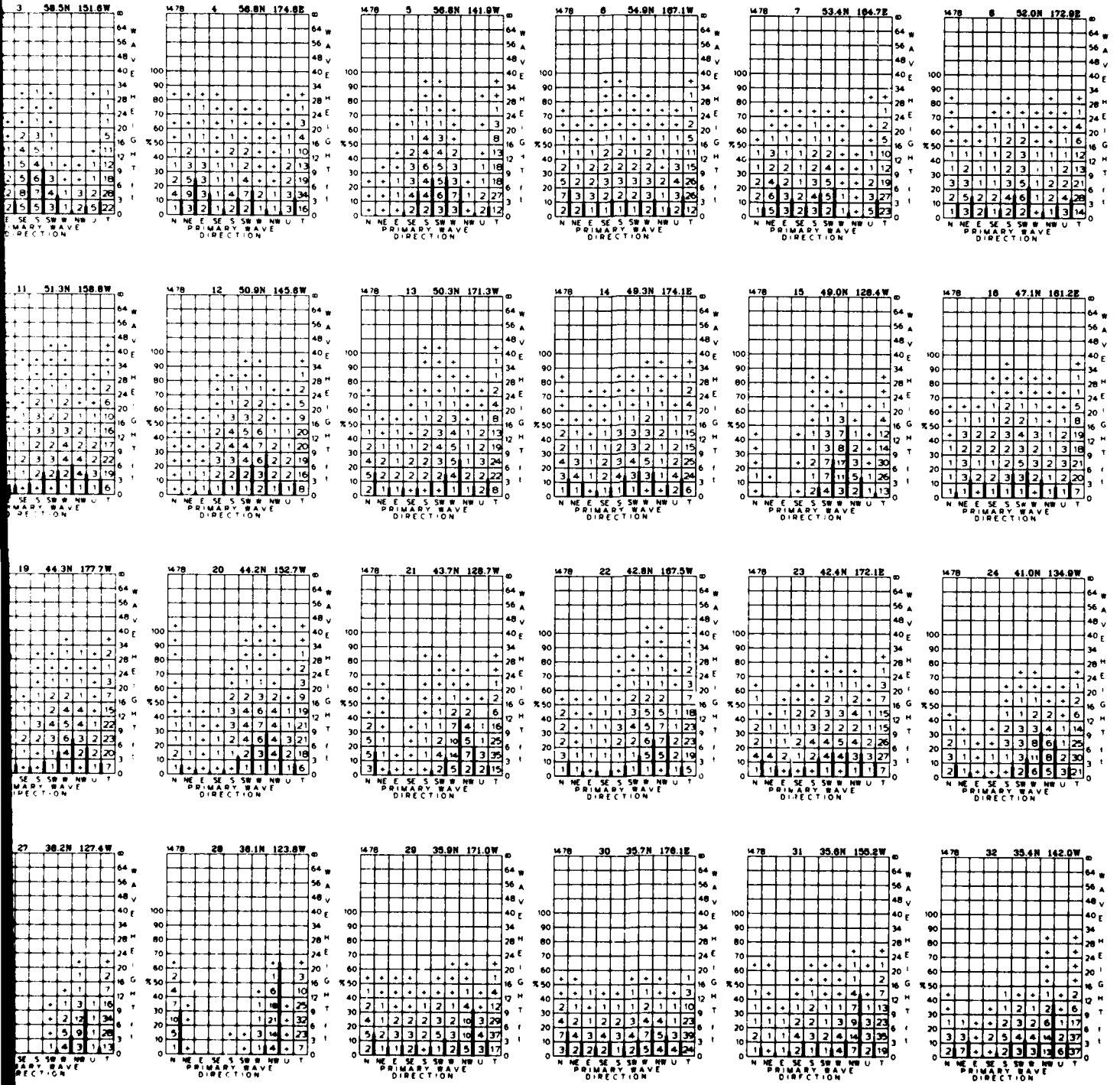




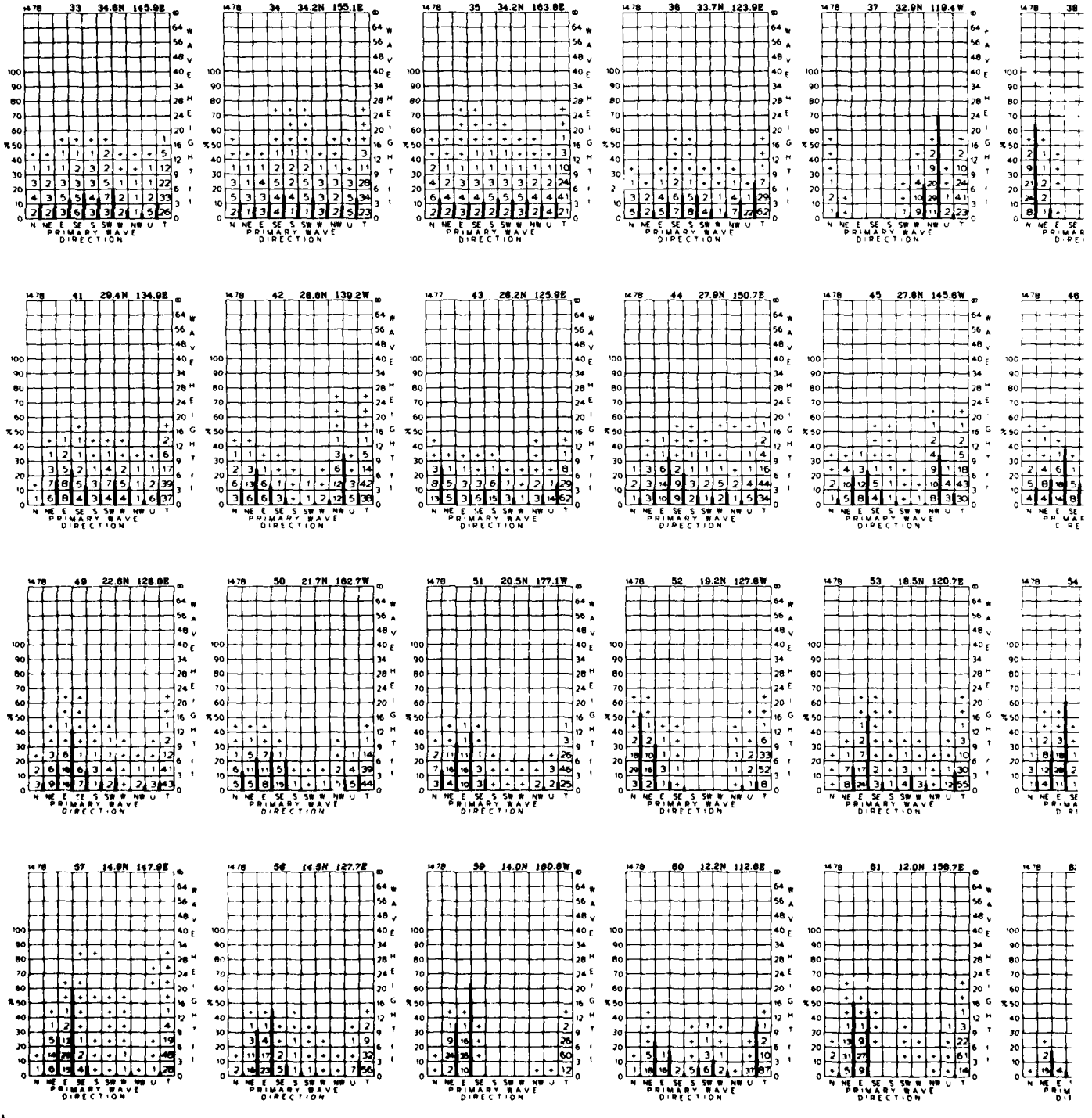


3 178

WAVE HEIGHT AND PRIMARY WAVE DIRECTION

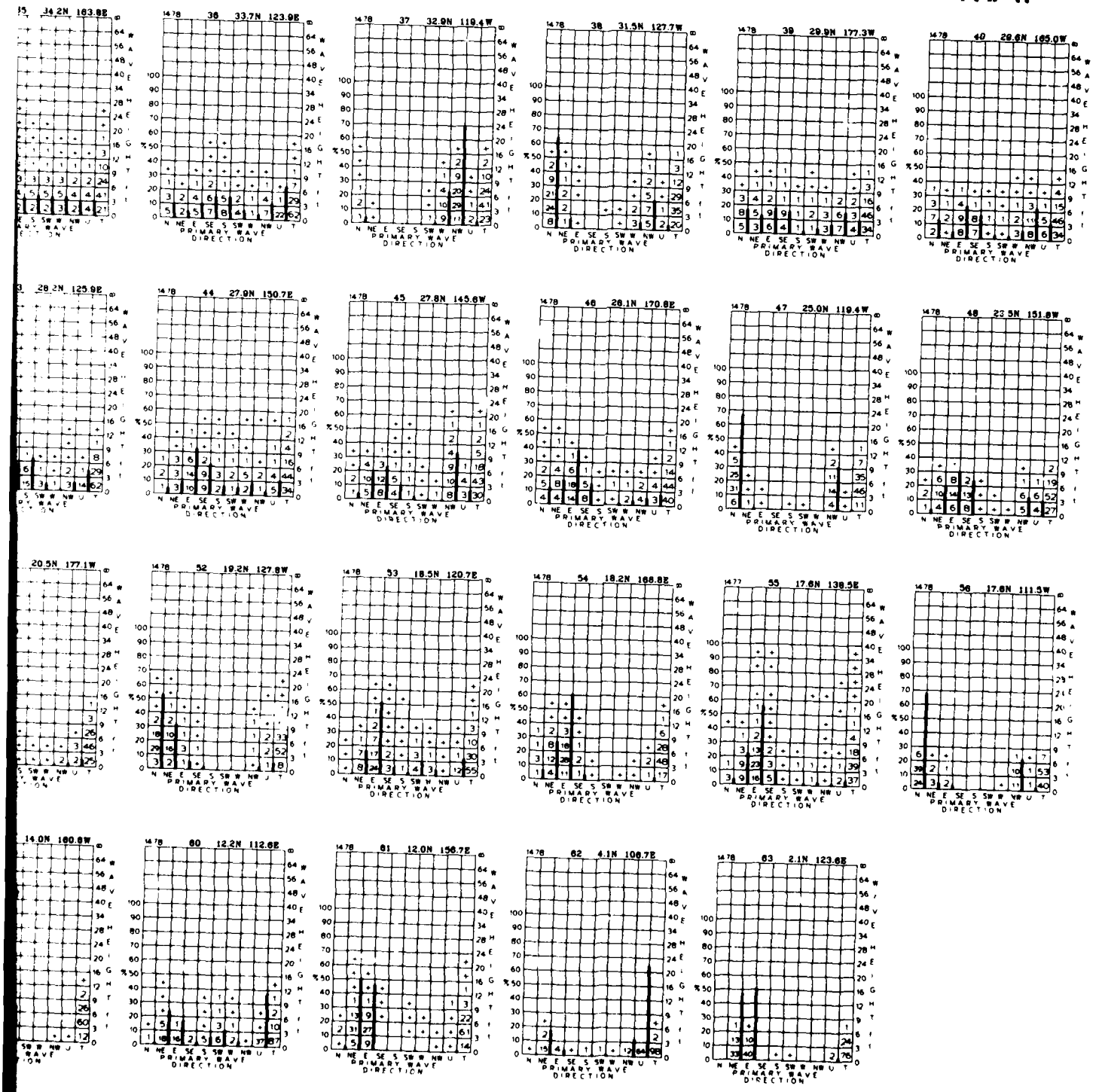


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



MARY WAVE DIRECTION (Cont'd)

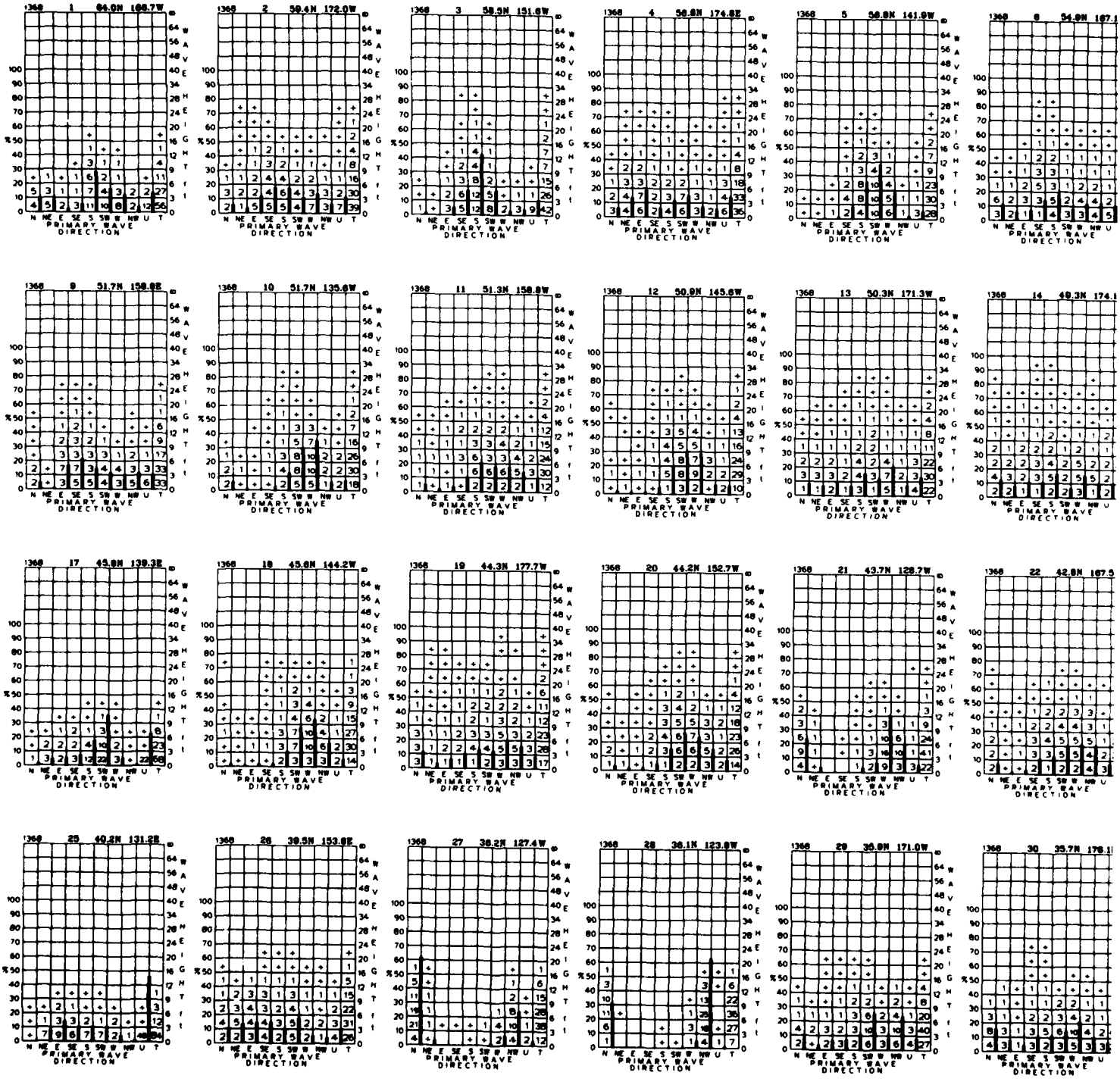
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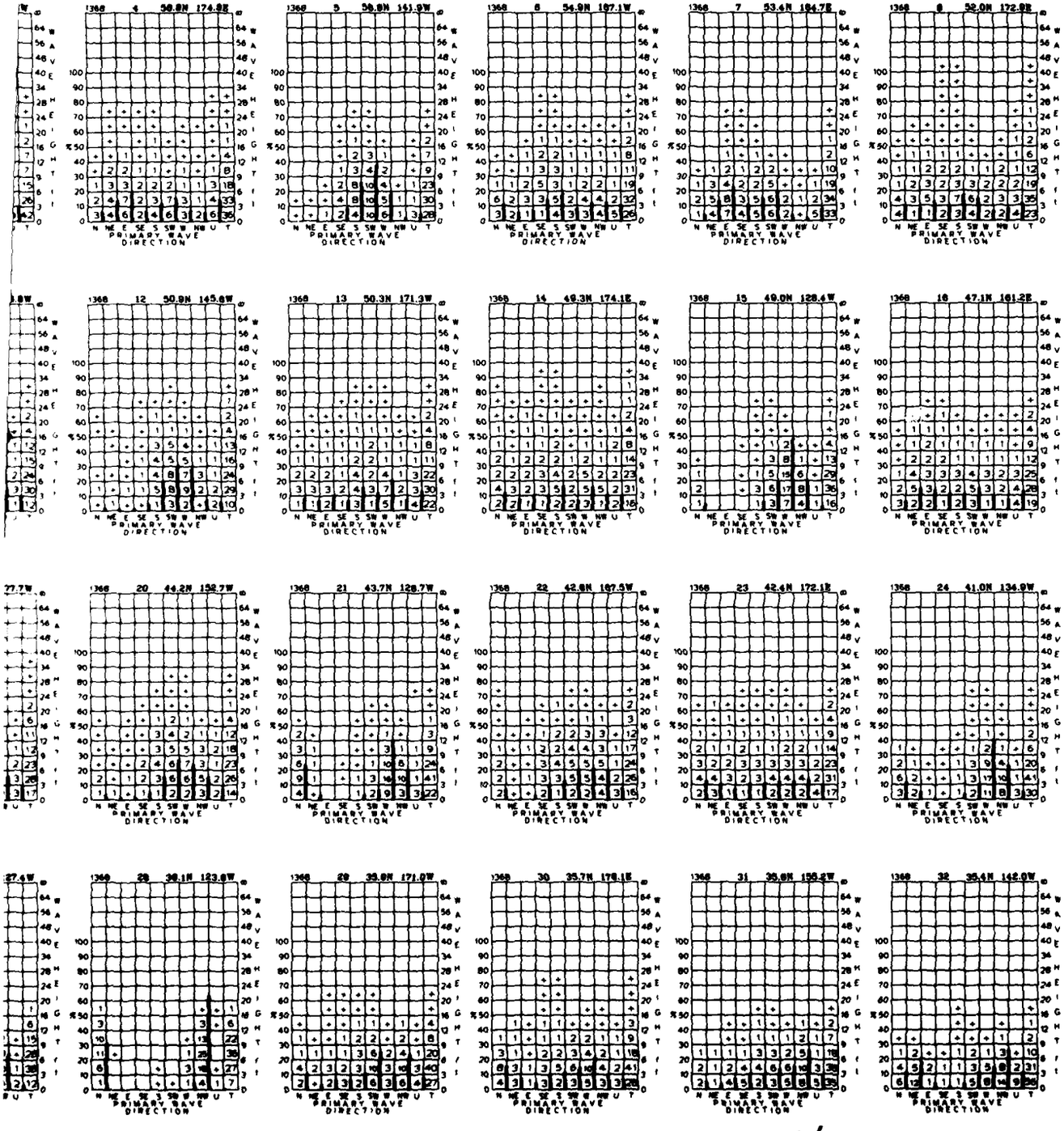
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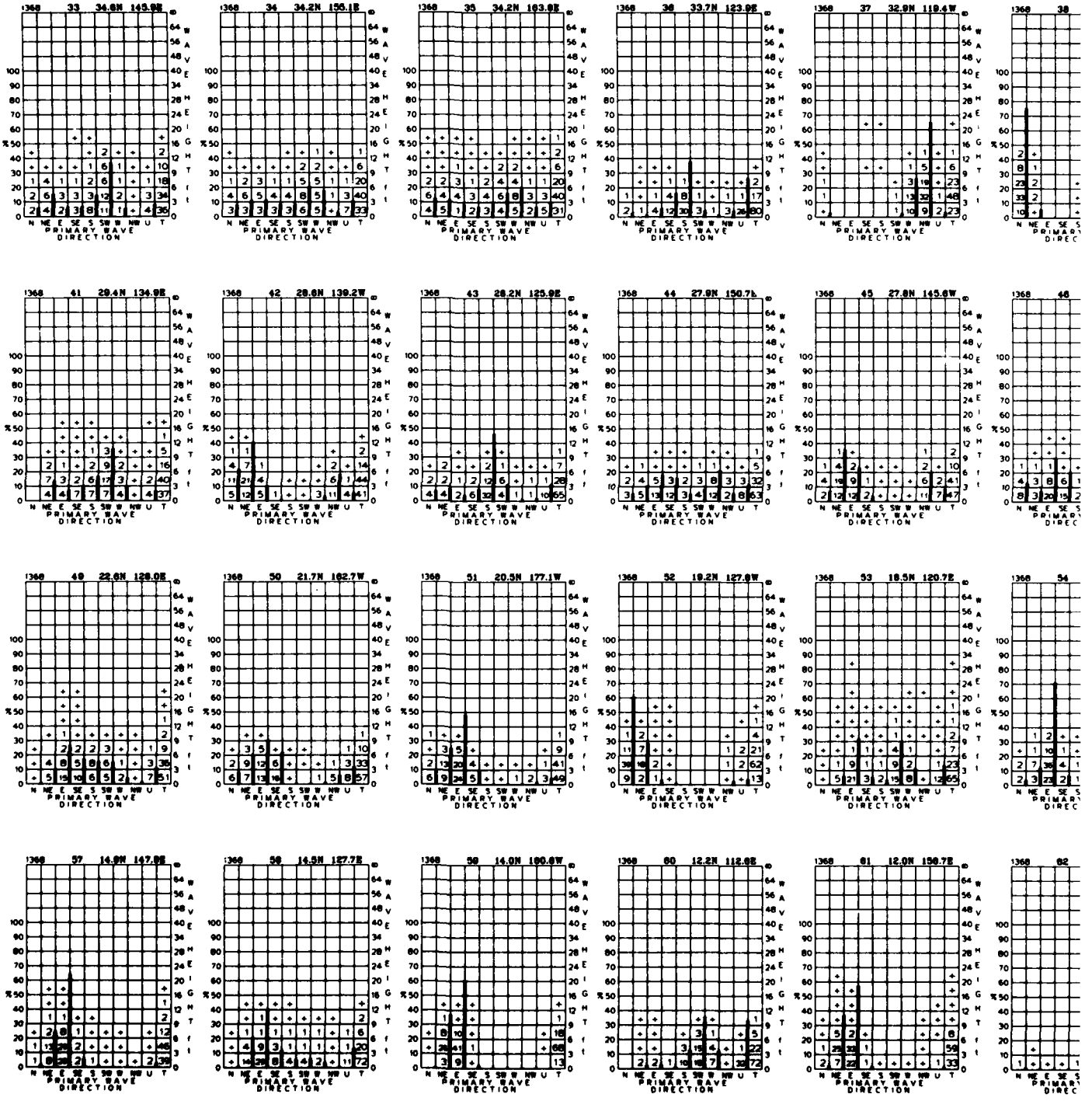
WAVE HEIGHT AND PRIMA



WAVE HEIGHT AND PRIMARY WAVE DIRECTION

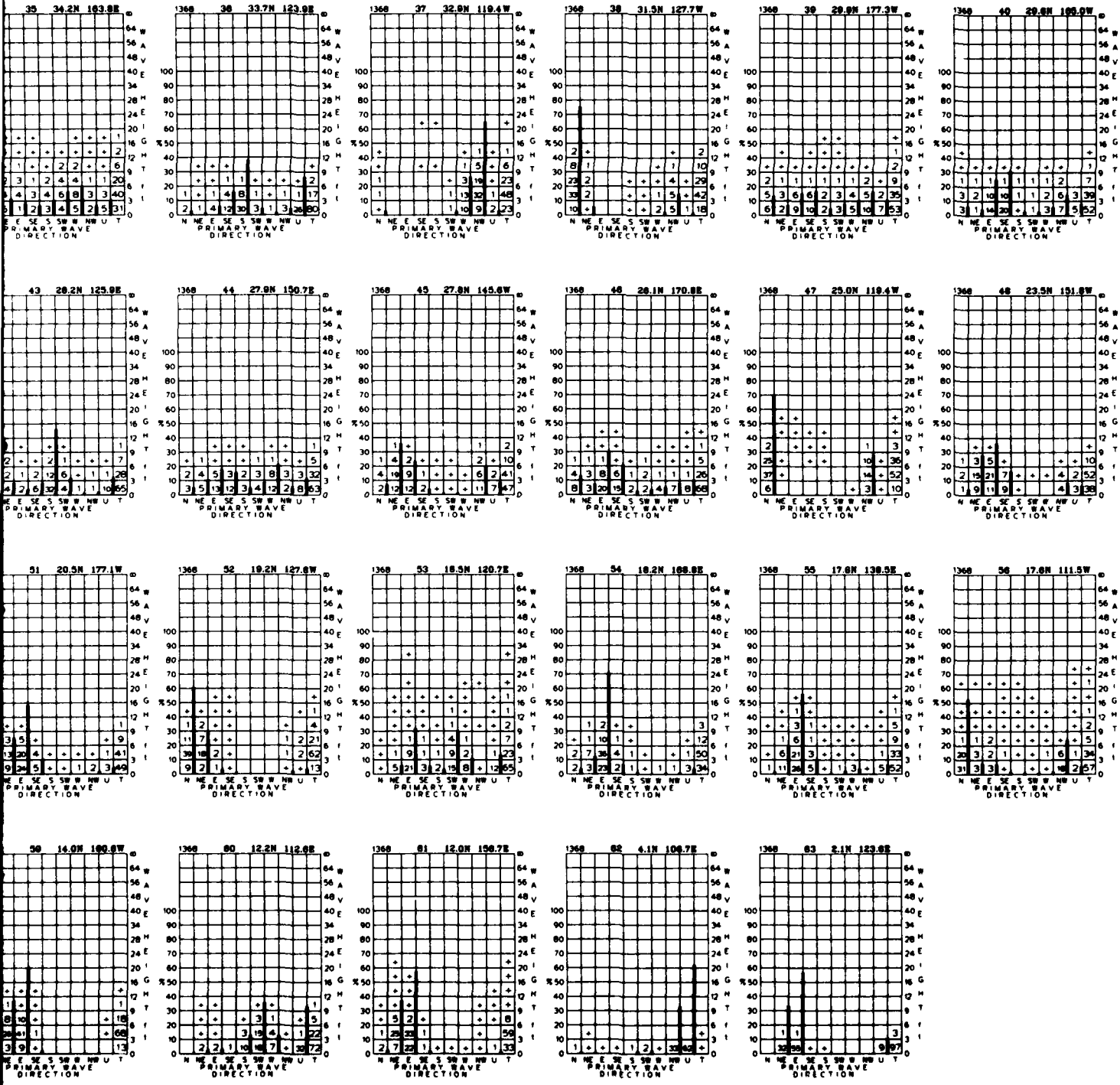


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



MARY WAVE DIRECTION (Cont'd)

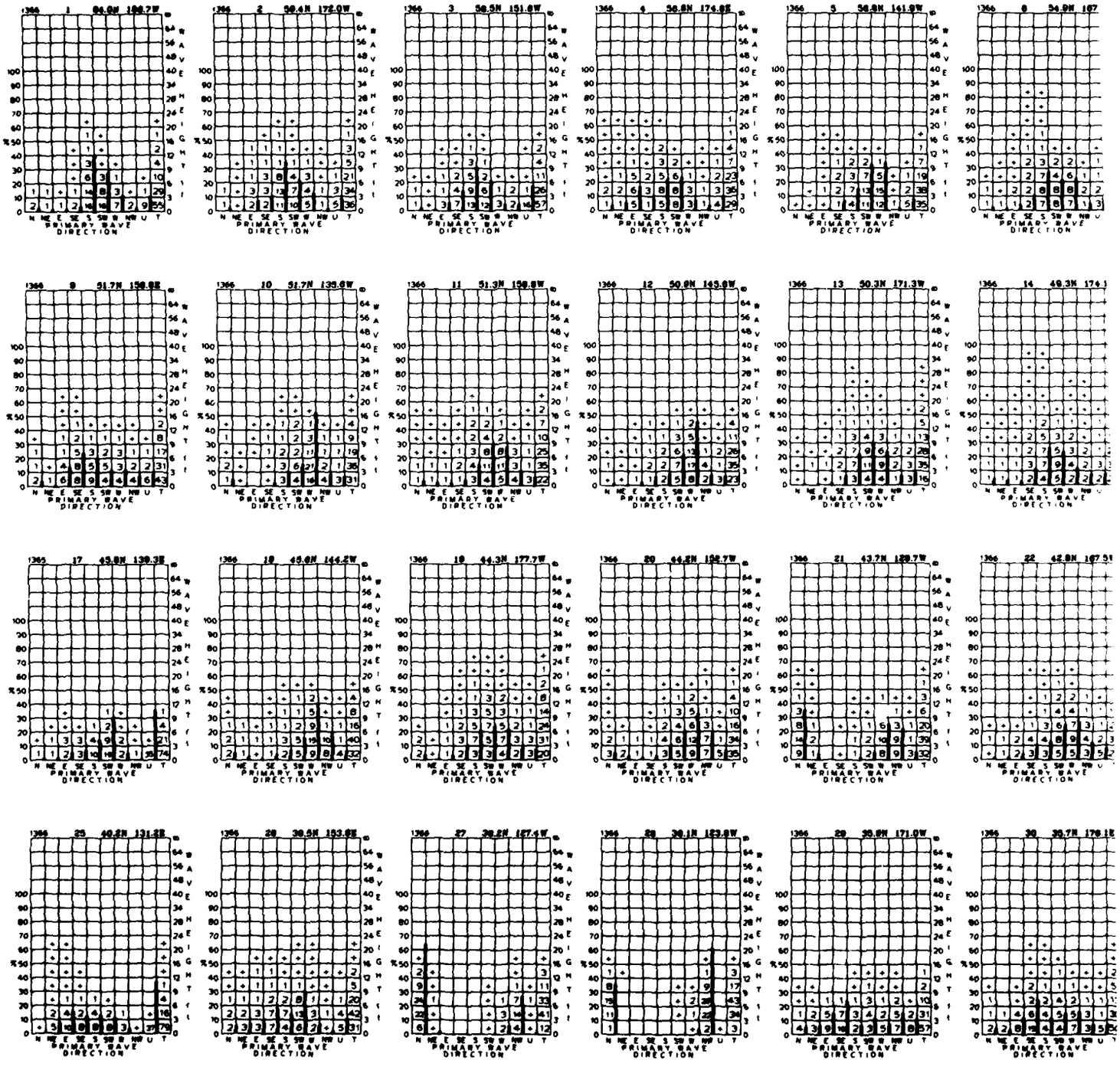
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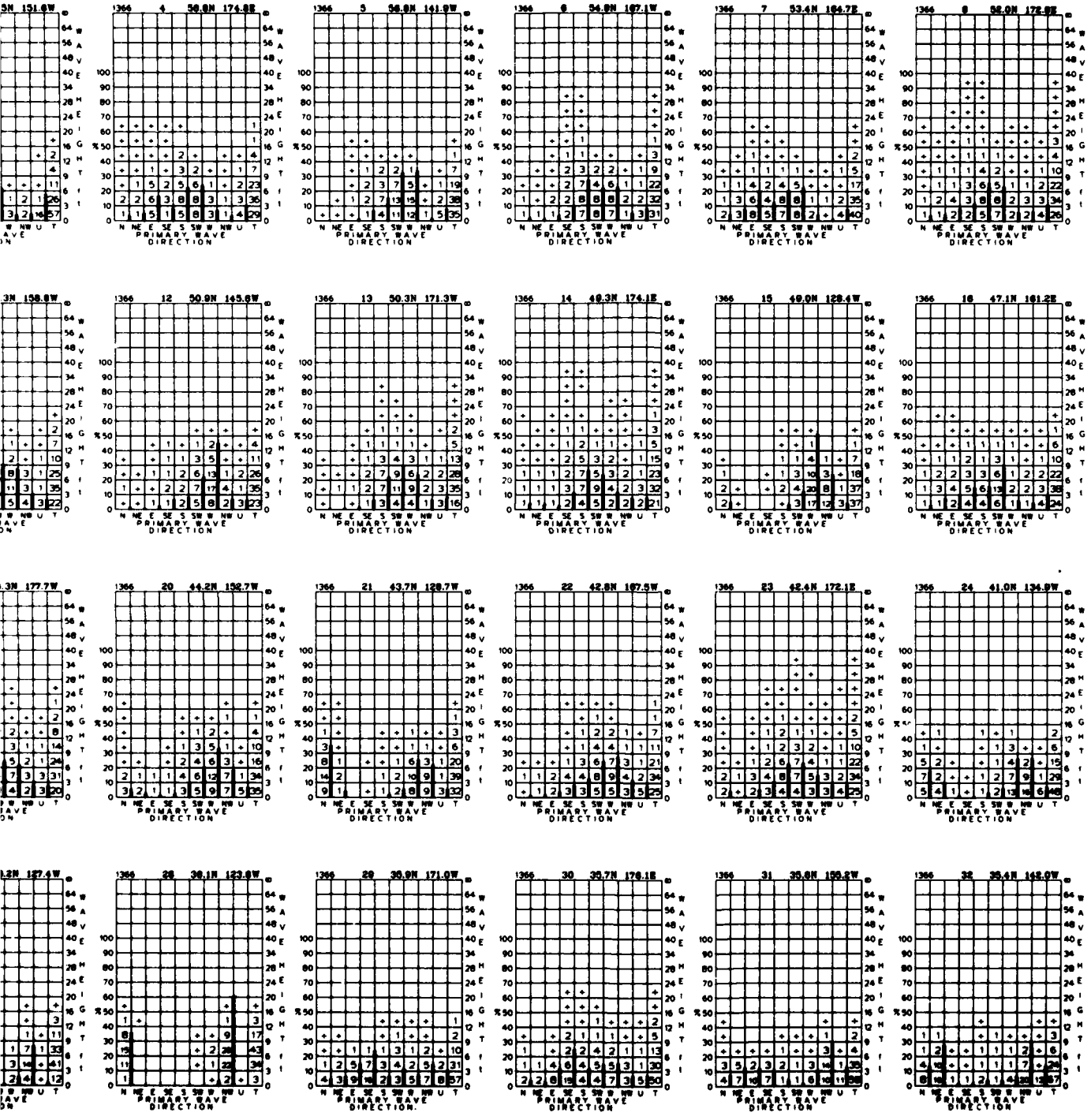
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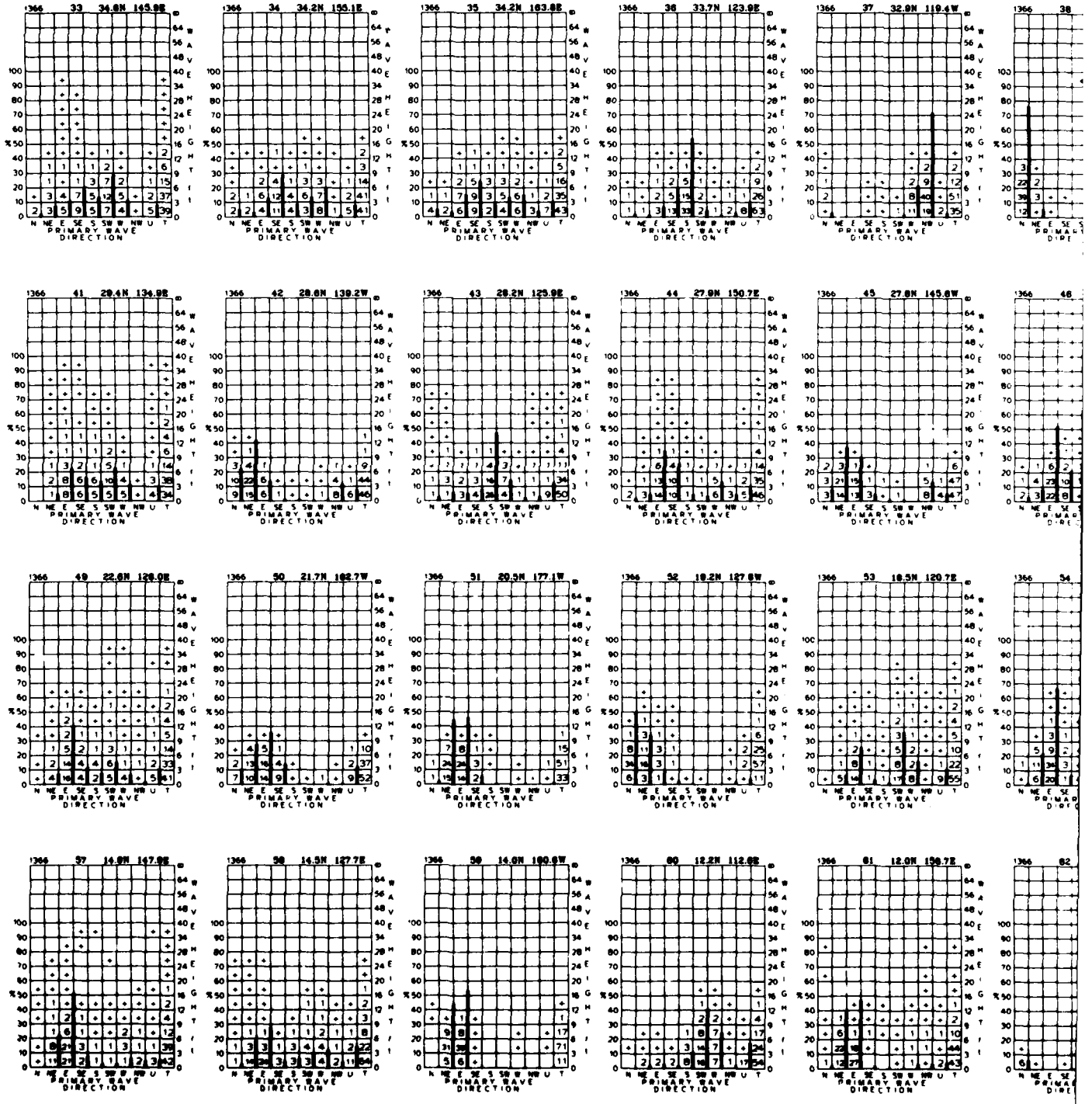
WAVE HEIGHT AND PRIMA



WAVE HEIGHT AND PRIMARY WAVE DIRECTION

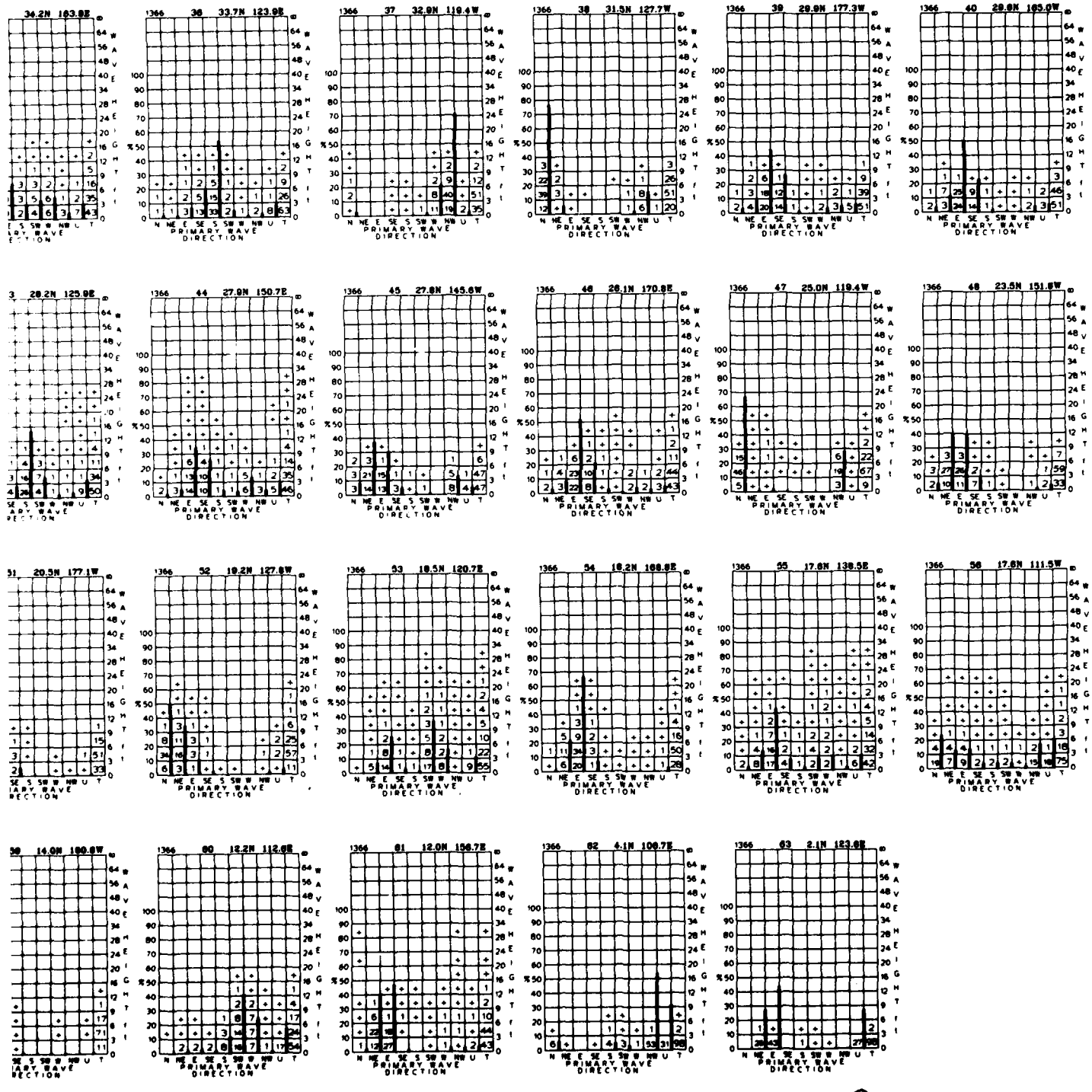


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



ARY WAVE DIRECTION (Cont'd)

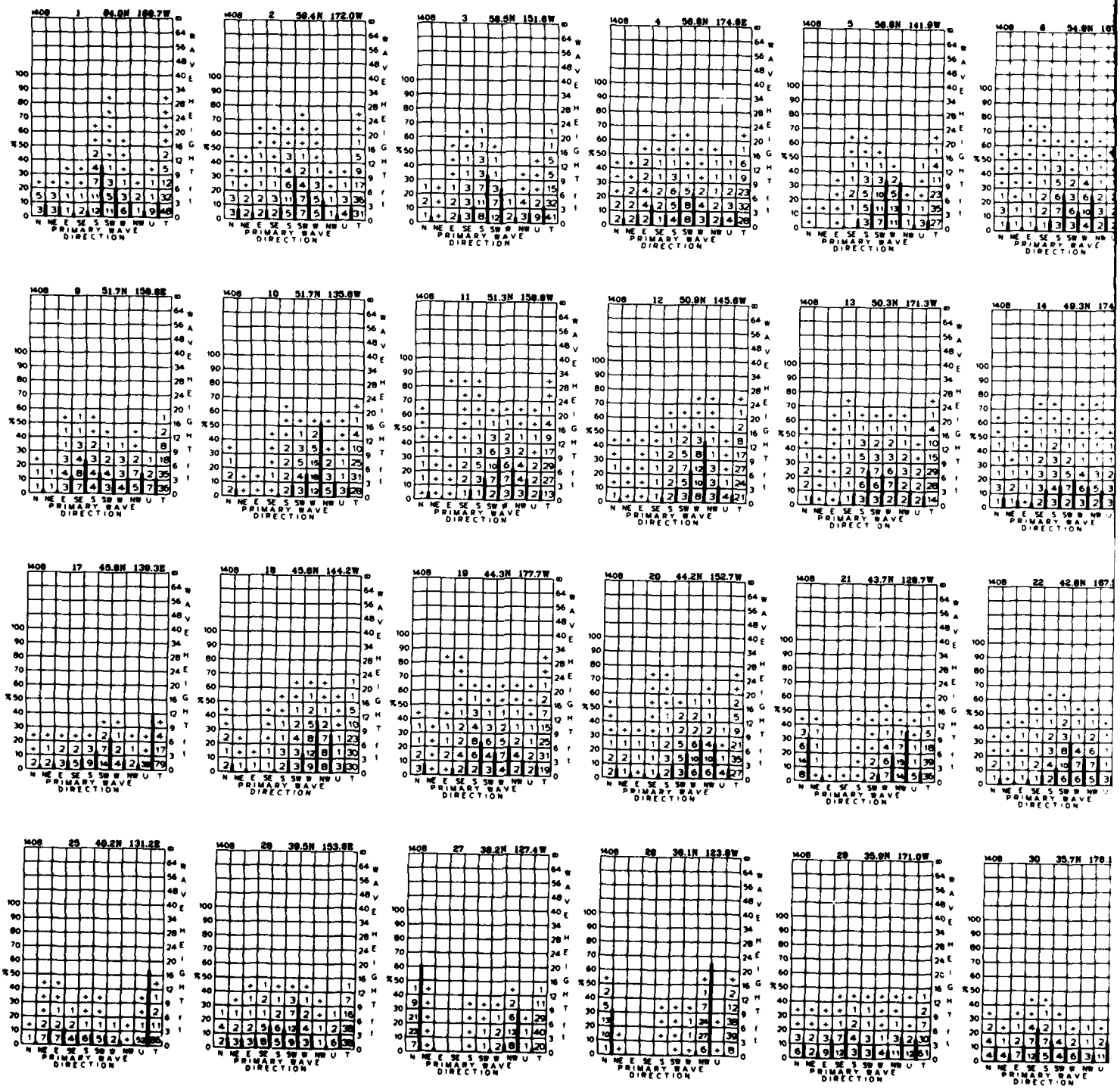
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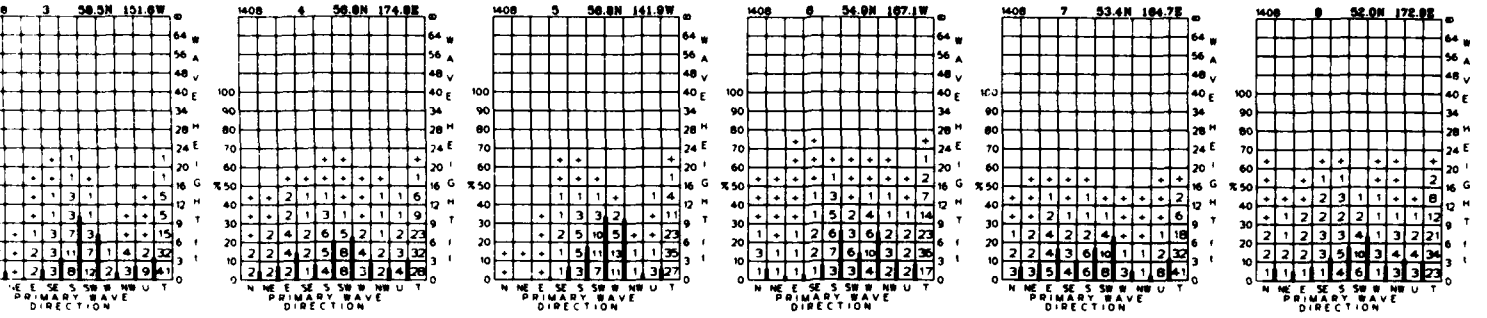
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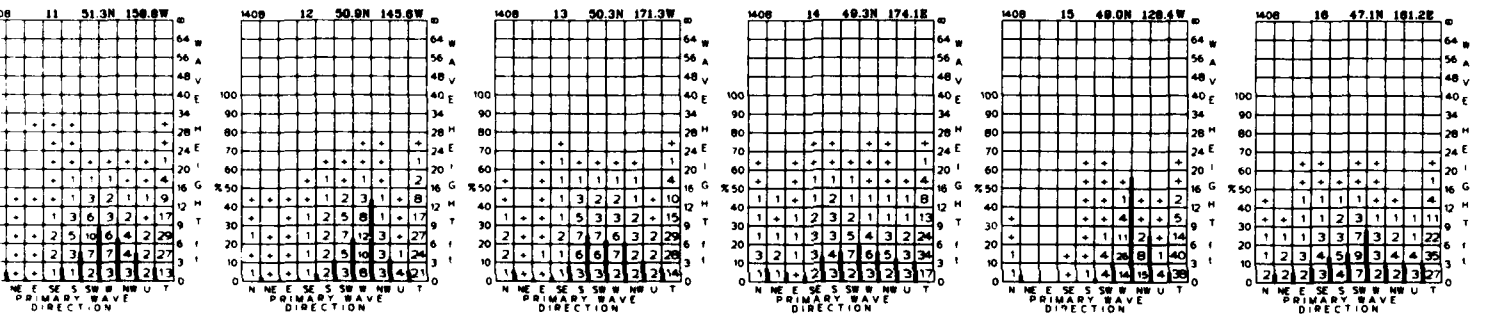
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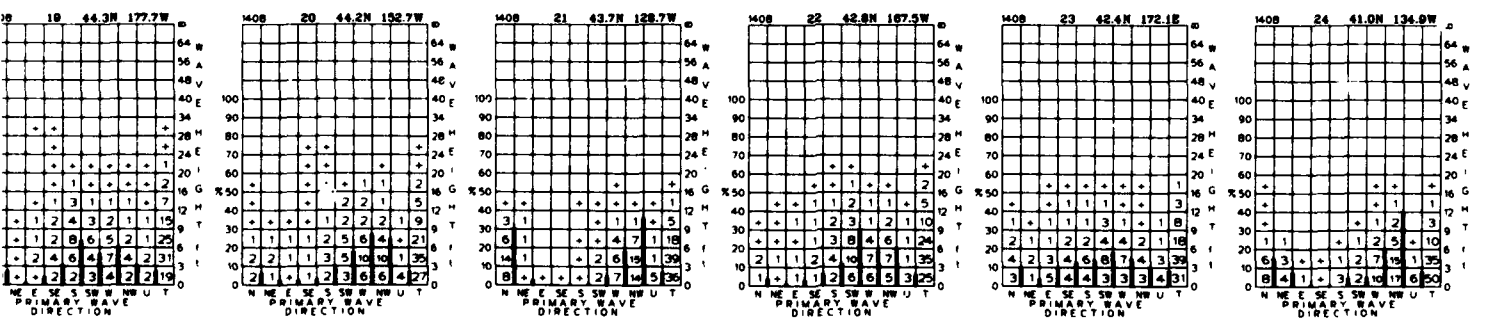
WAVE HEIGHT AND PRIMA

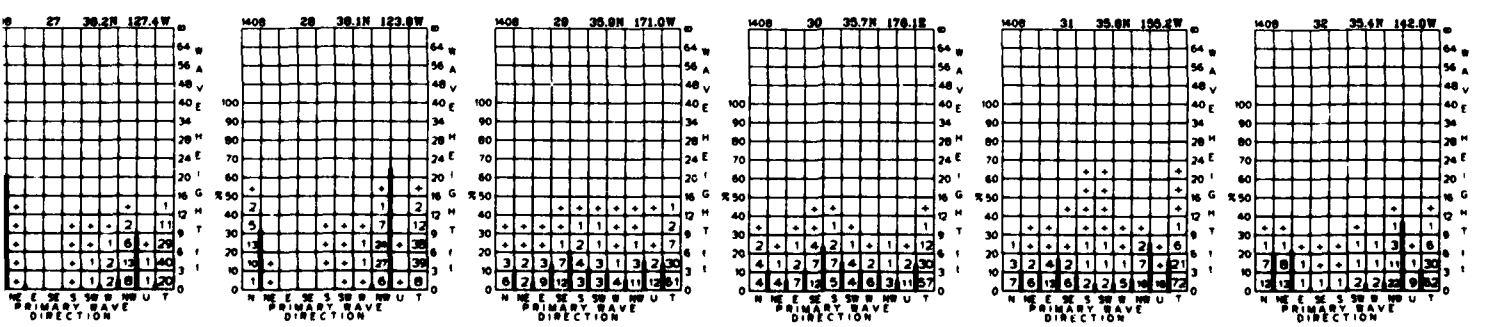


WAVE HEIGHT AND PRIMARY WAVE DIRECTION

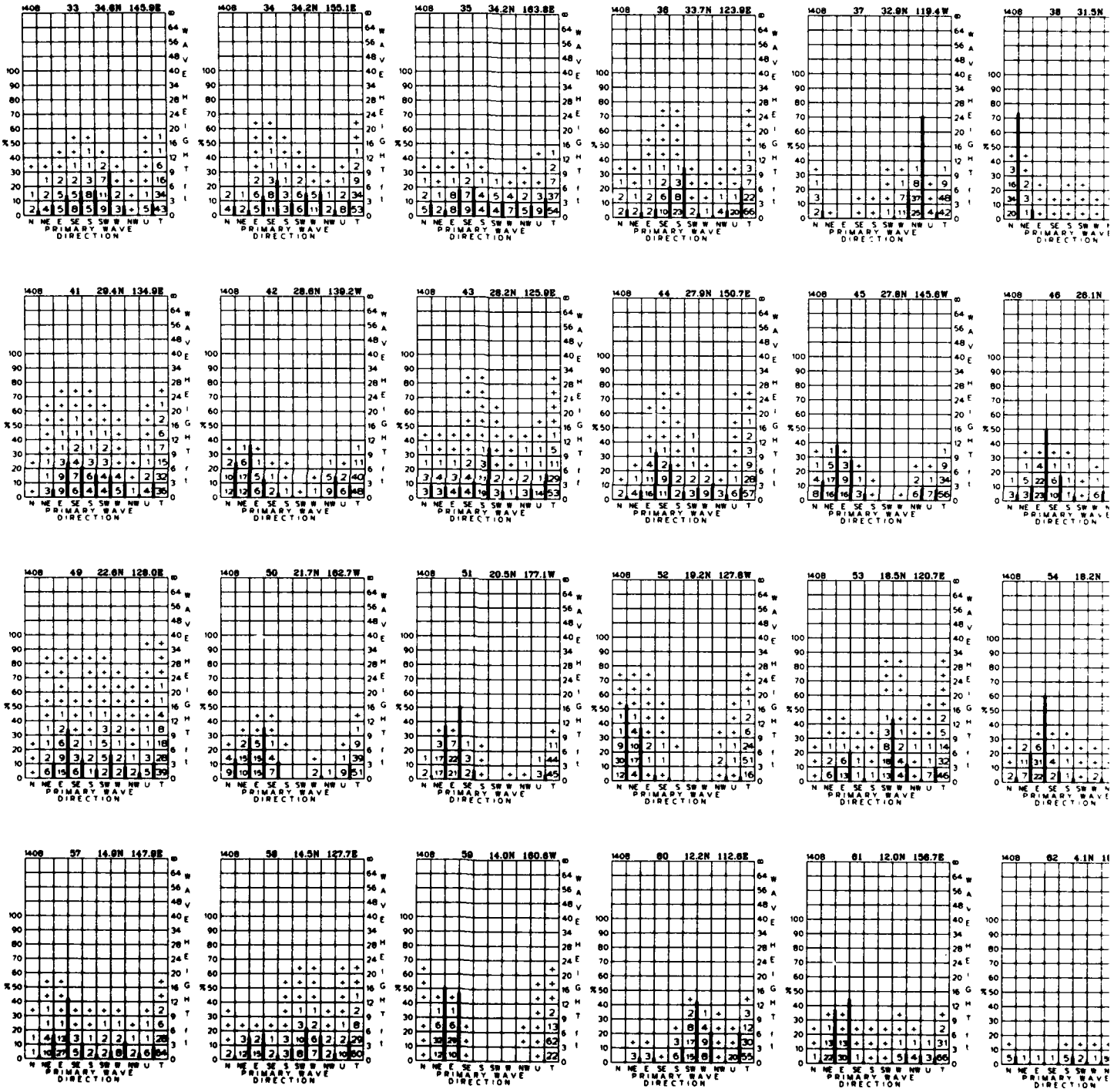






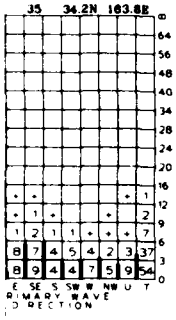


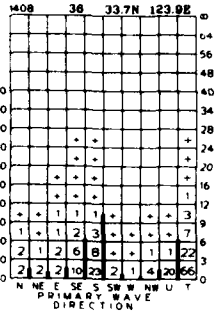
WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)

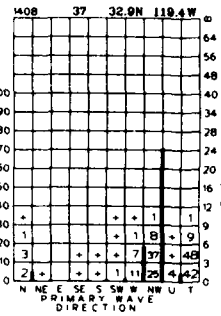


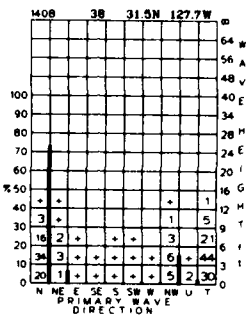
MARY WAVE DIRECTION (Cont'd)

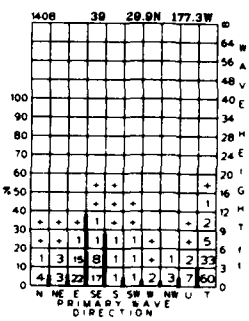
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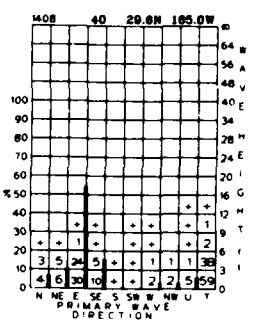


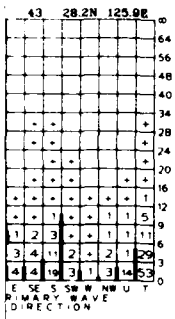


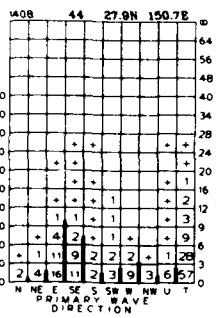


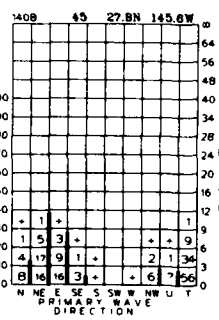


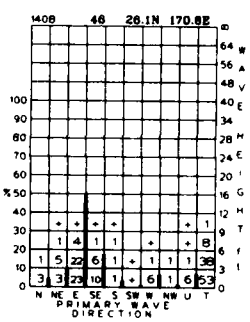


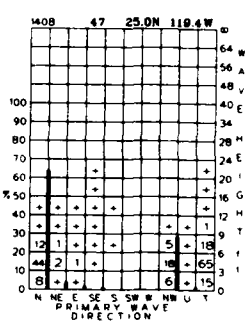


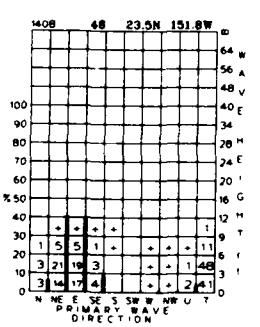


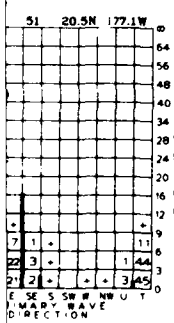


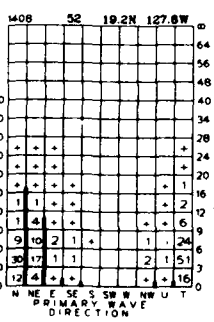


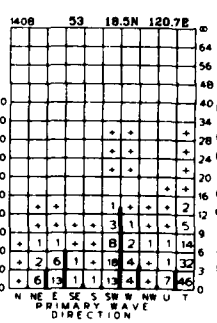


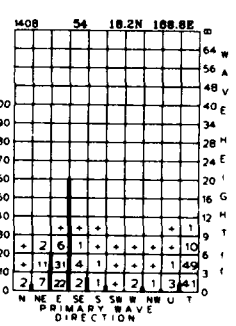


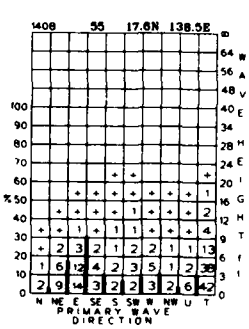


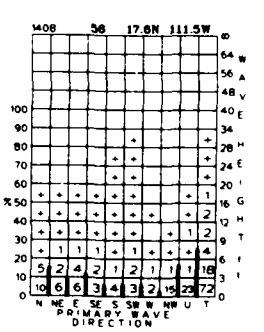


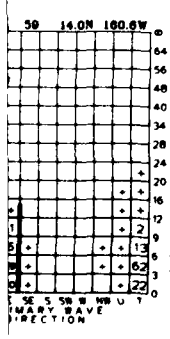


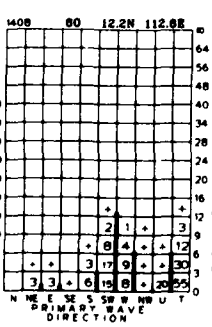


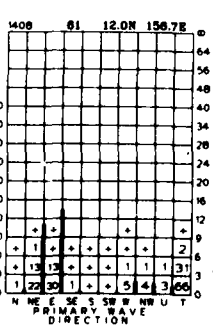


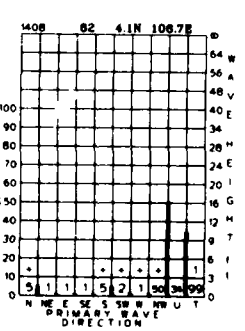


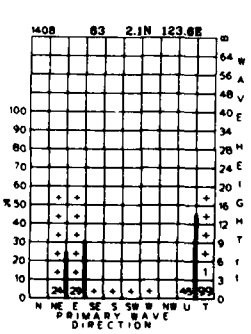








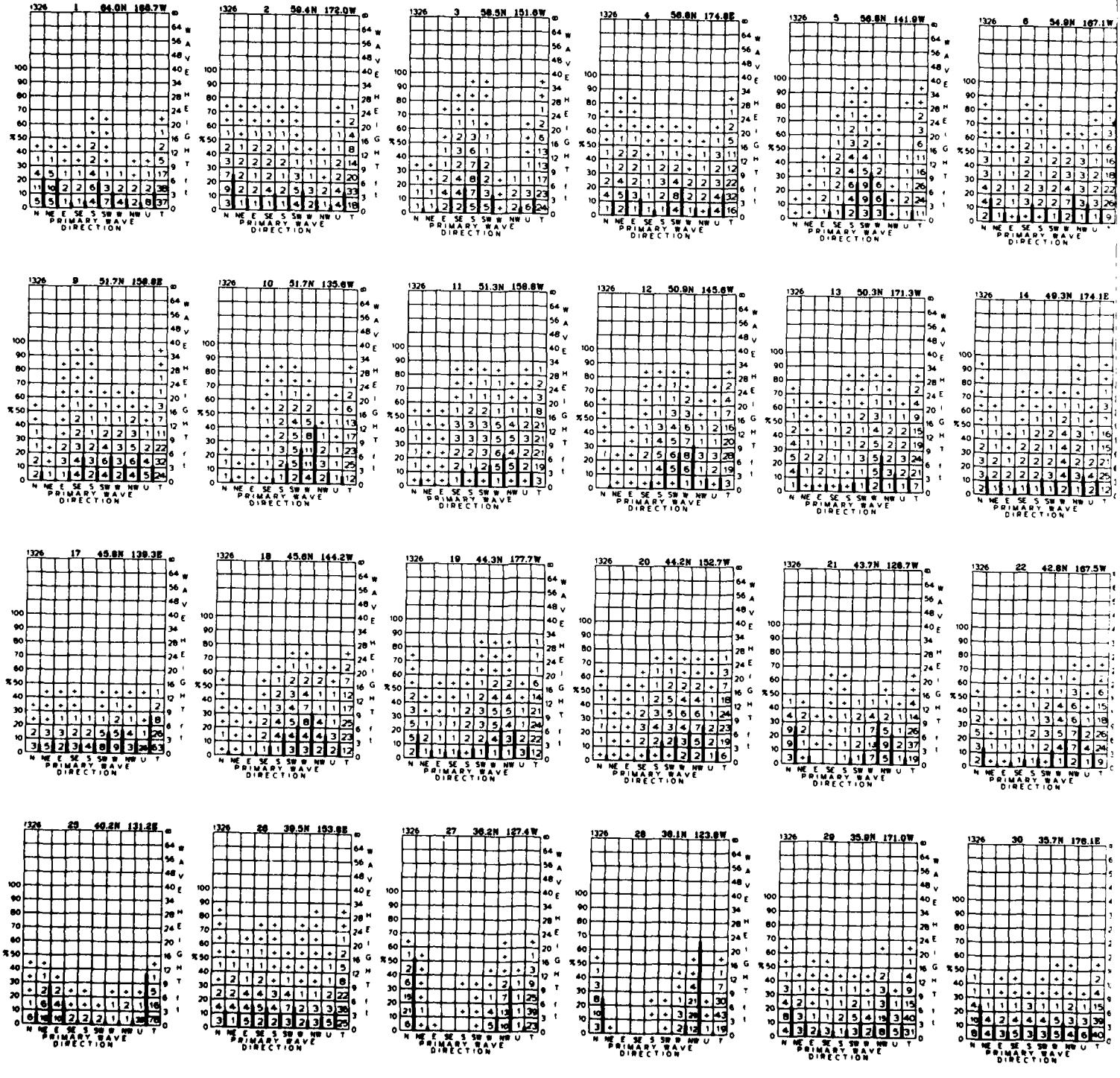




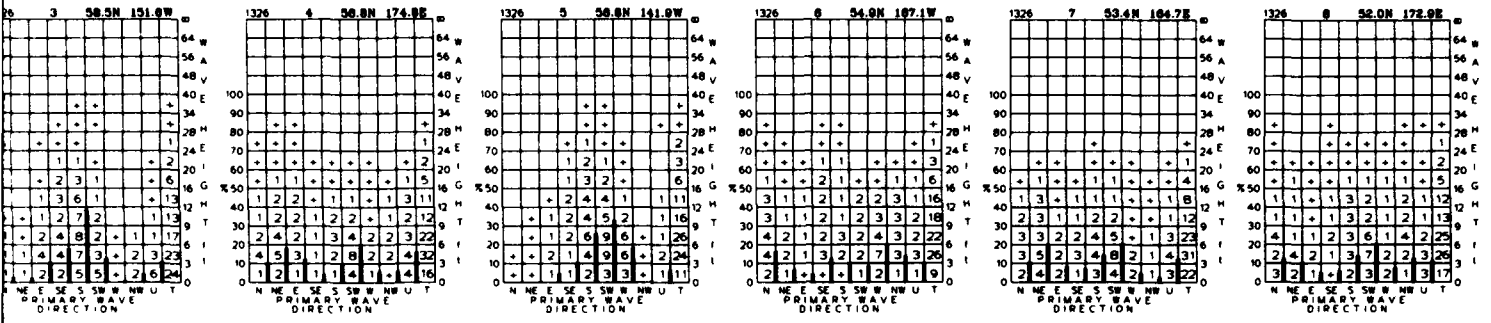
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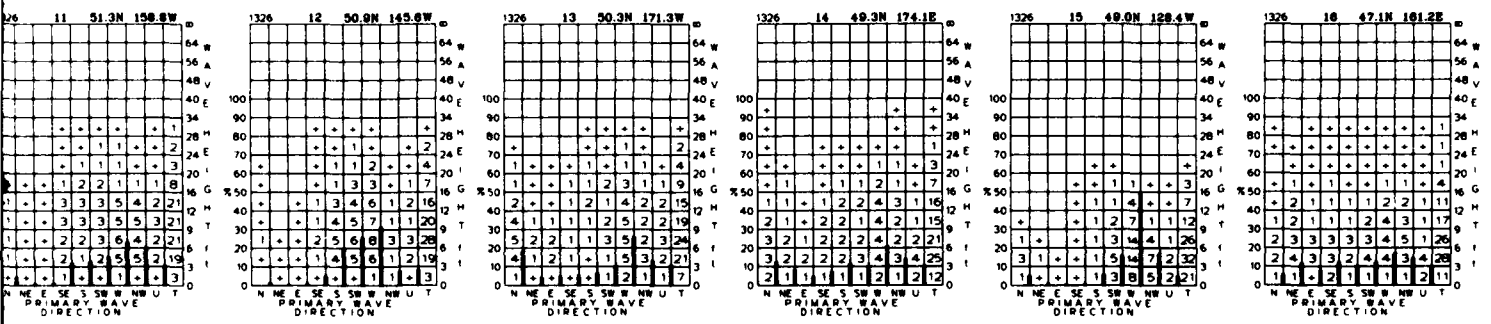
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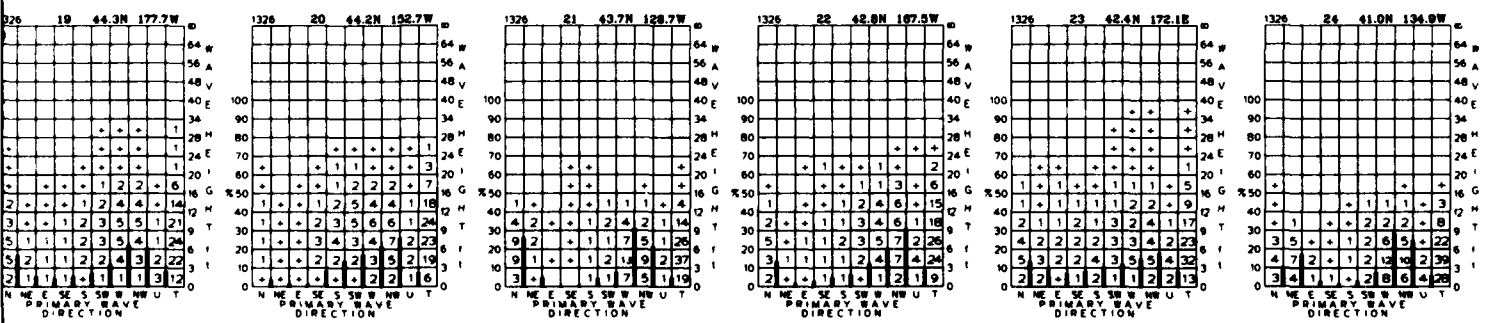
WAVE HEIGHT AND PRIMA

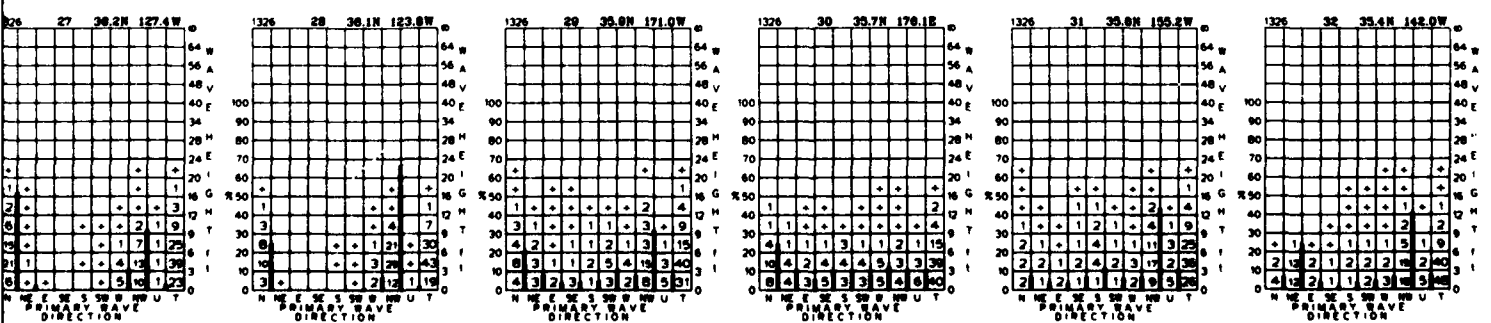


WAVE HEIGHT AND PRIMARY WAVE DIRECTION

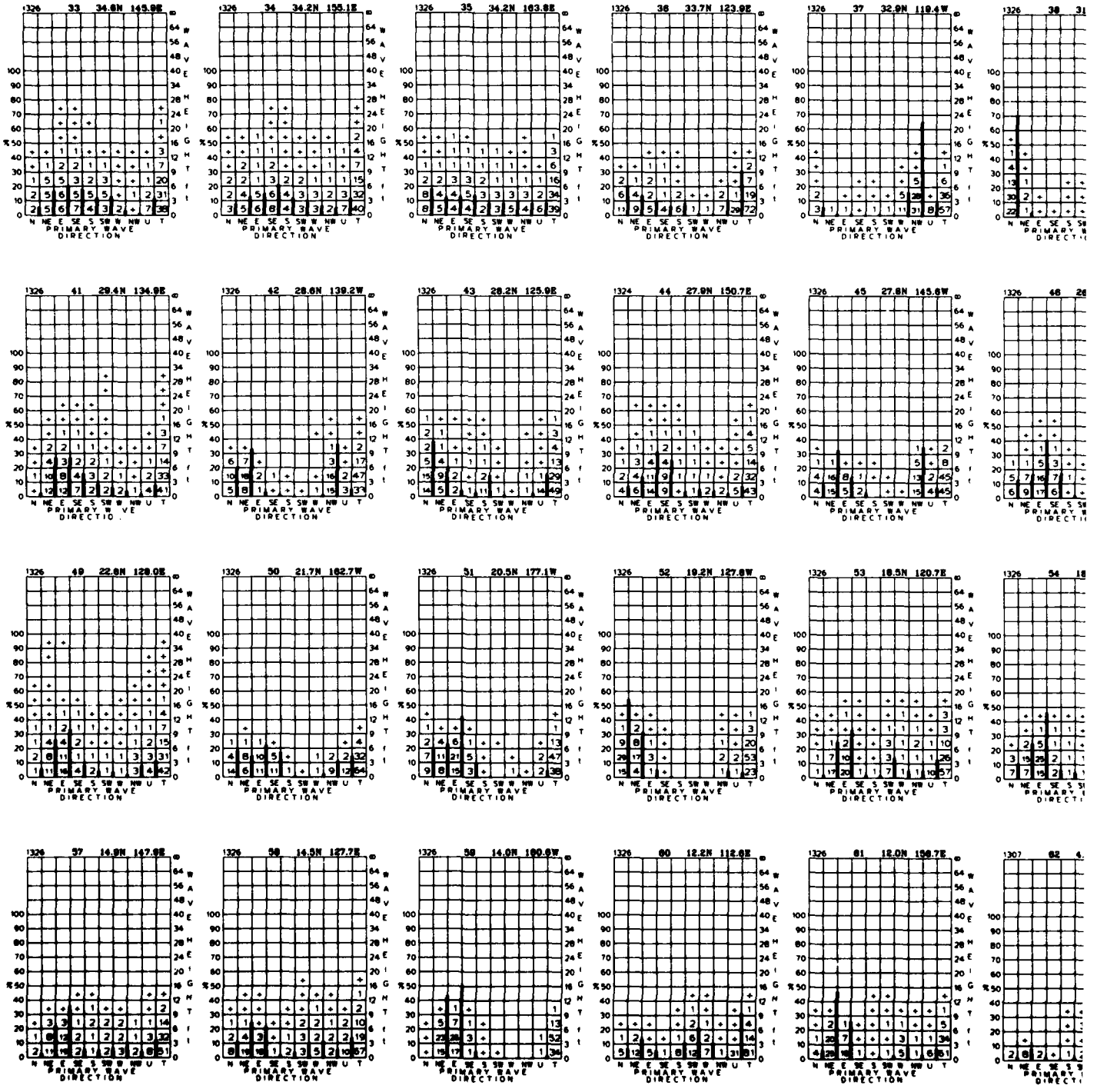






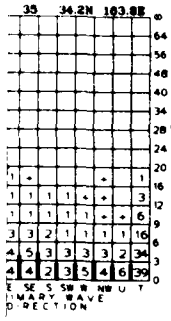


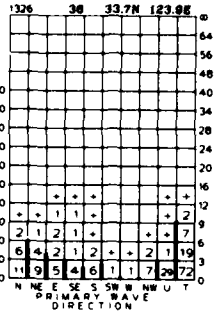
WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)

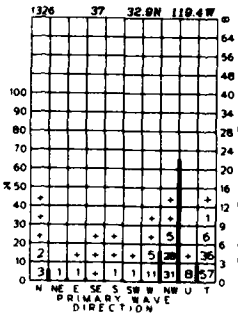


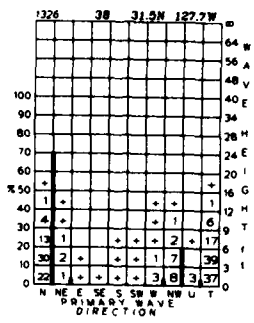
MARY WAVE DIRECTION (Cont'd)

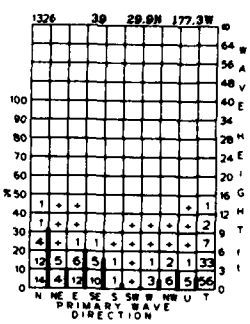
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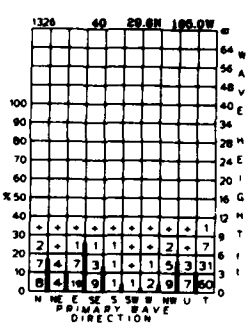


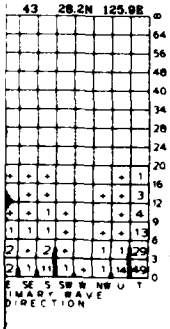


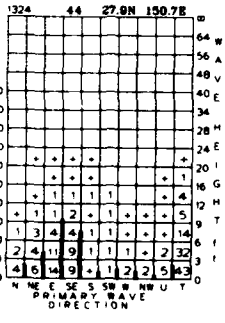


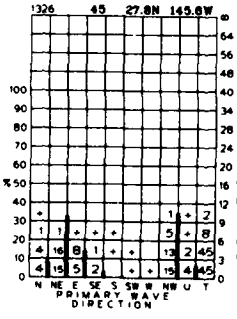


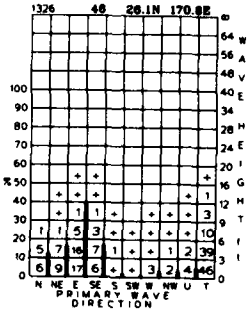


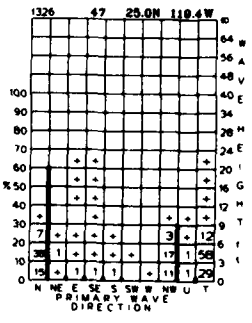


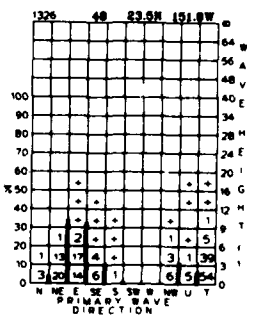


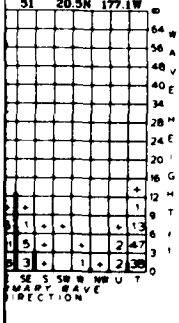


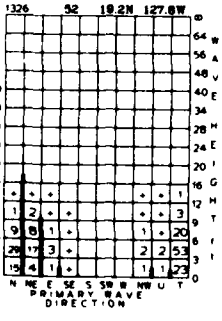


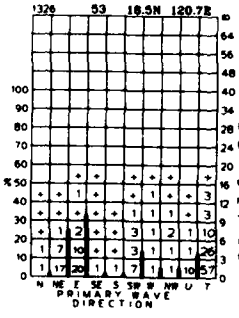


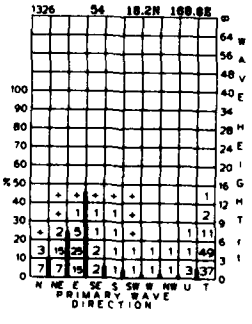


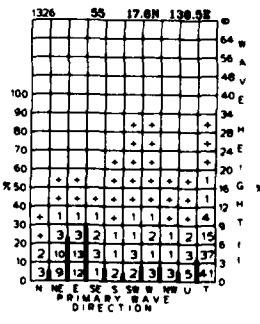


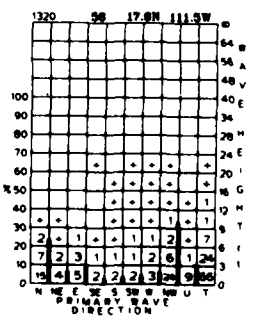


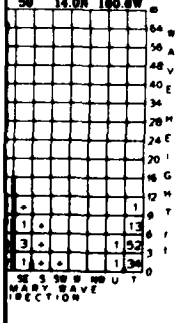


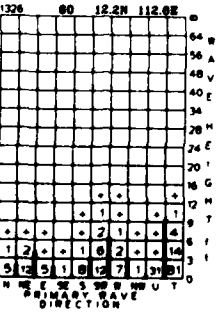


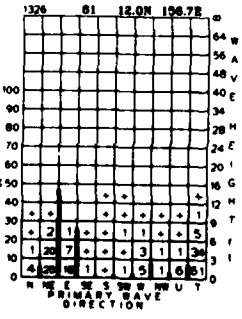


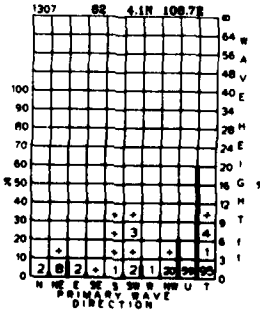


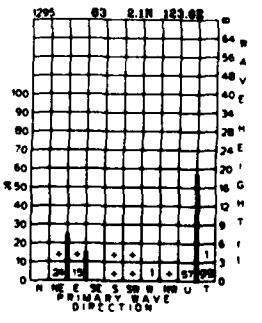








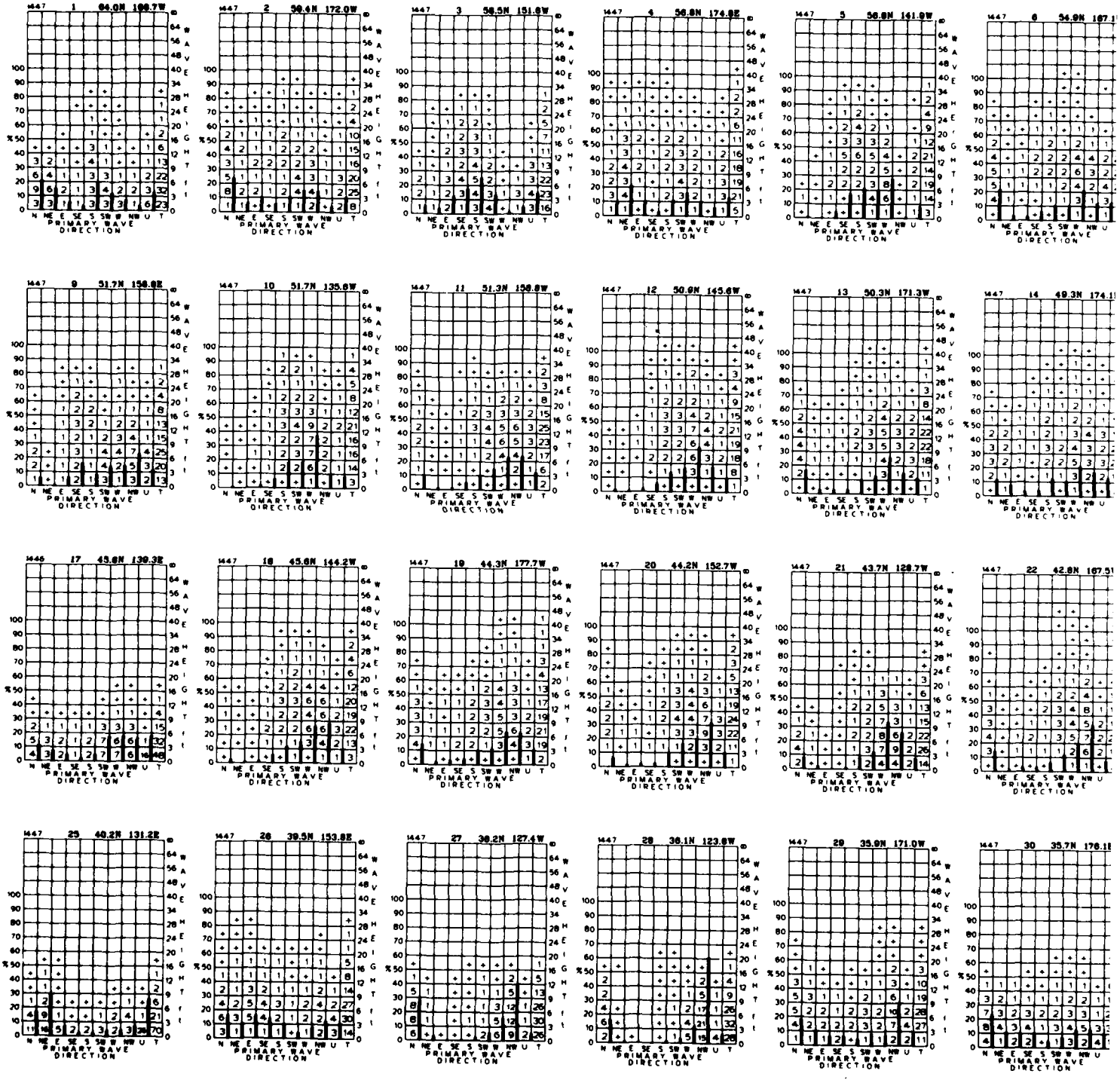




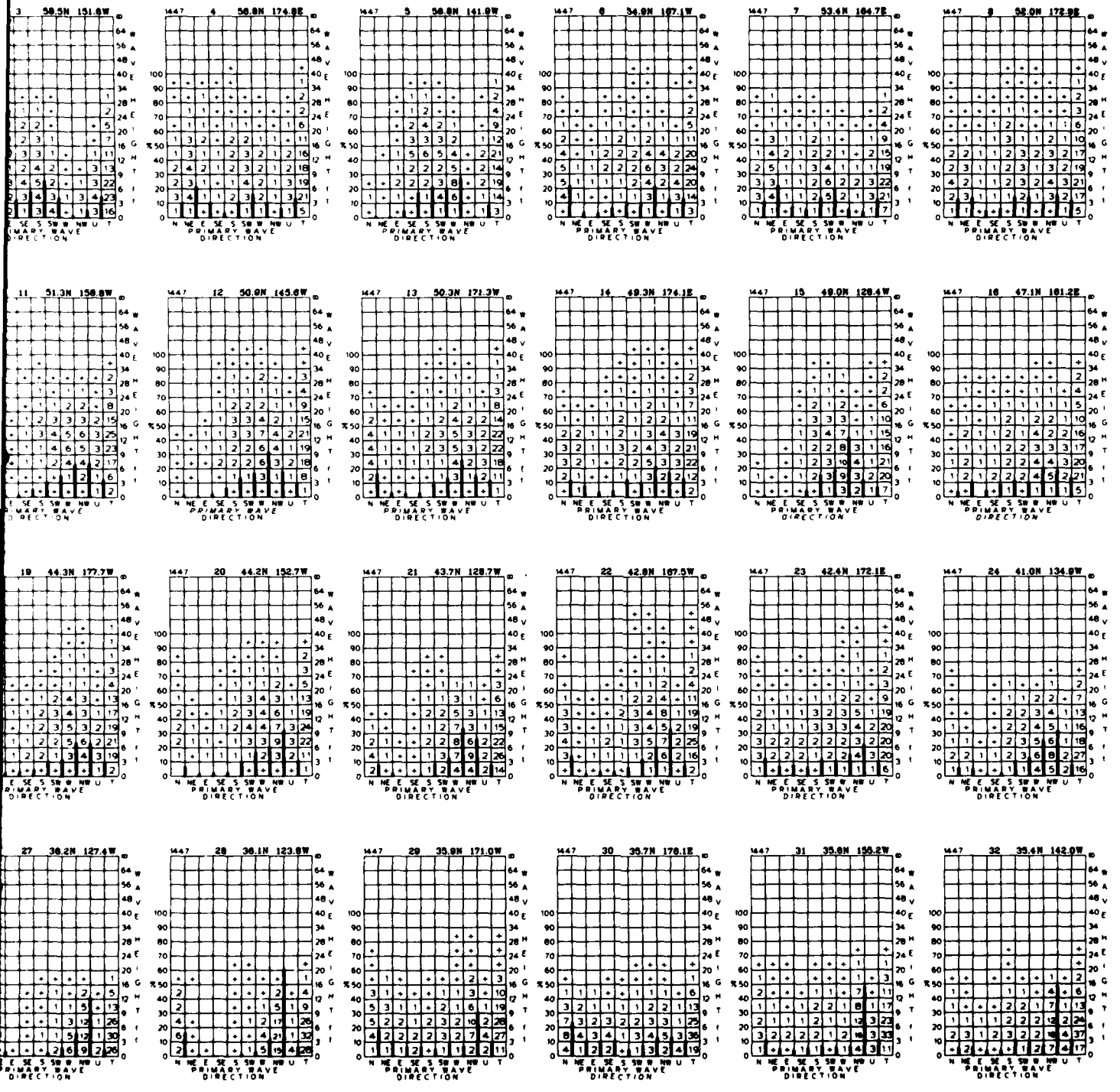
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OCTOBER

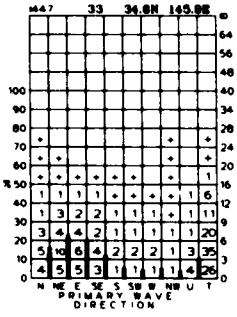
WAVE HEIGHT AND PRIMA

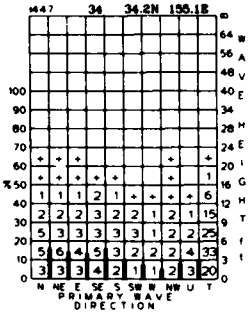


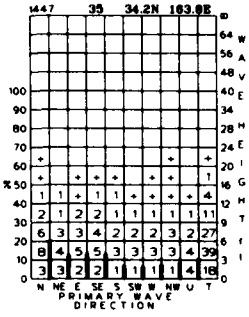
WAVE HEIGHT AND PRIMARY WAVE DIRECTION

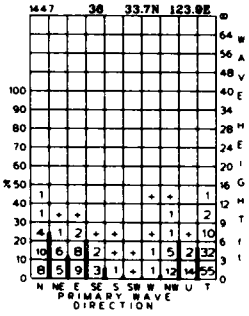


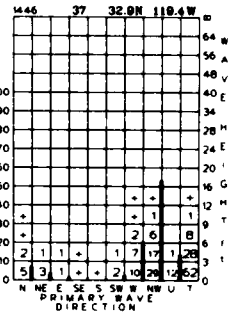
WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)

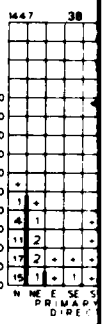


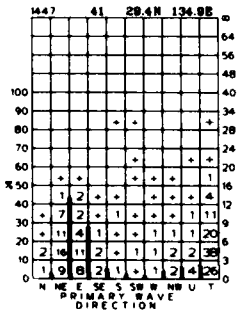


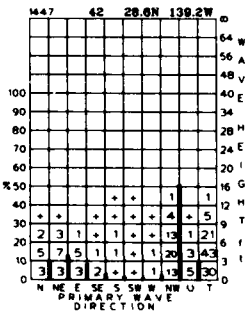


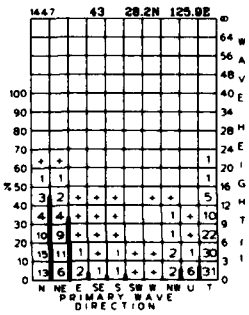


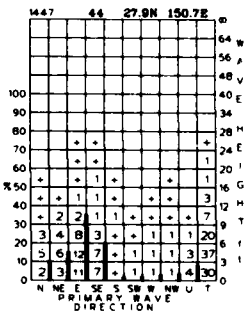


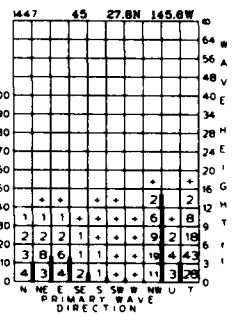


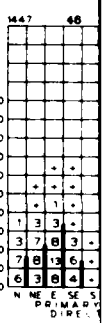


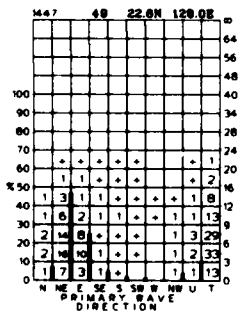


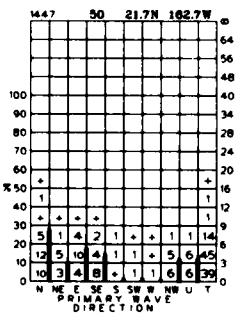


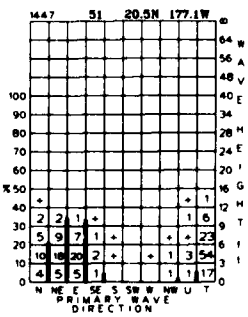


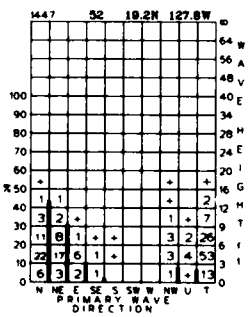


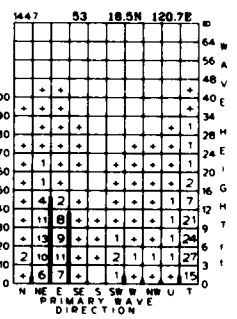


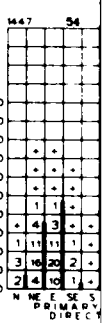


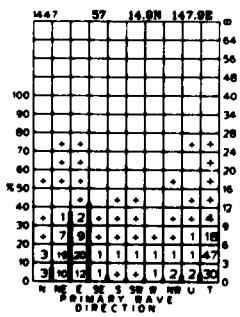


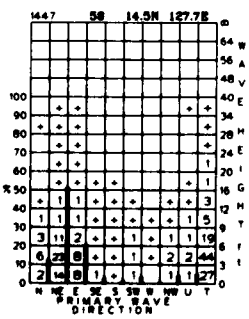


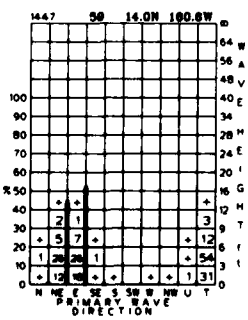


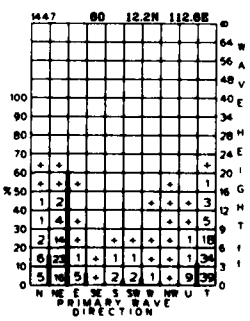


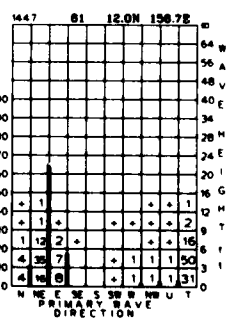


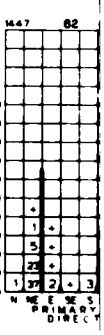






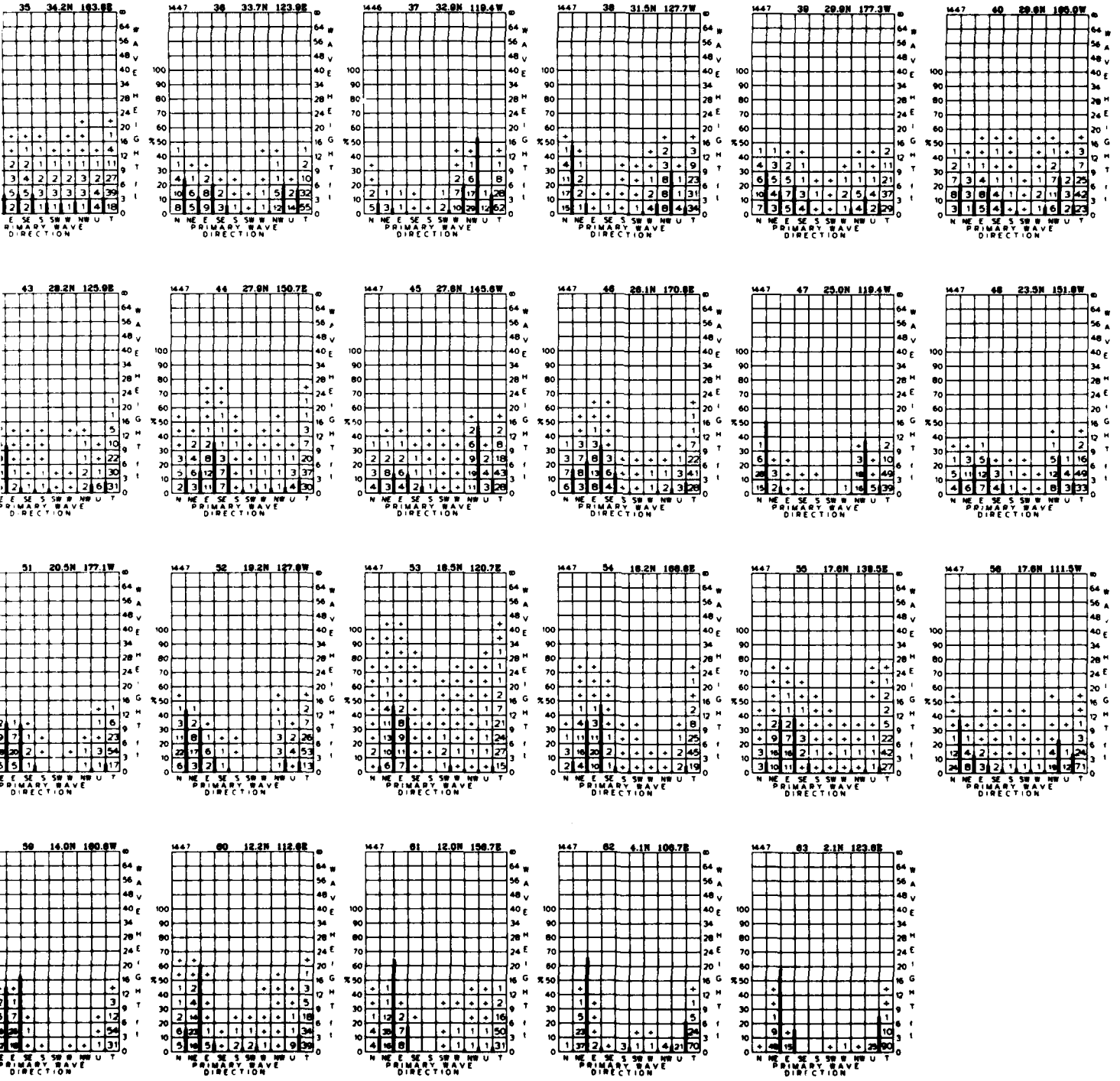






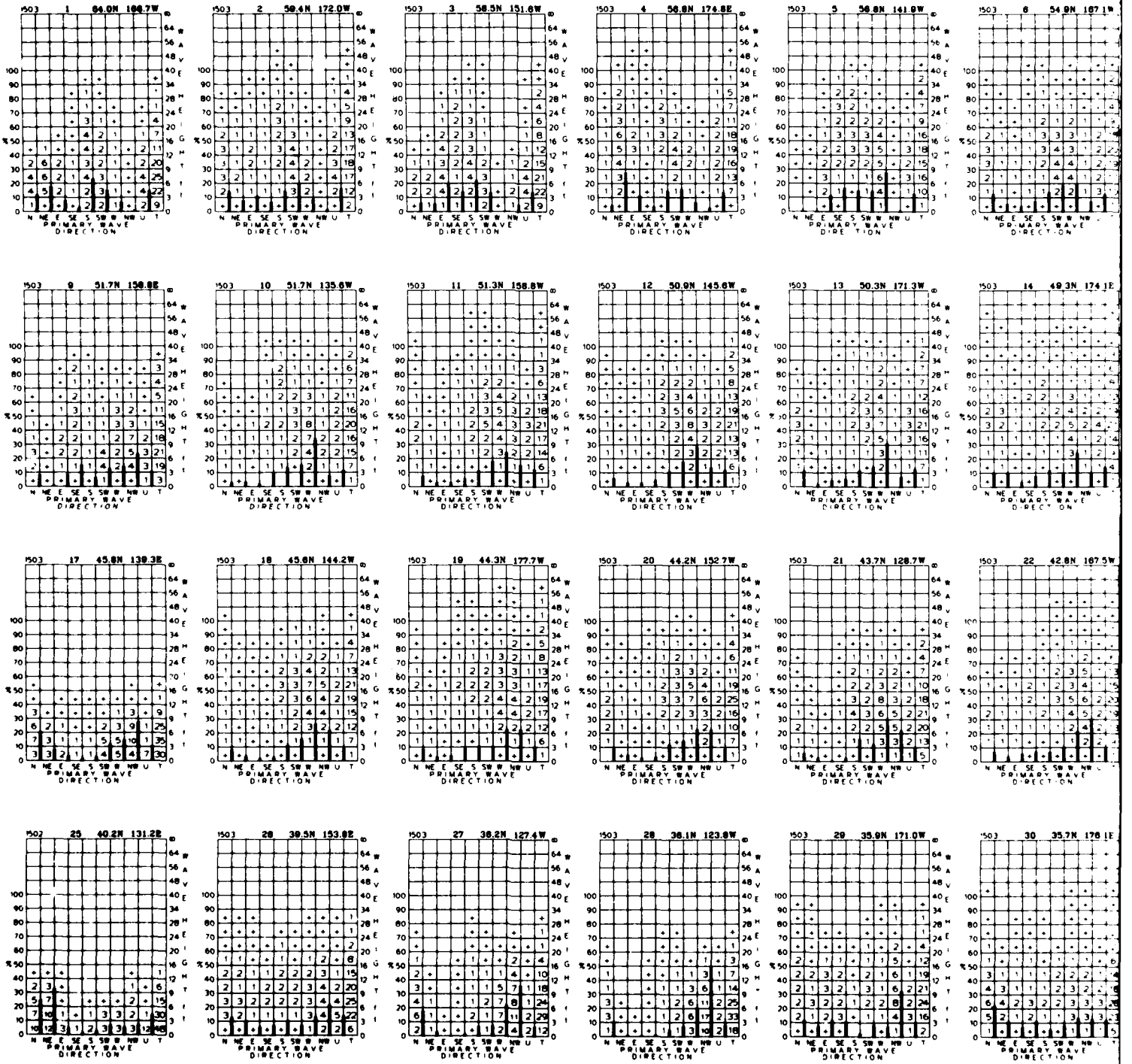
MARY WAVE DIRECTION (Cont'd)

OCTOBER

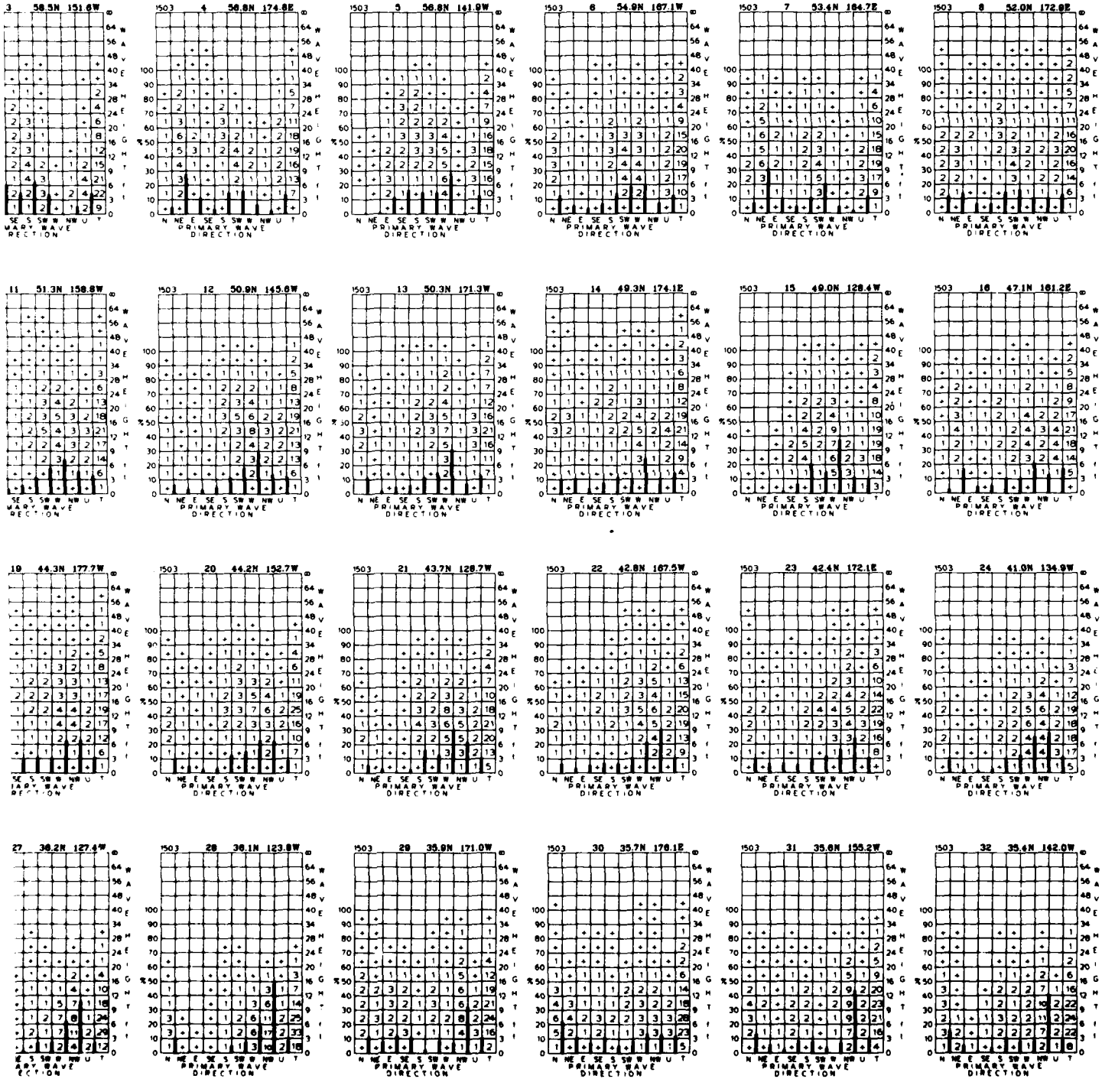


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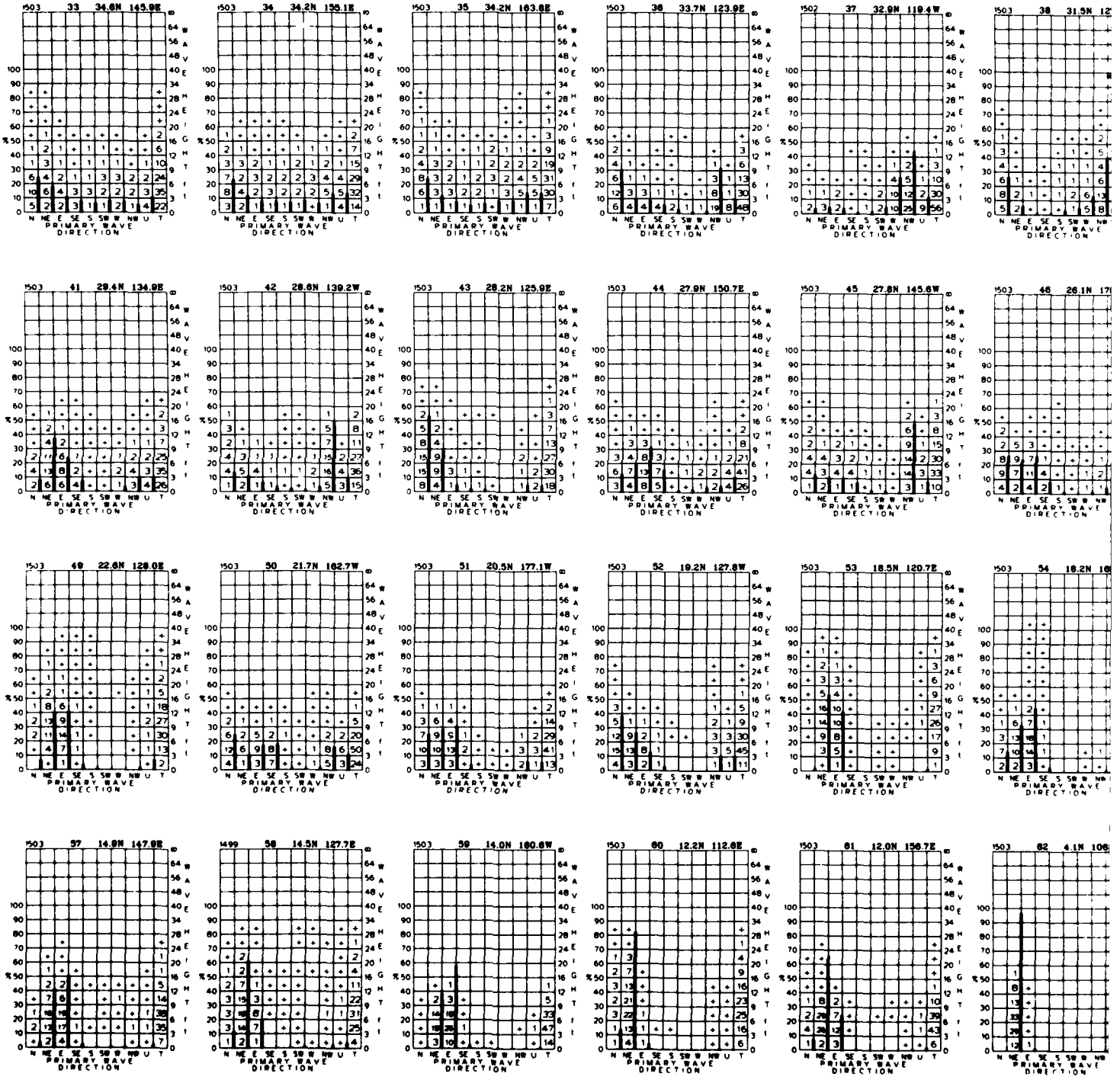
WAVE HEIGHT AND PRIMAR



WAVE HEIGHT AND PRIMARY WAVE DIRECTION

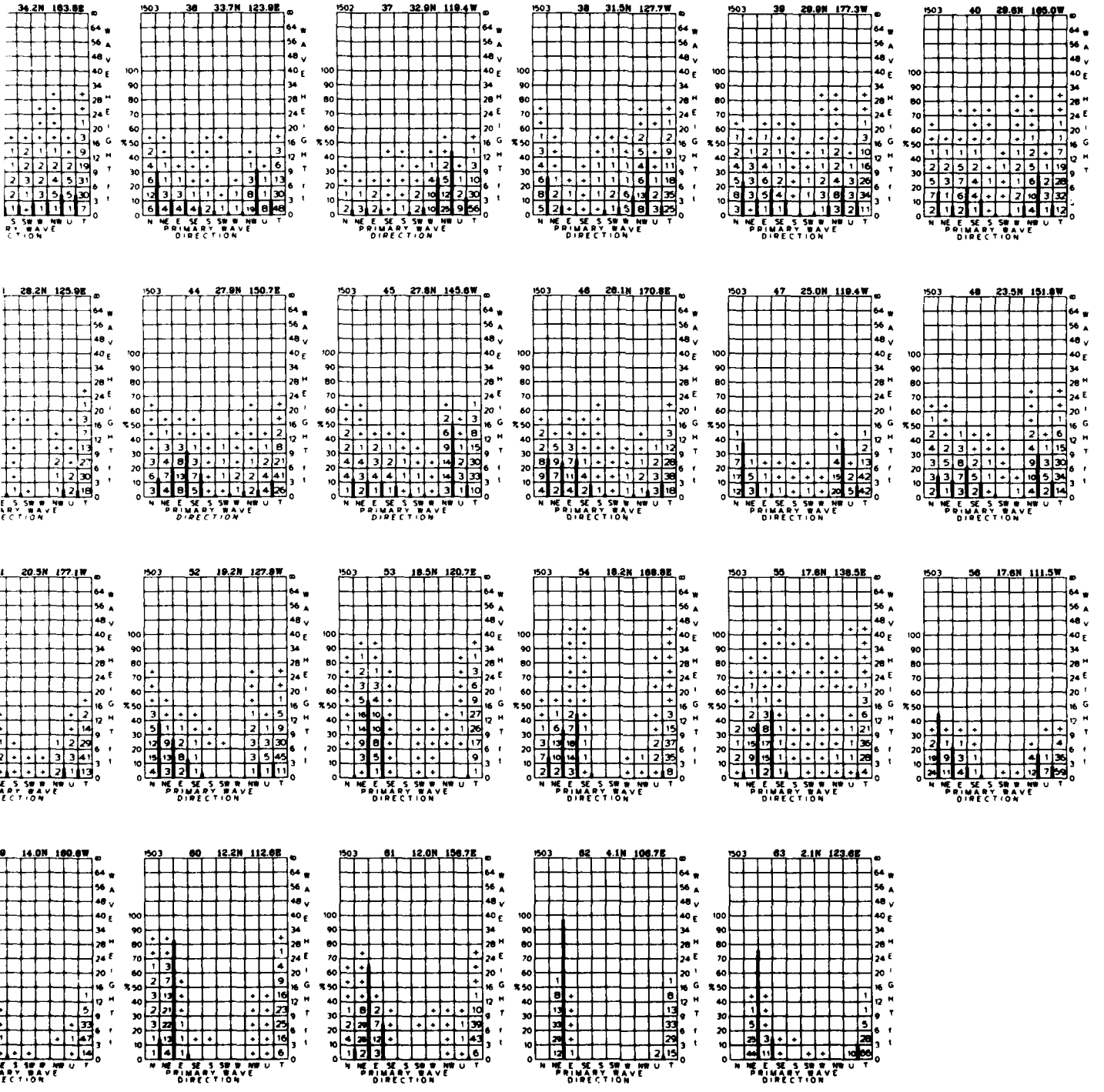


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



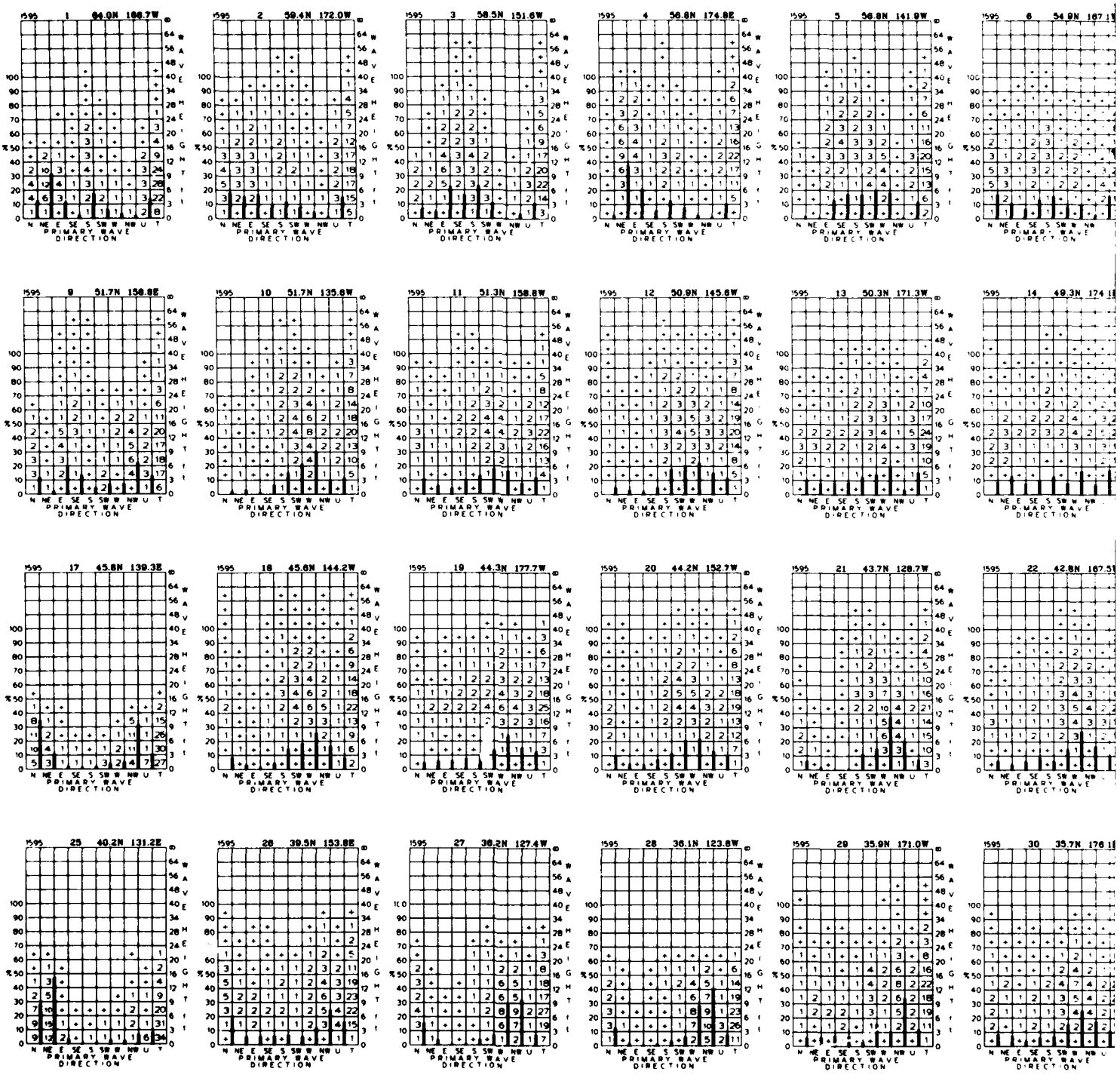
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NOVEMBER

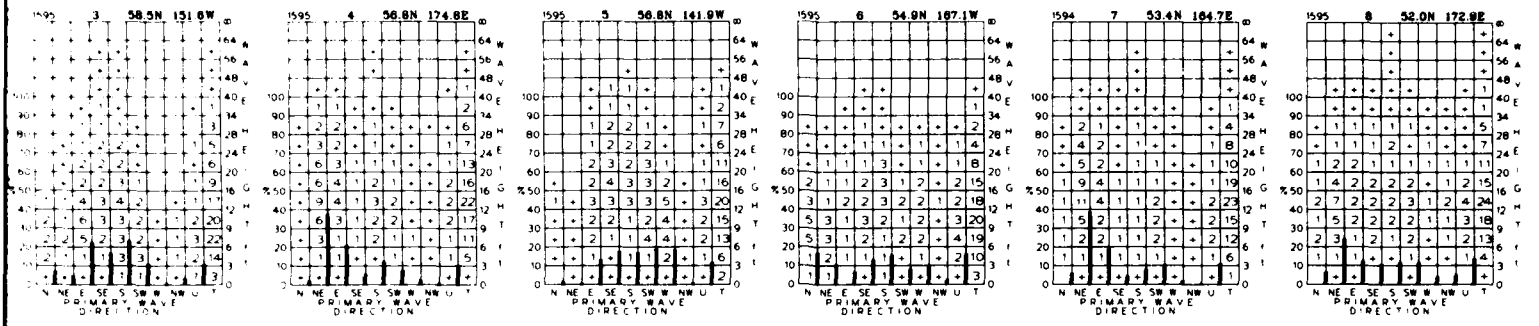


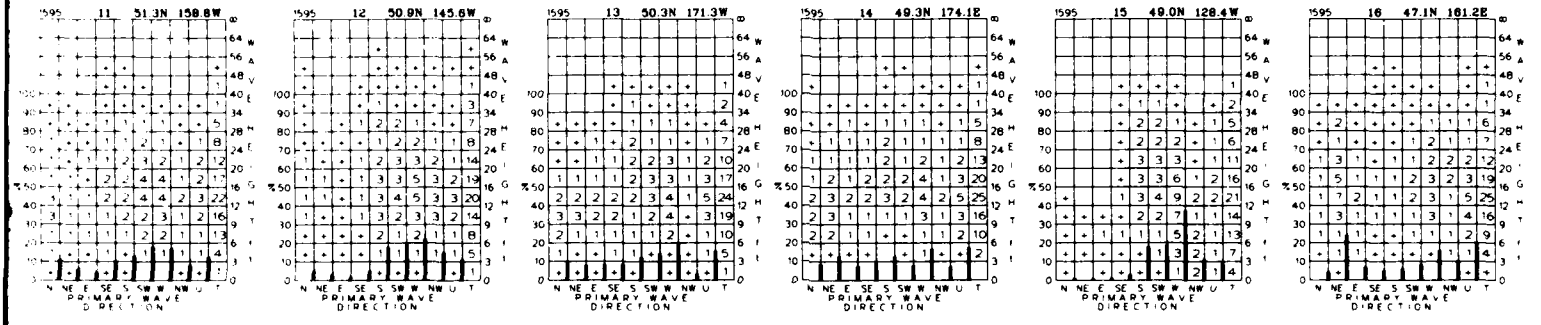
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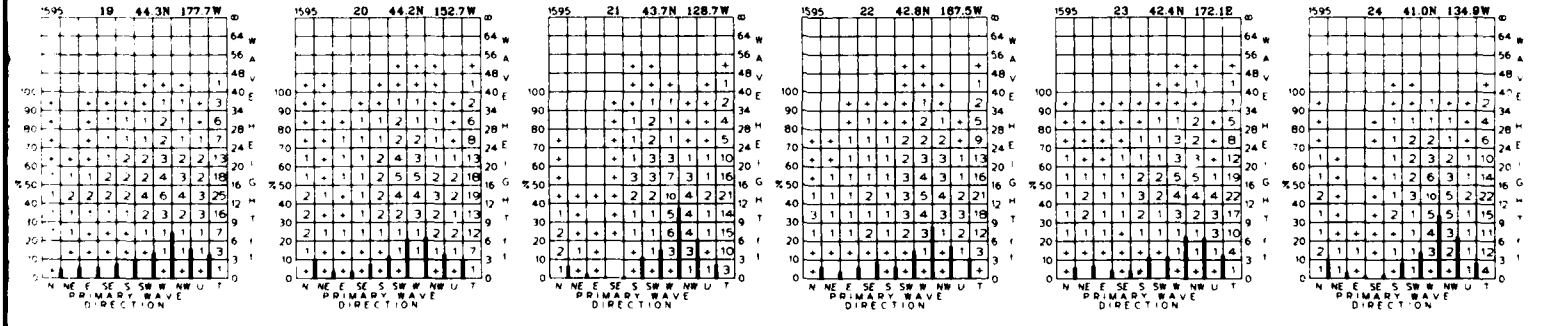
WAVE HEIGHT AND PRIMA

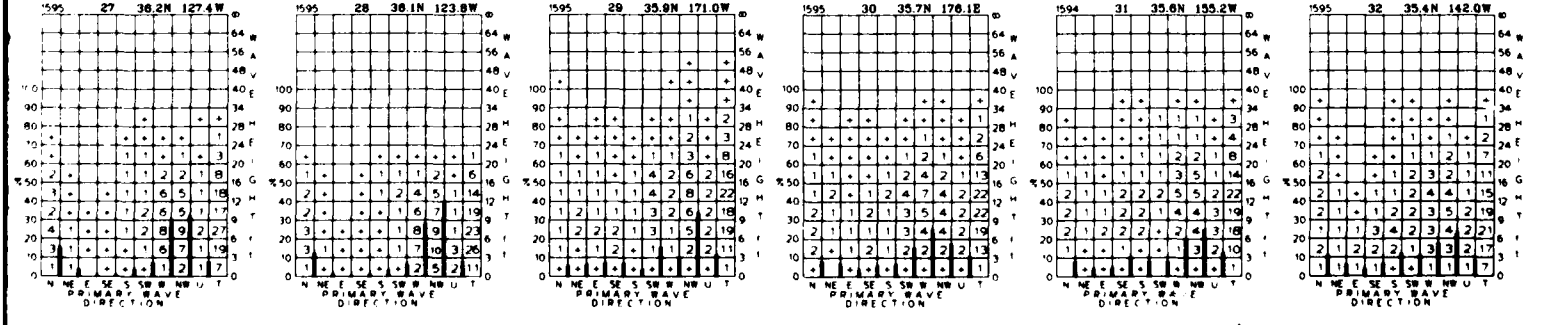


WAVE HEIGHT AND PRIMARY WAVE DIRECTION



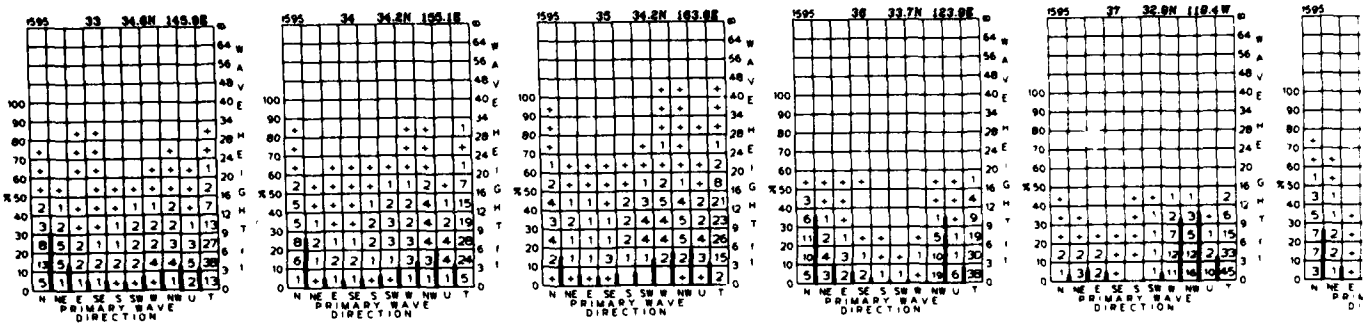


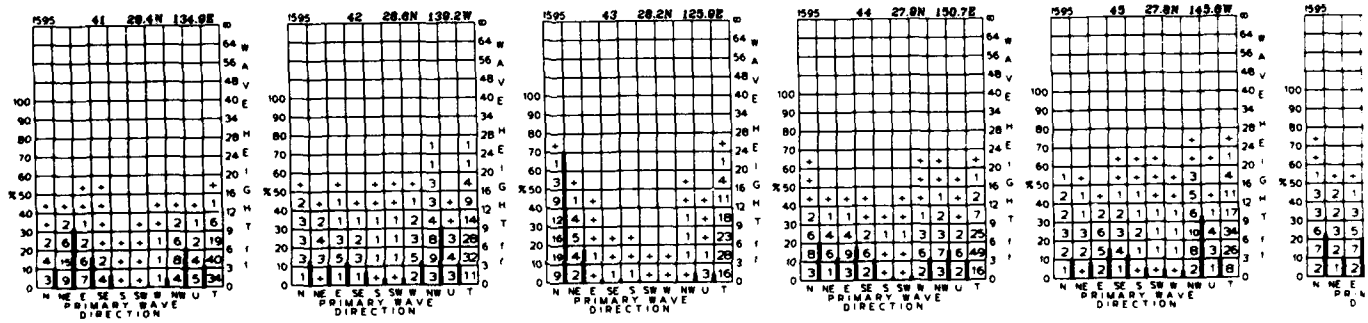


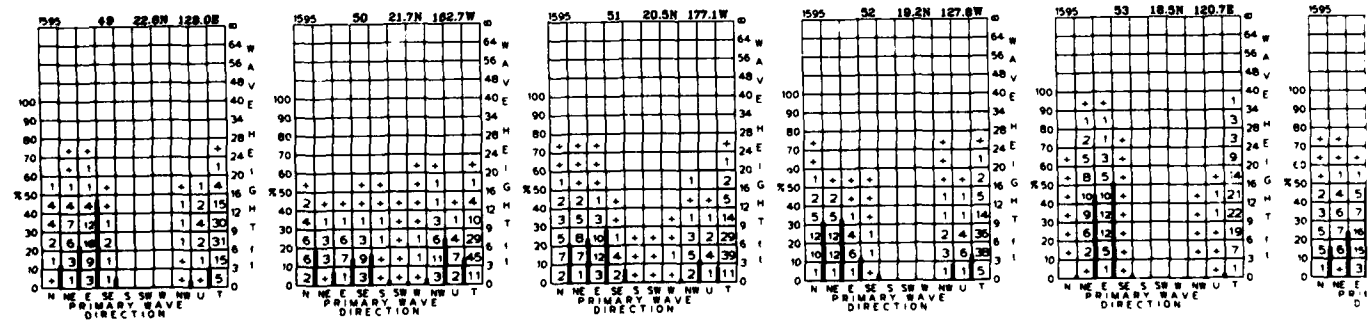


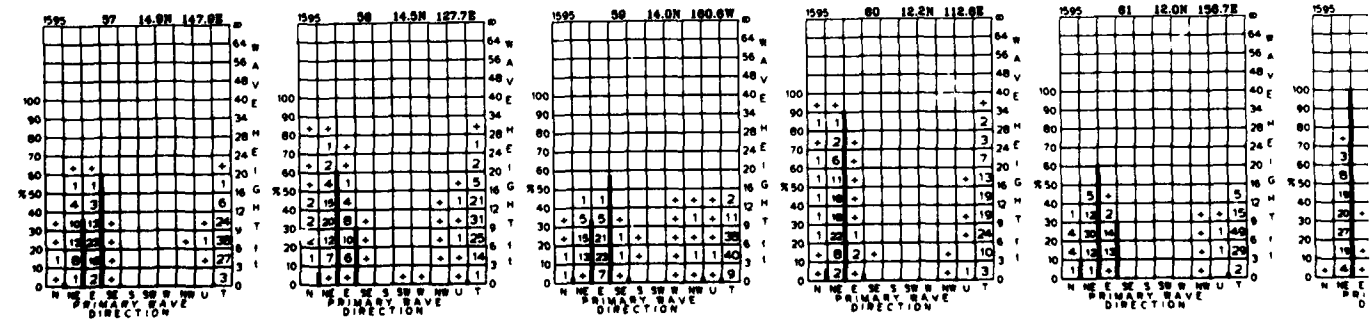
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WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



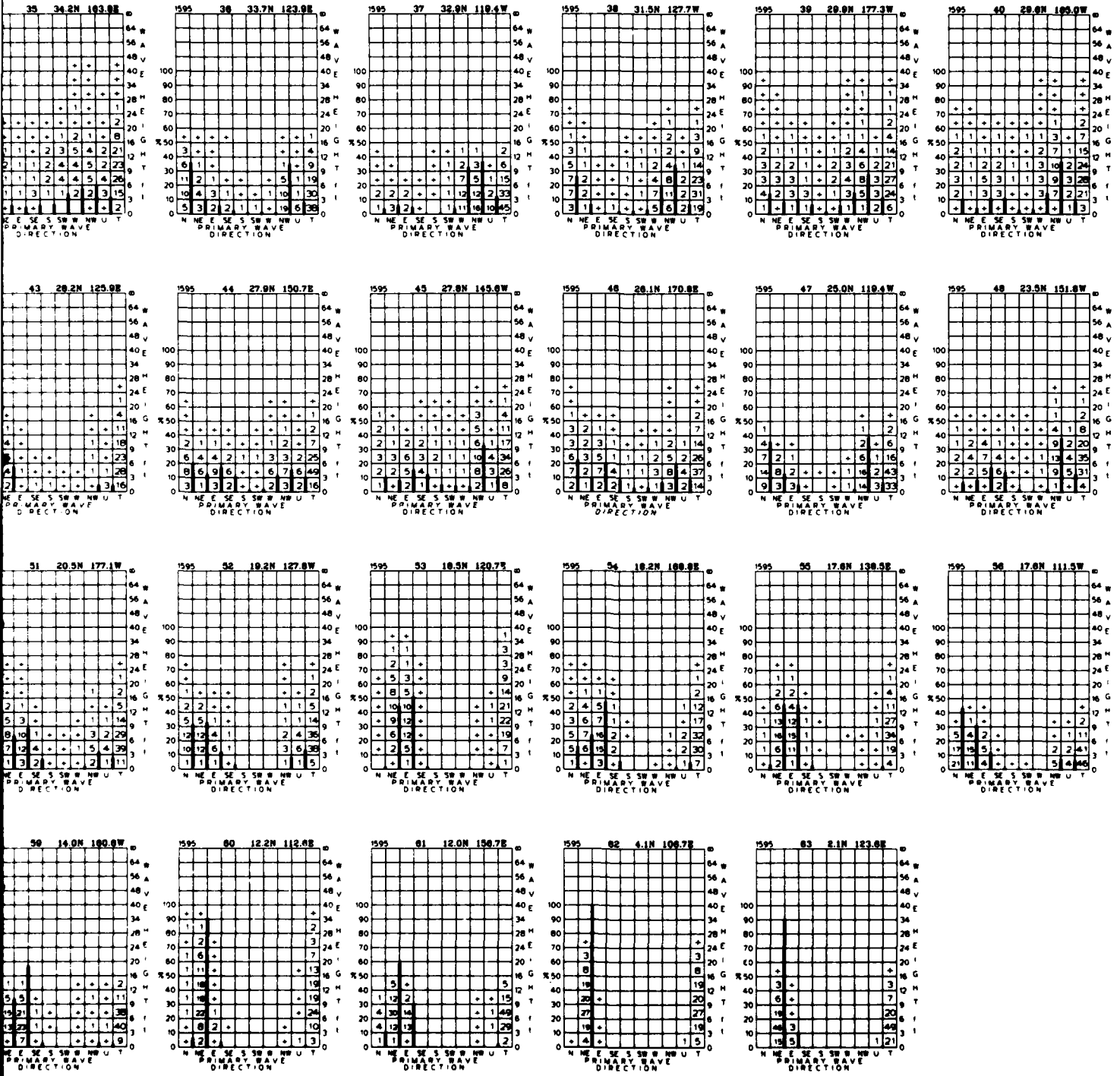




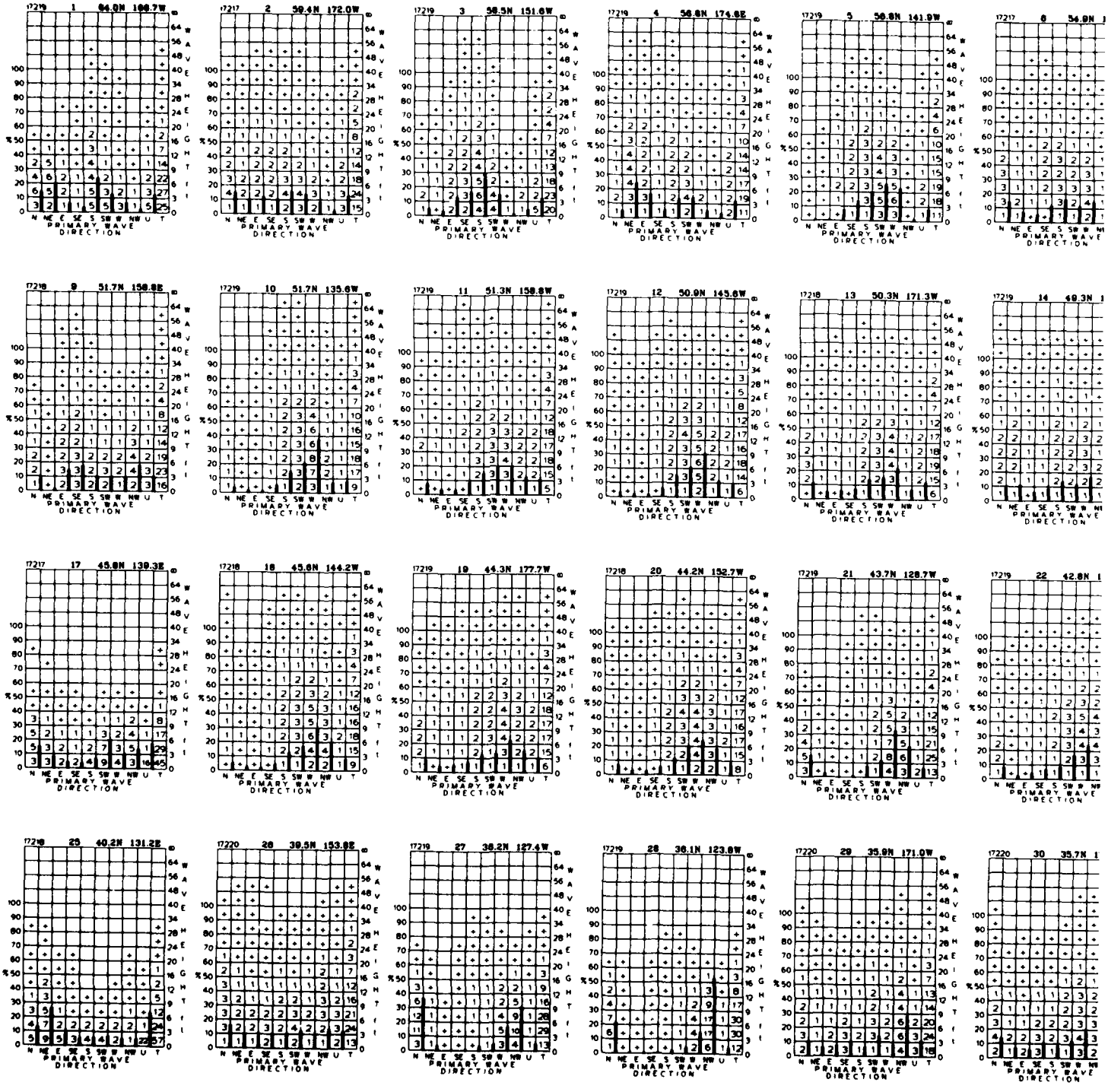


MARY WAVE DIRECTION (Cont'd)

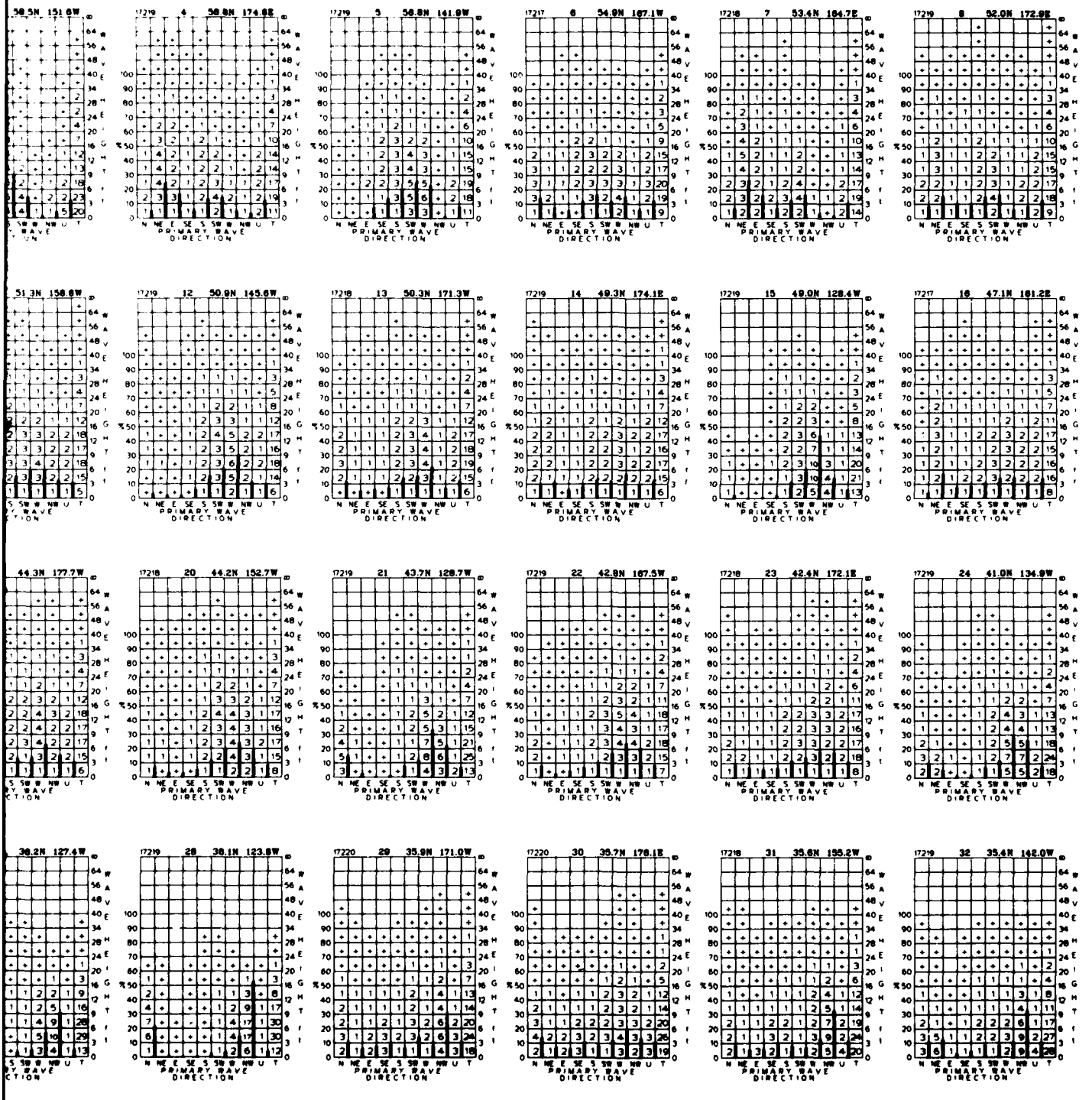
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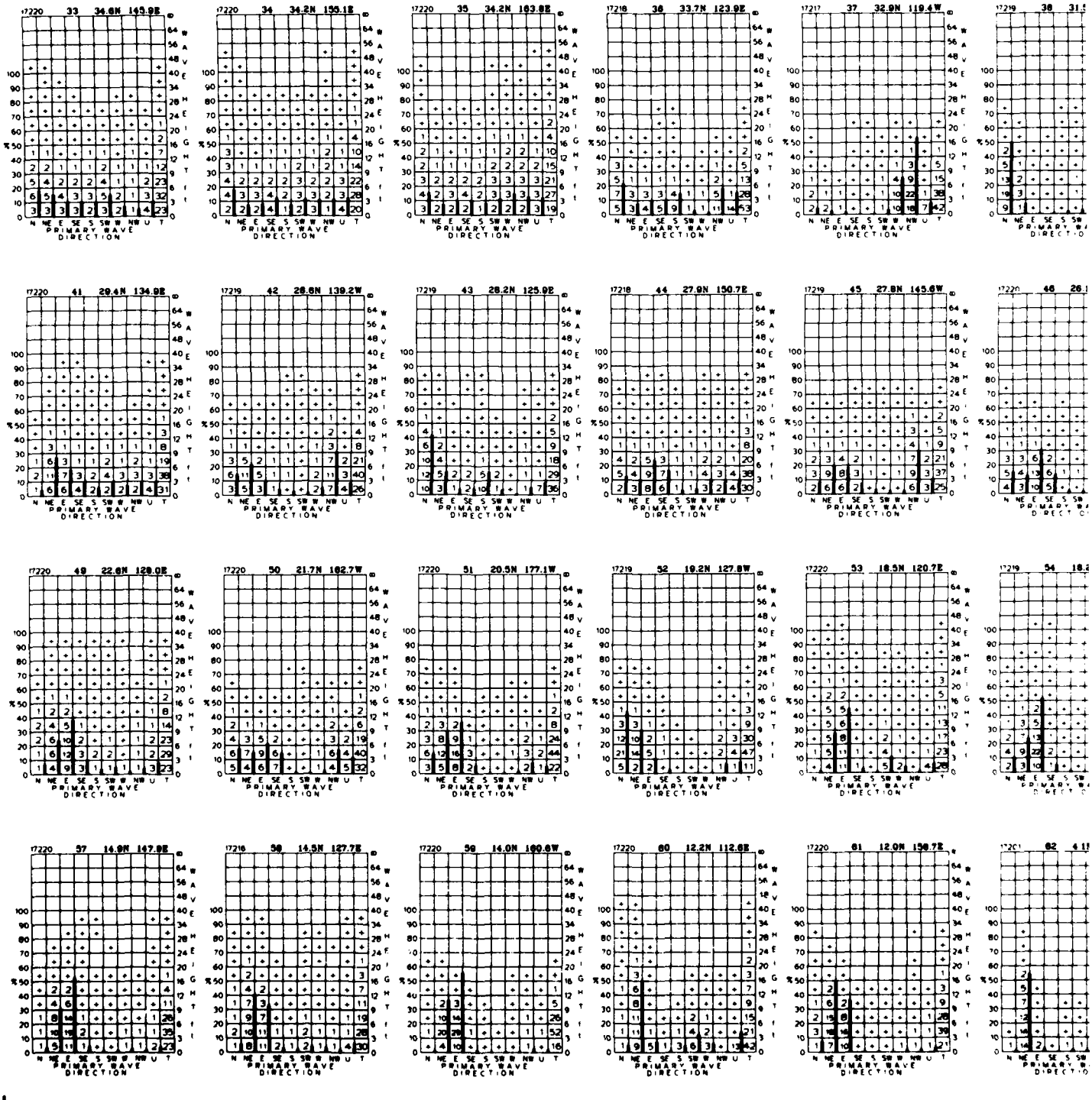
ANNUAL WAVE HEIGHT AND PRIM



WAVE HEIGHT AND PRIMARY WAVE DIRECTION

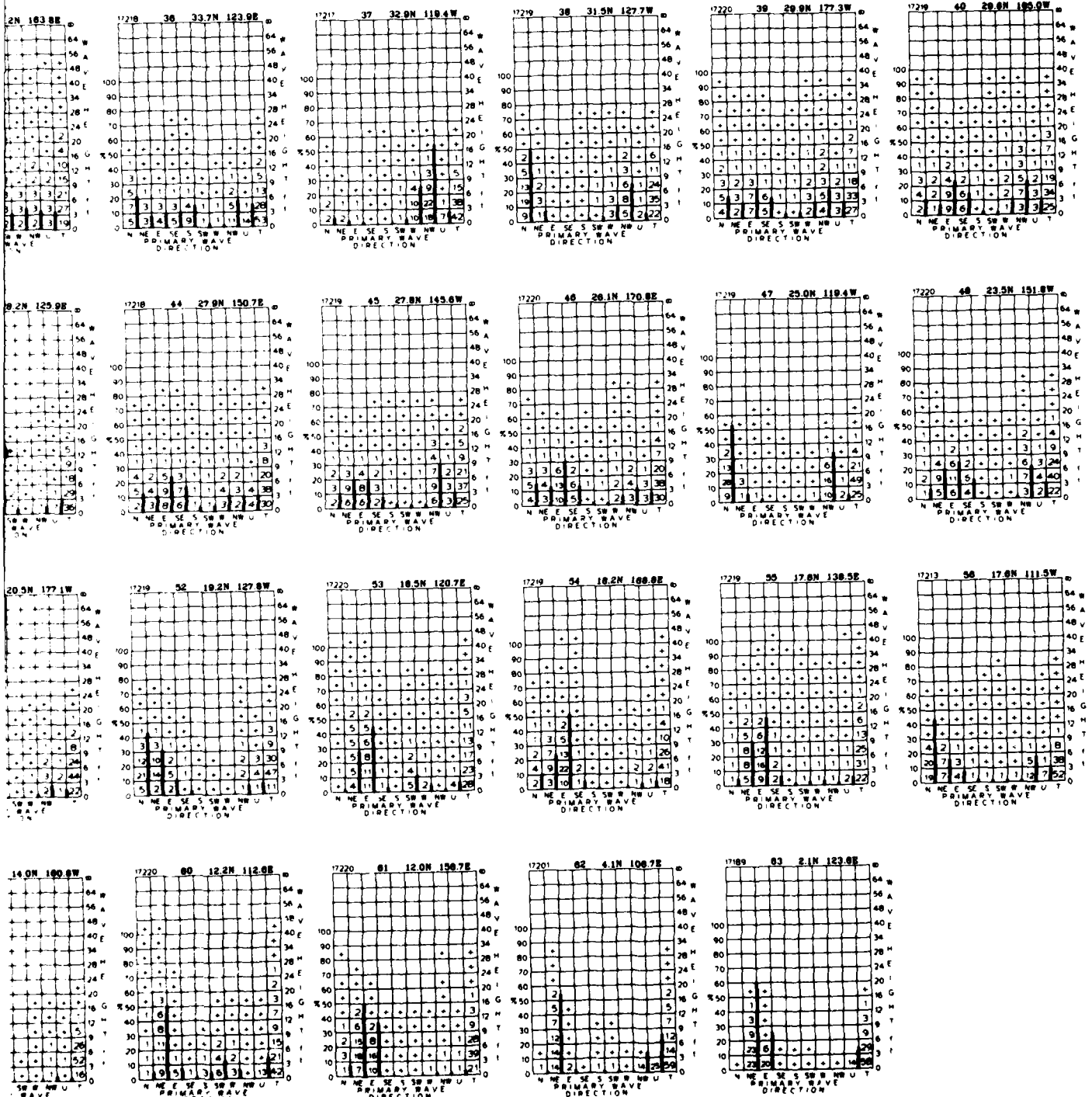


WAVE HEIGHT AND PRIMARY WAVE DIRECTION (Cont'd)



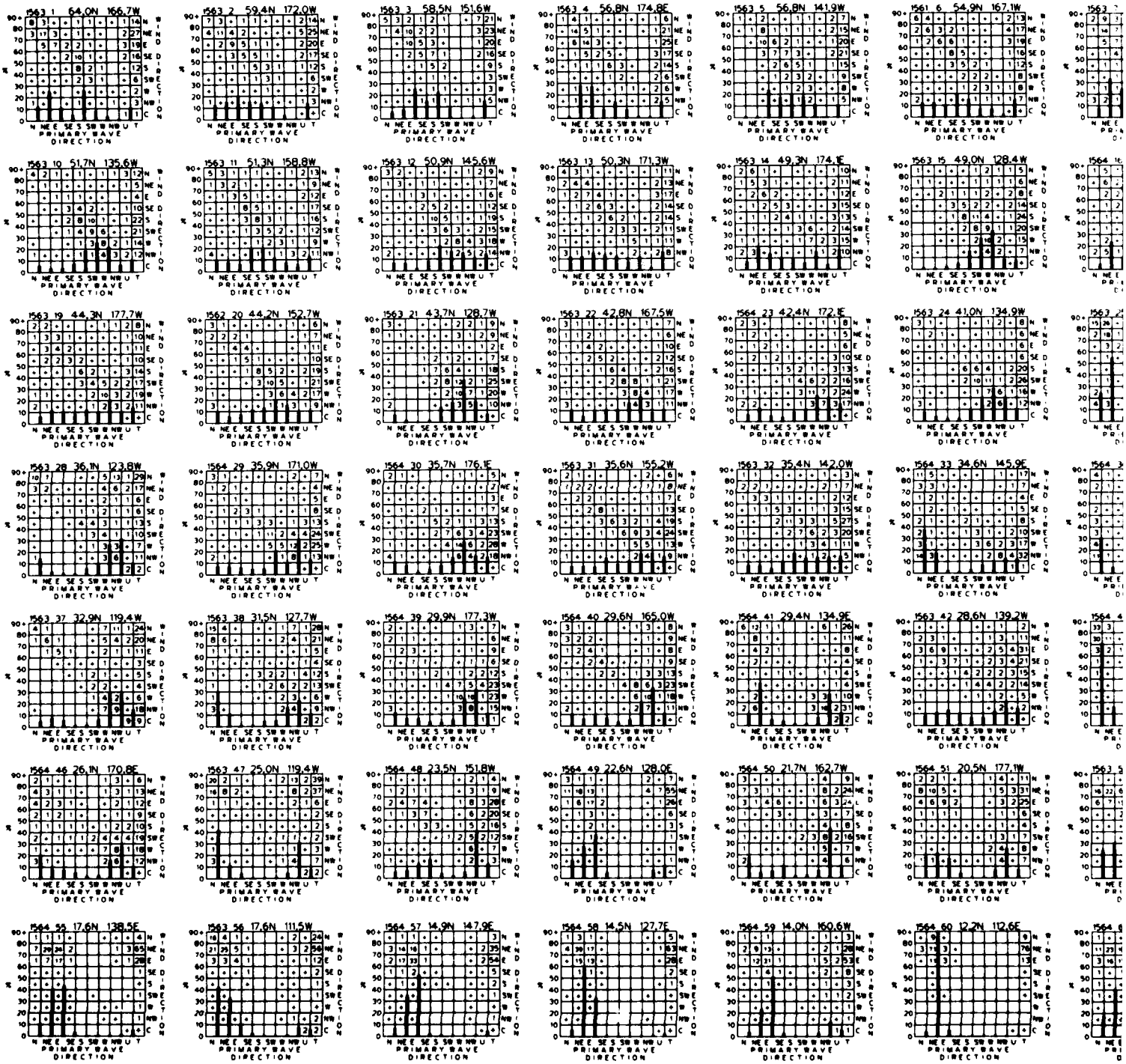
RY WAVE DIRECTION (Cont'd)

ANNUAL

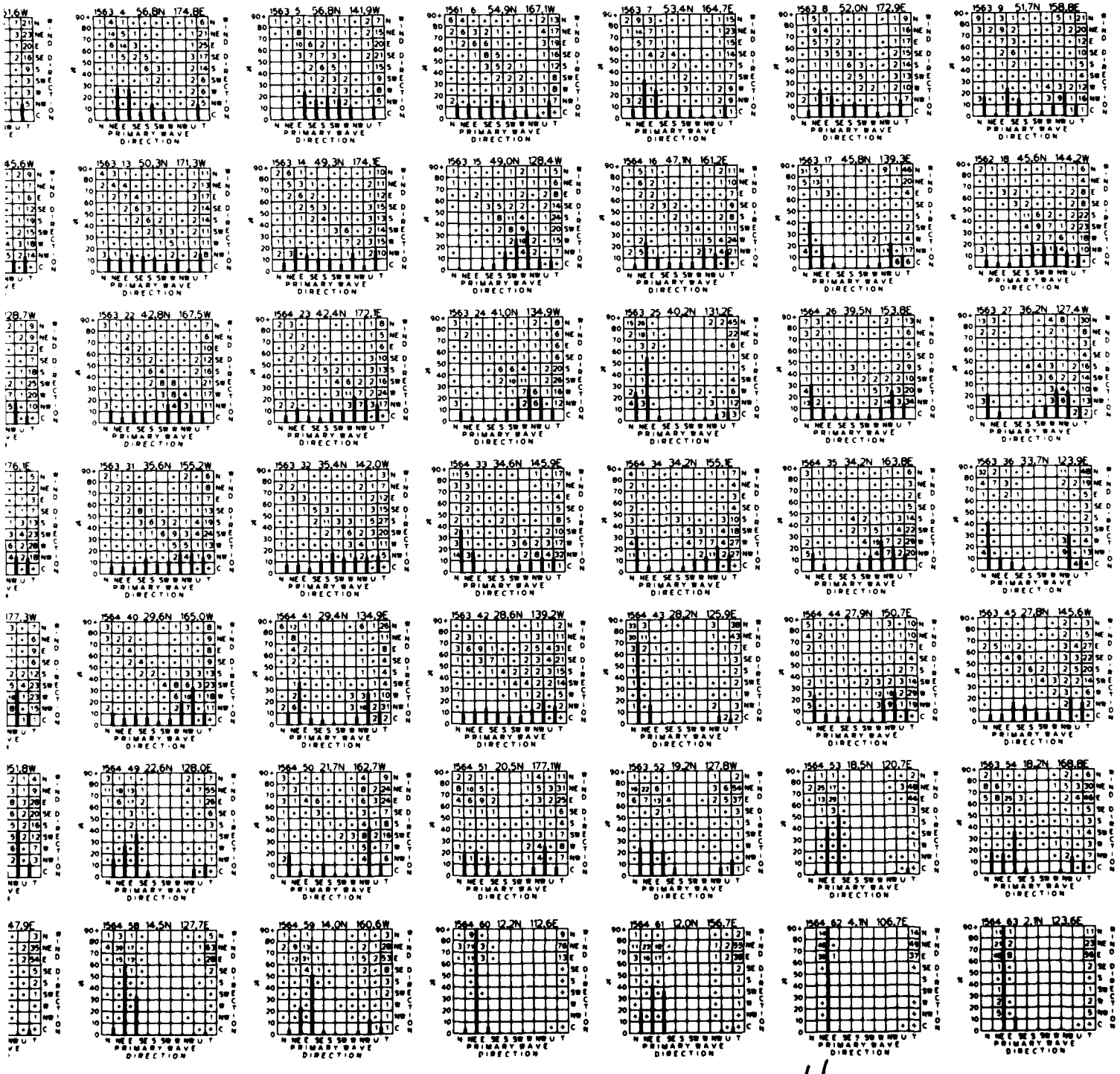


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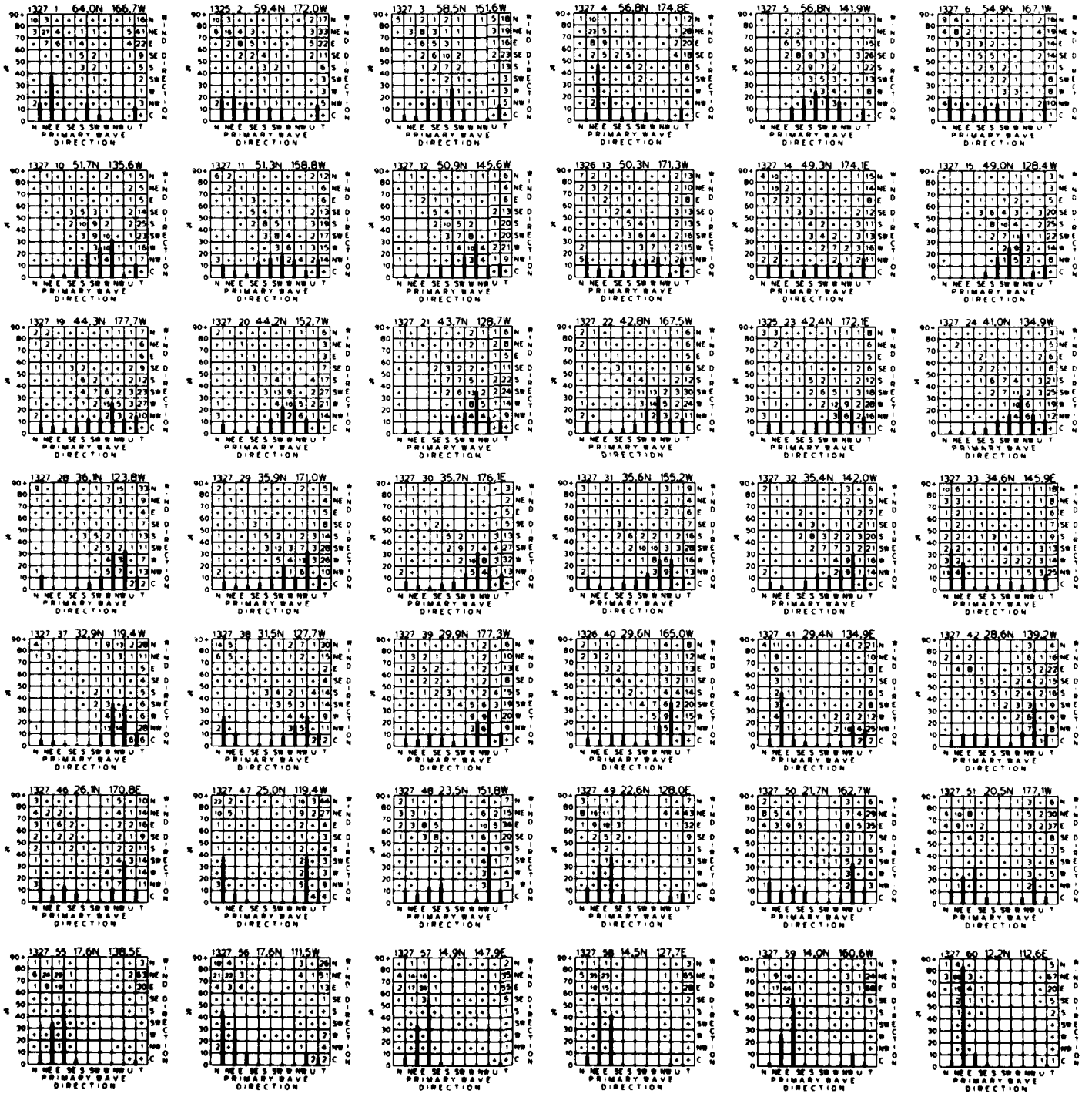
PRIMARY WAVE DIRECTION



PRIMARY WAVE DIRECTION AND WIND DIRECTION

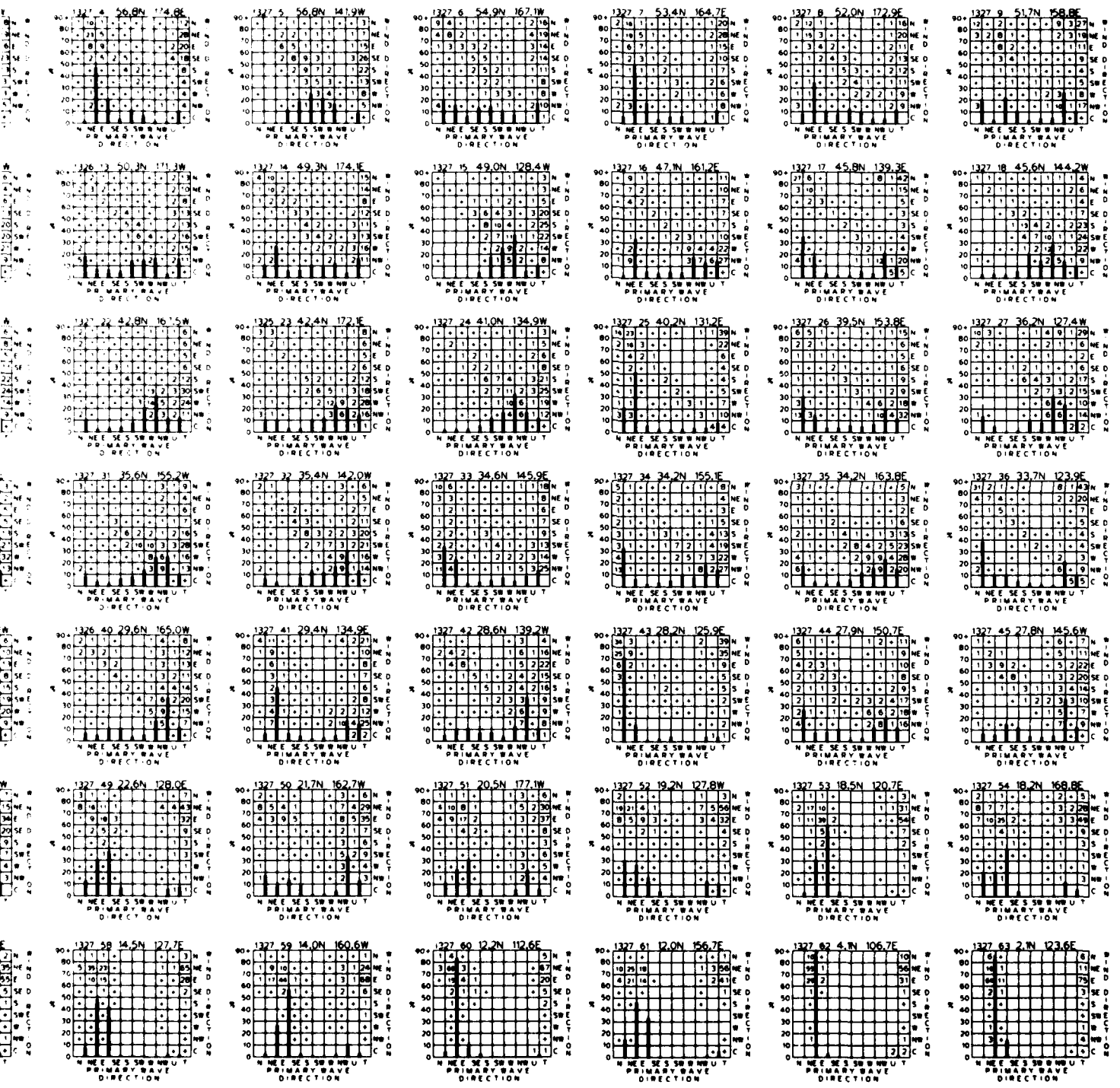


PRIMARY WAVE DIRECTION AND WIND DIRECTION



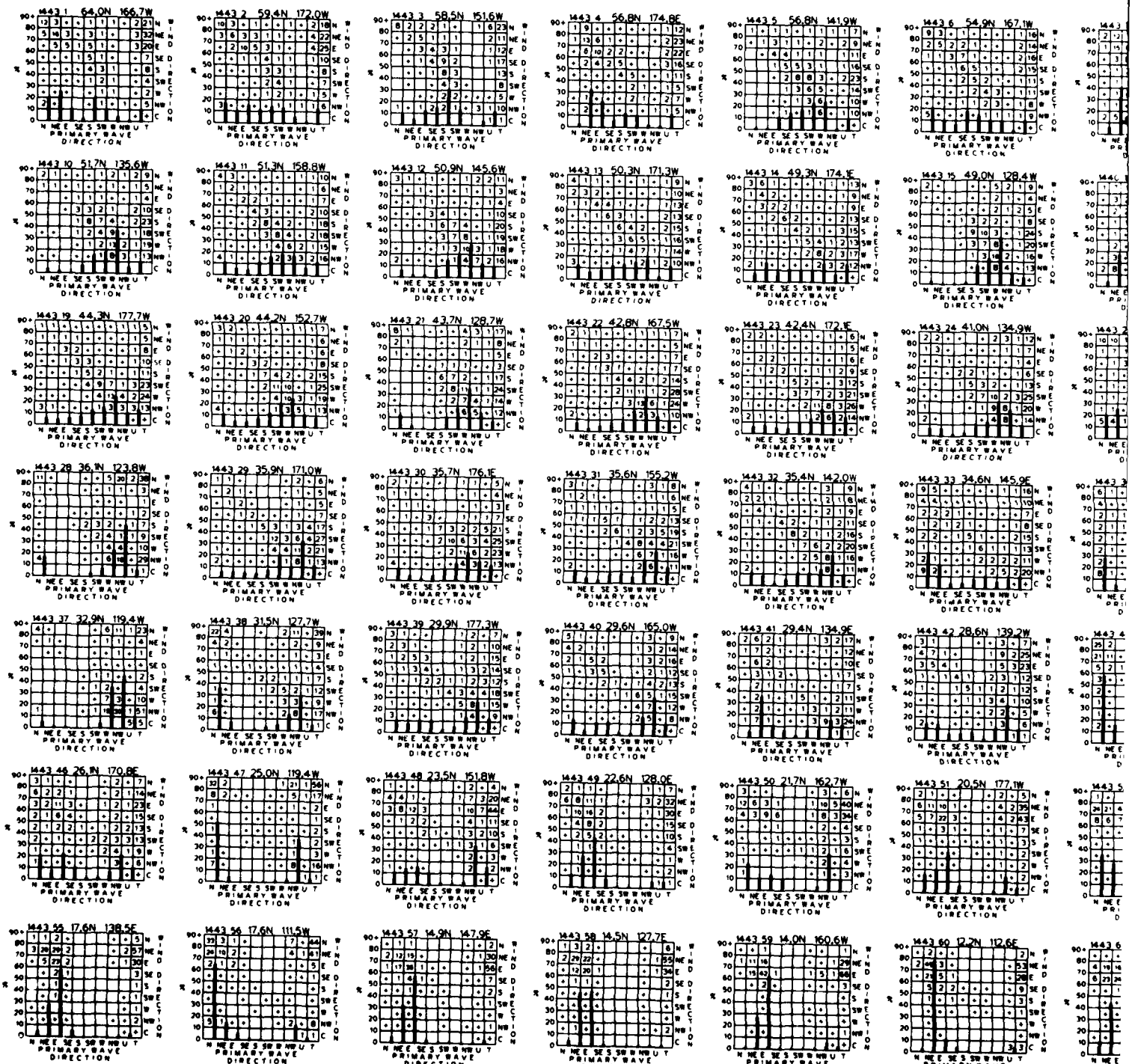
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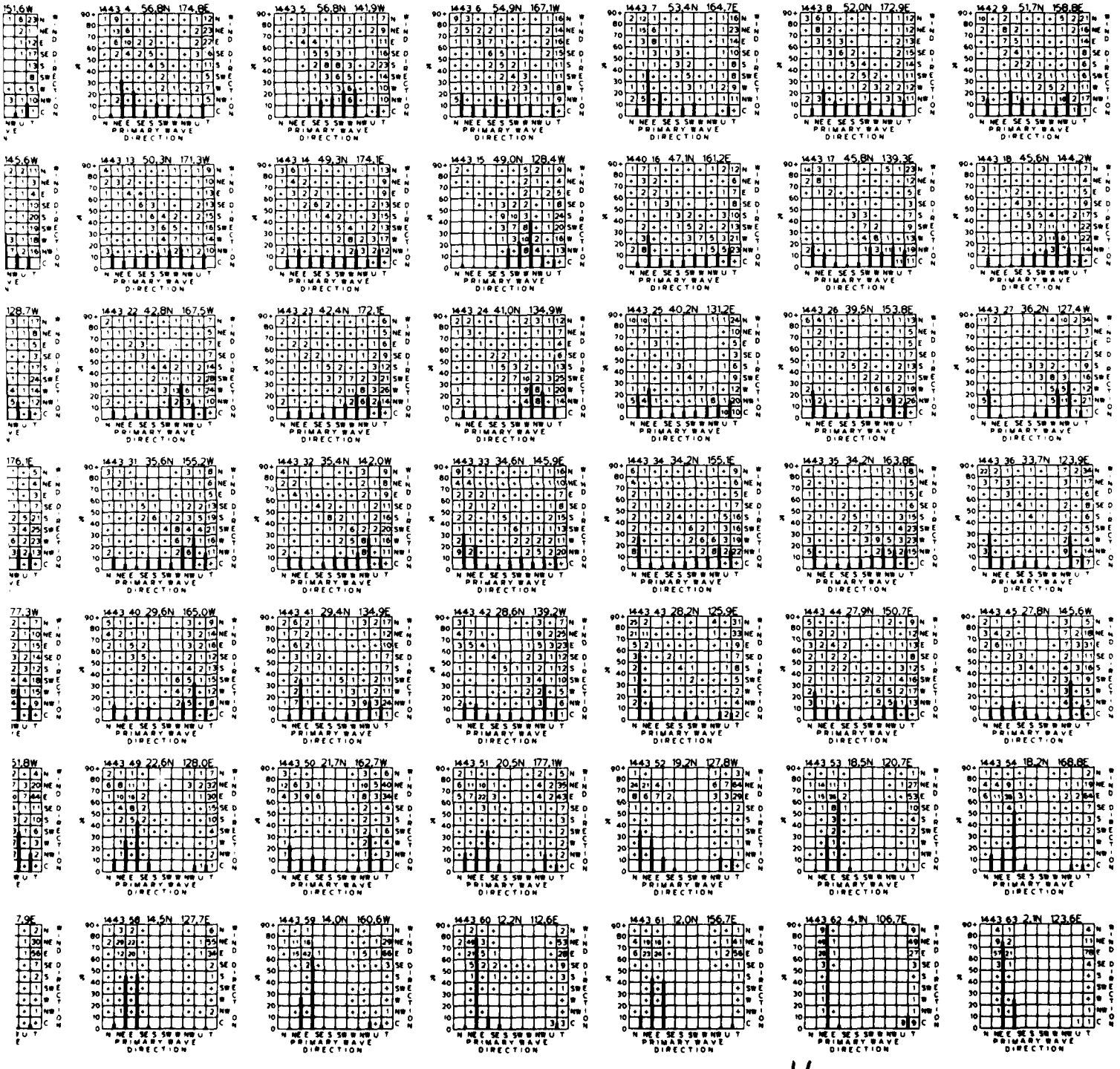


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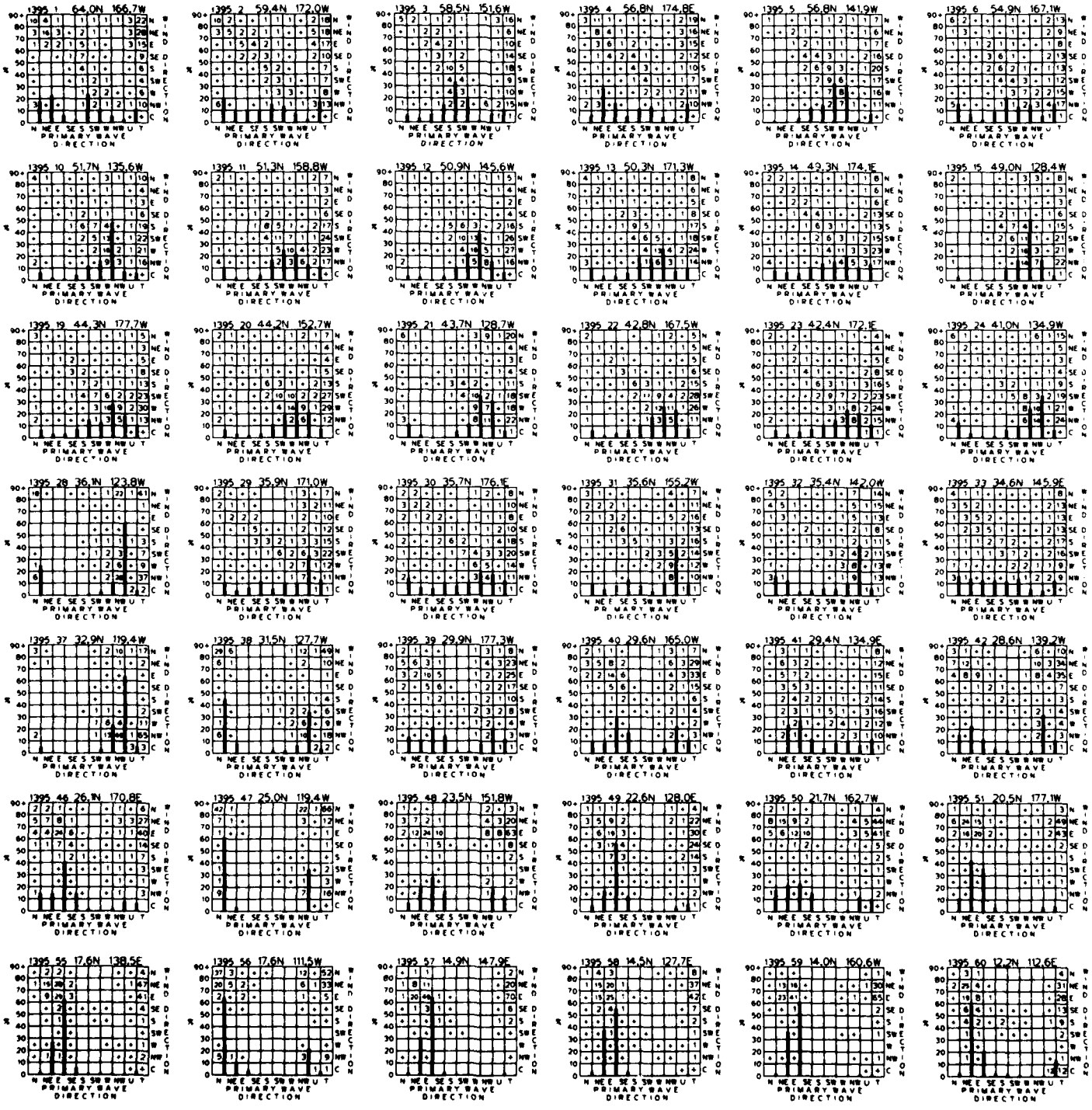
PRIMARY WAVE DIRECTIO



PRIMARY WAVE DIRECTION AND WIND DIRECTION

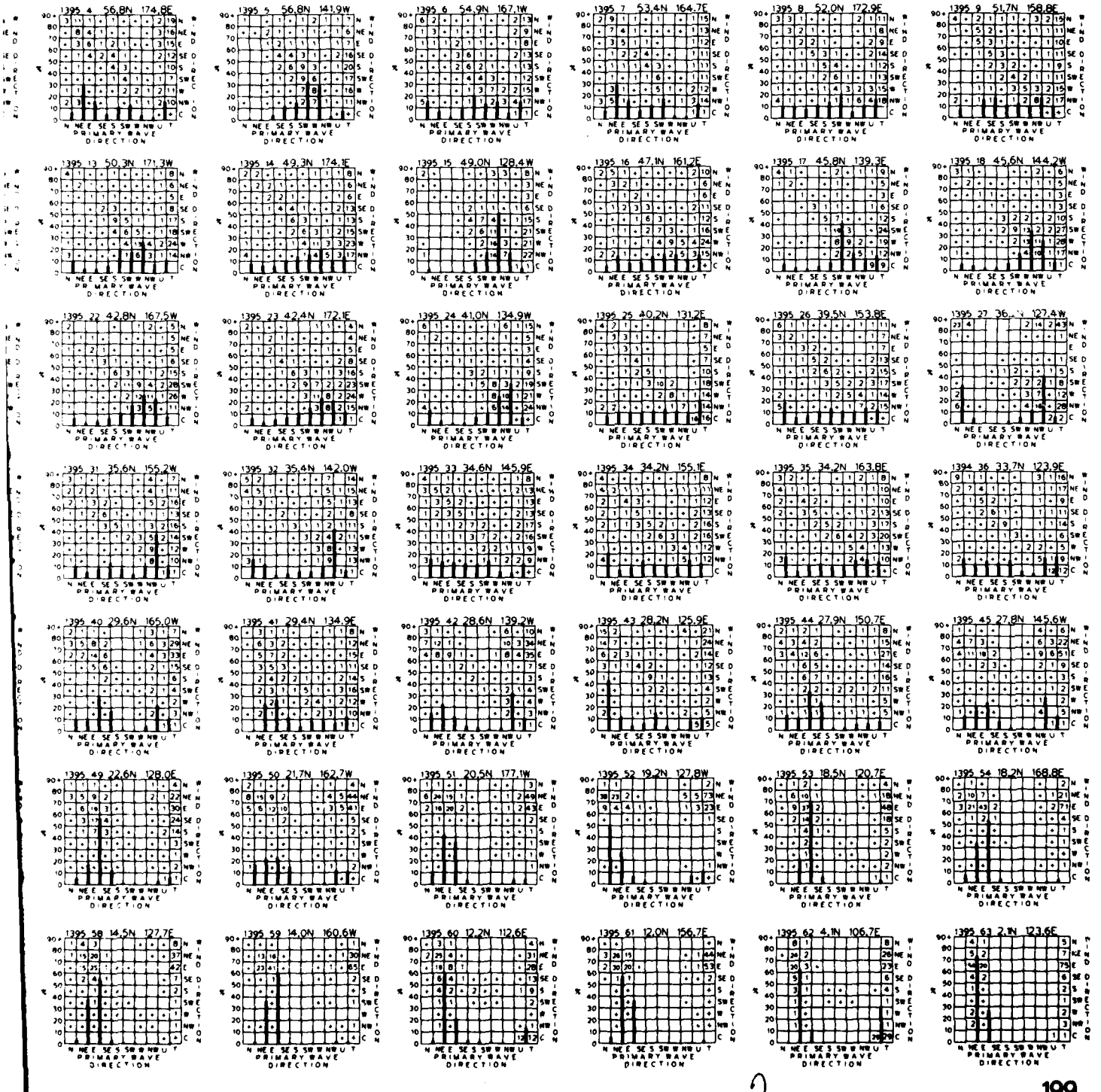


PRIMARY WAVE DIRECTION AND WIND DIRECTION



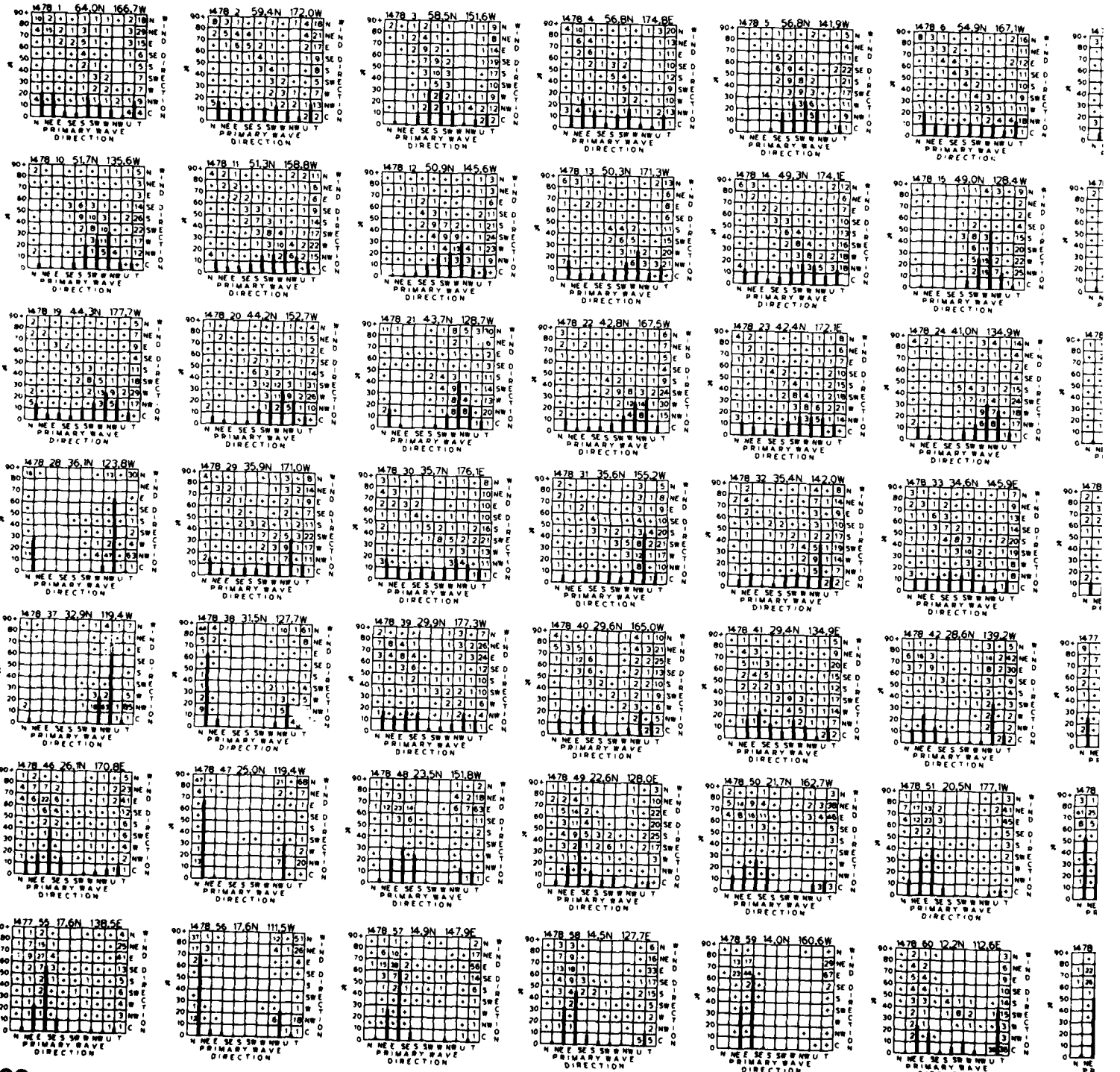
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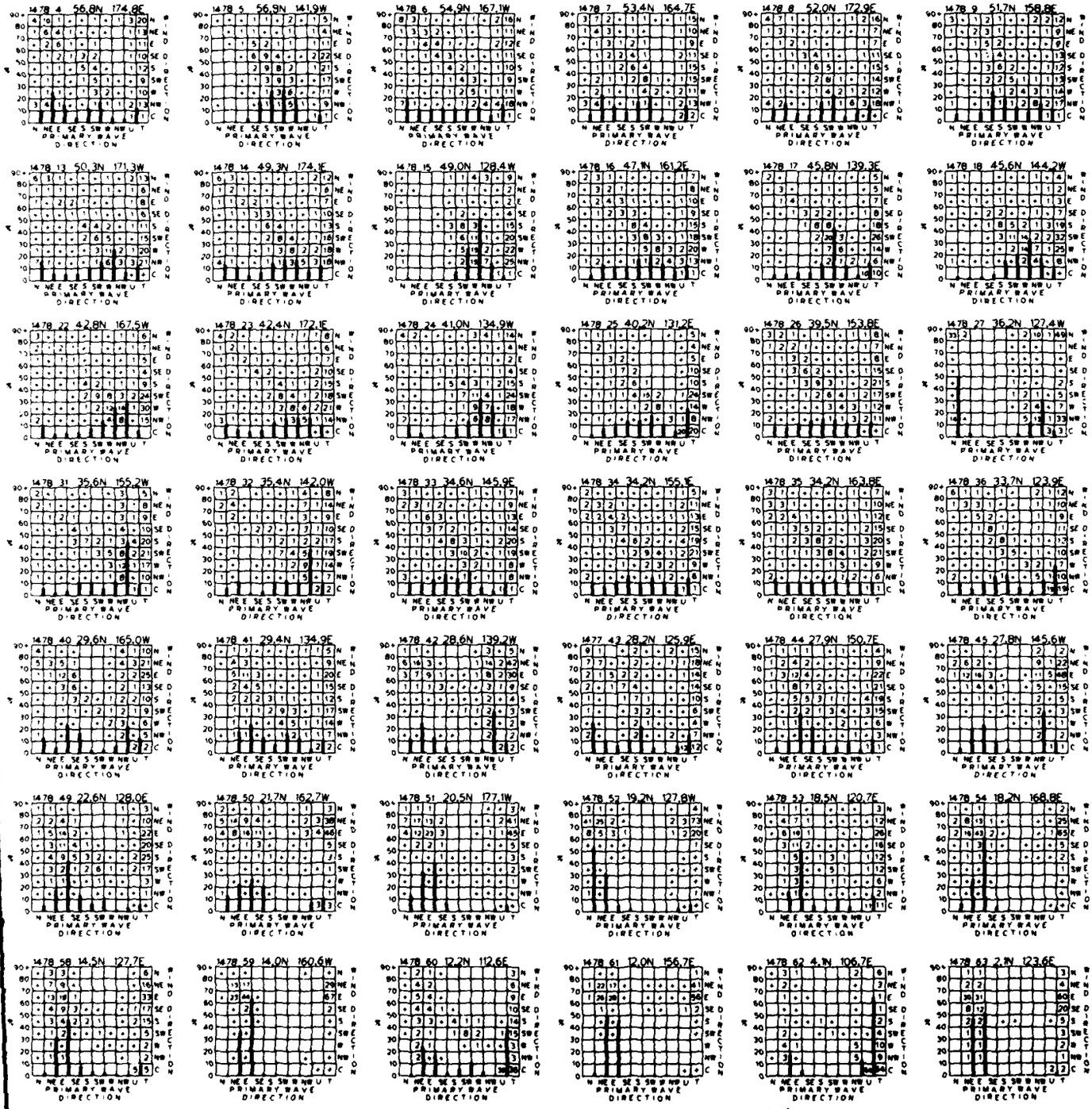


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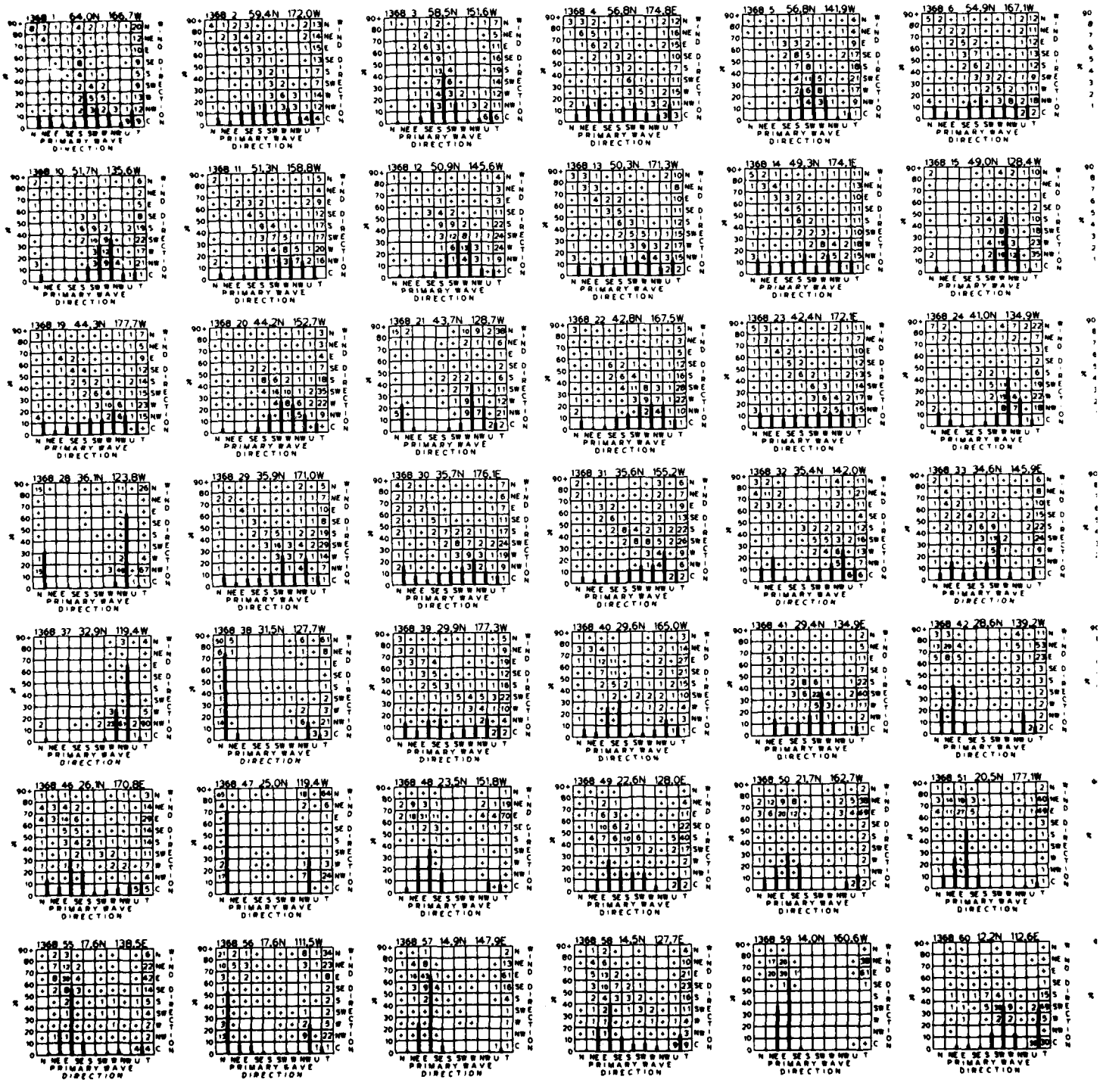
PRIMARY WAVE DIRECTIC



PRIMARY WAVE DIRECTION AND WIND DIRECTION

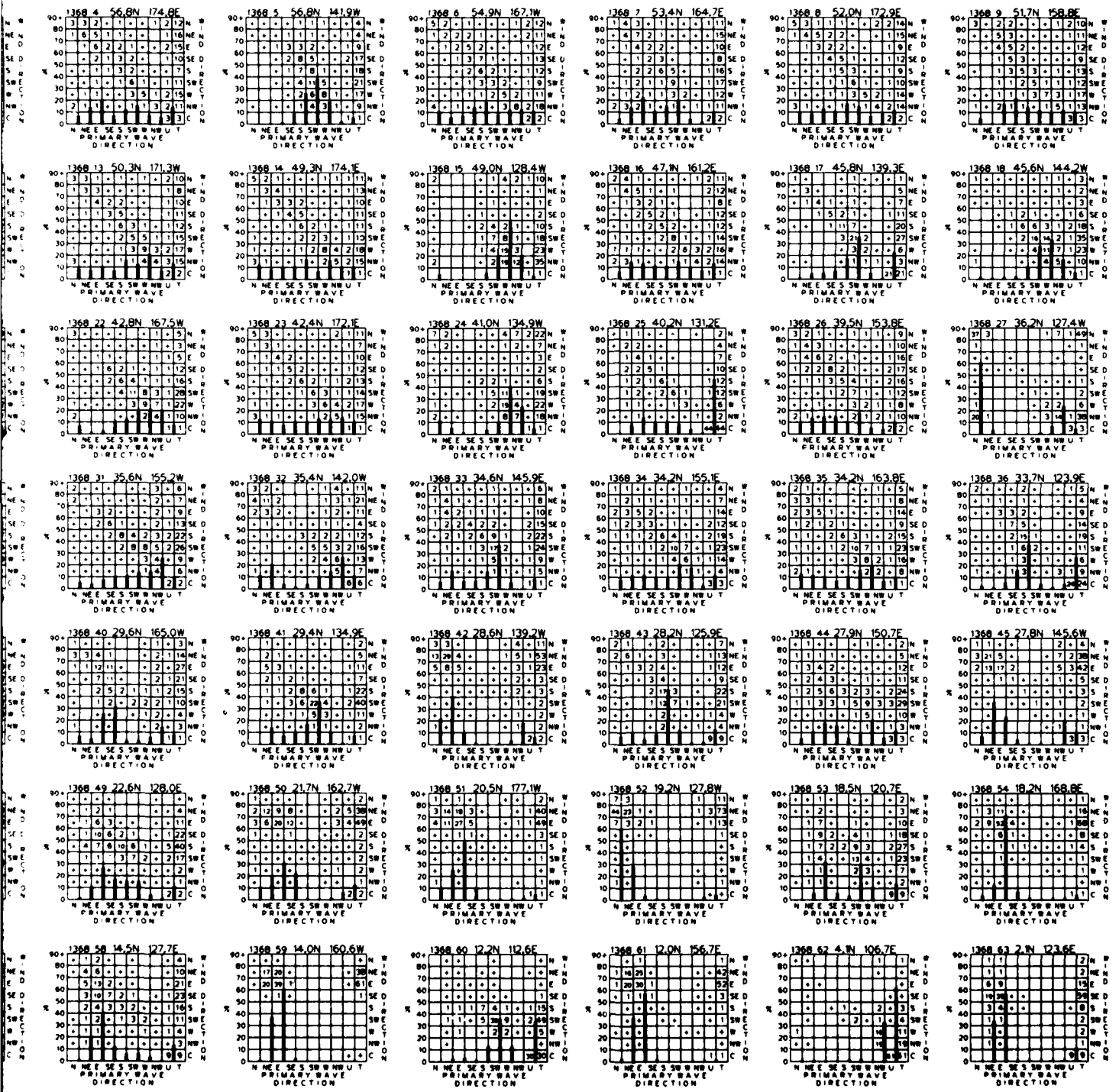


PRIMARY WAVE DIRECTION AND WIND DIRECTION



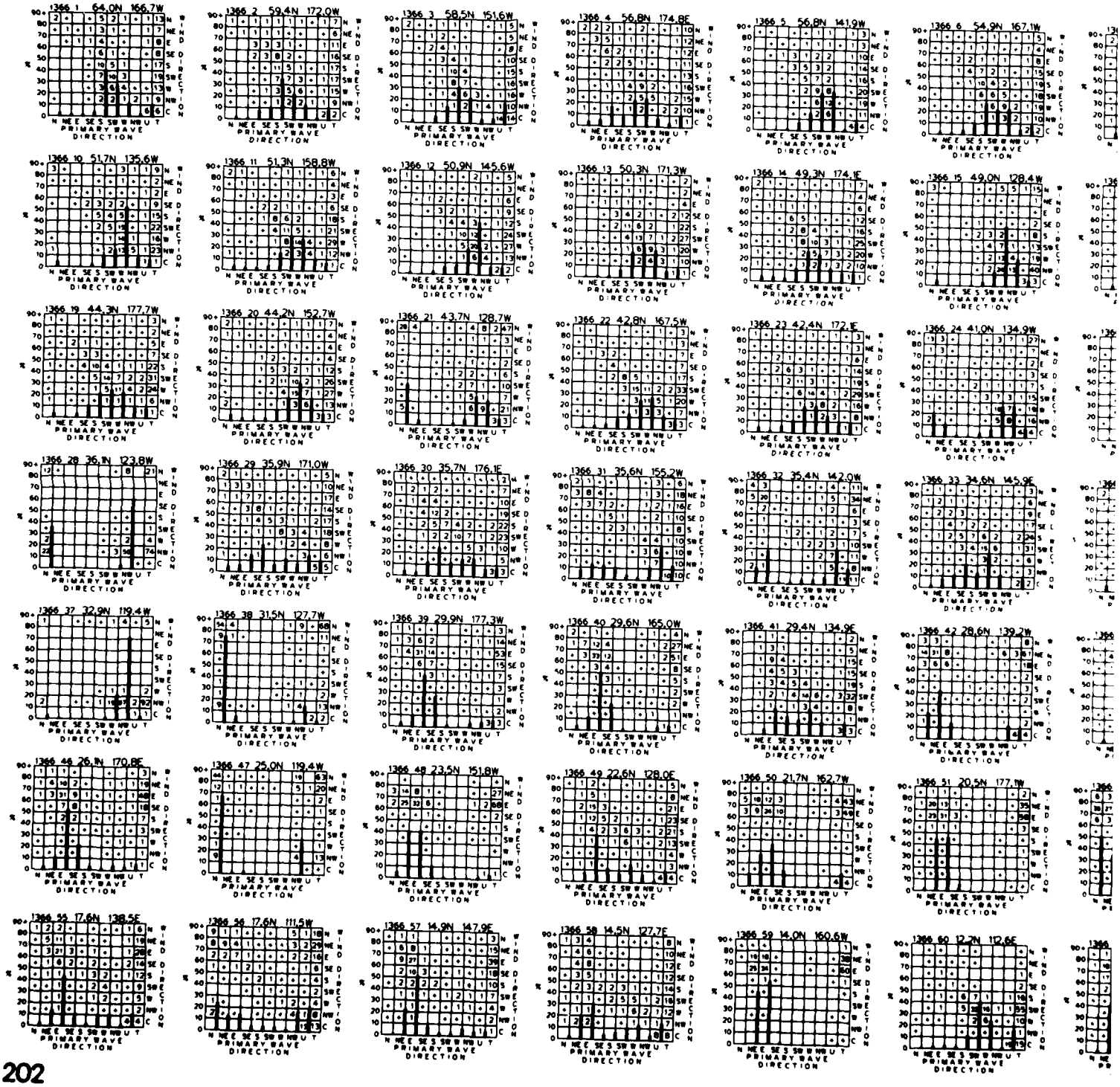
N AND WIND DIRECTION

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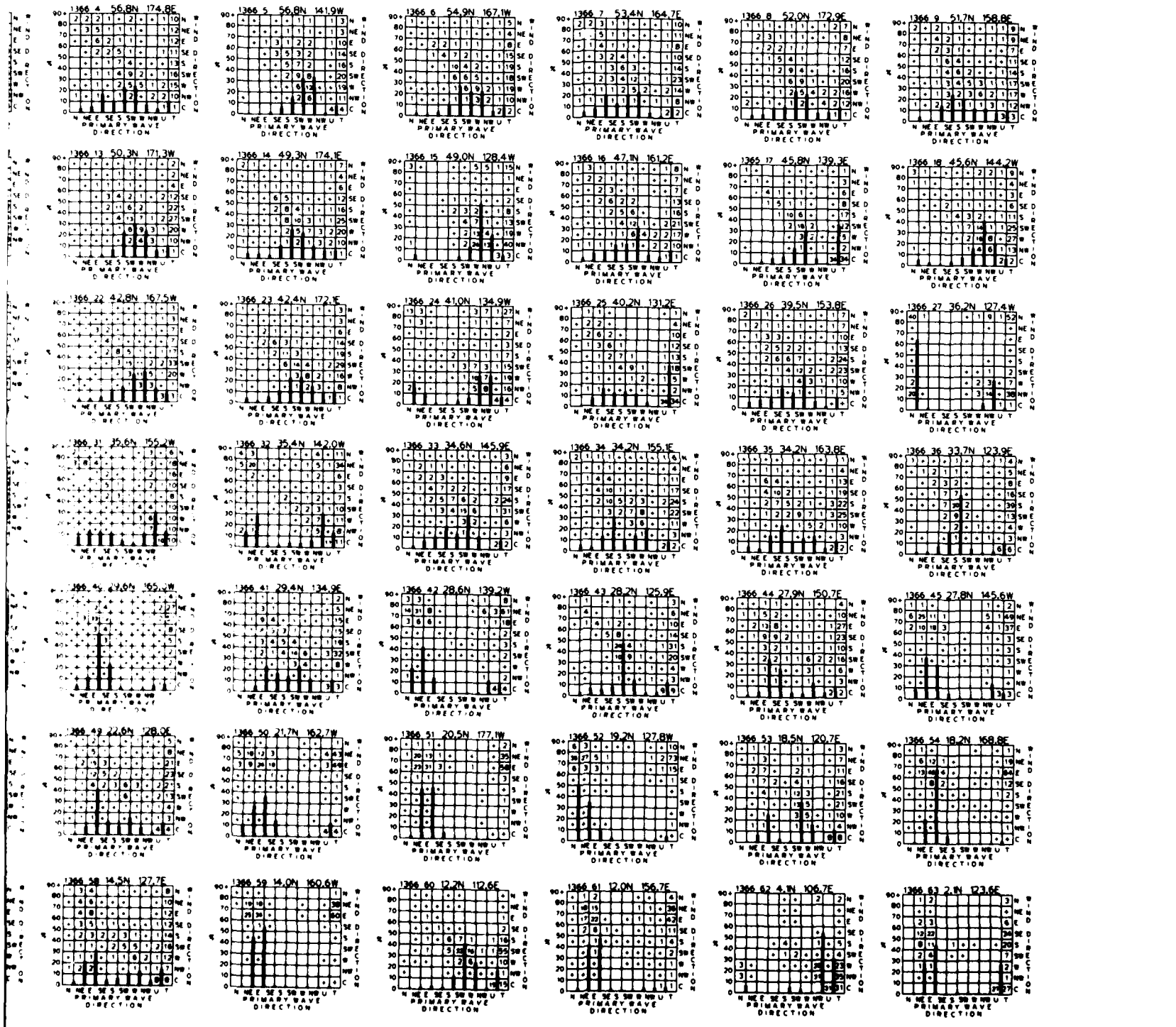


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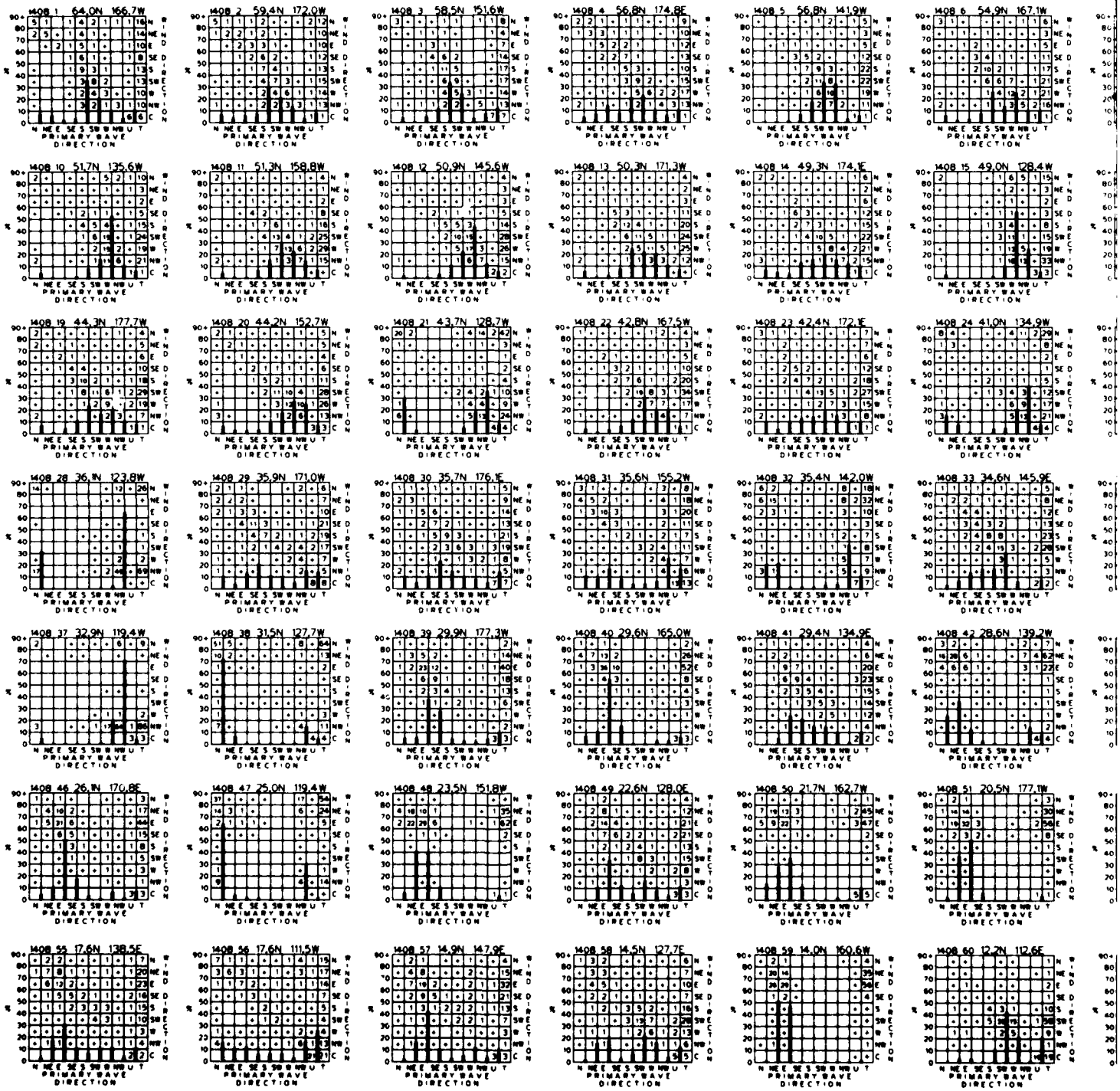
PRIMARY WAVE DIRECTIO



PRIMARY WAVE DIRECTION AND WIND DIRECTION

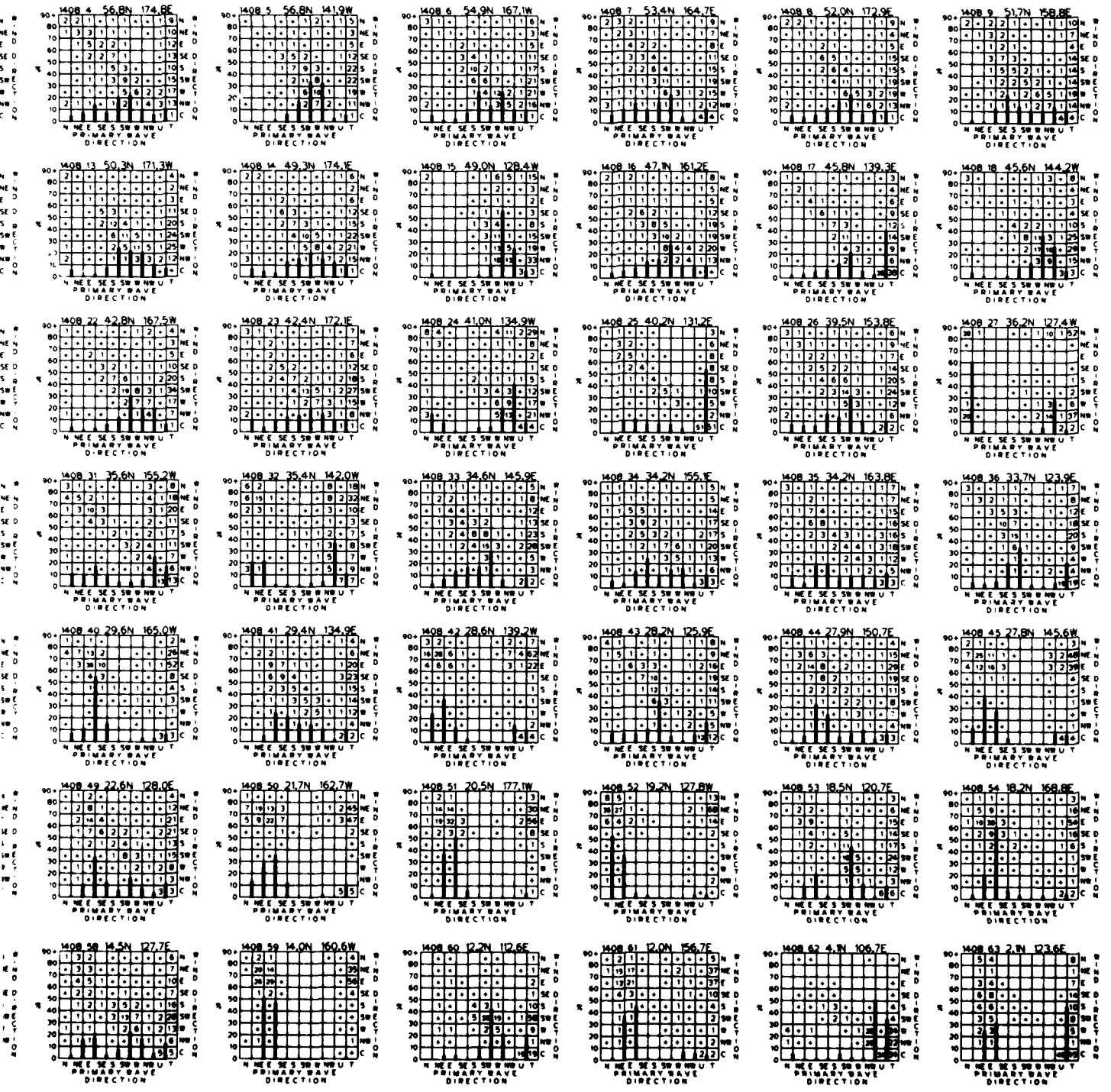


PRIMARY WAVE DIRECTION AND WIND DIRECTION



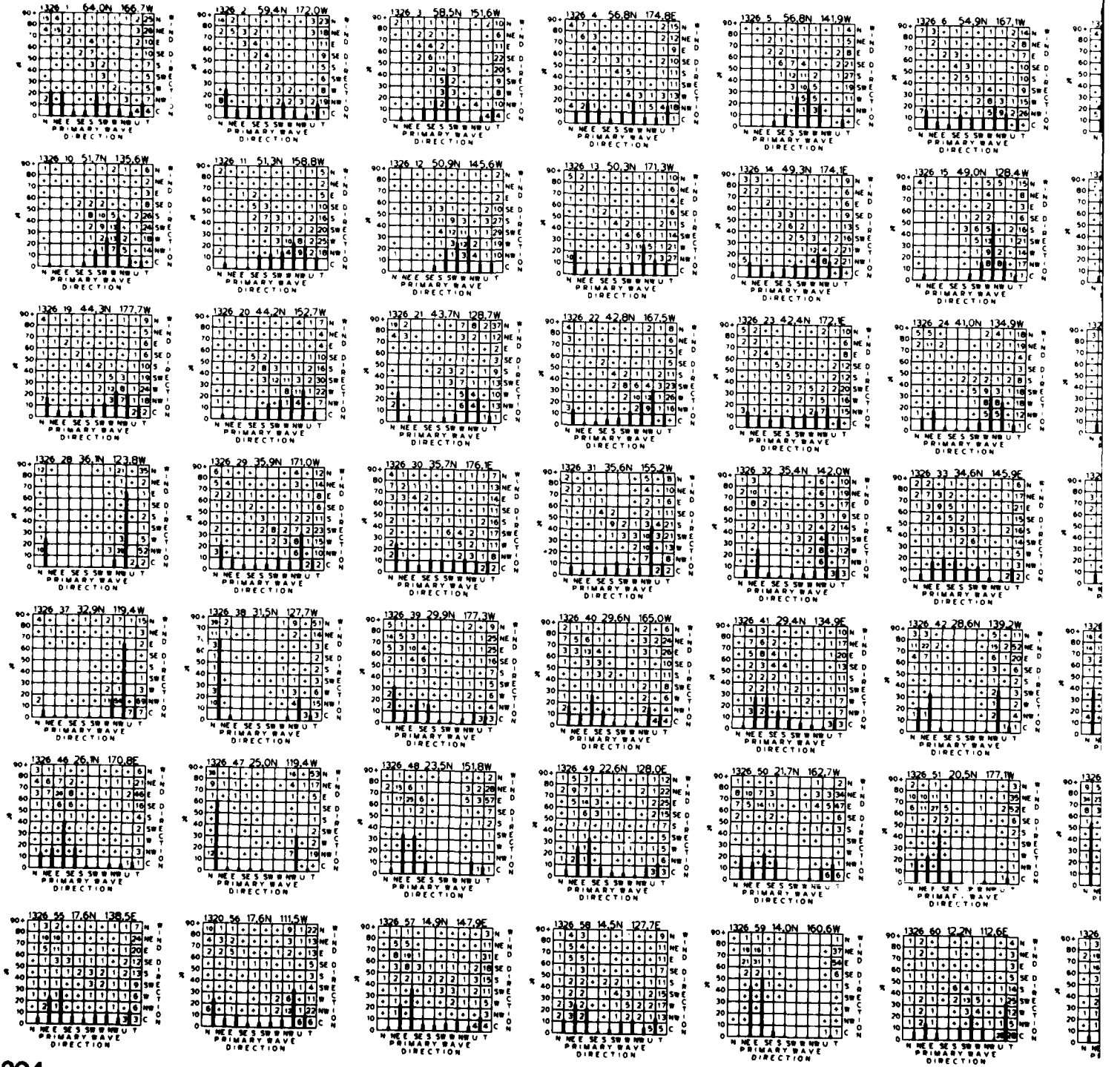
N AND WIND DIRECTION

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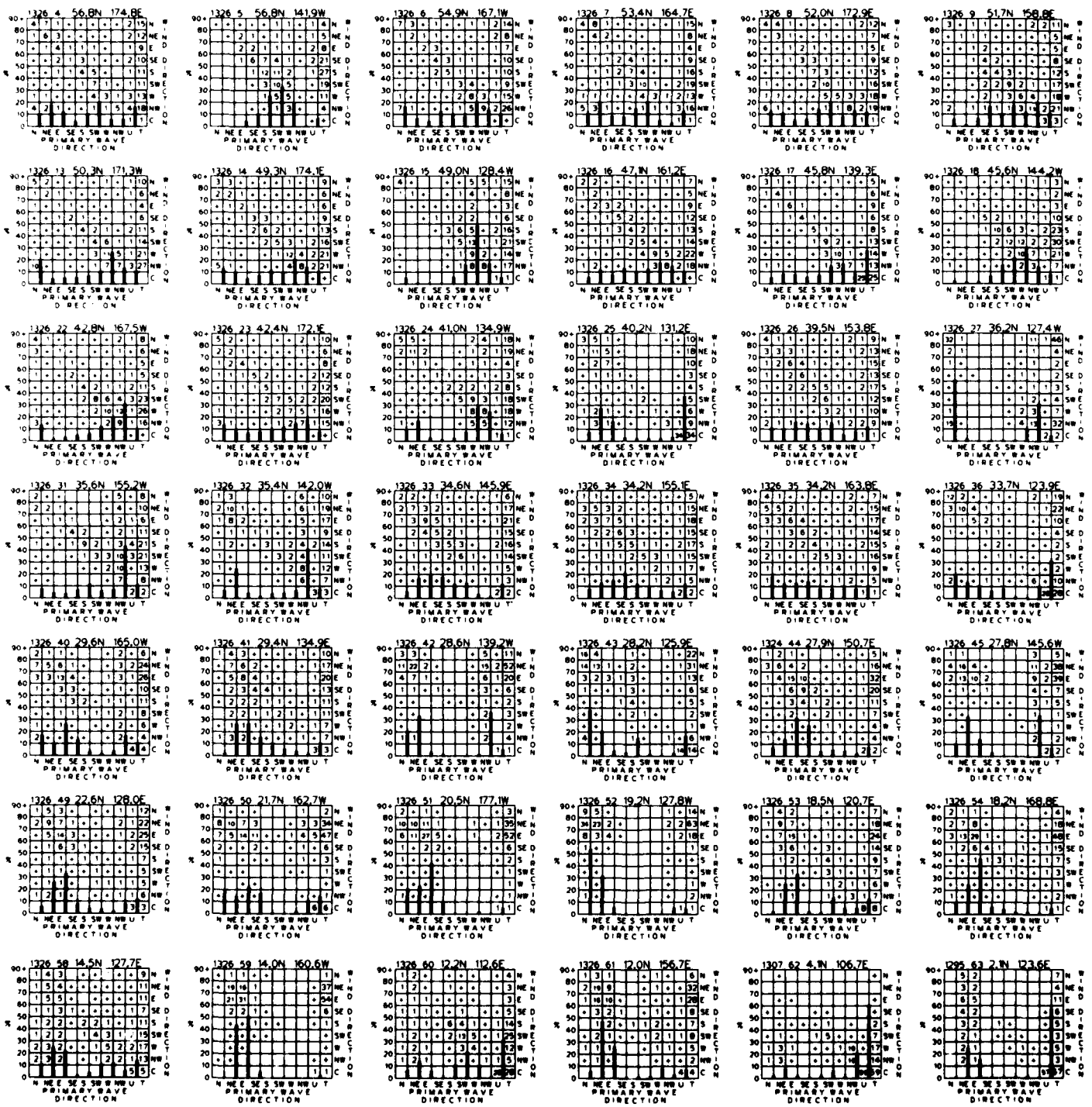


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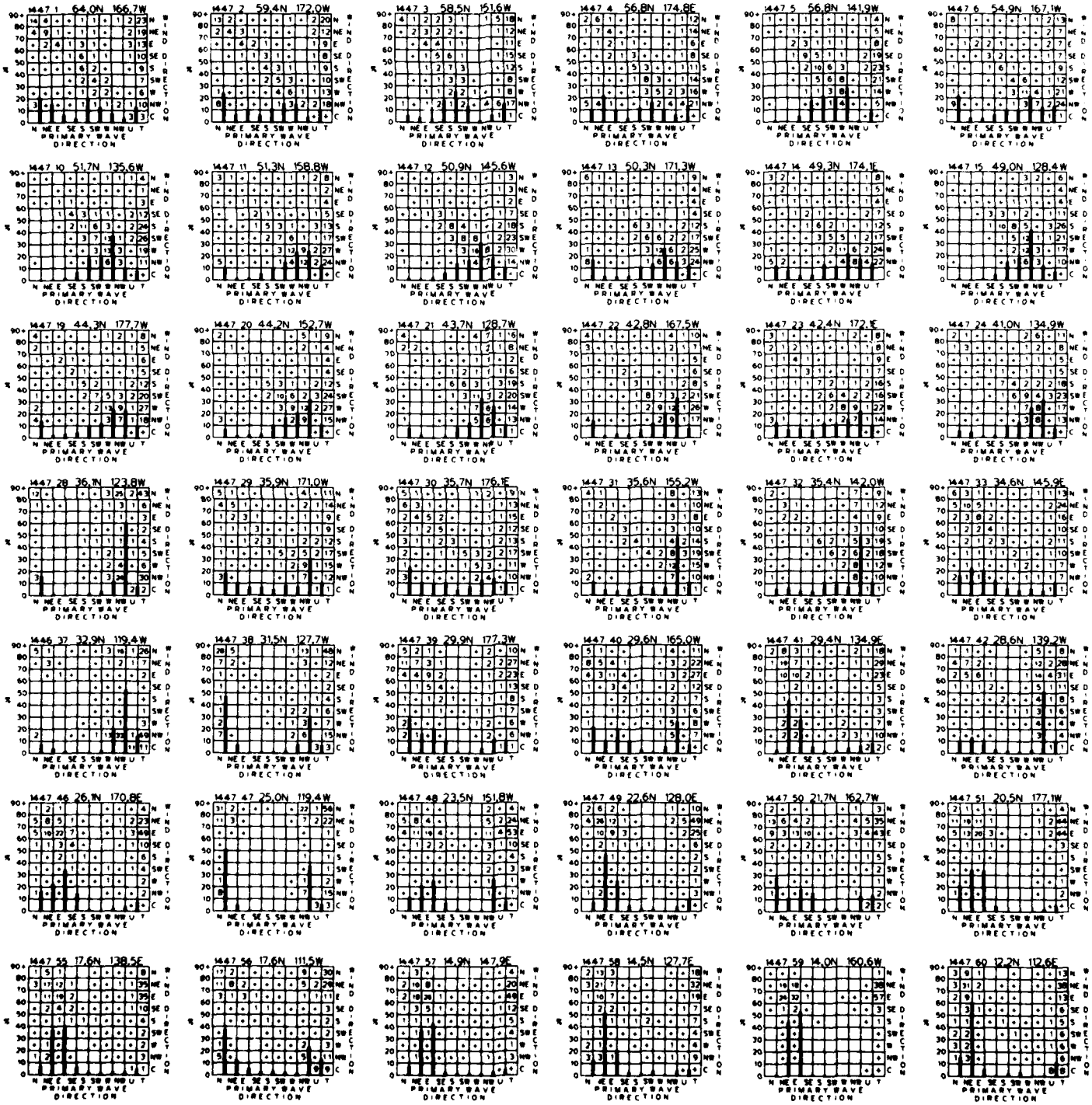
PRIMARY WAVE DIRECTIO



PRIMARY WAVE DIRECTION AND WIND DIRECTION

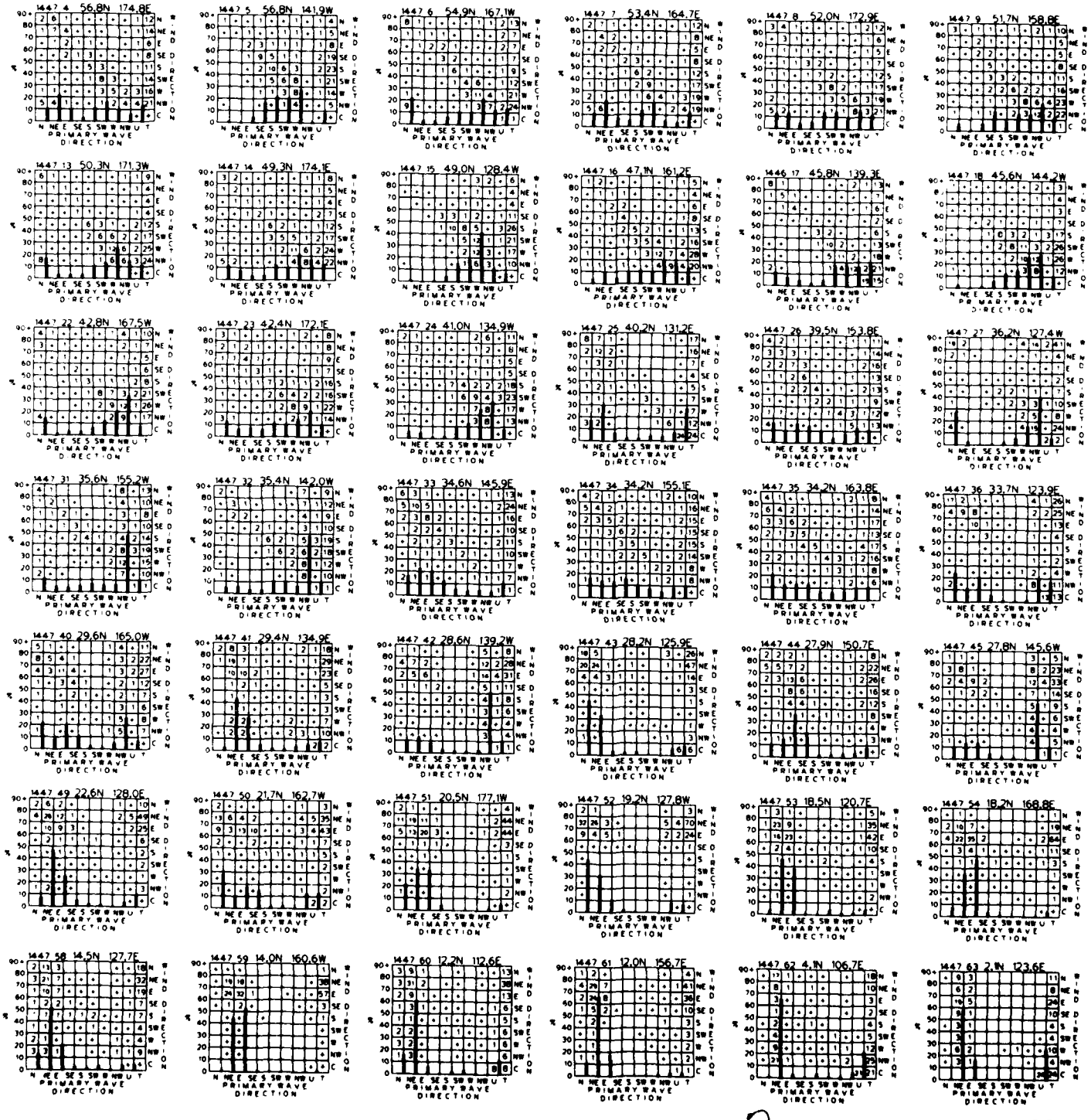


PRIMARY WAVE DIRECTION AND WIND DIRECTION



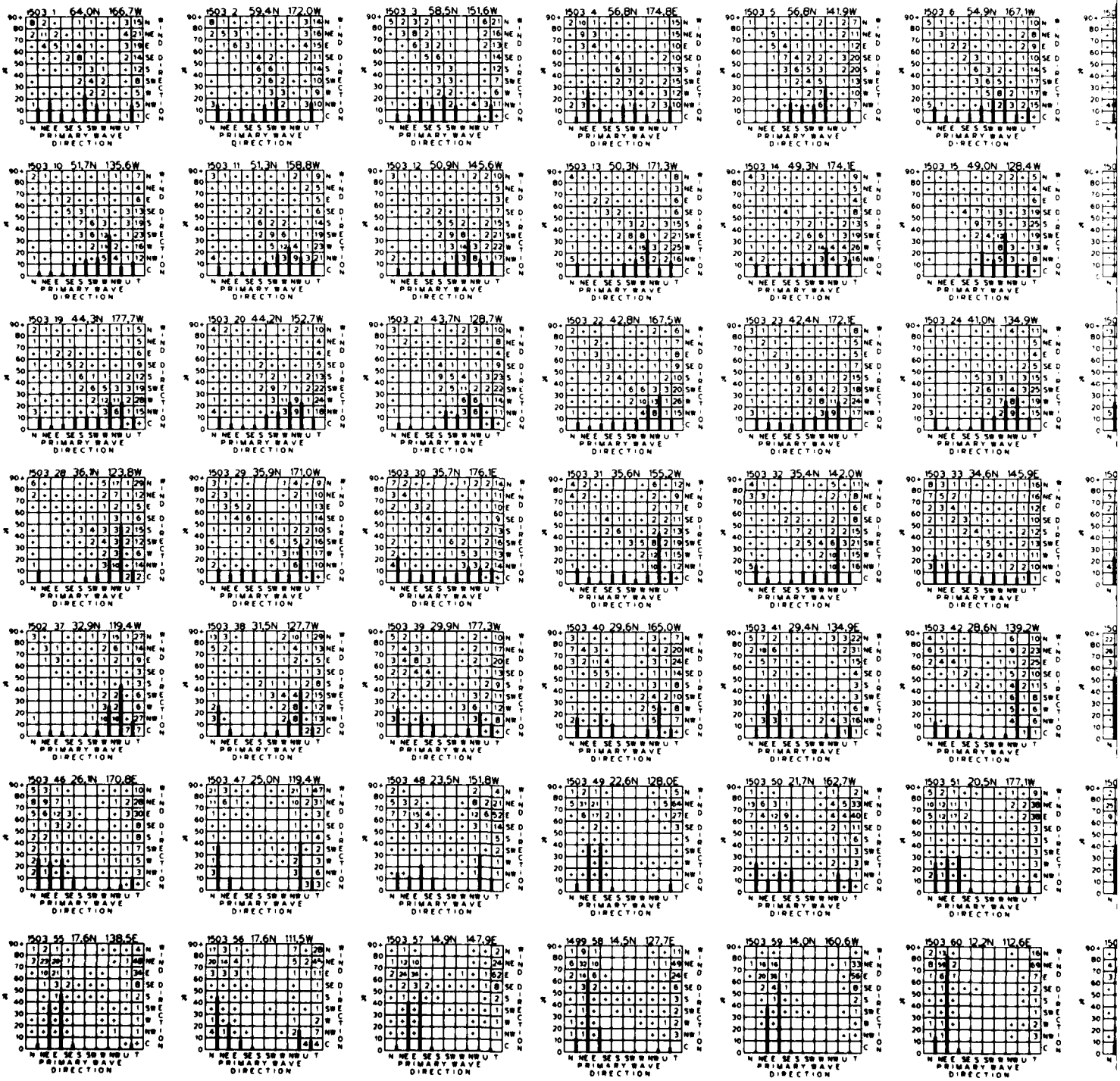
I AND WIND DIRECTION

OCTOBER

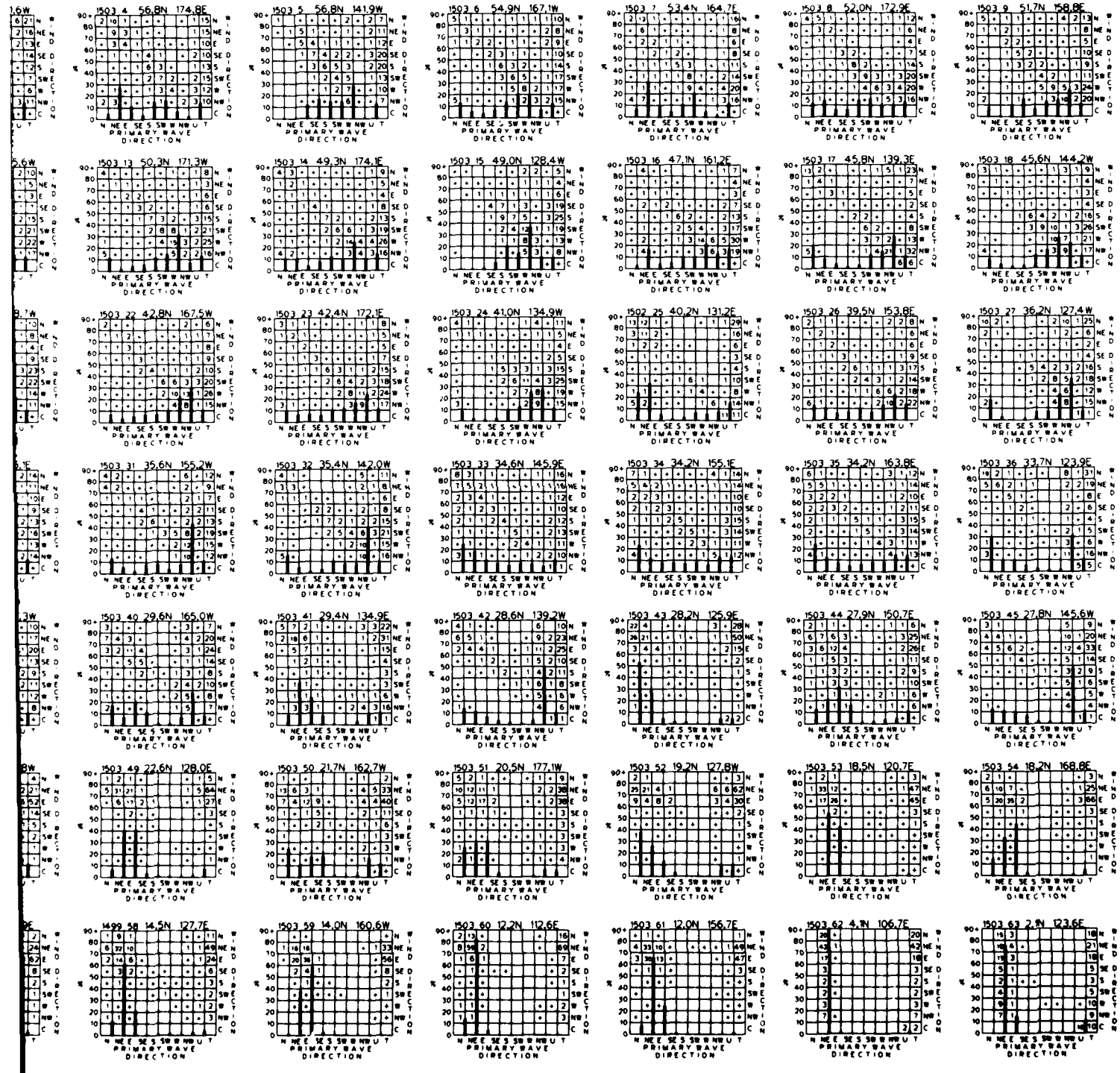


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PRIMARY WAVE DIRECTIO

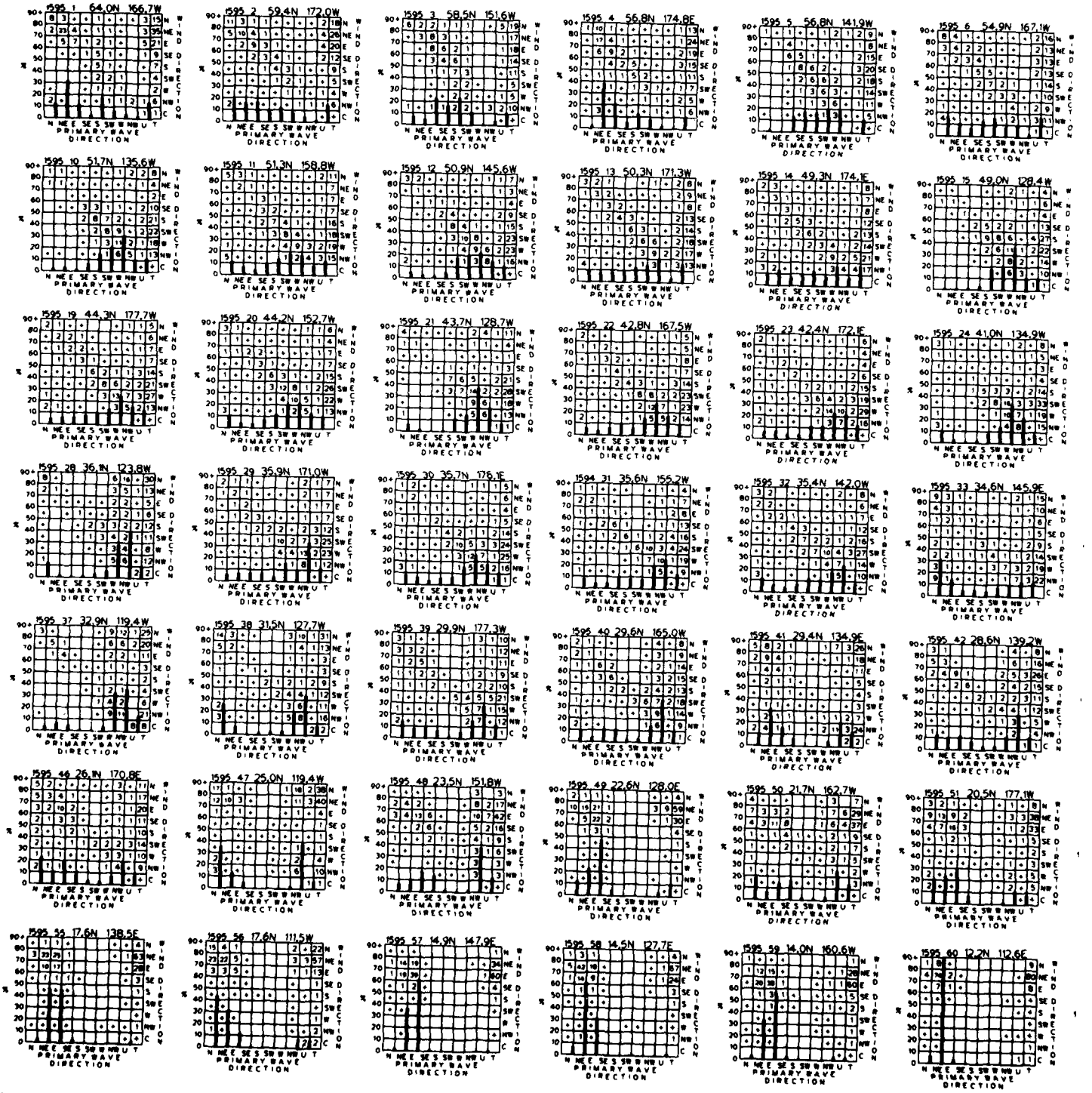


PRIMARY WAVE DIRECTION AND WIND DIRECTION



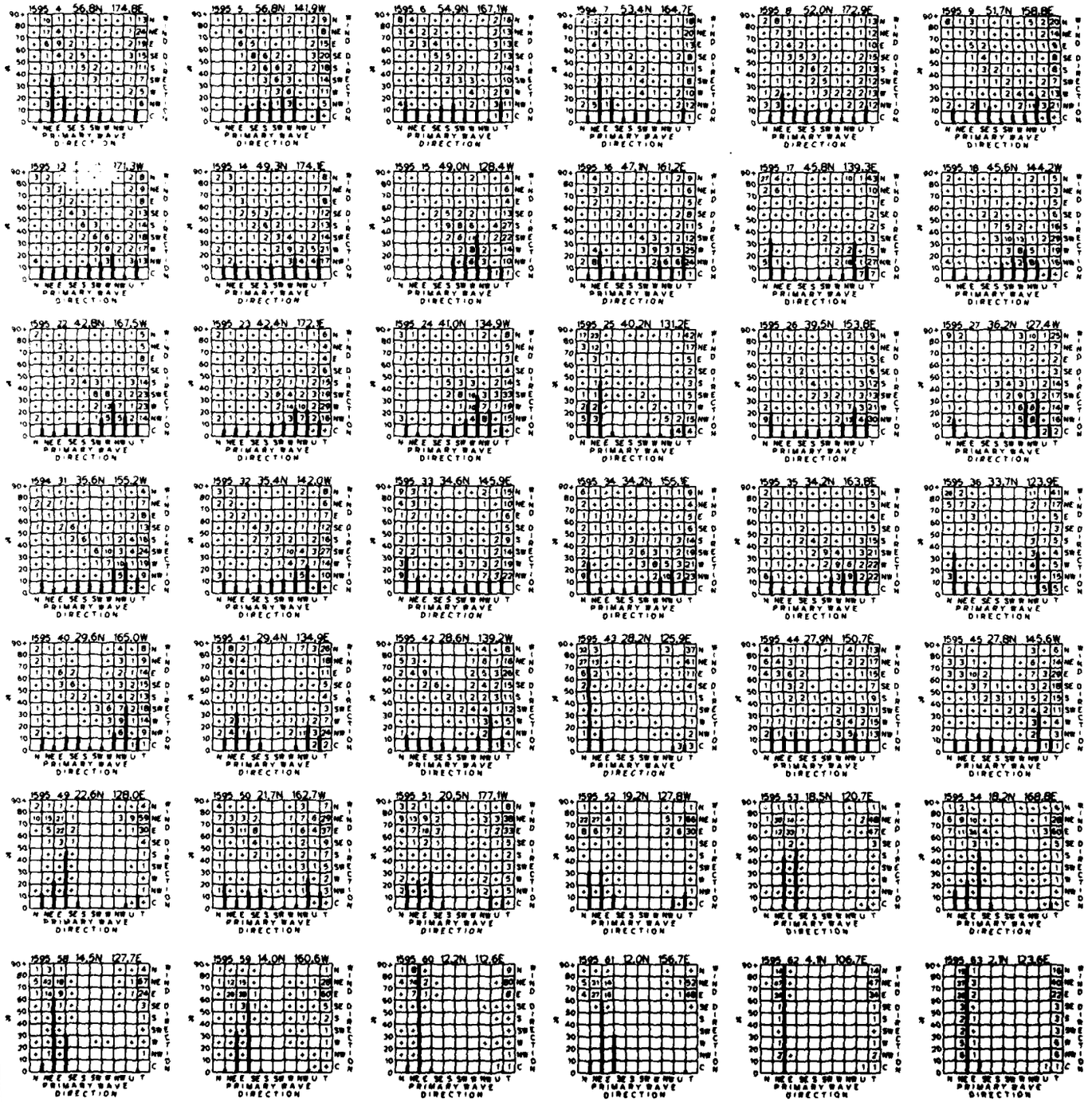
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PRIMARY WAVE DIRECTION AND WIND DIRECTION

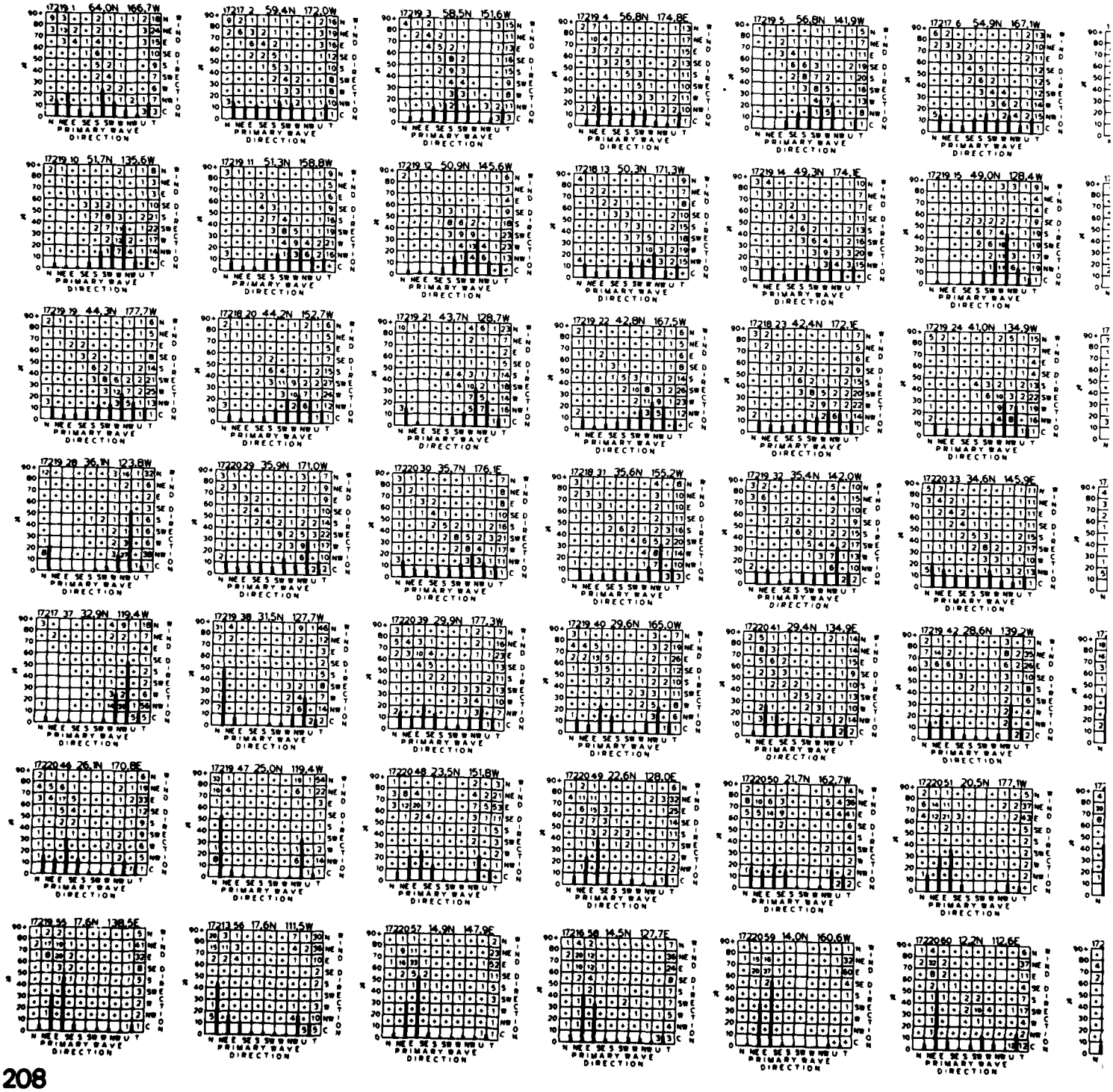


N AND WIND DIRECTION

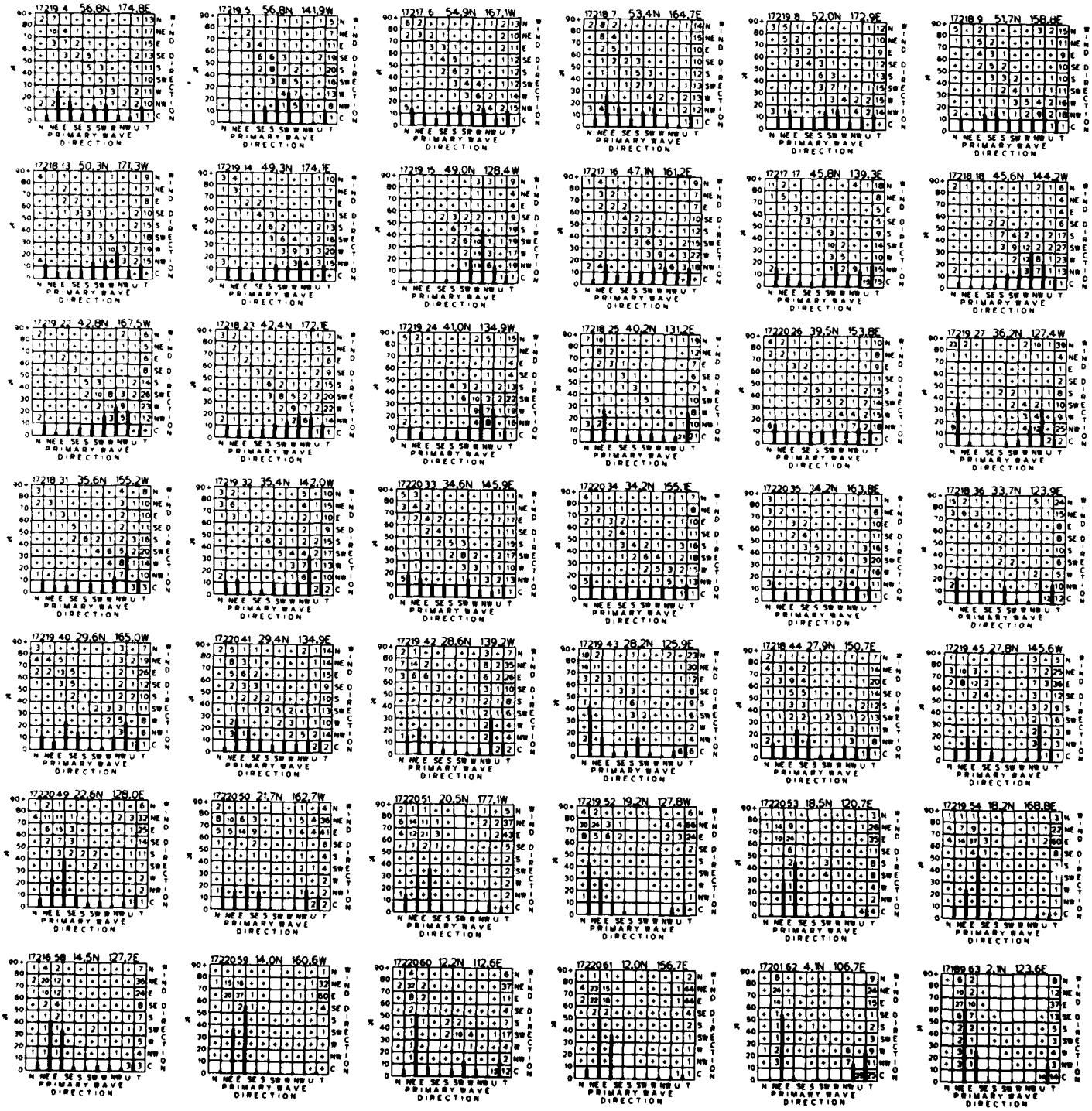
DECEMBER



ANNUAL PRIMARY WAVE DIRECTI

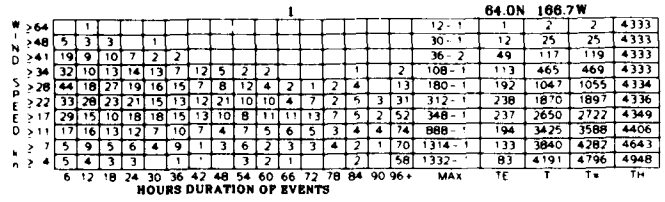


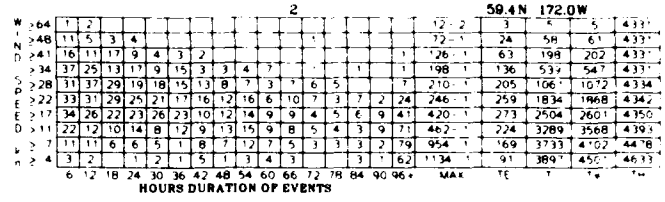
PRIMARY WAVE DIRECTION AND WIND DIRECTION

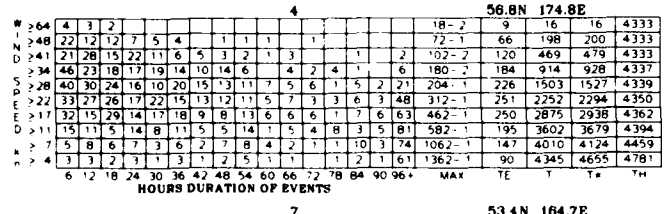


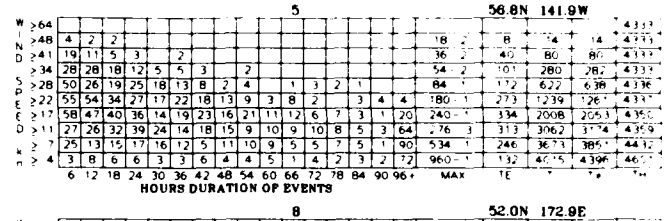
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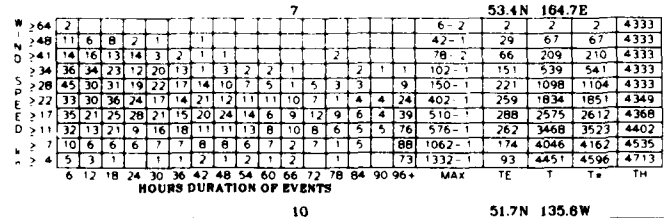
WIND SPEED DURATIONS

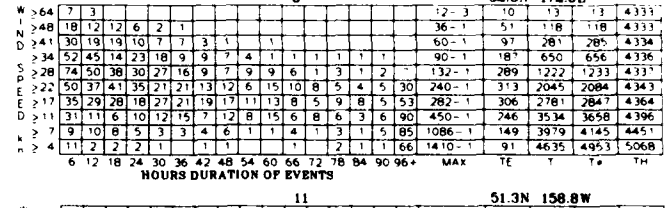


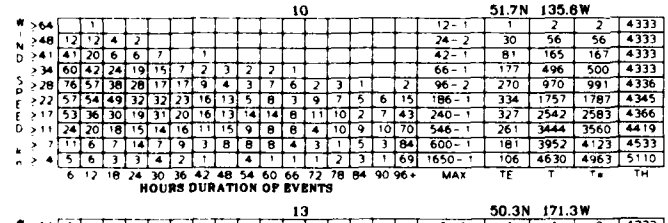


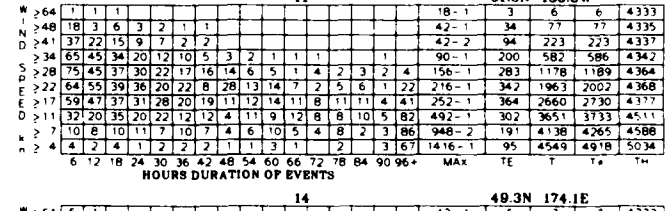


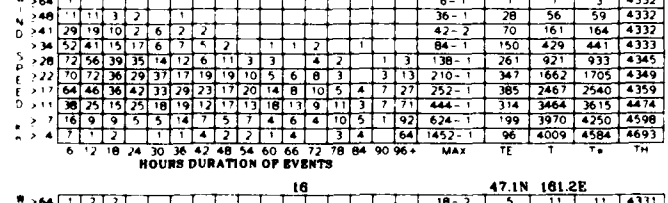


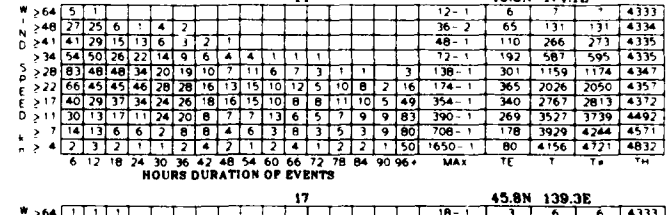


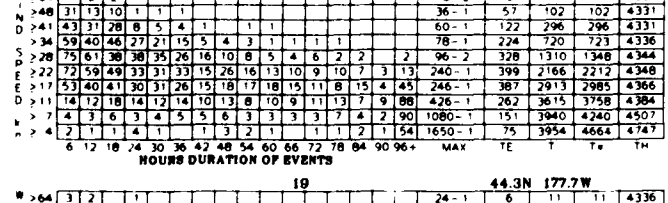


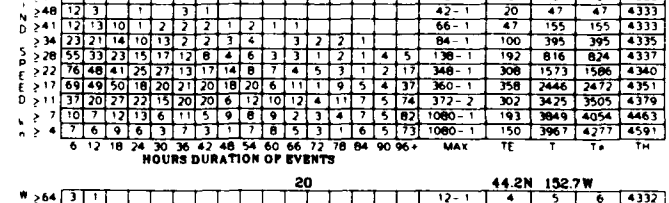


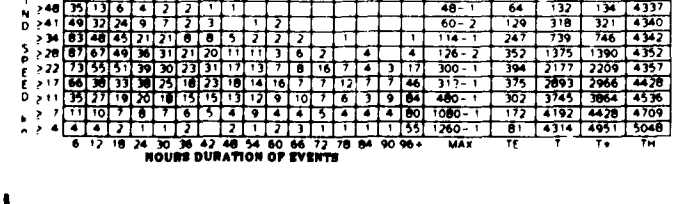


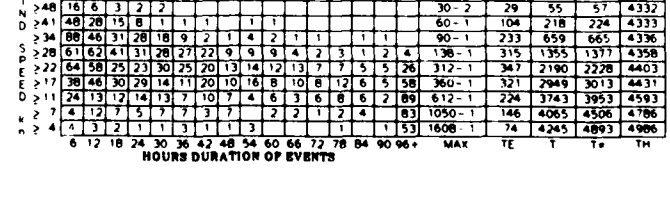






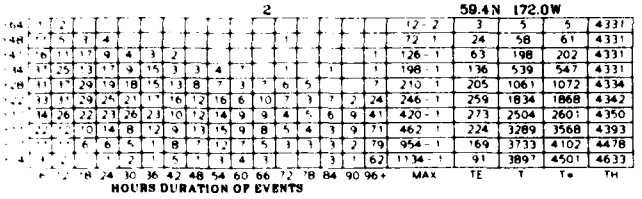






WINTER

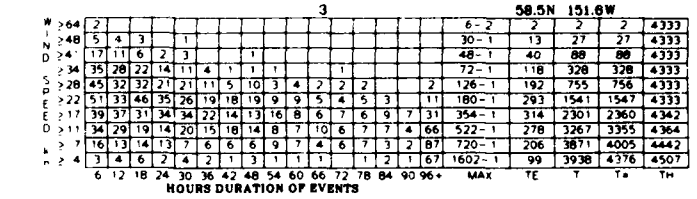
2 — 59.4N 172.0W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																	12 - 2	3	5	5	4331
N	≥48																	72 - 1	24	58	61	4331
D	≥41																	126 - 1	63	198	202	4331
	≥34																	198 - 1	136	539	547	4331
S	≥28																	210 - 1	205	1061	1072	4334
P	≥22																	246 - 1	259	1834	1868	4342
E	≥17																	420 - 1	273	2504	2601	4350
E	≥11																	462 - 1	224	3289	3568	4393
D	≥ 7																	954 - 1	169	3733	4102	4478
kn	≥ 4																	1134 - 1	91	3897	4501	4633

HOURS DURATION OF EVENTS

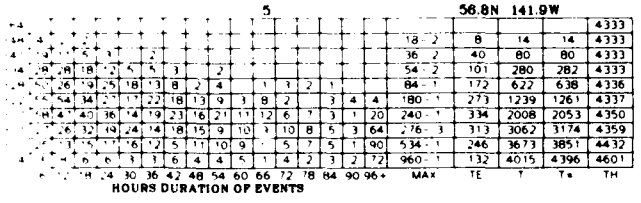
3 — 58.5N 151.6W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	2																6 - 2	2	2	2	4333
N	≥48	5	4	3		1												30 - 1	13	27	27	4333
D	≥41	17	11	6	2	3		1										48 - 1	40	88	88	4333
	≥34	35	28	22	14	11	4	1	1	1		1						72 - 1	118	328	328	4333
S	≥28	45	32	32	21	21	11	5	10	3	4	2	2	2			2	126 - 1	192	755	756	4333
P	≥22	51	33	46	35	26	19	18	19	9	9	5	4	5	3		11	180 - 1	293	1541	1547	4333
E	≥17	39	37	31	34	34	22	14	13	16	8	6	7	6	9	7	31	354 - 1	314	2301	2360	4342
E	≥11	34	29	19	14	20	15	18	14	8	7	10	6	7	7	4	66	522 - 1	278	3267	3355	4364
D	≥ 7	16	13	14	13	7	6	6	6	9	7	4	6	7	3	2	87	720 - 1	206	3871	4005	4442
kn	≥ 4	3	4	6	2	4	2	1	3	1	1	1		1	2	1	67	1602 - 1	99	3938	4376	4507

HOURS DURATION OF EVENTS

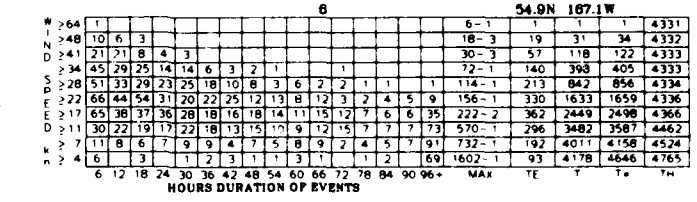
5 — 56.8N 141.9W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																					4333
N	≥48																	18 - 2	8	14	14	4333
D	≥41																	36 - 2	40	80	80	4333
	≥34																	54 - 2	101	280	282	4333
S	≥28																	84 - 1	172	627	638	4336
P	≥22																	180 - 1	273	1239	1261	4337
E	≥17																	240 - 1	334	2008	2053	4350
E	≥11																	276 - 3	313	3062	3174	4359
D	≥ 7																	534 - 1	246	3673	3851	4432
kn	≥ 4																	960 - 1	132	4015	4396	4601

HOURS DURATION OF EVENTS

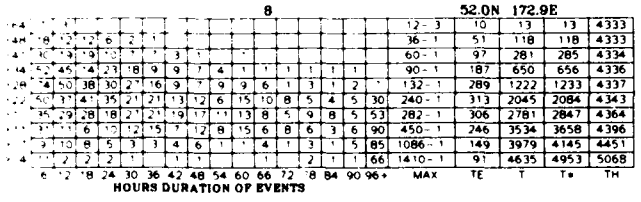
6 — 54.9N 167.1W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	1																6 - 1	1	1	1	4331
N	≥48	10	6	3														18 - 3	19	31	34	4332
D	≥41	21	21	8	4	3												30 - 3	57	118	122	4333
	≥34	45	29	25	14	14	6	3	2	1			1				1	72 - 1	140	398	405	4333
S	≥28	51	33	29	23	25	18	10	8	3	6	2	2	1	1		1	114 - 1	213	842	856	4334
P	≥22	66	44	54	31	20	22	25	12	13	8	12	3	2	4	5	9	156 - 1	330	1633	1659	4336
E	≥17	65	38	37	36	28	18	16	18	14	11	15	12	7	6	6	35	222 - 2	362	2449	2498	4366
E	≥11	30	22	19	17	22	18	13	15	10	9	12	15	7	7	7	73	570 - 1	296	3482	3587	4462
D	≥ 7	11	8	6	7	9	9	4	7	5	8	9	2	4	5	7	91	732 - 1	192	4011	4158	4524
kn	≥ 4	6		3		1	2	3	1	1	3	1		1	2		69	1602 - 1	93	4178	4646	4765

HOURS DURATION OF EVENTS

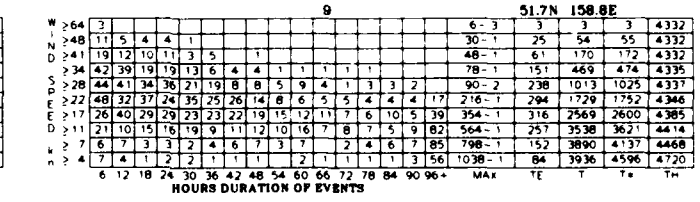
8 — 52.0N 172.9E



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																	12 - 3	10	13	13	4333
N	≥48																	36 - 1	51	118	118	4333
D	≥41																	60 - 1	97	281	285	4334
	≥34																	90 - 1	187	650	656	4336
S	≥28																	132 - 1	289	1222	1233	4337
P	≥22																	240 - 1	313	2045	2084	4343
E	≥17																	282 - 1	306	2781	2847	4364
E	≥11																	450 - 1	246	3534	3658	4396
D	≥ 7																	1086 - 1	149	3979	4145	4451
kn	≥ 4																	1410 - 1	91	4635	4953	5068

HOURS DURATION OF EVENTS

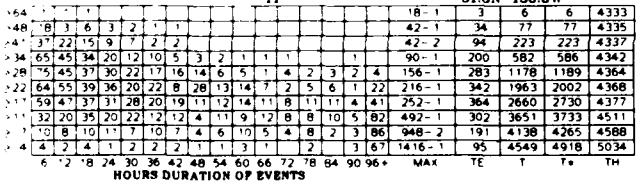
9 — 51.7N 158.8E



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	3																6 - 3	3	3	3	4332
N	≥48	11	5	4	4	1												30 - 1	25	54	55	4332
D	≥41	19	12	10	11	3	5		1									48 - 1	61	170	172	4332
	≥34	42	39	19	19	13	6	4	4	1	1	1						78 - 1	151	469	474	4335
S	≥28	44	41	34	36	21	19	8	8	5	9	4	1	3	3	2		90 - 2	238	1013	1025	4337
P	≥22	48	32	37	24	35	25	26	14	8	6	5	5	4	4	4	17	216 - 1	294	1729	1752	4346
E	≥17	26	40	29	29	23	23	22	19	15	12	11	7	6	10	5	39	354 - 1	316	2569	2600	4385
E	≥11	21	10	15	16	19	9	11	12	10	16	7	8	7	5	9	82	564 - 1	257	3538	3621	4414
D	≥ 7	6	7	3	3	2	4	6	7	3	7		2	4	6	7	85	798 - 1	152	3890	4137	4468
kn	≥ 4	7	4	1	2	2	1	1	1		2	1	1	1	1	3	56	1038 - 1	84	3936	4596	4720

HOURS DURATION OF EVENTS

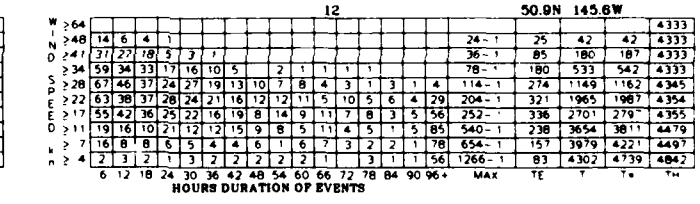
11 — 51.3N 158.8W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																					4333
N	≥48	8	3	6	3	2	1	1										18 - 1	3	6	6	4333
D	≥41	37	22	15	9	7	2	2	2									42 - 1	34	77	77	4335
	≥34	65	45	34	20	12	10	5	3	2	1	1					1	42 - 2	94	223	223	4337
S	≥28	75	45	37	30	22	17	16	14	6	5	1	4	2	3	2	4	90 - 1	200	582	586	4342
P	≥22	64	55	39	36	20	22	8	28	13	14	7	2	5	6	1	22	156 - 1	283	1178	1189	4364
E	≥17	59	47	37	31	28	20	19	11	12	14	11	8	11	11	4	41	216 - 1	342	1963	2002	4368
E	≥11	32	20	35	20	22	12	12	4	11	9	12	8	8	10	5	82	252 - 1	364	2660	2730	4377
D	≥ 7	10	8	10	11	7	10	7	4	6	10	5	4	8	2	3	86	492 - 1	302	3651	3733	4511
kn	≥ 4	4	2	4	1	2	2	2	1	1	3	1	2	3	1	2	67	948 - 2	191	4138	4265	4588
																		1416 - 1	95	4549	4918	5034

HOURS DURATION OF EVENTS

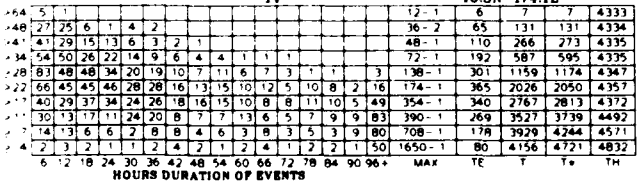
12 — 50.9N 145.6W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																					4333
N	≥48	14	6	4	1													24 - 1	25	42	42	4333
D	≥41	37	22	18	5	3	1											36 - 1	85	180	187	4333
	≥34	59	34	33	17	16	10	5		2	1	1	1					78 - 1	180	533	542	4333
S	≥28	67	46	37	24	27	19	13	10	7	8	4	3	1	3	1	4	114 - 1	274	1149	1162	4345
P	≥22	63	38	37	28	24	21	16	12	12	11	5	10	5	6	4	29	204 - 1	321	1965	1987	4354
E	≥17	55	42	36	25	22	16	19	8	14	9	11	7	8	3	5	56	252 - 1	336	2701	2794	4355
E	≥11	19	16	10	21	12	12	15	9	8	5	11	4	5	1	5	85	540 - 1	238	3654	3811	4479
D	≥ 7	16	8	8	6	5	4	4	6	1	6	7	3	2	2	1	78	654 - 1	157	3979	4221	4497
kn	≥ 4	2	3	2	1	3	2	2	2	2	1		3	1	1	56		1266 - 1	83	4302	4739	4842

HOURS DURATION OF EVENTS

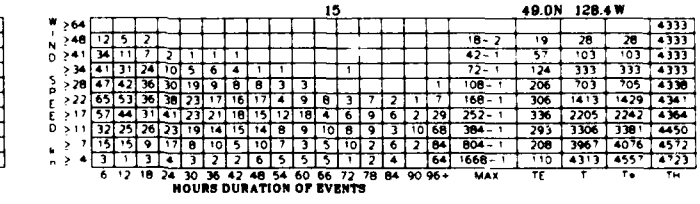
14 — 49.3N 174.1E



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	5																12 - 1	6	7	7	4333
N	≥48	27	25	6	1	4	2											36 - 2	65	131	131	4334
D	≥41	41	29	15	13	6	3	2	1									48 - 1	110	266	273	4335
	≥34	54	50	26	22	14	9	6	4	4	1	1						72 - 1	192	587	595	4335
S	≥28	83	48	48	34	20	19	10	7	11	6	7	3	1	1		3	138 - 1	301	1159	1174	4367
P	≥22	66	45	45	46	28	28	16	13	15	10	12	5	10	8	2	16	174 - 1	365	2026	2050	4357
E	≥17	40	29	37	34	24	26	18	16	15	10	8	8	11	10	5	49	354 - 1	340	2767	2813	4372
E	≥11	30	13	17	11	24	20	8	7	7	13	6	5	7	9	9	83	390 - 1	269	3527	3739	4492
D	≥ 7	14	13	6	6	2	8	8	4	6	3	8	3	5	3	9	80	708 - 1	178	3929	4244	4571
kn	≥ 4	2	3	2	1	1	2	4	2	1	2	4	1	2	2	1	50	1650 - 1	80	4156	4721	4832

HOURS DURATION OF EVENTS

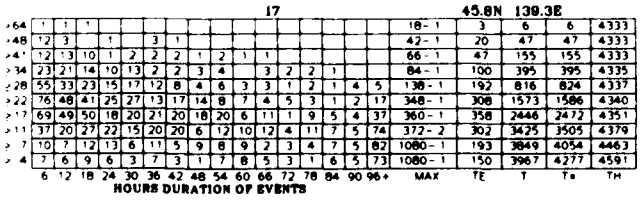
15 — 49.0N 128.4W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64																					4333
N	≥48	12	5	2														18 - 2	19	28	28	4333
D	≥41	34	11	7	2	1	1	1										42 - 1	57	103	103	4333
	≥34	41	31	24	10	5	6	4	1	1			1					72 - 1	124	333	333	4333
S	≥28	47	42	36	30	19	9	8	8	3	3						1	108 - 1	206	703	705	4338
P	≥22	65	53	36	38	23	17	16	17	4	9	8	3	7	2	1	7	168 - 1	306	1413	1429	4341
E	≥17	57	44	31	41	23	21	18	15	12	18	4	6	9	6	2	29	252 - 1	336	2205	2242	4364
E	≥11	32	25	26	23	19	14	15	14	8	9	10	8	9	3	10	68	384 - 1	293	3306	3381	4450
D	≥ 7	15	15	9	17	8	10	5	10	7	3	5	10	2	6	2	84	804 - 1	208	3967	4076	4572
kn	≥ 4	3	1	3	4	3	3	2	2	6	5	5	5	1	2	4		1668 - 1	110	4313	4557	4723

HOURS DURATION OF EVENTS

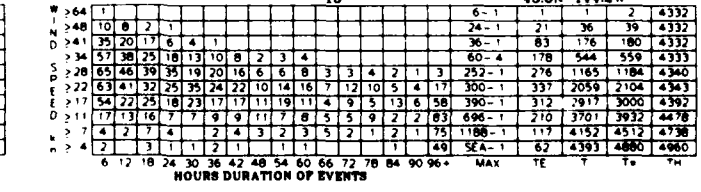
17 — 45.8N 139.3E



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	1	1	1														18 - 1	3	6	6	4333
N	≥48	12	3		1		3	1										42 - 1	20	47	47	4333
D	≥41	12	3	10	1	2	2	2	1	2	1	1						66 - 1	47	155	155	4333
	≥34	23	21	14	10	13	2	2	2	3	4		3	2	2	1		84 - 1	100	395	395	4335
S	≥28	55	33	23	15	17	12	8	4	6	3	3	1	2	1	4	5	138 - 1	192	816	824	4337
P	≥22	76	48	41	25	27	13	17	14	8	7	4	5	3	1	2	17	348 - 1	308	1573	1586	4340
E	≥17	69	49	50	18	20	21	20	18	20	6	11	1	9	5	4	37	360 - 1	358	2446	2472	4351
E	≥11	37	20	27	22	15	20	20	6	12	10	12	4	11	7	5	74	372 - 2	302	3425	3505	4379
D	≥ 7	10	7	12	13	6	11	5	9	8	9	2	3	4	7	5	82	1080 - 1	193	3849	4054	4463
kn	≥ 4	7	6	9	6	3	7	3	1	7	8	5	3	1	6	5	73	1080 - 1	150	3967	4277	4591

HOURS DURATION OF EVENTS

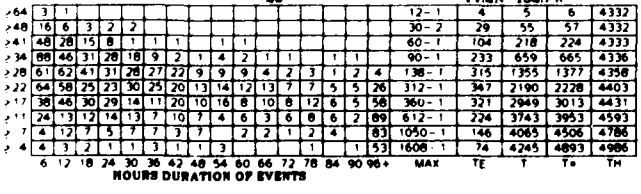
18 — 45.6N 144.2W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	1																6 - 1	1	1	2	4332
N	≥48	10	8	2	1													24 - 1	21	36	39	4332
D	≥41	35	20	17	6	4	1											36 - 1	83	176	180	4332
	≥34	57	38	25	18	13	10	8	2	3	4							60 - 4	178	544	559	4333
S	≥28	65	46	39	35	19	20	16	6	6	8	3	3	4	2	1	3	252 - 1	276	1165	1184	4340
P	≥22	63	41	32	25	35	24	22	10	14	16	7	12	10	5	4	17	300 - 1	337	2059	2104	4343
E	≥17	54	22	25	18	23	17	17	11	19	11	4	9	5	13	6	58	390 - 1	312	2917	3000	4392
E	≥11	17	13	16	7	7	9	9	11	7	8	5	5	9	2	2	83	696 - 1	210	3701	3932	4478
D	≥ 7	4	2	7	4		2	4	3	2	3	5	2	1	2	1	75	1188 - 1	117	4152	4512	4738
kn	≥ 4	2		3	1	1	2	1		1	1				1		49	SEA - 1	62	4393	4880	4960

HOURS DURATION OF EVENTS

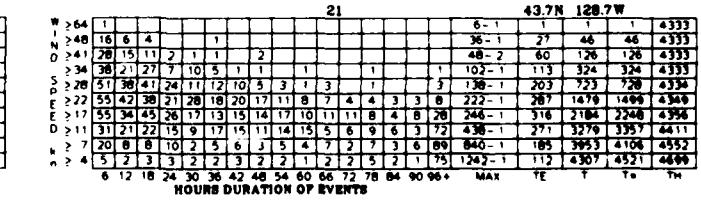
20 — 44.2N 152.7W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	3	1															12 - 1	4	5	6	4332
N	≥48	16	6	3	2	2												30 - 2	29	55	57	4332
D	≥41	48	28	15	8	1	1	1		1	1							60 - 1	104	218	224	4333
	≥34	88	46	31	28	18	9	2	1	4	2	1	1		1	1		90 - 1	233	659	665	4336
S	≥28	61	62	41	31	28	27	22	9	9	9	4	2	3	1	2	4	138 - 1	315	1355	1377	4358
P	≥22	64	58	25	23	30	25	20	13	14	12	13	7	7	5	5	26	312 - 1	347	2190	2228	4403
E	≥17	38	46	30	29	14	11	20	10	16	8	10	8	12	6	5	58	360 - 1	321	2949	3013	4431
E	≥11	24	13	12	14	13	7	10	7	4	6	3	6	8	6	2	89	612 - 1	224	3743	3953	4593
D	≥ 7	4	12	7	5	7	7	3	7		2	2	1	2	4		83	1050 - 1	146	4065	4506	4786
kn	≥ 4	4	3	2	1	1	3	1	1	3				1		1	53	1608 - 1	74	4245	4893	4986

HOURS DURATION OF EVENTS

21 — 43.7N 128.7W



WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
W	≥64	1																6 - 1	1	1	1	4333
N	≥48	16	6	4		1												36 - 1	27	46	46	4333
D	≥41	28	15	11	2	1	1	2										48 - 2	60	126	126	4333
	≥34	38	21	27	7	10	5	1	1		1			1			1	102 - 1	113	324	324	4333
S	≥28	51	38	41	24	11	12	10	5	3	1	3					3	138 - 1	203	723	728	4334
P	≥22	55	42	38	21	28	18	20	17	11	8	7	4	4	3	3	8	222 - 1	287	1479	1494	4349
E	≥17	55	34	45	26	17	13	15	14	17	10	11	11	8	4	8	28	246 - 1	316	2184	2248	4356
E	≥11	31	21	22	15	9	17	15	11	14	15	5	6	9	6	3	72	438 - 1	271	3279	3357	4411
D	≥ 7	20	8	8	10	2	5	6	3	5	4	7	2	7	3	6	89	840 - 1	185	3953	4106	4552
kn	≥ 4	5	2	3	3	2	2	3	2	2	1	2	2	5	2	1	75	1242 - 1	112	4307	4521	4698

HOURS DURATION OF EVENTS

WINTER

WIND SPEE

22 — 42.8N 167.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	16	8	4	1	1												30 - 1	30	53	53	4333
>41	25	22	9	9	5		1										42 - 1	71	164	165	4337
>34	71	56	35	17	12	10	6	3		1							60 - 1	211	552	557	4338
>28	72	56	49	45	19	22	13	5	4	7	3		4	2	3	2	126 - 1	306	1173	1187	4346
>22	89	58	47	37	30	33	19	21	3	12	7	6	5	3	5	21	246 - 1	396	2077	2107	4378
>17	48	41	38	23	39	21	25	23	15	9	8	10	5	14	2	45	378 - 1	366	2938	2997	4421
>11	20	18	16	18	15	17	13	8	9	8	5	6	7	13	7	78	702 - 1	258	3723	3869	4526
> 7	13	4	6	2	9	5	9	2	5	6	3	1	4	6	5	79	774 - 1	159	3994	4389	4675
> 4	3	4	3	1		2	1	2	1	2	2					62	1662 - 1	83	4354	4856	4957

HOURS DURATION OF EVENTS

23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	4	1	1														18 - 1	6	9	11	4332
>48	28	20	8		3		1										42 - 1	60	114	127	4332
>41	59	38	21	7	3	1	1	2	3								54 - 3	135	297	313	4332
>34	70	46	35	37	11	12	8	4	1	3	1	2					72 - 2	230	704	724	4334
>28	90	55	44	50	31	21	13	10	3	8	6	2	1	1		5	138 - 1	340	1308	1336	4337
>22	71	57	59	51	25	31	20	19	16	11	9	8	9	3	5	11	150 - 1	405	2057	2154	4352
>17	65	41	49	34	36	31	23	20	17	10	9	6	7	9	9	41	258 - 1	407	2782	2940	4392
>11	26	25	28	23	25	23	12	14	12	10	13	3	5	8	8	73	324 - 1	308	3550	3786	4445
> 7	10	11	5	11	10	15	7	3	4	7	8	3	2	3	4	83	564 - 1	186	3958	4254	4529
> 4	1	1	1	2	1	1	1		4	2						60	1584 - 1	75	4383	4953	5031

HOURS DURATION OF EVENTS

25 — 40.2N 131.2E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	2	1															12 - 1	3	4	4	4333
>41		1	4	3													18 - 3	8	18	18	4333
>34	14	11	10	2	1	2											36 - 2	40	91	91	4333
>28	37	30	14	17	10	7	2	2	2	2		1					66 - 1	122	358	360	4334
>22	79	57	27	19	12	13	12	7	2	4	5	3	1	1		6	144 - 1	248	920	925	4335
>17	67	57	54	35	29	15	11	10	9	9	6	8	8	2	4	11	156 - 1	335	1629	1653	4346
>11	58	42	51	35	30	20	22	17	22	13	10	6	7	3	8	47	312 - 1	391	2846	2895	4368
> 7	32	21	21	24	22	21	8	12	9	12	10	8	8	8	7	77	654 - 1	300	3628	3720	4430
> 4	12	3	7	11	11	10	8	8	4	1	4	7	3	7	3	87	888 - 1	196	3919	4117	4480

HOURS DURATION OF EVENTS

26 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64			1														18 - 1	1	3	3	4334
>48	21	7	1						1								54 - 1	30	47	49	4335
>41	30	22	6	4	2	1			1								60 - 1	66	134	137	4335
>34	61	47	26	11	8	4	2	2	1		1						72 - 1	163	392	395	4336
>28	82	59	59	29	22	9	7	2	4	5	1	2					72 - 2	281	843	848	4336
>22	94	77	68	44	42	20	15	10	7	9	7	8	4	1	1	3	168 - 1	410	1614	1646	4355
>17	71	81	72	49	47	31	27	17	17	17	10	12	8	5	5	11	180 - 1	480	2415	2463	4369
>11	37	47	34	43	34	28	19	22	19	17	12	12	11	13	11	55	360 - 1	414	3426	3518	4415
> 7	17	14	16	18	8	11	11	6	12	17	5	4	8	7	10	95	492 - 1	259	3933	4102	4505
> 4	2	8	4	3	1	3	2	3	1	4	4	1	2	1	2	71	1854 - 1	112	4063	4520	4650

HOURS DURATION OF EVENTS

28 — 38.1N 123.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	1																6 - 1	1	1	1	4333
>41	5	1	2														18 - 2	8	13	13	4333
>34	16	11	5	1	2												30 - 2	35	67	67	4333
>28	39	19	12	17	6	1	3		1								54 - 1	98	247	247	4333
>22	50	32	36	19	16	9	5	3	5	3	3	3	2	1	1		90 - 1	188	690	693	4334
>17	75	55	26	25	27	24	20	12	9	7	2	4	5	2	2	10	132 - 2	305	1410	1415	4348
>11	77	27	35	18	27	20	24	18	13	17	15	5	6	10	7	44	378 - 1	363	2829	2848	4424
> 7	48	17	15	12	12	11	9	12	8	4	14	11	7	8	7	72	798 - 1	267	3619	3776	4483
> 4	22	6	11	3	4	6	4	6	6	1	2	6	5	1	3	74	1434 - 1	160	4377	4618	4877

HOURS DURATION OF EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	2																6 - 2	2	2	2	4334
>48	16	4	2	1	1												30 - 1	24	39	39	4334
>41	32	16	6	4	2	1	1										42 - 1	62	121	121	4334
>34	57	33	34	10	3	4	1		1	1		2					72 - 2	146	354	355	4334
>28	76	50	36	40	18	11	12	3	3	3	1	2	1	1	1		138 - 1	259	865	871	4337
>22	84	49	50	34	30	15	14	14	9	12	6	5	4	5		13	240 - 1	344	1654	1673	4337
>17	82	46	35	30	31	20	20	12	10	11	10	8	11	4	3	33	432 - 1	366	2409	2462	4339
>11	30	32	25	24	20	17	9	13	15	6	9	7	6	4	5	65	576 - 1	287	3185	3471	4354
> 7	24	17	10	6	11	5	9	4	6	6	3	9	5	3	3	75	966 - 1	196	3620	4041	4414
> 4	2	3	6	3	3	4		2	1	3	2	2	1	1	2	62	1344 - 1	97	3958	4524	4647

HOURS DURATION OF EVENTS

31 — 35.6N 155.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	9	3	1														18 - 1	13	18	18	4333
>41	25	11	8	2		1	1										42 - 1	48	92	92	4333
>34	60	29	16	9	4	7	1	2	2		1		1				78 - 1	132	329	329	4333
>28	52	54	43	23	14	9	8	5	4	5		2		2		1	108 - 1	222	757	763	4333
>22	46	41	49	35	20	21	13	12	9	13	5	1	4	4	2	11	192 - 1	286	1484	1497	4333
>17	60	36	32	29	35	25	14	10	10	14	6	8	9	1	4	30	600 - 1	323	2271	2307	4339
>11	44	22	12	18	24	12	14	20	12	8	15	9	2	5	7	63	792 - 1	287	3273	3321	4347
> 7	25	7	9	6	15	5	9	9	10	2	4	7	8	2	5	81	792 - 1	204	3739	3957	4403
> 4	9	2	3	5	8	8	2	3	5	1	2	1	1	1	5	75	780 - 1	131	3882	4408	4609

HOURS DURATION OF EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	1	3															12 - 3	4	7	7	4333
>41	15	6	2	1	1												30 - 1	25	42	42	4333
>34	40	20	6	11	5	3	3										42 - 3	88	206	206	4333
>28	57	29	28	16	9	11	2	4	4	3		2	1			2	120 - 1	168	559	559	4333
>22	56	35	20	28	19	18	10	11	10	6	6	3	3	1	3	10	264 - 1	239	1240	1245	4335
>17	64	31	39	23	23	8	16	11	17	7	10	4	9		6	29	324 - 1	297	2010	2027	4337
>11	32	17	18	13	23	12	16	13	10	12	6	6	5	3	8	67	636 - 1	261	3139	3201	4348
> 7	22	8	4	9	6	7	2	7	9	6	4	3	4	4	3	79	726 - 1	177	3593	3917	4444
> 4	7	5	2	3	4	3	3	2	4	3	2	3		4		60	912 - 1	105	3632	4390	4589

HOURS DURATION OF EVENTS

34 — 34.2N 155.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	3		1														18 - 1	4	6	6	4334
>41	13	2	3														18 - 3	18	26	26	4334
>34	48	20	7	6	3		1										42 - 1	85	155	159	4334
>28	87	45	22	17	10	6	2	2		1		1					72 - 1	193	449	459	4336
>22	106	70	51	24	26	19	12	7	1	2	2	3	1	2	2	1	102 - 1	329	1054	1078	4337
>17	102	84	67	56	38	26	23	13	13	5	9	2	6		6	8	144 - 1	458	1912	1947	4347
>11	53	37	38	39	46	32	26	21	20	9	14	5	11	8	7	47	300 - 2	413	3097	3174	4375
> 7	21	20	20	13	15	21	18	24	13	15	15	5	9	8	12	78	582 - 1	307	3774	3924	4476
> 4	9	8	6	3	1	7	5	7	5	6	6	1	1	5	2	79	804 - 1	151	3964	4434	4611

HOURS DURATION OF EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	5	1		1													24 - 1	7	11	11	4334
>41	18	3	3	2													24 - 2	26	41	41	4334
>34	53	26	14	6	3	4											36 - 4	106	210	211	4334
>28	92	53	28	26	10	10	5	3	3	1		1					72 - 1	232	604	611	4334
>22	112	87	53	51	21	20	10	14	7	8	5	3	2	1	1	2	138 - 1	397	1384	1416	4334
>17	76	52	69	53	39	33	21	19	11	10	10	7	6	2	5	20	204 - 1	433	2267	2327	4338
>11	35	27	31	25	25	30	28	24	19	15	12	10	4	11	8	55	528 - 1	359	3327	3436	4377
> 7	14	7	13	11	6	16	14	10	18	7	9	5	3	4	9	87	816 - 1	228	3871	4032	4415
> 4	3	3	4	2	2	2	2	2	5	2	3	2		2	2	73	1086 - 1	109	3751	4379	4505

HOURS DURATION OF EVENTS

37 — 32.9N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48																					4333
>41																					4333
>34	2																6 - 2	2	2	2	4333
>28	19	9	2	3													24 - 3	33	55	55	4333
>22	48	16	11	11	7	1	2	2		2							60 - 2	100	248	248	4335
>17	88	43	30	22	11	13	8	4	2	6	1		1	4		2	114 - 1	235	768	768	4355
>11	92	51	45	23	27	32	21	9	14	14	12	4	3	7	6	22	306 - 1	382	2154	2158	4391
> 7	90	32	31	12	16	11	13	9	11	12	4	7	6	9	5	74	582 - 1	342	3350	3395	4458
> 4	55	24	16	5	6	8	12	4	9	5	5	6	7		3	76	1218 - 1	241	3968	4192	4700

HOURS DURATION OF EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	1																6 - 1	1	1	1	4333
>41	3	2															12 - 2	5	7	7	4333
>34	8	6	3														18 - 3	17	29	29	4333
>28	24	11	11	6	1	1	2										42 - 2	56	128	130	4333
>22	50	19	20	12	15	7	3	2	1		2	1	1		1		90 - 1	134	421	424	4333
>17	74	33	18	30	19	18	6	10	8	2	4		1	4	3	8	132 - 1	238	1038	1047	4342
>11	80	36	29	12	25	16	17	18	14	9	14	4	5	5	6	41	312 - 1	331	2384	2407	4384
> 7	58	25	22	14	9	13	14	7	9	8	8	9	7	4	4	75	636 - 1	286	3523	3556	4473
> 4	24	9	9	6	6	4	2	6	9	6	5	5	3	4	3	79	1440 - 1	180	4083	4403	4742

HOURS DURATION OF EVENTS

40 — 29.6N 165.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48		1															12 - 1	4	5	5	4333
>41	7	3		1	1												30 - 1	12	22	22	4333
>34	23	9	5	2	2	1		1									48 - 1	43	88	88	4333
>28	38	24	12	10	9	1	3	1	2	1	1						66 - 1	102	281	281	4333
>22	58	45	25	24	15	11	8	7	2	3	2	2	2	1	2	2	156 - 1	209	778	786	4333
>17	77	42	49	19	23	11	9	9	15	11	4	1	8	1	4	14	330 - 1	297	1527	1548	4335
>11	73	24	25	29	20	19	14	25	11	16	6	4	8	3	4	48	420 - 1	329	2864	2942	4398
> 7	27	16	19	7	11	12	8	10	15	8	12	10	2	6	4	71	630 - 1	238	3562	3882	4466
> 4	8	5	1	2	5	3	1	2	2	2	3	1	2			67	984 - 1	113	3788	4339	4515

HOURS DURATION OF EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	1																6 - 1	1	1	1	4334
>41	1																6 - 1	1	1	1	4334
>34	8	1															12 - 1	9	10	10	4334
>28	23	11	7	1	1												30 - 1	43	75	75	4334
>22	47	29	15	11	4	5	1		1	2			1				78 - 1	116	293	293	4334
>17	89	60	39	28	16	5	12	4	5	1	3	1		1	1	1	120 - 1	265	799	800	4335
>11	96	55	41	34	34	37	23	14	9	13	11	7	7	7	4	21	198 - 1	413	2223	2295	4382
> 7	48	26	36	30	19	20	18	16	11	8	7	11	12	8	11	68	366 - 1	349	3399	3466	4467
> 4	16	11	4	8	13	7	8	4	6	8		6	3	9	5	91	804 - 1	199	4028	4247	4601

HOURS DURATION OF EVENTS

WIND SPEED DURATIONS (Cont'd)

167.5W — **23** — **42.4N 172.1E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	4	1	1														18-1	6	9	11	4332
>48	28	20	8		3		1										42-1	60	114	127	4332
>41	59	38	21	7	3	1	1	2	3								54-3	135	297	313	4332
>34	70	46	35	37	11	12	8	4	1	3	1	2					72-2	230	704	724	4334
>28	90	55	44	50	31	21	13	10	3	8	6	2	1	1		5	138-1	340	1308	1336	4337
>22	91	57	59	51	25	31	20	19	16	11	9	8	9	3	5	11	150-1	405	2057	2154	4352
>17	65	41	49	34	36	31	23	20	17	10	9	6	7	9	9	41	258-1	407	2782	2940	4392
>11	26	25	28	23	25	23	12	14	12	10	13	3	5	8	8	73	324-1	308	3550	3786	4445
>7	10	11	5	11	10	15	7	3	4	7	8	3	2	3	4	83	564-1	186	3958	4254	4529
>4	1	1	1	2	1	1	1	1		4	2					60	1584-1	75	4383	4953	5031

HOURS DURATION OF EVENTS

4333					
53	53	4333			
164	165	4337			
552	557	4338			
1173	1187	4346			
2077	2107	4378			
2938	2997	4421			
3723	3869	4526			
3994	4389	4675			
4354	4856	495*			
T	Te	TH			

24 — **41.0N 134.9W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	8	1	3														18-3	12	19	19	4333
>41	21	13	6	3	1		1										48-1	45	90	90	4333
>34	48	28	20	12	8	4	2	2		1							60-1	125	316	316	4334
>28	59	39	34	21	20	15	8	6	4		2	2	1		1	2	108-1	214	762	764	4336
>22	60	48	35	31	24	17	15	15	13	9	8	4	4	4	1	12	216-1	300	1547	1561	4344
>17	49	27	33	27	20	23	20	7	10	6	12	7	5	6	7	46	324-1	305	2390	2414	4358
>11	39	23	18	11	15	10	11	9	5	5	3	10	4	4	5	78	462-1	250	3330	3557	4485
>7	11	9	3	10	7	3	6	4	4	3	3	3	7	1	3	79	1008-1	156	4095	4374	4766
>4	4	4	3	3	1	1	3	2	1	1		2	1	2		55	1560-1	83	4310	4720	4851

HOURS DURATION OF EVENTS

4333					
4	4	4333			
18	18	4333			
91	91	4333			
358	360	4334			
920	925	4335			
1629	1653	4346			
2846	2895	4368			
3628	3720	4430			
3919	4117	4480			
T	Te	TH			

131.2E — **26** — **39.5N 153.8E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																	18-1	1	3	3	4334
>48	21	7	1														54-1	30	47	49	4335
>41	30	22	6	4	2	1											60-1	66	134	137	4335
>34	61	47	26	11	8	4	2	2	1			1					72-1	163	392	395	4336
>28	87	59	59	29	22	9	7	2	4	5	1	2					72-2	281	843	848	4336
>22	94	77	68	44	42	20	15	10	7	9	7	8	4	1	1	3	168-1	410	1614	1646	4355
>17	71	81	72	49	47	31	27	17	17	17	10	12	8	5	5	11	180-1	480	2415	2463	4369
>11	37	47	34	43	34	28	19	22	19	17	12	12	11	13	11	55	360-1	414	3426	3518	4415
>7	17	14	16	18	8	11	11	6	12	17	5	4	8	7	10	95	492-1	259	3933	4102	4505
>4	2	8	4	3	1	3	2	3	1	4	4	1	2	1	2	71	1854-1	112	4063	4520	4650

HOURS DURATION OF EVENTS

4333					
4333					
13	13	4333			
67	67	4333			
247	247	4333			
690	693	4334			
1410	1415	4348			
2829	2848	4424			
3619	3776	4481			
4377	4618	487*			
T	Te	TH			

27 — **36.2N 127.4W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48		1															12-1	1	2	2	4333
>41	5	3	2	1													24-1	11	21	21	4333
>34	19	10	4	4	1					1	1						66-1	40	94	97	4333
>28	34	20	19	13	10	3	1	1		1	1	1					72-1	104	299	302	4333
>22	42	23	28	26	14	15	10	5	3	3	1	2	3	2	1	2	180-1	180	767	773	4337
>17	60	25	28	27	21	23	16	14	11	6	4	7	4	3	3	15	264-1	266	1515	1531	4349
>11	57	37	37	13	12	17	22	11	22	11	11	6	7	5	5	22	372-1	325	2754	2822	4396
>7	32	14	21	8	8	10	11	12	7	8	6	7	8	5	8	74	690-1	239	3725	3851	4575
>4	14	10	3	5	1	5	2	2	4	1	3	2	5	3	4	75	1116-1	139	4356	4524	4758

HOURS DURATION OF EVENTS

4334					
4334					
11	11	4333			
67	67	4333			
247	247	4333			
690	693	4334			
1410	1415	4348			
2829	2848	4424			
3619	3776	4481			
4377	4618	487*			
T	Te	TH			

123.8W — **29** — **35.9N 171.0W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	2																6-2	2	2	2	4334
>48	16	4	2	1	1												30-1	24	39	39	4334
>41	32	16	6	4	2	1											42-1	62	121	121	4334
>34	57	33	34	10	3	4	1		1	1	2						72-2	146	354	355	4334
>28	76	50	36	40	18	11	12	3	3	3	1	2	1	1	1	1	138-1	259	865	871	4337
>22	84	49	50	34	30	15	14	14	9	12	6	5	4	5		13	240-1	344	1654	1673	4337
>17	82	46	35	30	31	20	20	12	10	11	10	8	11	4	3	33	432-1	366	2409	2462	4339
>11	30	32	25	24	20	17	9	13	15	6	9	7	6	4	5	65	576-1	287	3185	3471	4354
>7	24	17	10	6	11	5	9	4	6	6	3	9	5	3	3	75	966-1	196	3620	4041	4414
>4	2	3	6	3	3	4		2	1	3	2	2	1	1	2	62	1344-1	97	3958	4524	4647

HOURS DURATION OF EVENTS

4331					
4331					
13	13	4333			
67	67	4333			
247	247	4331			
690	693	4334			
1410	1415	4348			
2829	2848	4424			
3619	3776	4481			
4377	4618	487*			
T	Te	TH			

30 — **35.7N 176.1E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	1																6-1	1	1	1	4334
>48	8	5	1														18-1	14	21	21	4334
>41	34	8	5	2	3												30-3	52	88	88	4334
>34	59	38	26	6	8	1	1										42-1	139	290	292	4334
>28	95	65	41	28	17	13	7	3	1	1	3						66-3	274	748	756	4334
>22	106	65	62	38	33	26	24	15	6	6	1	6	6	1	1	9	132-1	405	1656	1692	4334
>17	72	42	49	35	30	20	23	20	25	15	12	7	4	7	4	30	330-1	395	2503	2567	4342
>11	33	22	28	30	11	22	15	11	13	13	6	12	9	3	9	65	576-1	302	3365	3610	4396
>7	10	7	9	6	9	9	10	7	8	4	7	6	8	5	1	76	858-1	182	3721	4151	4474
>4	2	2	3	4	2	1	1	2	1	3	4				3	1	57	1848-1	86	3603	4438	4540

HOURS DURATION OF EVENTS

4334					
4334					
21	21	4334			
88	88	4334			
292	292	4334			
756	756	4334			
1692	1692	4334			
2567	2567	4342			
3610	3610	4396			
4151	4151	4474			
T	Te	TH			

155.2W — **32** — **35.4N 142.0W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	1	3															12-3	4	7	7	4333
>41	15	6	2	1	1												30-1	25	42	42	4333
>34	40	20	6	11	5	3	3										42-3	88	206	206	4333
>28	57	29	28	16	9	11	2	4	4	3		2	1			2	120-1	168	559	559	4333
>22	56	35	20	28	19	18	10	11	10	6	6	3	3	1	3	10	264-1	239	1240	1245	4335
>17	64	31	39	23	23	8	16	11	17	7	10	4	9		6	29	324-1	297	2010	2027	4337
>11	32	17	18	13	23	12	16	13	10	12	6	6	5	3	8	67	636-1	261	3139	3201	4348
>7	22	8	4	9	6	7	2	7	9	6	4	3	4	4	3	79	726-1	177	3593	3917	4444
>4	7	5	2	3	4	3	3	2	4	3	2	3		4		60	912-1	105	3632	4390	4589

HOURS DURATION OF EVENTS

4333					
4333					
18	18	4333			
92	92	4333			
329	329	4333			
757	763	4333			
1484	1497	4333			
2271	2307	4339			
3273	3321	434*			
3739	3957	4403			
3882	4408	4609			
T	Te	TH			

33 — **34.6N 145.9E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	3	1															12-1	4	5	5	4334
>41	10	2	1	1													24-1	14	21	21	4334
>34	30	12	9		2					1							60-1	54	101	102	4334
>28	62	36	17	8	7	2	2	1						1			84-1	136	300	302	4337
>22	102	65	52	28	10	11	8	3	4	1	2				1		90-1	288	793	805	4340
>17	116	90	63	46	37	15	11	9	9	7	5	3	2	2		4	114-1	419	1458	1481	4346
>11	73	58	70	54	54	31	27	18	15	13	12	8	6	10	5	24	282-1	478	2736	2781	4397
>7	33	30	24	31	31	24	26	19	17	13	11	17	7	7	5	68	306-2	363	3571	3700	4436
>4	14	12	9	8	11	8	7	8	3	7	5	8	5	4	3	87	624-1	199	4001	4289	4562

HOURS DURATION OF EVENTS

4334					
4334					
26	26	4334			
155	159	4334			
449	459	4336			
1054	1078	4337			
1912	1947	4347			
3097	3174	4375			
3774	3924	4476			
3964	4434	461*			
T	Te	TH			

155.1E — **35** — **34.2N 163.8E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	5	1		1													24-1	7	11	11	4334
>41	18	3	3	2													24-2	26	41	41	4334
>34	53	26	14	6	3	4											36-4	106	210	211	4334
>28	92	53	28	26	10	10	5	3	3	1		1					72-1	232	604	611	4334
>22	112	87	53	51	21	20	10	14	7	8	5	3	2	1	1	2	138-1	397	1384	1416	4334
>17	76	52	69	53	39	33	21	19	11	10	10	7	6	2	5	20	204-1	433	2267	2327	4338
>11	35	27	31	25	25	30	28	24	19	15	12	10	4	11	8	55	528-1	359	3327	3436	4377
>7	14	7	13	11	6	16	14	10	18	7	9	5	3	4	9	82	816-1	228	3871	4032	4415
>4	3	3	4	2	2	2	2	2	5	2	3	2		2	2	73	1086-1	109	3751	4379	4505

HOURS DURATION OF EVENTS

4333					
4333					
6	6	4333			
26	26	4334			
155	159	4334			
449	459	4336			
1054	1078	4337			
1912	1947	4347			
3097	3174	4375			
3774	3924	4476			
3964	4434	461*			
T	Te	TH			

36 — **33.7N 123.9E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48																					4333
>41	6	2															12-2	8	10	10	4333
>34	23	10	4	4	2												30-2	43	81	81	4333
>28	38	18	15	12	6	8	3			1			1				78-1	102	289	289	4333
>22	67	41	30	25	12	18	9	11	6	3	2			1	1	3	180-1	229	858	861	4334
>17	80	36	44	43	18	26	14	8	10	5	12	5	2		6	14	234-1	323	1646	1667	4338
>11	45	31	34	36	22	31	12	14	13	17	8	10	8	9	4	45	354-2	339	2828	2870	4357
>7	29	9	20	14	13	16	12	15	9	7	14	8	9	3	6	72	888-1	256	3517	3653	4366
>4	16	10	7	7	7	3	9	3	2	10	8	4	3	2	5	77	888-1	173	3702	4004	4388

HOURS DURATION OF EVENTS

4333					
4333					
2	2	4333			
55	55	4333			
248	248	4335			
768	768	4355			
1154	2158	4391			
3350	3395	4458			
3968	4192	4700			
T	Te	TH			

119.4W — **38** — **31.5N 127.7W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	1																6-1	1	1	1	4333
>41	3	2															12-2	5	7	7	4333
>34	8	6	3														18-3	17	29	29	4333
>28	24	11	11	6	1	1	2										42-2	56	128	130	4333
>22	50	19	20	12	15	7	3	2	1		2	1	1		1		90-1	134	421	424	4333
>17	74	33	18	30	19	18	6	10	8	2	4		1	4	3	8	132-1	238	1038	1047	4342
>11	80	36	29	12	25	16	17	18	14	9	14	4	5	5	6	41	312-1	331	2384	2407	4384
>7	58	25	22	14	9	13	14	7	9	8	8	9	7	4	4	75	636-1	286	3523	3556	4473
>4	24	9	9	6	6	4	2	6	9	6	5	5	3	4	3	79	1440-1	180	4083	4403	4742

HOURS DURATION OF EVENTS

4333					
4333					
2	2	4333			
55	55	4333			
248	248	4335			
768	768	4355			
1154	2158	4391			
3350	3395	4458			
3968	4192	4700			
T	Te	TH			

39 — **29.9N 177.3W**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48																					4334
>41	4	1															12-1	5	6	6	4334
>34	23	5	7	1	3	1											36-1	40	79	79	4334
>28	47	22	15	10	7	4	1	2		1					1		84-1	110	282	282	4334
>22	58	40	30	28	14	6	3	6	4	5	2	2	2			6	126-1	208	786	795	4352
>17	75	55	31	35	25	18	14	9	6	11	7	5	1		3	14	282-1	309	1514	1535	4353
>11	81	24	40	33	29	22	15	17	12	15	8	4	7	4	1	47	438-1	359	2744	2812	4377
>7	45	21	16	20	15	16	17	20	9	10	9	7	5	7	2	75	798-1	294	3610	3721	4444
>4	12	4	8	1	4	3	3	6	6	3	6	7	8	5	2	77	1050-1	155	3863	4368	4591

HOURS DURATION OF EVENTS

4333					
4333					
5	5	4333			
22	22	4333			
88	88	4333			
781	781	4333			
778	786	4333			
1527	1548	4335			
2904	2942	4398			
3562	3882	4466			
3988	4339	4615			
T	Te	TH			

165.0W — **41** — **29.4N 134.9E**

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4334
>48	1																6-1	1	1	1	4334
>41	1																6-1	1	1	1	4334
>34	8	1															12-1	9	10	10	4334
>28	23	11	7	1	1												30-1	43	75	75	4334
>22	47	29	15	11	4	5	1		1	2		1					78-1	116	293	293	4334
>17	89	60	39	28	16	5	12	4	5	1	3	1			1	1	120-1	265	799	800	4335
>11	96	55	41	34	34	37	23	14	9	13	11	7	7	7	4	21	198-1	413	2223	2255	4382
>7	48	26	36	30	19	20	18	16	11	8	7	11	12	8	11	68	366-1	349	3399	3466	4467
>4	16	11	4	8	13	7	8	4	6	8		6	3	9	5	91	804-1	199	4028	4247	4601

HOURS DURATION OF EVENTS

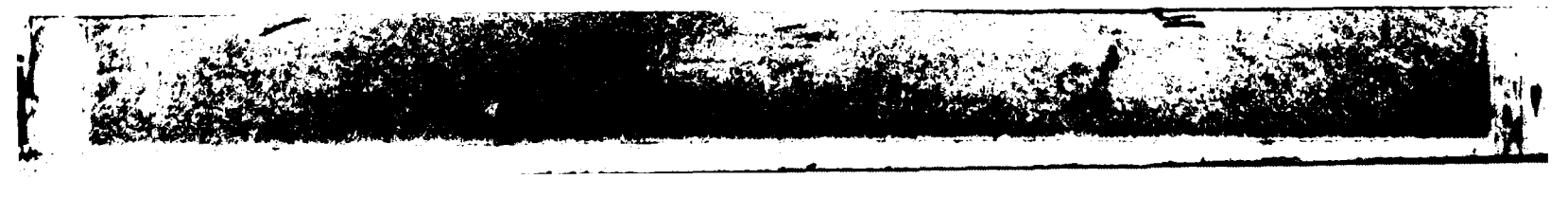
4333					
4333					
5	5	4333			
22	22	4333			
88	88	4333			
781	781	4333			
778	786	4333			
1527	1548	4335			
2904	2942	4398			
3562	3882	4466			
3988	4339	4615			
T	Te	TH			

42 — **28.8N 139.2W**

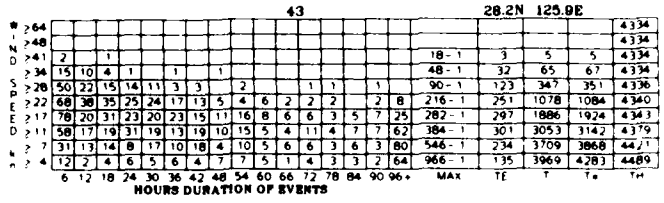
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4333
>48	2																6-2	2	2	2	4333
>41	1	1															12-1	2	3	3	4333
>34	7	3	1	1													24-1	12	20	20	4333
>28	24	10	9	4	2		1		1								54-1	51	113	114	4333
>22	42	23	17	13	10	11	6	2	1	1	1					1	96-1	130	425	428	4337
>17	77	39	18	17	25	13	7	7	1	4	5	5	4	3	3	9	180-1	237	1075	1082	4349
>11	82	25	33	24	15	17	13	14	11	9	13	6	8	7	5	47	396-1	329	2606	2676	4382
>7	34	17	10	9	5	6	11	3	13	11	8	6	6	4	3	73	570-1	218	3721	3822	4518
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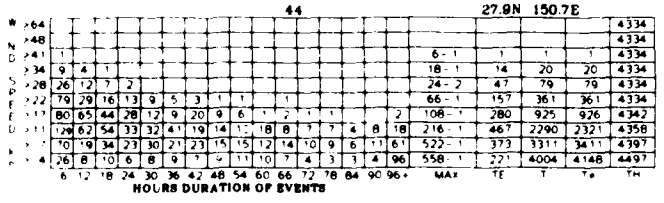
HOURS DURATION OF EVENTS

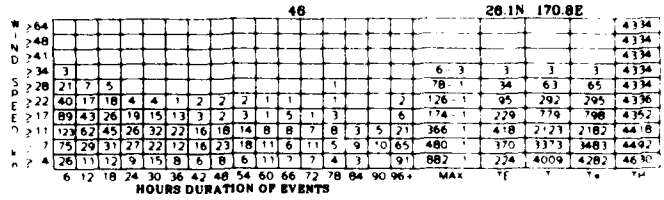
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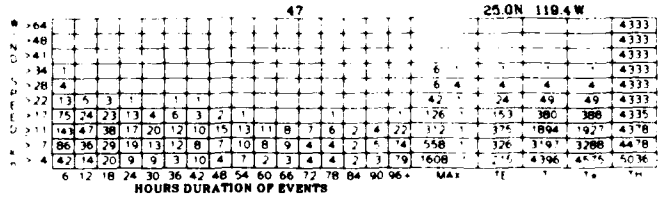


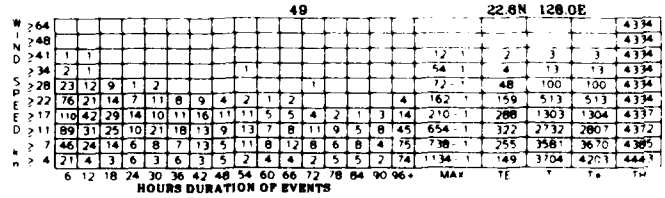
WIND SPEED DURATIONS (Cont'd)

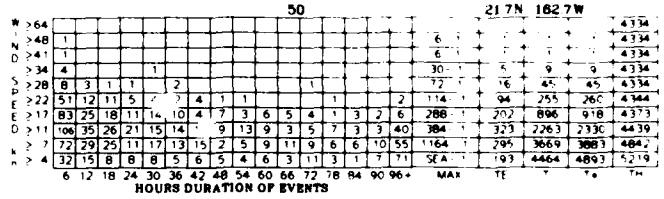


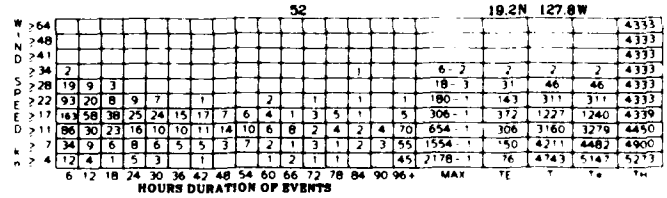


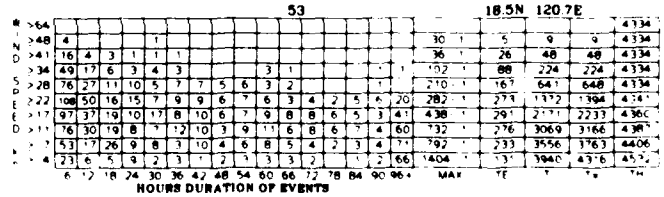


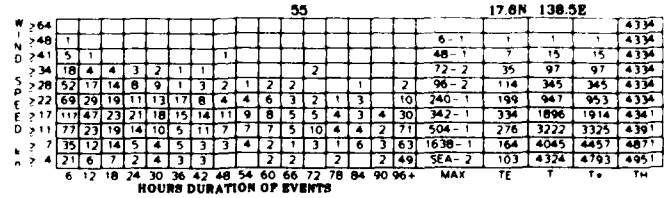


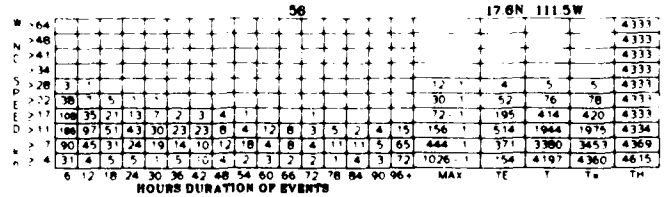


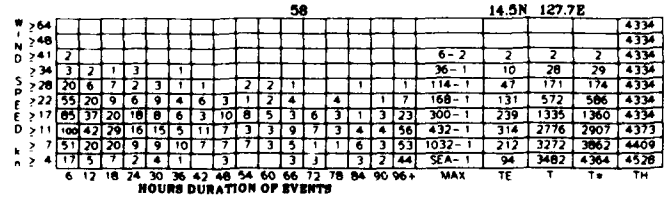


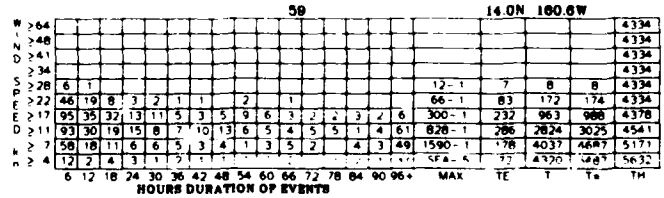


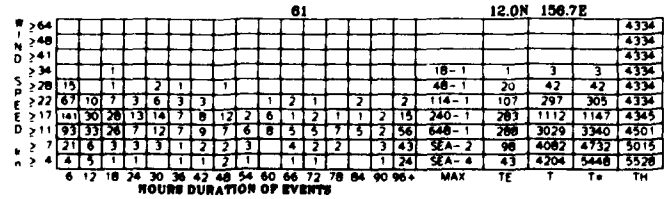


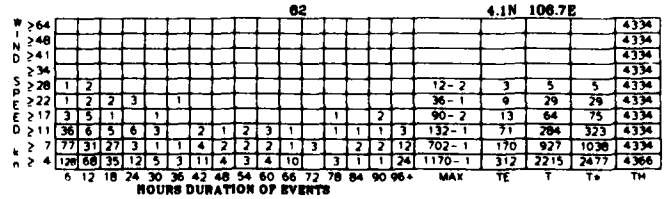












44 27.9N 150.7E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41	1															6-1	1	1	1	4334
≥34	9	4	1													18-1	14	20	20	4334
≥28	26	12	7	2												24-2	47	79	79	4334
≥22	79	29	16	13	9	5	3	1	1		1					66-1	157	361	361	4334
≥17	80	65	44	28	12	9	20	9	6	1	2	1	1		2	108-1	280	925	926	4342
≥11	129	62	54	33	32	41	19	14	13	18	8	7	7	4	8	18	216-1	467	2290	2321	4358
≥7	70	19	34	23	30	21	23	15	15	12	14	10	9	6	11	61	522-1	373	3311	3411	4397
≥4	26	8	10	6	8	9	7	9	11	10	7	4	3	3	4	96	558-1	221	4004	4148	4497

HOURS DURATION OF EVENTS

45 27.8N 145.8W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4333
≥48																				4333
≥41	1															6-1	1	1	1	4333
≥34	5	8	2	1	1											30-1	17	36	36	4333
≥28	28	10	9	6	2	2	2	1								48-1	60	143	143	4333
≥22	58	21	16	17	11	6	5	3		4	1	3	1		1	162-1	147	493	495	4334
≥17	89	49	31	19	18	9	11	10	8	4	5	5	5	1	1	13	168-1	278	1248	1251	4341
≥11	76	32	18	24	15	12	21	16	13	18	8	6	6	3	7	48	366-1	323	2825	2905	4384
≥7	30	18	8	11	9	6	9	5	6	3	15	6	9	4	5	78	942-1	222	3872	4050	4670
≥4	17	8	5	2	4	3	3	2	4	2	3	1	2	1	2	67	1710-1	126	4463	4822	5033

HOURS DURATION OF EVENTS

47 25.0N 119.4W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4333
≥48																				4333
≥41																				4333
≥34	1															6-1	1	1	1	4333
≥28	4															6-4	4	4	4	4333
≥22	13	5	3	1		1	1									42-1	24	49	49	4333
≥17	75	24	23	13	4	6	3	2	1			1			1	126-1	153	380	388	4335
≥11	143	47	38	17	20	12	10	15	13	11	8	7	6	2	4	22	312-1	375	1894	1927	4378
≥7	86	36	29	19	13	12	8	7	10	8	9	4	4	2	5	74	558-1	326	3197	3288	4478
≥4	42	14	20	9	9	3	10	4	7	2	3	4	4	2	3	79	1608-1	215	4396	4575	5036

HOURS DURATION OF EVENTS

48 23.5N 151.8W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41																				4334
≥34	1															6-1	1	1	1	4334
≥28	11	7	2		1											30-1	21	36	36	4334
≥22	34	22	12	8	2	2	3	3	2			2	1	1		84-1	92	282	282	4337
≥17	83	30	25	15	11	7	7	7	6	2	2	4	2	1	2	9	174-1	213	903	916	4348
≥11	91	32	23	16	25	14	10	16	8	8	11	7	4	5	6	41	762-1	317	2517	2607	4464
≥7	60	32	18	9	7	13	14	7	7	5	8	5	8	5	5	76	798-1	279	3688	3925	4710
≥4	18	9	4	4	3	2	4	4	3	4	6	6	5	1	3	72	1146-1	148	4281	4771	5021

HOURS DURATION OF EVENTS

50 21.7N 162.7W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48	1															6-1	1	1	1	4334
≥41	1															6-1	1	1	1	4334
≥34	4			1												30-1	5	9	9	4334
≥28	8	3	1	1		2					1					72-1	16	45	45	4334
≥22	51	12	11	5	4	2	4	1	1			1			2	114-1	94	255	260	4344
≥17	83	25	18	11	14	10	4	7	3	6	5	4	1	3	2	6	288-1	202	896	918	4373
≥11	108	35	26	21	15	14	14	9	13	9	3	5	7	3	3	40	384-1	323	2263	2330	4439
≥7	72	29	25	11	17	13	15	2	5	9	11	9	6	6	10	55	1164-1	295	3669	3883	4842
≥4	32	15	8	8	8	5	6	5	4	6	3	11	3	1	7	71	SEA-1	193	4464	4893	5219

HOURS DURATION OF EVENTS

51 20.5N 177.1W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41																				4334
≥34		1														12-1	1	2	2	4334
≥28	9	2		2				1								60-1	14	31	31	4334
≥22	32	9	3	6	2	3	1		1	1		1	1		1	108-1	61	180	193	4336
≥17	68	28	23	9	7	10	4	1	1	4	3	2	2		2	7	216-1	171	681	696	4356
≥11	107	41	27	23	13	14	9	9	10	8	6	4	3	4	1	44	642-1	323	2322	2389	4567
≥7	79	29	20	14	12	14	12	5	16	6	9	3	6	5	1	55	1032-1	286	3271	3893	4960
≥4	37	13	7	9	6	8	6	4	8	13	3	7	5	4	5	68	SEA-1	203	4536	5002	5395

HOURS DURATION OF EVENTS

53 18.5N 120.7E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48	4			1												30-1	5	9	9	4334
≥41	16	4	3	1	1	1										36-1	26	48	48	4334
≥34	49	17	6	3	4	3				3	1				1	1	107-1	88	224	224	4334
≥28	76	27	11	10	5	7	7	5	6	3	2				1	7	210-1	167	641	648	4334
≥22	108	50	16	15	7	9	9	6	7	6	3	4	2	5	6	20	282-1	273	1372	1394	4341
≥17	97	37	19	10	17	8	10	6	7	9	8	8	6	5	3	41	438-1	291	2171	2233	4360
≥11	76	30	19	8	7	12	10	3	9	11	6	8	6	7	4	60	732-1	276	3069	3166	4387
≥7	53	17	26	9	8	3	10	4	6	8	5	4	2	3	4	71	792-1	233	3556	3763	4406
≥4	23	6	5	9	2	3	1	2	1	3	3	2		1	2	66	1404-1	131	3940	4316	4532

HOURS DURATION OF EVENTS

54 18.2N 168.8E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4333
≥48																				4333
≥41		1	1													18-1	2	5	5	4333
≥34	5		2		1		2									42-2	10	30	30	4333
≥28	15	3	4	3			1	1	1	2		1				72-1	31	101	105	4333
≥22	52	16	19	6	8	2	4	4			1	1		1	1	5	156-1	111	406	413	4349
≥17	99	27	20	16	14	7	8	7	7	6	4	3	3	1		12	240-1	234	1035	1059	4378
≥11	113	49	23	21	15	6	16	9	8	5	9	3	5	2	6	45	840-1	335	2549	2629	4565
≥7	75	33	20	7	10	11	10	7	5	4	4	6	3	7	6	66	1554-1	274	4037	4213	5089
≥4	33	12	15	3	4	5	2	2	3	4	1	1	4	2	6	72	2160-1	169	4921	5438	5723

HOURS DURATION OF EVENTS

56 17.6N 111.5W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4333
≥48																				4333
≥41																				4333
≥34																				4333
≥28	3	1														12-1	4	5	5	4333
≥22	38	7	5	1	1											30-1	52	76	78	4333
≥17	108	35	21	13	7	2	3	4	1			1				72-1	195	414	420	4333
≥11	186	97	51	43	30	23	23	8	4	12	8	3	5	2	4	15	156-1	514	1944	1975	4334
≥7	90	45	31	24	19	14	10	12	18	4	8	4	11	11	5	65	444-1	371	3380	3453	4369
≥4	31	4	5	5	1	5	10	4	2	3	2	2	1	4	3	72	1026-1	154	4197	4360	4615

HOURS DURATION OF EVENTS

57 14.9N 147.9E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48	3															6-3	3	3	3	4334
≥41			1	1												24-1	2	7	7	4334
≥34	4		1		1			1								54-1	7	21	21	4334
≥28	52	5	5	1	1		1			1						66-1	66	104	105	4334
≥22	120	24	24	12	11	5	4	4	2	1	1	2			1	144-1	211	520	523	4334
≥17	164	45	46	21	14	18	18	5	7	4	7	3	6	3	2	10	210-1	373	1406	1417	4352
≥11	120	33	30	16	15	16	16	11	16	7	1	4	8	5	12	56	504-1	376	3177	3261	4479
≥7	49	12	13	5	5	5	3	5	6	2	6	5	4	4	3	65	1200-1	192	3994	4293	4708
≥4	15	8	8	1	4	2		1	2	2	2	1	1	2		45	1926-1	94	4009	4811	4933

HOURS DURATION OF EVENTS

59 14.0N 160.6W

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41																				4334
≥34																				4334
≥28	6	1														12-1	7	8	8	4334
≥22	46	19	8	3	2	1	1		2	1						66-1	83	172	174	4334
≥17	95	35	32	13	11	5	3	5	9	6	3	2	2	3	2	6	300-1	232	963	988	4378
≥11	93	30	19	15	8	7	10	13	6	5	4	5	5	1	4	61	828-1	286	2824	3025	4541
≥7	58	18	11	6	6	5	3	4	1	3	5	2		4	3	49	1590-1	178	4037	4687	5171
≥4	12	2	4	3	1	2	1	1	1	2	1	1	2	1	1	37	SEA-5	72	4320	5487	5632

HOURS DURATION OF EVENTS

60 12.2N 112.6E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41	1															6-1	1	1	1	4334
≥34	8	2	4	1	1											30-1	16	33	33	4334
≥28	13	4	1	3	1	1		1	1	3	1				1	90-1	30	120	131	4334
≥22	41	22	9	13	2	2	2	3	1	2	1	1	1		8	210-1	108	472	486	4334
≥17	101	43	19	8	5	5	4	4	5	6		2	3	1	1	22	408-1	229	1164	1204	4354
≥11	109	41	29	12	17	6	15	4	8	7	3	3	3	2	2	45	702-1	297	2436	2604	4360
≥7	89	24	29	11	9	14	3	2	3	1	4	1	2	2	4	59	1134-1	257	3242	3577	4381
≥4	27	14	17	7	5	9	7	3	4	3	2	1				49	1230-1	148	3960	4092	4378

HOURS DURATION OF EVENTS

62 4.1N 106.7E

WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41																				4334
≥34																				4334
≥28	1	2														12-2	3	5	5	4334
≥22	1	2	2	3		1										36-1	9	29	29	4334
≥17	3	5	1		1							1			2	90-2	13	64	75	4334
≥11	36	6	5	6	3		2	1	2	3	1		1	1	1	3	132-1	71	284	323	4334
≥7	77	31	27	3	1	1	4	2	2	2	1	3		2	2	12	702-1	170	927	1038	4354
≥4	128	68	35	12	5	3	11	4	3	4	10		3	1	1	24	1170-1	312	2215	2477	4366

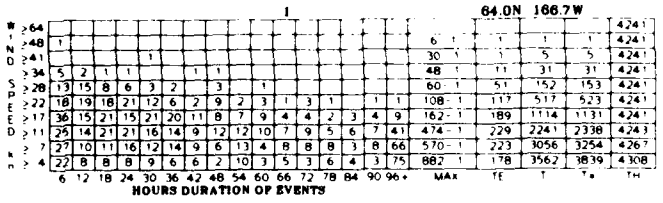
HOURS DURATION OF EVENTS

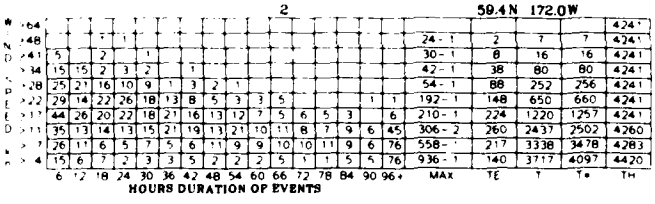
63 2.1N 123.6E

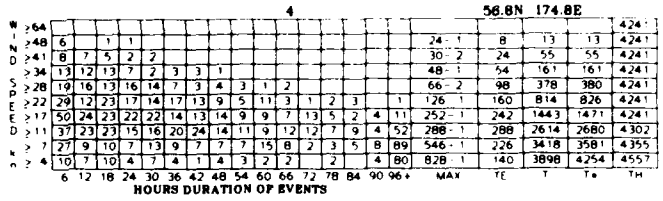
WIND \ SPEED	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60	60-66	66-72	72-78	78-84	84-90	90-96+	MAX	TE	T	Te	TH
≥64																				4334
≥48																				4334
≥41																				4334
≥34																				4334
≥28																				4334
≥22																				4334
≥17																				4334
≥11	1															6-1	1	1	1	4334
≥7	31	10	3													18-3	44	60	66	4334
≥4	214	50	78	10	14	4	13	2	3		3		2	1	4	19	1650-1	417	2410	2423	4695

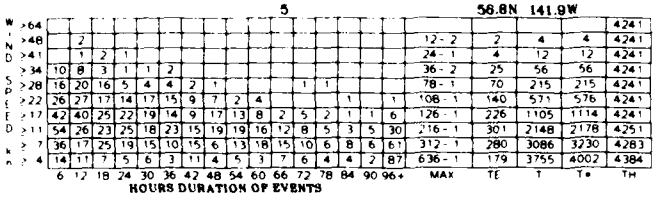
HOURS DURATION OF EVENTS

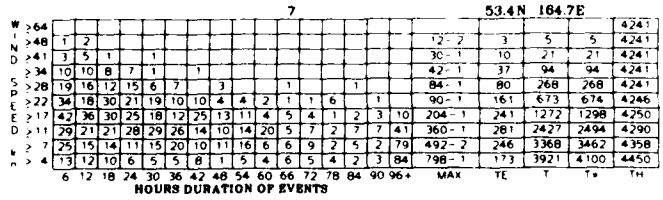
SPRING

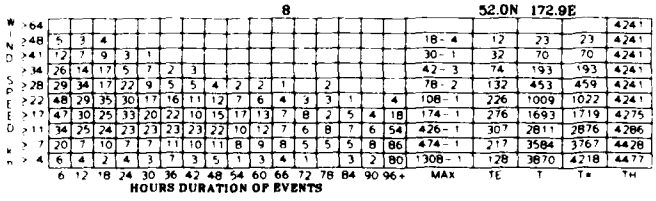

1
64.0N 166.7W
WIND SPEED
HOURS DURATION OF EVENTS

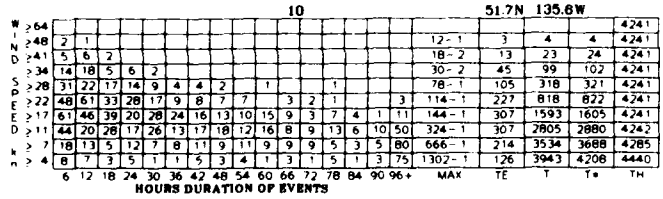

2
59.4N 172.0W
WIND SPEED
HOURS DURATION OF EVENTS

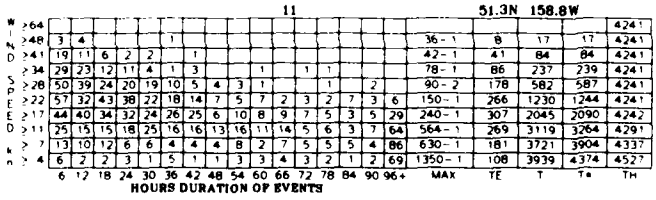

4
56.8N 174.8E
WIND SPEED
HOURS DURATION OF EVENTS

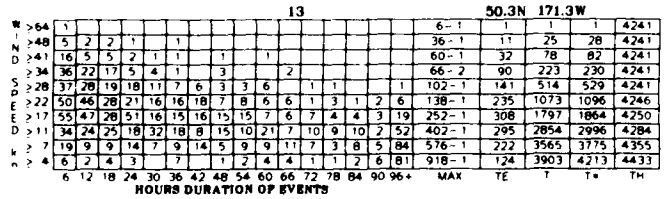

5
56.8N 141.9W
WIND SPEED
HOURS DURATION OF EVENTS

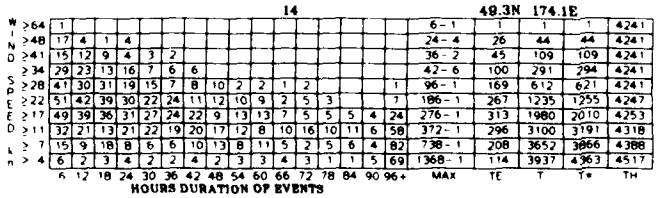

7
53.4N 164.7E
WIND SPEED
HOURS DURATION OF EVENTS

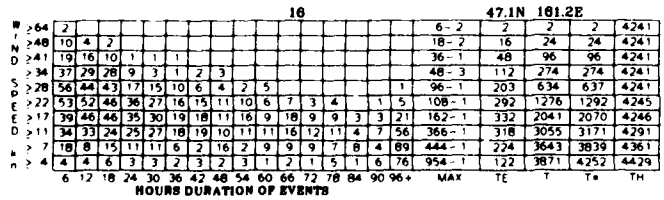

8
52.0N 172.9E
WIND SPEED
HOURS DURATION OF EVENTS

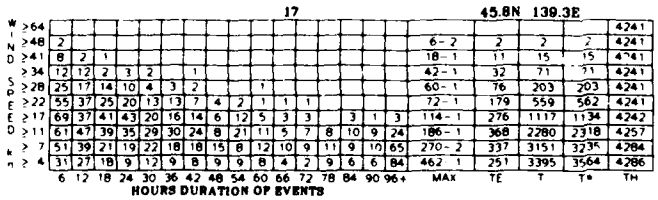

10
51.7N 135.6W
WIND SPEED
HOURS DURATION OF EVENTS

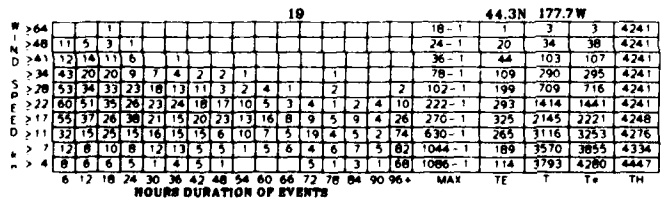

11
51.3N 158.8W
WIND SPEED
HOURS DURATION OF EVENTS

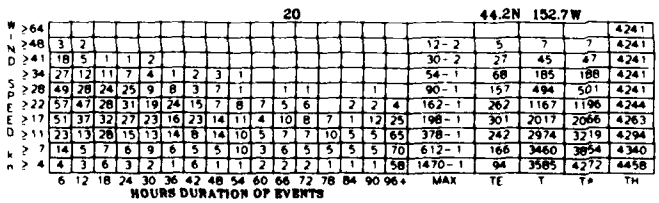

13
50.3N 171.3W
WIND SPEED
HOURS DURATION OF EVENTS


14
49.3N 174.1E
WIND SPEED
HOURS DURATION OF EVENTS

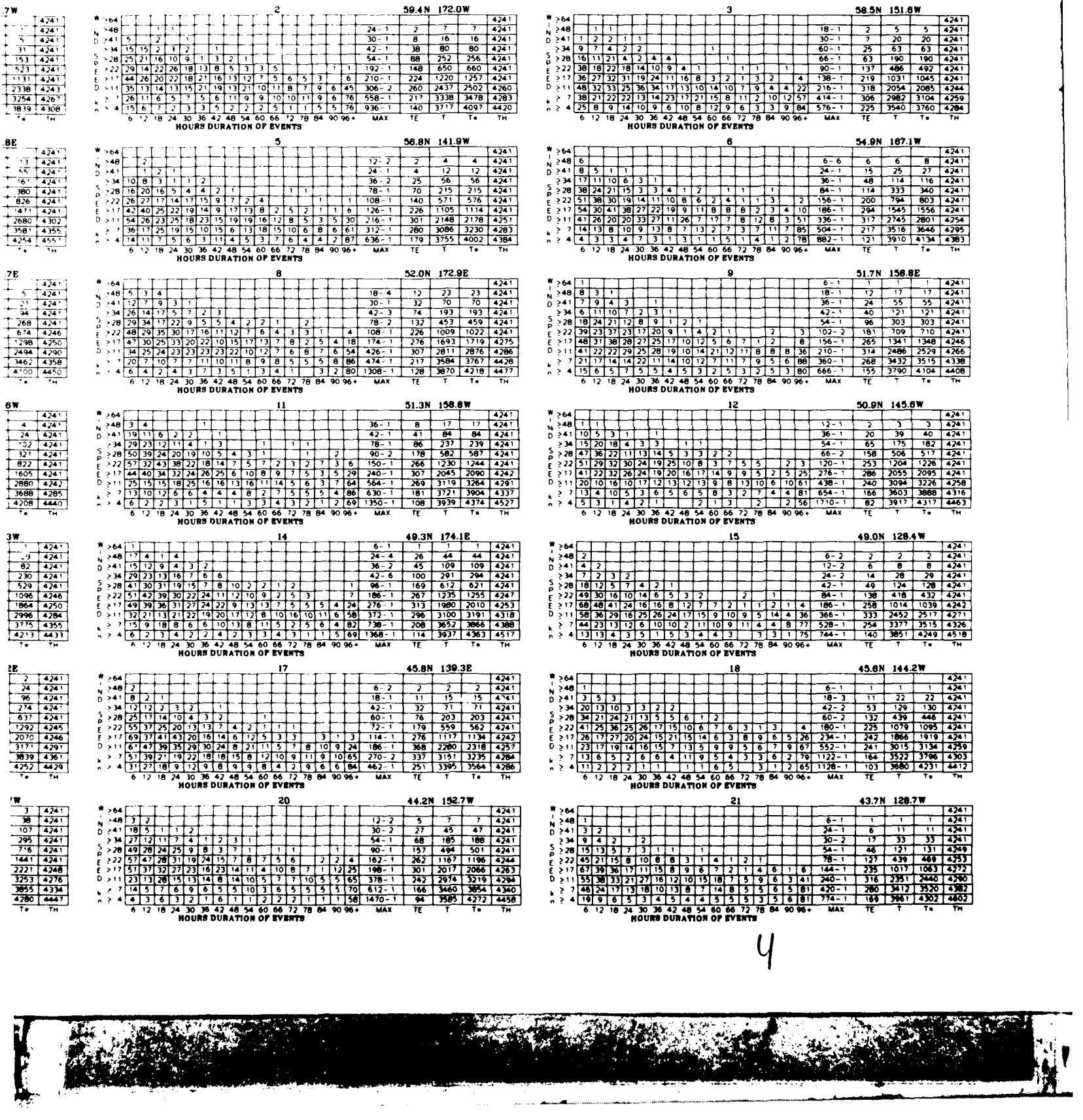

16
47.1N 161.2E
WIND SPEED
HOURS DURATION OF EVENTS


17
45.8N 139.3E
WIND SPEED
HOURS DURATION OF EVENTS


19
44.3N 177.7W
WIND SPEED
HOURS DURATION OF EVENTS


20
44.2N 152.7W
WIND SPEED
HOURS DURATION OF EVENTS

WIND SPEED DURATIONS



WIND SPEED DURATIONS (Cont'd)

22 — 42.8N 167.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48	4		2														18- 2	6	10	10	4241
≥41	14	4	3	2													24- 2	23	39	42	4241
≥34	17	22	10	11	4			1									48- 1	65	163	169	4241
≥28	49	32	27	17	15	8	6	5		1						1	90- 1	161	492	500	4241
≥22	41	37	41	33	21	25	15	6	11	9	3	4	1	1	2	6	150- 1	256	1224	1236	4246
≥17	38	46	30	20	28	20	13	21	16	12	8	4	11	4	4	25	240- 1	300	2083	2127	4257
≥11	25	20	24	26	17	15	10	6	10	6	11	9	4	8	3	71	420- 1	265	3104	3309	4317
≥ 7	10	8	7	8	13	7	8	4	9	5	4	4	6	7	5	75	792- 1	180	3765	4025	4459
≥ 4	4	3	3	2		3	3	1	2	4	1		2	3	3	65	1566- 1	99	4112	4522	4686

HOURS DURATION OF EVENTS

23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1															12- 1	1	2	2	4241
≥48	5	4	1		1	1											36- 1	12	27	27	4241
≥41	11	10	2	1	2						1						72- 1	27	63	63	4241
≥34	36	24	13	5	3	3		1		1					1		90- 1	87	209	213	4241
≥28	49	36	41	21	7	4	4	3	1	1				2		1	150- 1	170	511	516	4241
≥22	53	48	39	44	26	17	25	6	4	1	3	2		1	2	5	162- 1	276	1147	1165	4243
≥17	59	48	39	32	43	26	17	14	14	16	3	5	7	2	3	14	228- 1	342	1862	1910	4247
≥11	27	25	35	27	26	24	17	18	14	13	10	11	6	5	11	55	282- 1	324	2992	3070	4266
≥ 7	20	10	7	10	14	9	10	6	14	12	15	7	3	3	5	89	654- 1	234	3703	3822	4341
≥ 4	5	3	3	4	6		5	4	2	1	5	2	2	5	4	76	1104- 1	127	4127	4322	4512

HOURS DURATION OF EVENTS

25 — 40.2N 131.2E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41			1														18- 1	1	3	3	4241
≥34	1	1		1													24- 1	3	7	7	4241
≥28	15	7			1												30- 1	23	34	34	4241
≥22	24	19	16	7	6	2	1										42- 1	75	187	189	4241
≥17	61	36	16	18	6	12	9			1	2	3			1	1	96- 1	166	510	512	4241
≥11	100	70	53	26	30	21	13	8	6	11	5	4	7	4		9	150- 1	367	1519	1528	4246
≥ 7	95	56	37	31	41	18	23	15	17	15	13	7	9	8	6	34	198- 1	425	2552	2585	4276
≥ 4	72	50	32	28	28	12	9	10	13	13	9	11	5	5	5	64	264- 3	366	2934	2971	4307

HOURS DURATION OF EVENTS

26 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6- 1	1	1	1	4241
≥48	6	1	1	1													24- 1	9	15	16	4241
≥41	7	5	2	3	1												30- 1	18	40	42	4241
≥34	19	15	5	4	2	3											36- 3	48	108	110	4241
≥28	43	28	26	15	7	4	3	1									48- 1	127	325	332	4241
≥22	51	47	47	26	18	17	7	7	3	2	1		1	1			84- 1	228	772	781	4241
≥17	59	59	50	43	27	32	14	15	10	6	5	3	3	4	1	3	126- 1	334	1454	1472	4241
≥11	58	35	39	34	32	20	35	23	16	12	14	8	6	8	7	33	222- 1	380	2593	2648	4247
≥ 7	26	17	20	20	21	21	20	20	9	11	10	10	10	14	9	71	294- 1	309	3435	3518	4298
≥ 4	11	5	9	4	10	11	8	9	2	4	4	4	4	4	4	88	780- 1	181	3856	4111	4402

HOURS DURATION OF EVENTS

28 — 36.1N 123.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1																6- 1	1	1	1	4241
≥34	13	10	1	1													24- 1	25	40	40	4241
≥28	42	21	13	3	6	7	3		2								54- 2	97	246	248	4241
≥22	100	55	31	4	21	18	12	5	7	10	6	3	2	4	4	2	132- 1	284	1102	1113	4251
≥17	90	39	20	13	12	21	17	7	7	11	15	2	5	8	9	37	378- 1	313	2255	2308	4326
≥11	50	19	11	4	7	13	6	1	4	9	3	3	6	2	4	67	756- 1	209	3330	3725	4506
≥ 7	14	14	6	2	2		6		3	2	5	1	4	2	3	57	1362- 1	121	4032	4804	5103
≥ 4	13	3	2	2		1				1		3				39	SEA- 1	64	3752	4914	5021

HOURS DURATION OF EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48			1														18- 1	1	3	3	4241
≥41	2			1													24- 1	3	6	6	4241
≥34	8	6		1	1												30- 1	16	29	29	4241
≥28	21	10	6	5	3	1		2									48- 2	48	116	116	4241
≥22	45	22	21	17	8	2	4	4	3							1	102- 1	127	376	379	4241
≥17	69	34	30	23	24	10	18	8	9	7	4	2			1	3	120- 1	242	977	998	4250
≥11	47	39	37	29	29	26	20	10	17	5	14	6	5	6	2	39	228- 1	331	2307	2365	4260
≥ 7	39	20	24	10	5	18	15	11	11	17	6	14	11	9	8	70	384- 1	288	3311	3441	4289
≥ 4	12	5	7	9	4	4	3	5	3	3	2	6	6	2	3	83	708- 1	157	3676	4041	4340

HOURS DURATION OF EVENTS

31 — 35.6N 155.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	4	1	1														18- 1	6	9	9	4241
≥28	16	8	3	1	3	1	1										48- 1	33	74	75	4241
≥22	39	22	18	7	6	6	1	4	1		1	1	1				78- 1	107	315	320	4241
≥17	60	30	26	21	13	12	8	7	3	5	4		3		1	7	186- 1	200	846	867	4243
≥11	68	33	30	25	21	16	16	15	15	7	5	7	3	9	3	32	372- 1	305	2091	2164	4256
≥ 7	47	19	24	22	13	14	13	12	12	8	6	14	7	9	6	61	522- 1	287	3111	3322	4340
≥ 4	24	10	7	8	9	6	6	9	4	2	7	5	3	2	3	85	750- 1	190	3696	4040	4419

HOURS DURATION OF EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1																6- 1	1	1	1	4241
≥34		3		1													24- 1	4	10	10	4241
≥28	6	1	4	1			1		1								66- 1	14	43	43	4241
≥22	23	13	9	7	7		3		1				1	1			84- 1	65	196	196	4241
≥17	29	25	19	16	5	10	8	4	6	2	2	3				2	138- 1	131	546	565	4241
≥11	65	27	16	21	16	21	12	12	16	15	7	3	5	3	2	19	234- 1	260	1591	1641	4241
≥ 7	66	23	24	10	6	12	13	14	18	12	6	10	9	12	4	55	318- 1	294	2704	2817	4294
≥ 4	40	19	24	4	6	1	3	9	7	11	4	7	9	4	4	84	570- 1	236	3627	3858	4476

HOURS DURATION OF EVENTS

34 — 34.2N 155.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	2																6- 2	2	2	2	4241
≥34	7	3				1											36- 1	11	19	20	4241
≥28	15	12	3	1	1	3	2	1									42- 1	37	86	88	4241
≥22	47	34	28	15	7	3	3	2			1	1					72- 1	141	372	374	4241
≥17	72	37	39	30	28	18	8	14	10	5		3	1	1	1	1	126- 1	268	1038	1053	4241
≥11	55	41	26	28	28	24	19	29	21	8	17	14	8	4	6	22	210- 1	350	2285	2327	4253
≥ 7	31	18	14	10	17	16	23	13	14	15	22	11	10	10	8	71	246- 2	303	3287	3373	4311
≥ 4	15	12	8	7	2	6	4	5	9	4	6	3	11	9	2	100	516- 1	203	3928	4055	4417

HOURS DURATION OF EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48	1																6- 1	1	1	1	4241
≥41	1	1				1											12- 1	2	3	3	4241
≥34	10	1	2				1									1	42- 1	14	25	26	4241
≥28	17	11	8	1		1		1			1				1		66- 1	39	84	85	4241
≥22	48	32	22	19	6	5	2		1	1				1			84- 1	137	361	370	4241
≥17	64	47	40	31	23	17	16	10	3	5	2		3	2	2	1	132- 1	266	1029	1042	4245
≥11	54	35	38	32	31	10	19	31	21	13	14	11	6	11	6	23	180- 1	355	2333	2364	4250
≥ 7	32	22	18	8	12	14	10	16	16	19	14	9	5	12	8	80	360- 1	295	3333	3429	4304
≥ 4	19	10	9	3	4	3	7	2	7	8	5	6	5	6	5	91	792- 1	190	3865	4148	4461

HOURS DURATION OF EVENTS

37 — 32.9N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34			1														18- 1	1	3	3	4241
≥28	32	17	3		1												30- 1	53	80	80	4241
≥22	103	59	24	5	4	13	10		3	2	2						66- 2	225	550	552	4243
≥17	121	70	32	9	19	22	12	5	6	3	9	4	3	7	3	14	228- 1	339	1504	1548	4272
≥11	114	44	23	8	10	13	9	5	1	9	12	4	1	8	7	65	552- 1	333	3126	3349	4418
≥ 7	27	14	10		2	3	6	1	5	3	3	1	1	2	4	57	1668- 1	139	3794	4374	4693
≥ 4	19	4	4		1	2		1	4	1	3				1	42	SEA- 1	82	3957	5035	5185

HOURS DURATION OF EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	1																6- 1	1	1	1	4241
≥28	5	3	2														18- 2	10	17	17	4241
≥22	39	13	4	9	4	7	2	1		1	1						66- 1	81	218	218	4241
≥17	86	31	31	11	16	10	6	7	8	3	7	2	2		1	4	102- 1	225	832	838	4246
≥11	70	27	21	11	19	10	14	9	3	9	9	10	3	6	7	50	648- 1	278	2538	2659	4380
≥ 7	27	16	11	8	12	7	7	6	6	1	3	5	3	3	6	63	822- 1	184	3540	3831	4539
≥ 4	17	8	1	4	2	3	3	2	2	3	3	1	1	1	1	61	2010- 1	113	3938	4528	4793

HOURS DURATION OF EVENTS

40 — 29.6N 165.0W

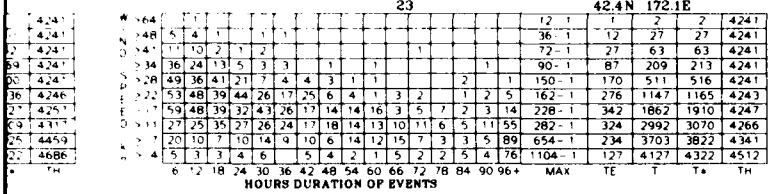
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	1																6- 1	1	1	1	4241
≥28			1			1											36- 1	2	9	9	4241
≥22	26	8	3	3	3		1	1	1								60- 1	46	104	104	4241
≥17	58	18	12	10	6	6	5	4	5			5	1	1	2		174- 1	133	486	491	4241
≥11	100	32	17	17	22	13	15	6	4	5	7	7	3	6	4	27	444- 1	289	1737	1746	4247
≥ 7	71	28	20	16	20	10	11	13	4	8	5	2	2	8	4	72	954- 1	294	3149	3202	4439
≥ 4	29	15	8	7	12	7	5	8	6	8	4	6	2	3	5	78	1134- 1	203	4214	4507	4967

HOURS DURATION OF EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1																6- 1	1	1	1	4241
≥34	2																6- 2	2	2	2	4241
≥28	5	5	1														18- 1	11	18	18	4241
≥22	32	21	14	7	4	1	1	1									48- 1	81	185	185	4241
≥17	46	50	25	17	19	11	5	5	5	1		1	1	1		1	108- 1	188	637	638	4241
≥11	64	42	34	27	23	29	26	15	14	16	6	5	6	7	1	15	162- 1	330	1841	1864	4271
≥ 7	59	34	30	23	16	22	15	26	16	9	13	9	11	7	7	56	348- 1	343	2985	3037	4328
≥ 4	25	11	9	7	6	8	7	7	8	7	12	6	4	7	6	82	1032- 1	212	3890	4102	4591

HOURS DURATION OF EVENTS



23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																	12 - 1	1	2	2	4241
>48	6	4	1			1	1										36 - 1	12	27	27	4241
>41	11	10	2	1	2						1						72 - 1	27	63	63	4241
>34	36	24	13	5	3	3		1		1					1		90 - 1	87	209	213	4241
>28	49	36	41	21	7	4	4	3	1	1				2		1	150 - 1	170	511	516	4241
>22	53	48	39	44	26	17	25	6	4	1	3	2		1	2	5	162 - 1	276	1147	1165	4243
>17	59	48	39	32	43	26	17	14	14	16	3	5	7	2	3	14	228 - 1	342	1862	1910	4247
>11	27	25	35	27	26	24	17	18	14	13	10	11	6	5	11	55	282 - 1	324	2992	3070	4266
> 7	20	10	7	10	14	9	10	6	14	12	15	7	3	3	5	89	654 - 1	234	3703	3822	4341
> 4	5	3	3	4	6		5	4	2	1	5	2	2	5	4	76	1104 - 1	127	4127	4322	4512

HOURS DURATION OF EVENTS

24 — 41.0N 134.9W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48																					4241
>41	1	1															12 - 1	2	3	3	4241
>34	2	6	1	1													24 - 1	10	21	21	4241
>28	22	23	7	4	1	1											36 - 1	58	116	117	4241
>22	36	24	27	12	11	8	1	6	4	1							60 - 1	130	417	432	4241
>17	45	39	36	27	18	18	13	8	8	2	4	5	1		2	4	186 - 1	230	1017	1056	4249
>11	60	25	23	21	23	12	15	13	11	7	7	6	6	8	8	39	336 - 1	284	2220	2381	4262
> 7	33	8	15	15	13	10	16	10	9	6	7	5	3	5	6	79	870 - 1	240	3297	3515	4412
> 4	25	7	5	6	5	4	6	2	3	4	3	5	3	3	1	82	1014 - 1	164	3950	4238	4591

HOURS DURATION OF EVENTS

26 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64	1																6 - 1	1	1	1	4241
>48	6	1	1														24 - 1	9	15	16	4241
>41	7	5	2	3	1												30 - 1	18	40	42	4241
>34	19	15	5	4	2	1											36 - 3	48	108	110	4241
>28	43	28	26	15	7	4	3	1									48 - 1	127	325	332	4241
>22	51	47	47	26	18	17	7	7	3	2	1		1	1			84 - 1	228	772	781	4241
>17	59	59	50	43	27	32	14	15	10	6	5	3	3	4	1	3	126 - 1	334	1454	1472	4241
>11	58	35	39	34	32	20	35	23	16	12	14	8	6	8	7	33	222 - 1	380	2593	2648	4247
> 7	26	17	20	20	21	21	20	20	9	1	10	10	10	14	9	71	294 - 1	309	3435	3518	4298
> 4	11	5	9	4	10	11	8	9	2	4	4	4	4	4	4	88	780 - 1	181	3856	4111	4402

HOURS DURATION OF EVENTS

27 — 36 2N 127.4 W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48	1																6 - 1	1	1	1	4241
>41		1															12 - 1	1	2	2	4241
>34	3			1													24 - 1	4	7	7	4241
>28	25	10	4	6	1	2	3		2								54 - 2	53	137	137	4242
>22	46	25	13	16	9	9	8	4	6	3	4		3	3	1	3	96 - 3	153	658	686	4254
>17	52	37	23	16	19	14	9	10	11	9	6	9	3	4	5	25	252 - 1	252	1654	1697	4259
>11	40	21	13	9	6	7	11	6	3	7	3	4	6	6	3	72	750 - 1	217	3169	3325	4453
> 7	25	5	5	2	4	2	3	1	4	2	2	1	3	2		66	948 - 1	127	3733	4227	4643
> 4	12	2	1	1	3	2		1	1		2		1			40	2022 - 1	66	3961	4968	5135

HOURS DURATION OF EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48				1													18 - 1	1	3	3	4241
>41	2			1													24 - 1	3	6	6	4241
>34	8	6		1	1												30 - 1	16	29	29	4241
>28	21	10	6	5	3	1	2										48 - 2	48	116	116	4241
>22	45	22	21	17	8	2	4	4	3							1	102 - 1	127	376	379	4241
>17	69	34	30	23	24	10	18	8	9	7	4	2			1	3	120 - 1	242	977	998	4250
>11	47	39	37	29	29	26	20	10	17	5	14	6	5	6	2	39	228 - 1	331	2307	2365	4260
> 7	39	20	24	10	5	18	15	11	11	17	6	14	11	9	8	70	384 - 1	288	3311	3441	4289
> 4	12	5	7	9	4	4	3	5	3	3	2	6	6	2	3	83	708 - 1	157	3676	4041	4340

HOURS DURATION OF EVENTS

30 — 35.7N 176.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48	1																6 - 1	1	1	1	4241
>41	1	1		1													24 - 1	3	7	7	4241
>34	5	1	1		1	1											36 - 1	9	21	21	4241
>28	23	14	5	2	1		1	1									48 - 1	47	94	94	4241
>22	44	31	24	14	9	6	6	2	2								54 - 2	138	391	392	4241
>17	83	35	32	35	19	14	15	8	6	6	5	1	2	1		3	138 - 1	265	1014	1018	4245
>11	56	28	28	33	23	28	23	23	16	13	17	10	11	8	6	22	234 - 1	345	2373	2418	4291
> 7	42	16	17	15	13	16	17	11	12	15	16	12	8	8	7	73	474 - 1	298	3293	3463	4351
> 4	21	13	8	2	8	3	7	6	8	4	7	5	4	6	1	86	966 - 1	189	3851	4230	4568

HOURS DURATION OF EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48																					4241
>41	1																6 - 1	1	1	1	4241
>34		3		1													24 - 1	4	10	10	4241
>28	6	1	4	1			1			1							66 - 1	14	43	43	4241
>22	23	13	9	7	7			3		1				1	1		84 - 1	65	196	196	4241
>17	29	25	19	16	5	10	8	4	6	2	2	3				2	138 - 1	131	546	565	4241
>11	65	27	16	21	16	21	12	12	16	15	7	3	5	3	2	19	234 - 1	260	1591	1641	4241
> 7	66	23	24	10	6	12	13	14	18	12	6	10	9	12	4	55	318 - 1	294	2704	2817	4294
> 4	40	19	24	4	6	1	3	9	7	11	4	7	9	4	4	84	570 - 1	236	3627	3858	4476

HOURS DURATION OF EVENTS

33 — 34.6N 145.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48	1																6 - 1	1	1	1	4241
>41	2																6 - 2	2	2	2	4241
>34	5	4	1														18 - 1	10	16	16	4241
>28	27	16	7	2													24 - 2	52	88	88	4241
>22	49	30	38	13	7	5	4		1	1			1				78 - 1	149	400	402	4241
>17	39	45	47	41	24	16	17	8	7	3	3	1				2	126 - 1	253	1012	1024	4246
>11	49	36	36	48	37	23	21	24	16	13	17	4	6	6	4	18	162 - 2	358	2190	2219	4274
> 7	39	27	19	30	25	21	18	15	14	26	3	9	6	14	3	65	246 - 1	334	3140	3226	4290
> 4	17	9	11	12	7	8	13	7	7	8	13	4	8	3	5	86	960 - 1	218	3843	4110	4518

HOURS DURATION OF EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48	1																6 - 1	1	1	1	4241
>41	1	1															12 - 1	2	3	3	4241
>34	10	1	2			1											42 - 1	14	25	26	4241
>28	17	11	8	1		1				1							66 - 1	39	84	85	4241
>22	48	32	22	19	6	5	2		1	1				1			84 - 1	137	361	370	4241
>17	64	47	40	31	23	17	16	10	3	5	2		3	2	2	1	132 - 1	266	1029	1042	4245
>11	54	35	38	32	31	10	19	31	21	13	14	11	6	11	6	23	180 - 1	355	2333	2364	4250
> 7	32	22	18	8	12	14	10	16	16	19	14	9	5	12	8	80	360 - 1	295	3333	3429	4304
> 4	19	10	9	3	4	3	7	2	7	8	5	6	5	6	5	91	792 - 1	190	3865	4148	4461

HOURS DURATION OF EVENTS

36 — 33.7N 123.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4240
>48	1																6 - 1	1	1	1	4240
>41		1															12 - 1	1	2	2	4240
>34	2		1														18 - 1	3	5	5	4240
>28	13	7		1													30 - 1	21	32	32	4240
>22	31	23	14	4	2	4			1								54 - 1	79	178	178	4240
>17	46	40	33	30	12	7	5	5		1	2	2					72 - 2	183	578	578	4245
>11	55	51	51	28	23	39	20	16	10	11	10	6	4	5	1	7	168 - 1	337	1692	1700	4267
> 7	62	39	29	16	19	17	24	15	11	12	10	9	14	7	9	48	360 - 1	341	2736	2785	4297
> 4	46	24	22	15	16	10	10	12	7	7	10	5	7	7	13	73	642 - 1	284	3213	3306	4373

HOURS DURATION OF EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48																					4241
>41																					4241
>34	1																6 - 1	1	1	1	4241
>28	5	3	2														18 - 2	10	17	17	4241
>22	39	13	4	9	4	7	2	1		1	1						66 - 1	81	218	218	4241
>17	66	31	31	11	16	10	6	7	8	3	7	2	2		1	4	102 - 1	225	832	838	4246
>11	70	27	21	11	19	10	14	9	3	9	9	10	3	6	7	50	648 - 1	278	2538	2659	4380
> 7	27	16	11	8	12	7	7	6	6	1	3	5	3	3	6	63	822 - 1	184	3540	3831	4539
> 4	17	8	1	4	2	3	3	2	2	3	3	1	1	1	1	61	2010 - 1	113	3938	4528	4793

HOURS DURATION OF EVENTS

39 — 29.9N 177.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48		1															12 - 1	1	2	2	4241
>41			1														18 - 1	1	3	3	4241
>34	3			1													36 - 1	4	9	9	4241
>28	4	2	1													1	102 - 1	8	28	28	4241
>22	24	4	8	1	4		1	2								1	108 - 1	45	121	121	4241
>17	42	22	20	8	7	4	3	3	2	1		2	3			5	126 - 1	122	465	465	4241
>11	79	43	32	28	22	17	14	12	7	9	5	3	4		4	24	276 - 1	303	1682	1700	4244
> 7	47	25	12	13	16	10	18	15	14	12	14	9	7	3	9	62	600 - 1	286	3035	3087	4355
> 4	37	16	11	8	9	4	6	8	6	3	6	6	8	1	3	85	630 - 1	217	3688	3926	4402

HOURS DURATION OF EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48																					4241
>41	1																6 - 1	1	1	1	4241
>34	2																6 - 2	2	2	2	4241
>28	5	5	1														18 - 1	11	18	18	4241
>22	32	21	14	7	4	1	1	1									48 - 1	81	185	185	4241
>17	46	50	25	17	19	11	5	5	5	1		1	1	1		1	108 - 1	188	637	638	4241
>11	64	42	34	27	23	29	26	15	14	16	6	5	6	7	1	15	162 - 1	330	1841	1864	4271
> 7	59	34	20	23	16	22	15	26	16	9	13	9	11	7	7	56	348 - 1	343	2985	3037	4328
> 4	25	11	9	7	6	8	7	7	8	7	12	6	4	7	6	82	1032 - 1	212	3890	4102	4591

HOURS DURATION OF EVENTS

42 — 28.6N 139.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
>64																					4241
>48																					4241
>41																					4241
>34																					4241
>28		1	1														18 - 1	2	5	5	4241
>22	12	8	1	2	1	1		1								1	48 - 1	26	58	58	4241
>17	63	27	12	5	10	2	4	3	1	2		1	1	1		1	114 - 1	133	374	374	4242
>11	91	36	19	15	20	7	12	11	14	7	8	5	8	5	3	31	348 - 1	292	2023	2053	4326
> 7	55	25	17	9	14	10	6	5	9	4	6	1	3	1	1	70	1050 - 1	236	3320	3495	4445
> 4	28	13	9	6	5	5	5	4	1	4	3	1	2	3	3	65	1428 - 1	157	4001	4360	4712

HOURS DURATION OF EVENTS

2

SPRING

WIND SPEE

43 28.2N 125.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4240
≥48																					4240
≥41																					4240
≥34	2																6 - 2	2	2	2	4240
≥28	5	2	1	1													24 - 1	9	16	16	4240
≥22	21	8	3	9	1	2											36 - 2	44	99	99	4245
≥17	47	30	24	14	16	6	2	2	2	2		1	1			1	96 - 1	148	460	460	4246
≥11	91	49	47	30	26	29	21	12	5	5	6	9	2	1	4	17	162 - 1	354	1701	1705	4261
≥ 7	71	34	26	25	23	16	25	17	19	10	15	13	8	7	7	48	264 - 1	364	2887	2961	4292
≥ 4	40	29	26	14	15	7	10	10	11	11	7	8	4	2	9	86	420 - 2	289	3603	3706	4404

HOURS DURATION OF EVENTS

44 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																	6 - 2	2	2	2	4241
≥28	9		1	1	1												30 - 1	12	21	21	4241
≥22	19	11	5	1		1	1	1		1							60 - 1	40	91	91	4241
≥17	55	24	17	9	7	3	2	2	2	1	2	2		1		1	96 - 1	128	377	378	4241
≥11	98	40	37	27	23	18	14	10	9	9	7	5	3	3	1	14	228 - 1	318	1501	1512	4250
≥ 7	80	30	30	11	29	13	23	14	14	16	12	13	8	10	6	50	258 - 2	359	2786	2842	4268
≥ 4	40	24	21	14	13	8	7	8	6	7	4	6	9	6	7	83	528 - 1	263	3710	3869	4427

HOURS DURATION OF EVENTS

46 26.1N 170.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	3																6 - 3	3	3	3	4243
≥22	16	6	1	3		1	1			1							60 - 1	29	66	66	4241
≥17	40	24	10	8	7	6	5	3	2	2	2	1				1	96 - 1	111	368	368	4241
≥11	91	43	28	24	13	7	14	8	6	6		1	8	4	5	29	192 - 1	287	1606	1608	4259
≥ 7	56	31	23	14	9	8	8	13	10	7	6	6	3	4	6	62	564 - 1	266	2835	2988	4295
≥ 4	32	12	14	12	6	4	5	5	5	5	3	6	9	1	5	74	876 - 1	198	3538	3907	4431

HOURS DURATION OF EVENTS

47 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28					1												24 - 1	1	4	4	4243
≥22	15	1	2		1												30 - 1	19	28	29	4244
≥17	72	26	18	6	8	4	3	2	3		1						66 - 1	143	341	345	4248
≥11	160	60	35	21	17	9	15	7	6	13	9	6	3	5	5	23	336 - 1	394	1841	1909	4258
≥ 7	68	36	16	9	10	11	12	12	8	9	6	4	6	8	4	74	642 - 1	293	3250	3446	4336
≥ 4	21	8	10	2	2	2	4	3	2	1	3	3	1	1	1	61	1350 - 1	125	3832	4492	4744

HOURS DURATION OF EVENTS

49 22.6N 128.0E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	4	1	1			1											36 - 1	7	15	15	4241
≥22	11	5	4	1	2	1			1		1						66 - 1	26	73	73	4241
≥17	48	17	13	7	7	4	1	2	3	1	1		1			2	108 - 1	107	327	327	4246
≥11	131	48	39	13	14	10	13	8	13	7	6	9	5	1	4	11	210 - 1	332	1436	1448	4258
≥ 7	122	45	30	16	19	15	13	16	20	13	11	7	6	7	3	55	402 - 1	398	3018	3054	4350
≥ 4	44	10	17	11	7	6	2	3	4	3	3	2	7	3	1	86	1272 - 1	209	4083	4202	4589

HOURS DURATION OF EVENTS

50 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	7	2	1	1	1												30 - 1	12	23	23	4241
≥22	20	10	5	3	3	2	1		1	4						2	114 - 1	51	186	186	4241
≥17	69	18	12	4	6	11	5	2	4		1		2		2	10	228 - 1	146	637	647	4244
≥11	99	36	25	20	16	16	8	4	6	3	9	3	3	4	3	40	666 - 1	295	2390	2468	4477
≥ 7	83	23	23	6	9	9	4	1	1	2	7	4	1	1	5	66	1854 - 1	245	3756	3978	4791
≥ 4	36	10	11	4	4	6	4	2	5		3	1	3	2	1	60	1866 - 1	152	4238	4571	4883

HOURS DURATION OF EVENTS

52 19.2N 127.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1	1															12 - 1	2	3	3	4241
≥34	2				1												36 - 1	3	8	8	4241
≥28	16	5	1	1	1												36 - 1	24	39	39	4241
≥22	55	8	10	7	2	3	2	2	2	1	1					1	102 - 1	94	243	260	4249
≥17	145	41	41	24	14	9	5	4	4	1	4	4	3	4		5	150 - 1	308	969	993	4253
≥11	108	29	30	14	14	14	11	13	4	6	9	5	8	4	9	54	588 - 1	332	2833	3031	4326
≥ 7	26	11	11	5	3	6	3	4	1	1	3	2	2	2	2	65	1044 - 1	147	3797	4297	4679
≥ 4	11	1	1		2		2		1		1					34	1662 - 1	53	3628	4919	5010

HOURS DURATION OF EVENTS

53 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48	2																6 - 2	2	2	2	4241
≥41	2	1	1														18 - 1	4	7	7	4241
≥34	7		3	1	1												30 - 1	12	25	25	4241
≥28	18	3	4	2		3	1										42 - 1	31	69	69	4241
≥22	31	15	9	1	3	2	3	4	2			1					72 - 1	71	202	202	4241
≥17	90	32	22	7	7	4	7	1	2	3		1	3	2		2	96 - 2	183	523	525	4241
≥11	145	47	33	9	16	6	9	17	11	4	8	2	3	2	3	16	276 - 1	331	1428	1437	4250
≥ 7	186	65	36	30	17	15	12	12	11	11	6	1	4	3	2	45	372 - 1	456	2460	2492	4285
≥ 4	95	39	43	15	18	8	11	8	8	6	8	5	5	9	6	61	738 - 1	347	3460	3629	4417

HOURS DURATION OF EVENTS

55 17.6N 138.5E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4240
≥48																					4240
≥41	1																6 - 1	1	1	1	4240
≥34	3	1	1														18 - 1	5	8	8	4240
≥28	11	2	4	2		1											36 - 1	20	41	41	4240
≥22	45	8	8	2	5	1	3	1	1		1					1	84 - 1	76	187	198	4240
≥17	85	21	22	6	10	7	9	8	5		6	2	1	2	2	2	186 - 1	188	689	709	4242
≥11	108	43	29	21	18	11	6	9	3	9	7	4	4	4	1	35	342 - 1	310	1907	2017	4258
≥ 7	90	32	26	14	15	8	5	3	3	7	5	3	5	7	5	51	612 - 1	279	2782	3139	4286
≥ 4	42	19	21	6	4	5	6	4	2	2	8	3	2	3	4	61	930 - 1	192	3595	4204	4616

HOURS DURATION OF EVENTS

56 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1																6 - 1	1	1	1	4241
≥34	5	1															12 - 1	6	7	7	4241
≥28	5	2				1											42 - 1	8	16	16	4241
≥22	11	5	2		1		1				1						72 - 1	22	60	60	4244
≥17	64	16	7	2	2	2	1	1		1						1	96 - 1	97	188	189	4244
≥11	209	78	48	24	26	19	15	2	5	1	5	1	2	2	2	5	120 - 1	444	1260	1266	4248
≥ 7	133	70	59	21	23	28	22	10	16	8	16	4	8	5	10	46	306 - 1	479	2893	2981	4298
≥ 4	37	21	12	5	12	10	6	4	5	4	8	5	4	9	3	70	924 - 1	215	3631	4007	4394

HOURS DURATION OF EVENTS

58 14.5N 127.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41		1															18 - 1	1	3	3	4241
≥34	1																30 - 1	2	6	6	4241
≥28	8		1		1												36 - 1	10	17	17	4241
≥22	18	4	2	1	2	1		1			1						72 - 1	30	72	72	4241
≥17	36	17	7	5	7	1	1		1	1	1	1				1	102 - 1	80	233	233	4241
≥11	152	49	29	13	15	6	8	5	4	2	4	2	2	3		14	150 - 1	308	1075	1080	4256
≥ 7	182	75	36	25	20	6	18	11	5	8	9	3	5	6	5	36	282 - 2	450	2251	2423	4276
≥ 4	94	43	36	8	17	15	11	8	6	4	10	8	6	3	5	61	762 - 1	335	3242	3552	4320

HOURS DURATION OF EVENTS

59 14.0N 160.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	2	1															18 - 1	3	5	5	4241
≥28	2	1	1	1	1												30 - 1	6	16	16	4241
≥22	22	4	3	2		1	3			2		2					72 - 2	39	118	118	4241
≥17	85	35	16	7	11	5	4	1		2	4	2	4	1	1	8	240 - 1	186	712	718	4250
≥11	81	34	32	16	15	12	5	5	8	13	8	3	6	4	8	52	858 - 1	302	2983	3267	4407
≥ 7	13	6	3	3	3	2	1			2			1	3	1	41	SEA - 1	79	3803	4369	4565
≥ 4	2	1	2				2		1		1					22	SEA - 5	30	4133	5132	5178

HOURS DURATION OF EVENTS

61 12.0N 156.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	1																6 - 1	1	1	1	4241
≥28	7	1					1										48 - 1	9	17	17	4241
≥22	22	12	4	1	1	1	1	1		1						1	102 - 1	45	115	115	4241
≥17	90	21	20	7	9	5	4	3	1	3	1	2	1	1	2	1	210 - 1	171	513	521	4241
≥11	166	41	48	15	15	7	18	13	11	7	4	4	3	3	2	31	636 - 1	391	2205	2326	4259
≥ 7	49	12	8	4	7	11	1	3	6	1	1	3	2	3	2	53	1224 - 1	166	3349	3976	4398
≥ 4	3		1			1	2	1					2	2	2	29	2130 - 1	42	3727	4862	4925

HOURS DURATION OF EVENTS

62 4.1N 108.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28																					4241
≥22																					4241
≥17																					4241
≥11	7	2	2			1											42 - 1	12	24	24	4241
≥ 7	33	12	5	1	1	3	1	3	2	4							54 - 4	64	170	170	4251
≥ 4	98	39	22	12	8	7	5	2	7	1		2			1	1	108 - 1	205	553	554	4255

HOURS DURATION OF EVENTS

WIND SPEED DURATIONS (Cont'd)

125.9E

		4240
		4240
		4240
2	2	4240
16	16	4240
99	99	4245
460	460	4246
1701	1705	4261
2887	2961	4292
3603	3706	4404
T	Te	TH

44 — 27.9N 150.7E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4240
≥34	2																6-2	2	2	2	4241
≥28	9		1	1	1												30-1	12	21	21	4241
≥22	19	11	5	1		1	1	1		1							60-1	40	91	91	4241
≥17	55	24	17	9	7	3	2	2	2	1	2	2			1		96-1	128	377	378	4241
≥11	98	40	37	27	23	18	14	10	9	9	7	5	3	3	1	14	228-1	318	1501	1512	4250
≥ 7	80	30	30	11	29	13	23	14	14	16	12	13	8	10	6	50	258-2	359	2786	2842	4268
≥ 4	40	24	21	14	13	8	7	8	6	7	4	6	9	6	7	83	528-1	263	3710	3869	4427

HOURS DURATION OF EVENTS

45 — 27.8N 145.6W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	1																6-1	1	1	1	4241
≥28	1	1	3														18-3	5	12	12	4241
≥22	19	5	8	2	2			1							1		90-1	38	94	94	4241
≥17	61	27	18	12	9	3	6	2	3	5		2		1	1	2	210-1	152	527	527	4241
≥11	84	32	35	19	10	8	11	7	10	10	5	2	2	5	1	45	450-1	286	2186	2231	4278
≥ 7	48	21	12	3	8	6	9	5	6	6	4	2	6		3	68	882-1	207	3355	3639	4475
≥ 4	22	3	7	3	2	2	2	4	2	7	4	2	4	2		56	1542-1	122	3740	4295	4600

HOURS DURATION OF EVENTS

170.8E

		4241
		4241
		4241
		4241
3	3	4241
66	66	4241
368	368	4241
1606	1608	4259
2835	2988	4295
3538	3907	4431
T	Te	TH

47 — 25.0N 119.4W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28				1													24-1	1	4	4	4243
≥22	15	1	2		1												30-1	19	28	29	4244
≥17	72	26	18	6	8	4	3	2	3		1						66-1	143	341	345	4248
≥11	160	60	35	21	17	9	15	7	6	13	9	6	3	5	5	23	336-1	394	1841	1909	4258
≥ 7	68	36	16	9	10	11	12	12	8	9	6	4	6	8	4	74	642-1	293	3250	3446	4336
≥ 4	21	8	10	2	2	2	4	3	2	1	3	3	1	1	1	61	1350-1	125	3832	4492	4744

HOURS DURATION OF EVENTS

48 — 23.5N 151.8W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	2																6-2	2	2	2	4241
≥22	29	9	4	2	2					1							66-1	47	88	88	4241
≥17	67	26	13	13	4	9	6	4	3	2	2	1	1	1		6	234-1	158	602	608	4242
≥11	103	40	35	11	13	9	15	8	6	1	5	5	6	2	7	47	468-1	313	2441	2605	4350
≥ 7	27	11	9	4	8	1	7	6	2	3	3	2	1	1	3	62	1494-1	150	3663	4380	4907
≥ 4	7	3	1	2	3	4	1	1	2	2		1	3	2		44	2106-1	76	3954	5445	5609

HOURS DURATION OF EVENTS

128.0E

		4241
		4241
		4241
		4241
15	15	4241
73	73	4241
327	327	4246
1436	1448	4258
3018	3054	4350
4083	4202	4589
T	Te	TH

50 — 21.7N 162.7W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	7	2	1	1	1												30-1	12	23	23	4241
≥22	20	10	5	3	3	2	1		1	4						2	114-1	51	186	186	4241
≥17	69	18	12	4	6	11	5	2	4		1		2		2	10	228-1	146	637	647	4244
≥11	99	36	25	20	16	16	8	4	6	3	9	3	3	4	3	40	666-1	295	2390	2468	4277
≥ 7	83	23	23	6	9	9	4	1	1	2	7	4	1	1	5	66	1854-1	245	3756	3978	4791
≥ 4	36	10	11	4	4	6	4	2	5		3	1	3	2	1	60	1866-1	152	4238	4571	4883

HOURS DURATION OF EVENTS

51 — 20.5N 177.1W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28	4	1	1														18-1	6	9	9	4241
≥22	17	9	4	4	1	4	2										42-2	41	106	106	4241
≥17	70	24	10	7	8	7	3	3	5	5	4	1	3		2	3	126-1	155	580	589	4246
≥11	85	30	25	15	11	9	7	5	14	6	11	2	5	1	4	38	996-1	268	2216	2375	4266
≥ 7	38	18	11	7	8	3	6	1	7		3		1	4	3	66	774-1	176	3154	3958	4581
≥ 4	9	7		1	3	1	1		1	4	1		2			41	1776-1	71	3795	4871	5022

HOURS DURATION OF EVENTS

127.8W

		4241
		4241
3	3	4241
9	8	4241
39	39	4241
243	260	4249
969	993	4253
3033	3031	4326
4797	4297	4679
6628	4919	5010
T	Te	TH

53 — 18.5N 120.7E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48	2																6-2	2	2	2	4241
≥41	2	1	1														18-1	4	7	7	4241
≥34	7		3	1	1												30-1	12	25	25	4241
≥28	18	3	4	2		3	1										42-1	31	69	69	4241
≥22	31	15	9	1	3	2	3	4	2			1					72-1	71	202	202	4241
≥17	90	32	22	7	7	4	7	1	2	3		1	3	2		2	96-2	183	523	525	4241
≥11	145	47	33	9	16	6	9	17	11	4	8	2	3	2	3	16	276-1	331	1428	1437	4250
≥ 7	186	65	36	30	17	15	12	12	11	11	6	1	4	3	2	45	372-1	456	2460	2492	4285
≥ 4	95	39	43	15	18	8	11	8	8	8	6	8	5	5	9	61	738-1	347	3460	3629	4417

HOURS DURATION OF EVENTS

54 — 18.2N 168.8E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	2																6-2	2	2	2	4241
≥28	8	1	2	1		1											36-1	13	26	26	4241
≥22	45	10	17	3	6		1	1		1	1	2				1	96-1	88	237	243	4241
≥17	96	35	18	12	10	8	8	4	5		4	2		3	1	10	294-1	216	884	919	4246
≥11	93	25	31	16	8	10	9	8	7	7	8	5	6	4	6	39	1062-1	282	2457	2709	4259
≥ 7	23	12	7	6	1	5	3	1	3	3		2	4	2	1	59	1110-1	132	3282	4165	4616
≥ 4	9	3	2	2	1	2	2	1		2	1		2	1		33	1890-1	61	3913	4923	5048

HOURS DURATION OF EVENTS

38.5E

		4240
		4240
	1	4240
8	8	4240
41	41	4240
187	198	4240
689	709	4242
1907	2017	4258
3782	3139	4286
3995	4204	4616
T	Te	TH

56 — 17.6N 111.5W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	1																6-1	1	1	1	4241
≥34	5	1															12-1	6	7	7	4241
≥28	5	2															42-1	8	16	16	4241
≥22	11	5	2			1			1			1					72-1	22	60	60	4244
≥17	64	16	7	2	2	2	1	1		1						1	96-1	97	188	189	4244
≥11	209	78	48	24	26	19	15	2	5	1	5	1	2	2	2	5	120-1	444	1260	1266	4248
≥ 7	133	70	59	21	23	28	22	10	16	8	16	4	8	5	10	46	306-1	479	2893	2981	4298
≥ 4	37	21	12	5	12	10	6	4	5	4	8	5	4	9	3	70	924-1	215	3631	4007	4394

HOURS DURATION OF EVENTS

57 — 14.9N 147.9E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41	2			1													24-1	3	6	6	4241
≥34	5	1								1							66-1	7	18	18	4241
≥28	15	1	2	1	1		1									1	90-1	22	55	55	4241
≥22	75	13	9	3	3	4	1			1		1				1	114-1	111	229	229	4241
≥17	187	18	34	12	10	4	8	1	2	1	3	3	2			2	168-1	287	679	715	4241
≥11	232	47	45	14	29	12	15	6	10	3	13	2	8	1	7	30	360-2	474	2168	2268	4265
≥ 7	123	36	30	9	14	9	14	5	5	6	12	3	6	4	3	62	732-1	341	3134	3420	4295
≥ 4	36	11	15	5	5	3	3	6	2	3		4	1		1	64	924-2	159	3494	4225	4507

HOURS DURATION OF EVENTS

27.7E

		4241
		4241
3	3	4241
6	6	4241
17	17	4241
72	72	4241
233	233	4241
1075	1080	4256
2451	2423	4276
3542	3552	4320
T	Te	TH

59 — 14.0N 160.6W

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34	2		1														18-1	3	5	5	4241
≥28	2	1	1	1	1												30-1	6	16	16	4241
≥22	22	4	3	2		1	3		2		2						72-2	39	118	118	4241
≥17	85	35	16	7	11	5	4	1		2	4	2	4	1	1	8	240-1	186	712	718	4250
≥11	81	34	32	16	15	12	5	5	8	13	8	3	6	4	8	52	858-1	302	2983	3267	4407
≥ 7	13	6	3	3	3	2	1			2			1	3	1	41	SEA-1	79	3803	4369	4565
≥ 4	2	1	2				2				1					22	SEA-5	30	4133	5132	5178

HOURS DURATION OF EVENTS

60 — 12.2N 112.6E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28																					4241
≥22	2	1	2	1				1							1	1	102-1	7	31	31	4241
≥17	20	8	4	3	1	1			1					1	1		120-1	40	115	115	4241
≥11	99	29	21	12	4	8	4	7	3	3	1		1	2	2	10	384-1	206	850	856	4322
≥ 7	179	61	41	13	13	8	6	6	3	8	4	2	4	4	2	28	486-1	382	2011	2045	4447
≥ 4	158	67	53	19	18	9	9	4	2	8	7	3	2	5	2	45	834-1	411	2791	2862	4492

HOURS DURATION OF EVENTS

36.7E

		4241
		4241
		4241
	1	4241
17	17	4241
115	115	4241
521	521	4241
2326	2326	4259
3976	3976	4398
4862	4862	4925
	Te	TH

62 — 4.1N 106.7E

WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28																					4241
≥22																					4241
≥17																					4241
≥11	7	2	2			1											42-1	12	24	24	4241
≥ 7	33	12	5	1	3	1	3	2	4								54-4	64	170	170	4251
≥ 4	98	39	22	12	8	7	5	2	7	1		2			1	1	108-1	205	553	554	4255

HOURS DURATION OF EVENTS

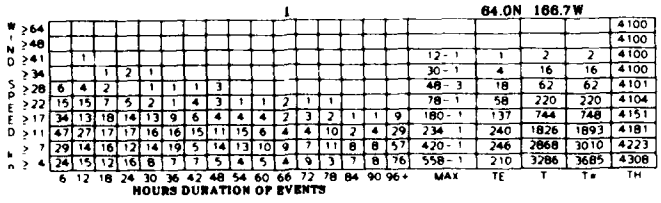
63 — 2.1N 123.6E

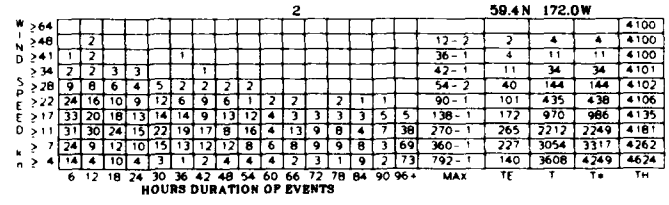
WIND SPEED	DURATION 6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4241
≥48																					4241
≥41																					4241
≥34																					4241
≥28																					4241
≥22																					4241
≥17																					4241
≥11	3	1															12-1	4	5	5	4241
≥ 7	42	4	1		1			1	1		1				1	2	66-1	51	86	86	4241
≥ 4	204	44	60	12	6	6	11	1	1	2	1	1		1	2	14	678-1	366	1329	1385	4242

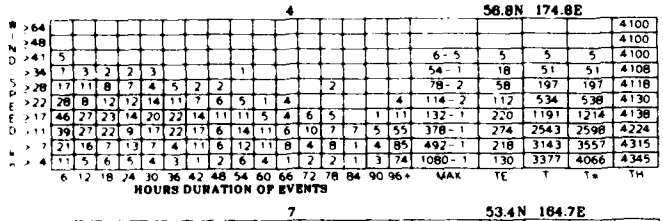
HOURS DURATION OF EVENTS

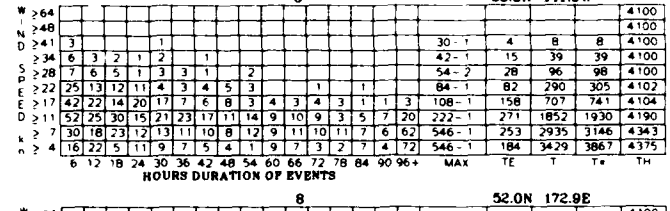
4

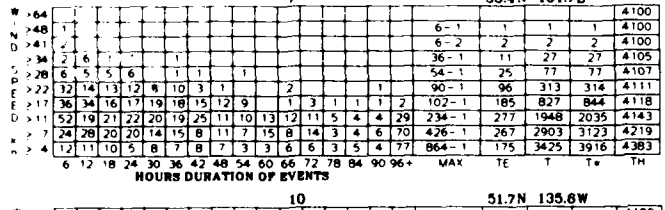
WIND SPEED DURATIONS

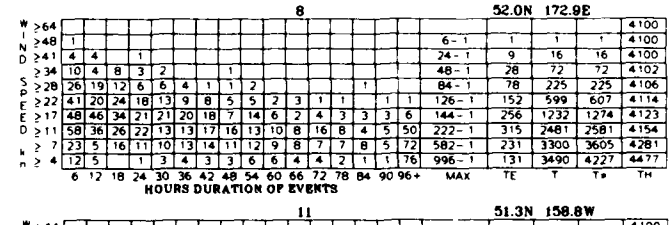


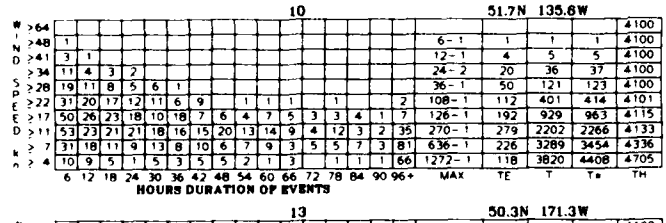


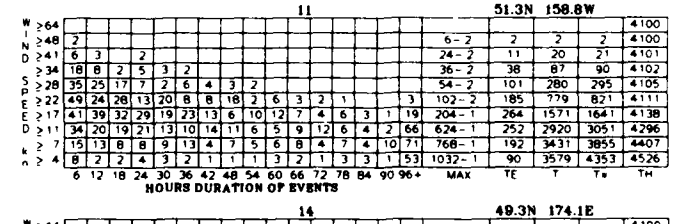


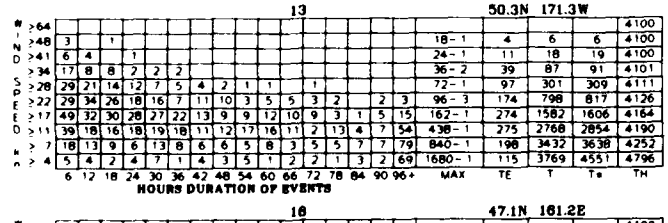


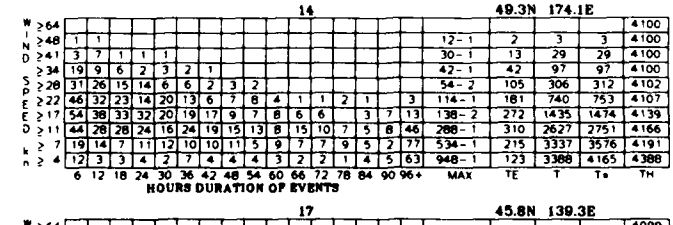


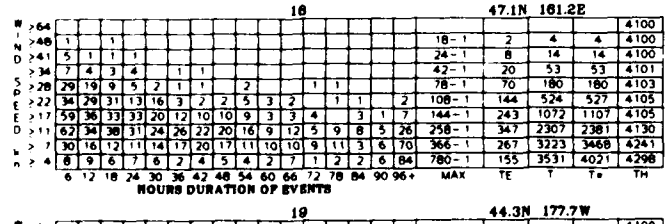


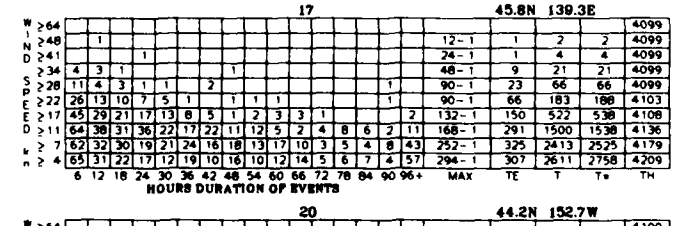


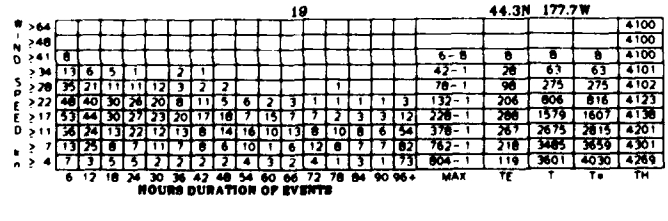


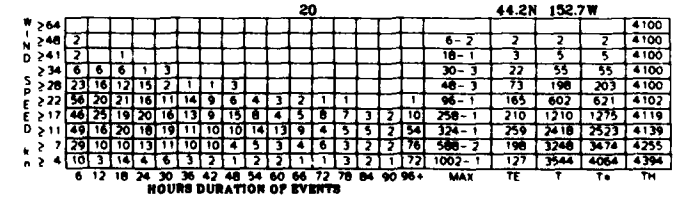












SUMMER

2 — 59.4N 172.0W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48		2															12-2	2	4	4	4100
	≥41	1	2					1										36-1	4	11	11	4100
	≥34	2	2	3	3		1											42-1	11	34	34	4101
	≥28	9	8	6	4	5	2	2	2	2								54-2	40	144	144	4102
	≥22	24	16	10	9	12	6	9	6	1	2	2		2	1	1		90-1	101	435	438	4106
	≥17	33	20	18	13	14	14	9	13	12	4	3	3	3	3	5	5	138-1	172	970	986	4135
	≥11	31	30	24	15	22	19	17	8	16	4	13	9	8	4	7	38	270-1	265	2212	2249	4181
	≥7	24	9	12	10	15	13	12	12	8	6	8	9	9	8	3	69	360-1	227	3054	3317	4262
	≥4	14	4	10	4	3	1	2	4	4	4	2	3	1	9	2	73	792-1	140	3608	4249	4624
TH		4100	4100	4100	4100	4100	4101	4102	4106	4135	4181	4223	4308									

HOURS DURATION OF EVENTS

3 — 58.5N 151.6W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48																					4100
	≥41	1																6-1	1	1	1	4100
	≥34	3	2	2														18-2	7	13	13	4100
	≥28	13	12	6	3	2	3											36-3	39	95	97	4100
	≥22	25	15	20	11	7	4	2	6	4				1				84-1	95	330	332	4103
	≥17	33	26	17	20	17	7	10	12	5	2	4	2	2			4	138-1	156	718	734	4111
	≥11	45	28	24	22	20	18	19	12	10	12	7	12	8	6	2	19	264-1	264	1754	1834	4133
	≥7	42	24	20	12	19	17	9	13	12	16		8	9	6	9	55	276-1	271	2684	2882	4181
	≥4	33	22	13	9	8	15	7	7	5	3	10	6	4	7	10	79	630-1	238	3367	3654	4344
TH		4100	4100	4100	4100	4100	4101	4102	4106	4135	4181	4223	4308									

HOURS DURATION OF EVENTS

5 — 56.8N 141.9W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48																					4100
	≥41	3				1												30-1	4	8	8	4100
	≥34	6	3	2	1	2		1										42-1	15	39	39	4100
	≥28	7	6	5	1	3	3	1		2								54-2	28	96	98	4100
	≥22	25	13	12	11	4	3	4	5	3			1		1			84-1	82	290	305	4102
	≥17	42	22	14	20	17	7	6	8	3	4	3	4	3	1	1	3	108-1	158	707	741	4104
	≥11	52	25	30	15	21	23	17	11	14	9	10	9	3	5	7	20	222-1	271	1852	1930	4190
	≥7	30	18	23	12	13	11	10	8	12	9	11	10	11	7	6	62	546-1	253	2935	3146	4343
	≥4	16	22	5	11	9	7	5	4	1	9	7	3	2	7	4	72	546-1	184	3429	3867	4375
TH		4100	4100	4100	4100	4100	4108	4118	4130	4138	4224	4315	4345									

HOURS DURATION OF EVENTS

6 — 54.9N 167.1W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	2	1															12-1	3	4	4	4100
	≥41	3	2	2														18-2	7	13	13	4100
	≥34	13	6	6	1		3											36-3	29	65	66	4100
	≥28	25	14	13	4	4	4	1	2		1							60-1	68	185	187	4103
	≥22	41	22	25	15	22	9	9	5	2	4	1	1		1	2	1	96-1	160	628	633	4125
	≥17	49	30	26	30	24	21	12	13	5	13	7	4	3	1	3	10	210-1	251	1358	1371	4156
	≥11	29	16	17	15	23	21	16	18	8	12	8	13	11	13	5	43	414-1	268	2637	2716	4222
	≥7	18	12	9	6	8	14	8	2	9	10	7	9	5	4	14	74	636-1	209	3305	3611	4347
	≥4	10	3	6	3		7	3		1	1	1	3	2	2		77	1746-1	119	3808	4377	4635
TH		4100	4100	4100	4100	4100	4101	4103	4111	4156	4222	4347	4635									

HOURS DURATION OF EVENTS

8 — 52.0N 172.9E

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	1																6-1	1	1	1	4100
	≥41	4	4		1													24-1	9	16	16	4100
	≥34	10	4	8	3	2		1										48-1	28	72	72	4102
	≥28	26	19	12	6	6	4	1	1	2					1			84-1	78	225	225	4106
	≥22	41	20	24	18	13	9	8	5	5	2	3	1	1		1	1	126-1	152	599	607	4114
	≥17	48	46	34	21	21	20	18	7	14	6	2	4	3	3	3	6	144-1	256	1232	1274	4123
	≥11	58	36	26	22	13	13	17	16	13	10	8	16	8	4	5	50	222-1	315	2481	2581	4154
	≥7	23	5	16	11	10	13	14	11	12	9	8	7	7	8	5	72	582-1	231	3300	3605	4281
	≥4	12	5		1	3	4	3	3	6	6	4	4	2	1	1	76	996-1	131	3490	4227	4477
TH		4100	4100	4100	4100	4100	4105	4107	4111	4118	4143	4219	4383									

HOURS DURATION OF EVENTS

9 — 51.7N 158.8E

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64	1																				4100
	≥48	1	1															6-1	1	1	1	4100
	≥41	2	3		1													12-1	2	3	3	4100
	≥34	3	4	2	4													24-1	6	12	12	4100
	≥28	13	7	9	2	2	1	1	1									24-4	13	33	33	4100
	≥22	29	26	7	5	10	6	7	1	2			1				1	48-1	36	93	93	4100
	≥17	42	30	24	26	10	16	8	10	14	4	1	3		1		4	96-1	95	311	311	4104
	≥11	33	23	28	30	24	18	22	12	8	13	13	5	7	2	7	29	132-1	193	864	876	4122
	≥7	32	12	18	14	16	13	14	14	9	8	11	9	15	8	2	66	282-1	274	2034	2085	4198
	≥4	21	12	8	7	6	7	11	9	7	4	6	7	4	7	4	74	390-1	261	2908	3104	4235
TH		4100	4100	4100	4100	4100	4101	4102	4106	4114	4123	4154	4281					846-1	194	3376	3946	4467

HOURS DURATION OF EVENTS

11 — 51.3N 158.8W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	2																6-2	2	2	2	4100
	≥41	6	3		2													24-2	11	20	21	4101
	≥34	18	8	2	5	3	2											36-2	38	87	90	4102
	≥28	35	25	17	7	2	6	4	3	2								54-2	101	280	295	4105
	≥22	49	24	28	13	20	8	8	18	2	6	3	2	1			3	102-2	185	779	821	4111
	≥17	41	39	32	29	19	23	13	6	10	12	7	4	6	3	1	19	204-1	264	1571	1641	4138
	≥11	34	20	19	21	13	10	14	11	6	5	9	12	6	4	2	66	624-1	252	2920	3051	4296
	≥7	15	13	8	8	9	13	4	7	5	6	8	4	7	4	10	71	768-1	192	3431	3855	4407
	≥4	8	2	2	4	3	2	1	1	1	3	2	1	3	3	1	53	1032-1	90	3579	4353	4526
TH		4100	4100	4100	4100	4100	4101	4102	4106	4111	4115	4133	4336	4705								

HOURS DURATION OF EVENTS

12 — 50.9N 145.6W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	1																6-1	1	1	1	4100
	≥41	7	2															12-2	9	11	11	4100
	≥34	12	9	3	2	1												30-1	27	52	57	4100
	≥28	24	15	8	9	3	1	5	2				1					72-1	68	198	203	4100
	≥22	50	17	27	15	16	10	10	4	5	1	2	5		2		1	114-1	165	651	659	4108
	≥17	56	38	36	22	16	20	14	16	8	7	9	5	6	9	3	9	138-1	274	1468	1513	4131
	≥11	35	15	11	11	17	8	11	6	6	6	5	2	8	10	5	68	462-1	224	2844	2999	4274
	≥7	17	12	12	3	5	6	7	8	1	7	6	1	3	1	2	67	792-1	158	3123	3786	4354
	≥4	9	7	4	5	3	3	3	3	4	2	3		2	2		50	1686-1	100	3527	4451	4697
TH		4100	4100	4100	4100	4100	4101	4102	4106	4111	4115	4133	4336	4705								

HOURS DURATION OF EVENTS

14 — 49.3N 174.1E

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	1	1															12-1	2	3	3	4100
	≥41	3	7	1	1	1												30-1	13	29	29	4100
	≥34	19	9	6	2	3	2	1										42-1	42	97	97	4100
	≥28	31	26	15	14	6	6	2	3	2								54-2	105	306	312	4102
	≥22	46	32	23	14	20	13	6	7	8	4	1	1	2	1		3	114-1	181	740	753	4107
	≥17	54	38	33	32	20	19	17	9	7	8	6	6		3	7	13	138-2	272	1435	1474	4139
	≥11	44	28	28	24	16	24	19	15	13	8	15	10	7	5	8	46	288-1	310	2627	2751	4166
	≥7	19	14	7	11	12	10	10	11	5	9	7	7	9	5	2	77	534-1	215	3337	3576	4191
	≥4	12	3	3	4	2	7	4	4	4	3	2	2	1	4	5	63	948-1	123	3388	4165	4388
TH		4100	4100	4100	4100	4101	4111	4126	4164	4190	4252	4796										

HOURS DURATION OF EVENTS

15 — 49.0N 128.4W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48																					4100
	≥41																					4100
	≥34	2	2	1														18-1	5	9	9	4100
	≥28	6	7	3	1													24-1	17	33	33	4100
	≥22	19	9	6	6	2	5	1	1		1							60-1	50	144	144	4105
	≥17	52	16	16	9	10	7		5	3	1	1	3		2		1	96-1	126	428	437	4110
	≥11	80	59	31	16	21	16	13	5	8	11	9	4	3	6	2	17	246-1	301	1562	1622	4127
	≥7	54	47	25	13	16	20	19	9	6	10	12	4	5	10	7	49	420-1	306	2804	3025	4177
	≥4	19	21	8	6	12	6	7	7	1	5	4	4	5	3	6	66	852-1	180	3398	3827	4248
TH		4100	4100	4100	4100	4100	4101	4102	4106	4135	4181	4223	4308									

HOURS DURATION OF EVENTS

17 — 45.8N 139.3E

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4099
	≥48		1															12-1	1	2	2	4099
	≥41			1														24-1	1	4	4	4099
	≥34	4	3	1				1										48-1	9	21	21	4099
	≥28	11	4	3	1	1	2									1		90-1	23	66	66	4099
	≥22	26	13	10	7	5	1		1	1	1					1		90-1	66	183	188	4103
	≥17	45	29	21	17	13	8	5	1	2	3	3	1				2	132-1	150	522	538	4108
	≥11	64	38	31	36	22	17	22	11	12	5	2	4	8	6	2	11	168-1	291	1500	1538	4136
	≥7	62	32	30	19	21	24	16	18	13	17	10	3	5	4	8	43	252-1	325	2413	2525	4179
	≥4	65	31	22	17	12	19	10	16	10	12	14	5	6	7	4	57	294-1	307	2611	2758	4209
TH		4100	4100	4100	4101	4103	4105	4105	4130	4241	4298											

HOURS DURATION OF EVENTS

18 — 45.8N 144.2W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48																					4100
	≥41	1																6-1	1	1	1	4100
	≥34	7	7															12-7	14	21	21	4100
	≥28	23	13	5	9	3	1			1								54-1	55	130	133	4100
	≥22	34	22	16	12	13	7	8	2	2	2	1	2	1	2		1	108-1	125	485	501	4106
	≥17	44	17	19	13	18	18	11	9	9	11	4		2	3	4	9	174-1	191	1082	1116	4111
	≥11	47	16	14	11	15	10	13	5	5	6	7	9	8	10	3	51	354-1	230	2352	2481	4135
	≥7	29	7	7	4	8	7	4	6	8	5	5	1	3	3	7	74	786-1	178	3259	3458	4217
	≥4	9	12	4	4	1	3	4		3	1	2		5	1	4	62	1386-1	115	3477	4143	4431
TH		4100	4100	4100	4100	4100	4101	4102	4106	4135	4181	4223	4308									

HOURS DURATION OF EVENTS

20 — 44.2N 152.7W

WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48	2																6-2	2	2	2	4100
	≥41	2		1														18-1	3	5	5	4100
	≥34	6	6	6	1	3												30-3	22	55	55	4100
	≥28	23	16	12	15	2	1	1	3									48-3	73	198	203	4100
	≥22	56	20	21	16	11	14	9	6	4	3	2	1	1			1	96-1	165	602	621	4102
	≥17	46	25	19	20	16	13	9	15	8	4	5	8	7	3	2	10	258-1	210	1210	1275	4119
	≥11	49	16	20	18	19	11	10	10	14	13	9	4	5	5	2	54	324-1	259	2418	2523	4139
	≥7	29	10	10	13	11	10	10	4	5	3	4	6	3	2	2	76	588-2	198	3248	3474	4255
	≥4	10	3	14	4	6	3	2	1	2	2	1	1	3	2	1	72	1002-1	127	3544	4064	4394
TH		4100	4100	4100	4100	4100	4101	4103	4111	4156	4222	4347	4635									

HOURS DURATION OF EVENTS

21 — 43.7N 128.7W

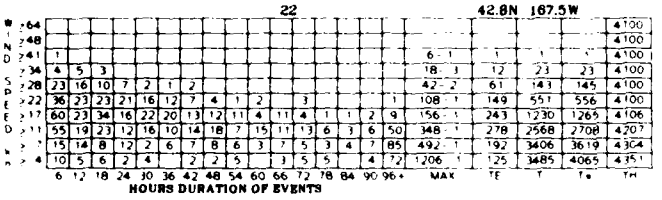
WIND	SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
	≥64																					4100
	≥48																					4100
	≥41	1																6-1	1	1	1	4100
	≥34	3	1		1													24-1	5	9	9	4100
	≥28	9	4			1		2										48-2	16	39	39	4100
	≥22	39	17	10	7	2	1	2		2	5				1		1	96-1	87	259	262	4100
	≥17	63	23	16	12	6	9	15	3	2	3	5	4	1	2		12	156-1	178	833	847	4108
	≥11	76	33	25	14	17	11	15	6	8	8	7	1	3	8	4	38	324-1	276	2024	2140	4131
	≥7	44	14	15	11	9	14	12	7	4	6	12	8	6	3	2	58	540-1	225	2824	3048	4182
	≥4	23	6	8	6	3	4	2	3	10	5	5	2	5	4		57	858-1	143	3200	3959	4367
TH		4100	4100	4100	4100	4100	4101	4102	4106	4135	4181	4223	4308									

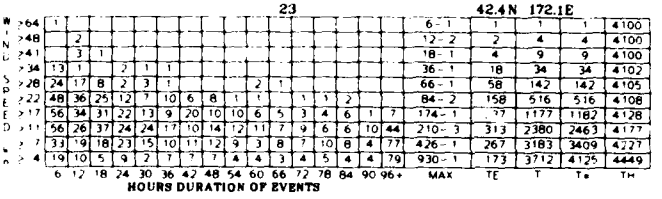
HOURS DURATION OF EVENTS

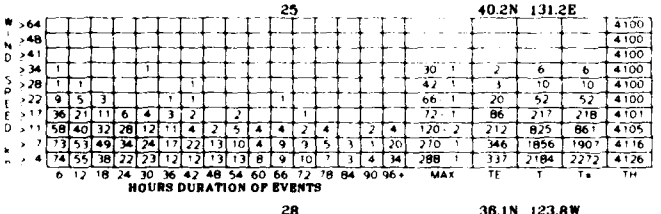
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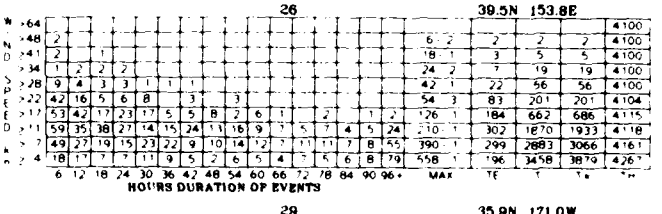
SUMMER

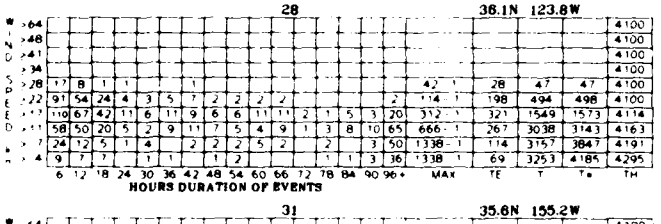
WIND SPEI

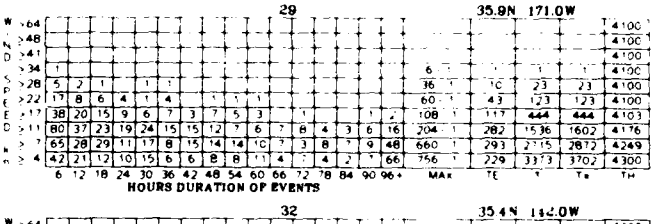


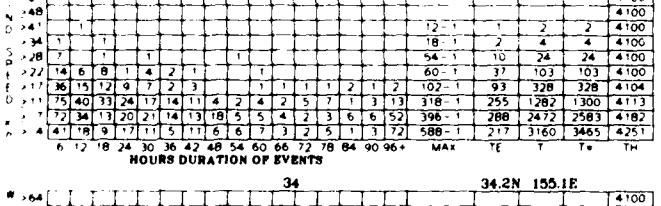


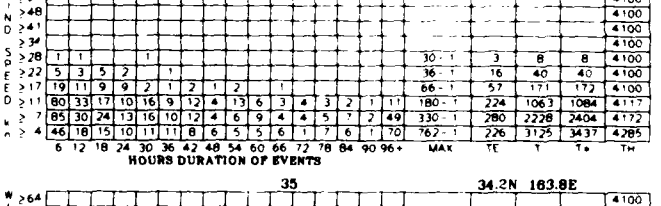


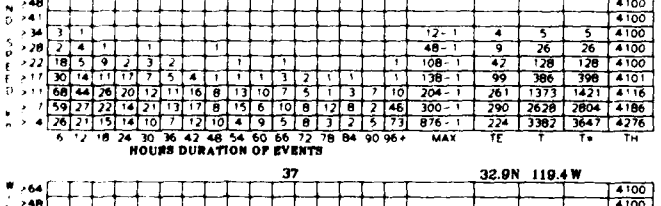


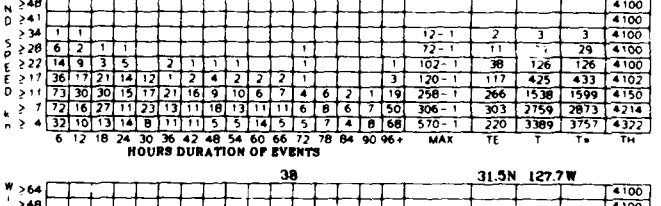


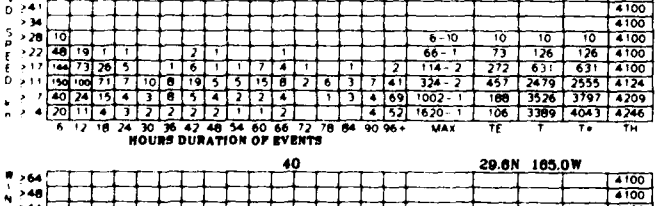


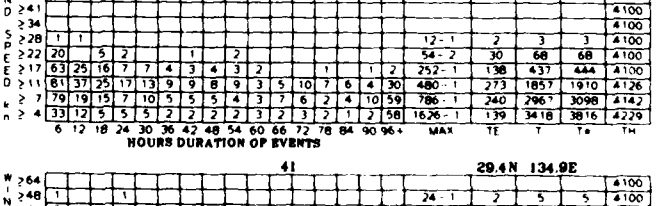


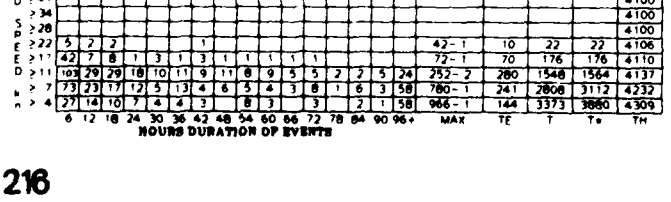


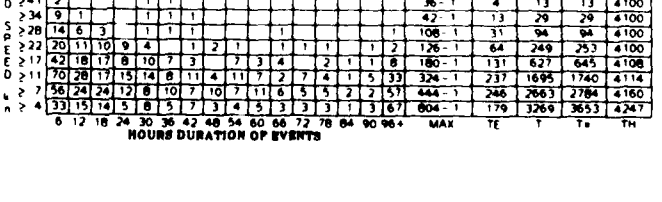












WIND SPEED DURATIONS (Cont'd)

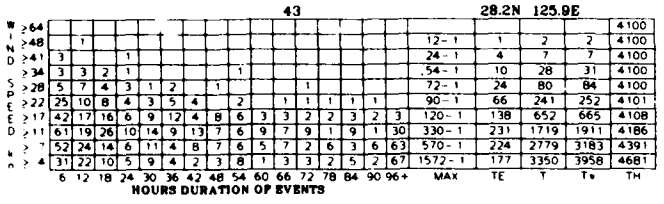
167.5W

		4100
		4100
		4100
		4100
23		4100
145		4100
556		4100
1265		4106
2708		4207
3619		4304
4065		4351
Te		TH

23 — 42.4N 172.1E

| WIND | SPEED | | |

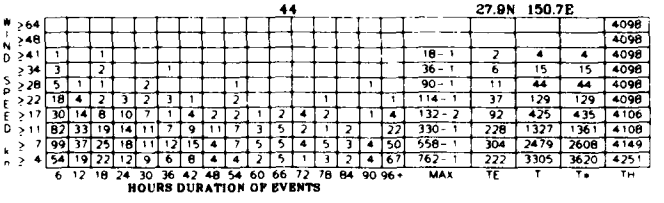
WIND SPEED DURATIONS (Cont'd)



43 28.2N 125.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48		1															12-1	1	2	2	4100
≥41	3			1													24-1	4	7	7	4100
≥34	3	3	2	1				1									54-1	10	28	31	4100
≥28	5	7	4	3	1	2		1			1						72-1	24	80	84	4100
≥22	25	10	8	4	3	5	4		2		1	1	1	1	1		90-1	66	241	252	4101
≥17	42	17	16	6	9	12	4	8	6	3	3	2	2	3	2	3	120-1	138	652	665	4108
≥11	61	19	26	10	14	9	13	7	6	9	7	9	1	9	1	30	330-1	231	1719	1911	4186
≥7	52	24	14	6	11	4	8	7	6	5	7	2	6	3	6	63	570-1	224	2779	3183	4391
≥4	31	22	10	5	9	4	2	3	8	1	3	3	2	5	2	67	1572-1	177	3350	3958	4681

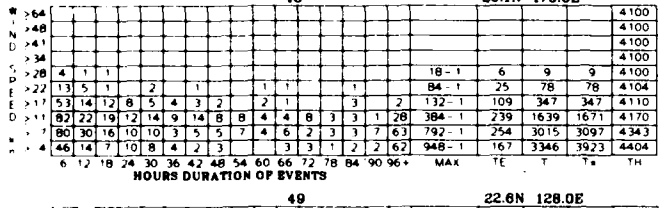
HOURS DURATION OF EVENTS



44 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4098
≥48																					4098
≥41	1		1														18-1	2	4	4	4098
≥34	3		2			1											36-1	6	15	15	4098
≥28	5	1	1		2			1							1		90-1	11	44	44	4098
≥22	18	4	2	3	2	3	1		2				1			1	114-1	37	129	129	4098
≥17	30	14	8	10	7	1	4	2	2	1	2	4	2		1	4	132-2	92	425	435	4106
≥11	82	33	19	14	11	7	9	11	7	3	5	2	1	2		22	330-1	228	1327	1361	4108
≥7	99	37	25	18	11	12	15	4	7	5	5	4	5	3	4	50	558-1	304	2479	2608	4149
≥4	54	19	22	12	9	6	8	4	4	2	5	1	3	2	4	67	762-1	222	3305	3620	4251

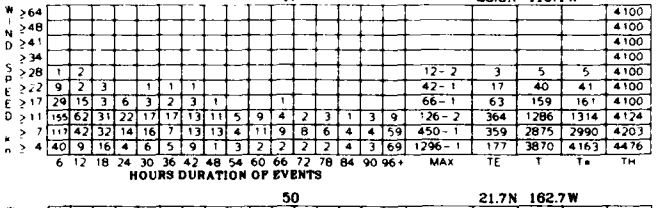
HOURS DURATION OF EVENTS



46 26.1N 170.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28	4	1	1														18-1	6	9	9	4100
≥22	13	5	1		2		1			1	1			1			84-1	25	78	78	4104
≥17	53	14	12	8	5	4	3	2		2	1			3		2	132-1	109	347	347	4110
≥11	82	22	19	12	14	9	14	8	8	4	4	8	3	3	1	28	384-1	239	1639	1671	4170
≥7	80	30	16	10	10	3	5	5	7	4	6	2	3	3	7	63	792-1	254	3015	3097	4343
≥4	46	14	7	10	8	4	2	3			3	3	1	2	2	62	948-1	167	3346	3923	4404

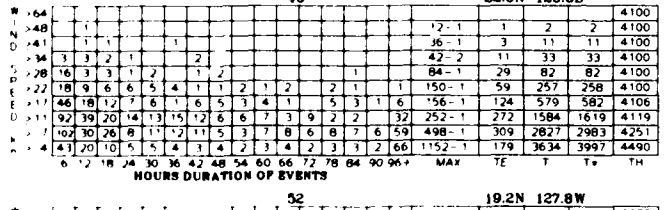
HOURS DURATION OF EVENTS



47 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28	1	2															12-2	3	5	5	4100
≥22	9	2	3			1	1	1									42-1	17	40	41	4100
≥17	29	15	3	6	3	2	3	1				1					66-1	63	159	161	4100
≥11	155	62	31	22	17	17	13	11	5	9	4	2	3	1	3	9	126-2	364	1286	1314	4124
≥7	117	42	32	14	16	7	13	13	4	11	9	8	6	4	4	59	450-1	359	2875	2990	4203
≥4	40	9	16	4	6	5	9	1	3	2	2	2	2	4	3	69	1296-1	177	3870	4163	4476

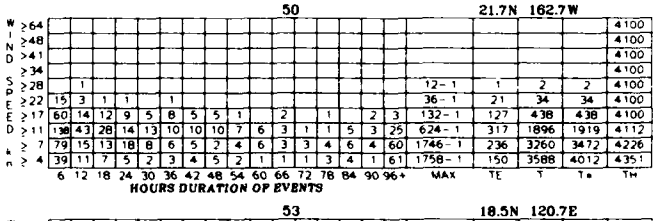
HOURS DURATION OF EVENTS



49 22.6N 128.0E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48		1															12-1	1	2	2	4100
≥41		1	1			1											36-1	3	11	11	4100
≥34	3	3	2	1			2										42-2	11	33	33	4100
≥28	16	3	3	1	2		1	2					1				84-1	29	82	82	4100
≥22	18	9	6	6	5	4	1	1	2	1	2		2	1		1	150-1	59	257	258	4100
≥17	46	18	12	7	6	1	6	5	3	4	1		5	3	1	6	156-1	124	579	582	4106
≥11	92	39	20	14	13	15	12	6	6	7	3	9	2	2		32	252-1	272	1584	1619	4119
≥7	102	30	26	8	11	12	11	5	3	7	8	6	8	7	6	59	498-1	309	2827	2983	4251
≥4	43	20	10	5	5	4	3	4	2	3	4	2	3	3	2	66	1152-1	179	3634	3997	4490

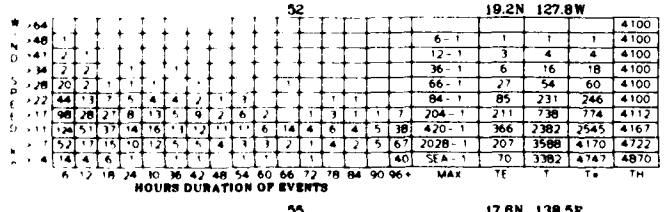
HOURS DURATION OF EVENTS



50 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28		1															12-1	1	2	2	4100
≥22	15	3	1	1		1						2		1		2	36-1	21	34	34	4100
≥17	60	14	12	9	5	8	5	5	1		2		1		2	3	132-1	127	438	438	4100
≥11	138	43	28	14	13	10	10	10	7	6	3	1	1	5	3	25	624-1	317	1896	1919	4112
≥7	79	15	13	18	8	6	5	2	4	6	3	3	4	6	4	60	1746-1	236	3260	3472	4226
≥4	39	11	7	5	2	3	4	5	2	1	1	1	3	4	1	61	1758-1	150	3588	4012	4351

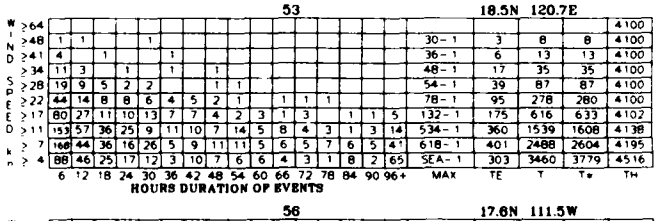
HOURS DURATION OF EVENTS



52 19.2N 127.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																	6-1	1	1	1	4100
≥41																	12-1	3	4	4	4100
≥34																	36-1	6	16	18	4100
≥28																	66-1	27	54	60	4100
≥22																	84-1	85	231	246	4100
≥17																	204-1	211	738	774	4112
≥11																	420-1	366	2382	2545	4167
≥7																	2028-1	207	3588	4170	4722
≥4																	SEA-1	70	3382	4747	4870

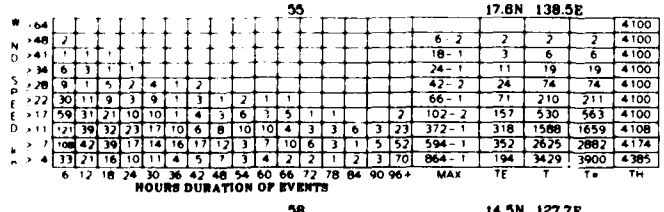
HOURS DURATION OF EVENTS



53 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48	1	1			1												30-1	3	8	8	4100
≥41	4		1			1											36-1	6	13	13	4100
≥34	11	3		1		1	1										48-1	17	35	35	4100
≥28	19	9	5	2	2			1	1								54-1	39	87	87	4100
≥22	44	14	8	8	6	4	5	2	1		1	1	1				78-1	95	278	280	4100
≥17	80	27	11	10	13	7	7	4	2	3	1	3		1	1	5	132-1	175	616	633	4102
≥11	153	57	36	25	9	11	10	7	14	5	8	4	3	1	3	14	534-1	360	1539	1608	4138
≥7	168	44	36	16	26	5	9	11	11	5	6	5	7	6	5	41	618-1	401	2488	2604	4195
≥4	88	46	25	17	12	3	10	7	6	6	4	3	1	8	2	65	SEA-1	303	3460	3779	4516

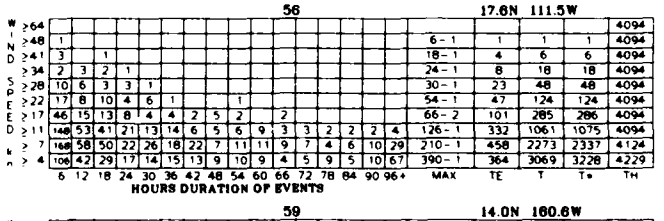
HOURS DURATION OF EVENTS



55 17.6N 138.5E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48	2																6-2	2	2	2	4100
≥41	1	1															18-1	3	6	6	4100
≥34	6	3	1	1													24-1	11	19	19	4100
≥28	9	1	5	2	4	1	2										42-2	24	74	74	4100
≥22	30	11	9	3	9	1	3	1	2	1	1						66-1	71	210	211	4100
≥17	59	31	21	10	10	1	4	3	6	3	5	1	1			2	102-2	157	530	563	4100
≥11	121	39	32	23	17	10	6	8	10	10	4	3	3	6	3	23	372-1	318	1588	1659	4108
≥7	108	42	39	17	14	16	17	12	3	7	10	6	3	1	5	52	594-1	352	2625	2882	4174
≥4	33	21	16	10	11	4	5	7	3	4	2	2	1	2	3	70	864-1	194	3429	3900	4385

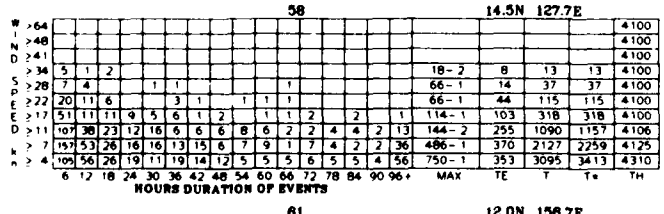
HOURS DURATION OF EVENTS



56 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4094
≥48	1																6-1	1	1	1	4094
≥41	3		1														18-1	4	6	6	4094
≥34	2	3	2	1													24-1	8	18	18	4094
≥28	10	6	3	3	1												30-1	23	48	48	4094
≥22	17	8	10	4	6	1			1								54-1	47	124	124	4094
≥17	46	15	13	8	4	4	2	5	2		2						66-2	101	285	286	4094
≥11	148	53	41	21	13	14	6	5	6	9	3	3	2	2	2	4	126-1	332	1061	1075	4094
≥7	168	58	50	22	26	18	22	7	11	11	9	7	4	6	10	29	210-1	458	2273	2337	4124
≥4	106	42	29	17	14	15	13	9	10	9	4	5	9	5	10	67	390-1	364	3069	3228	4229

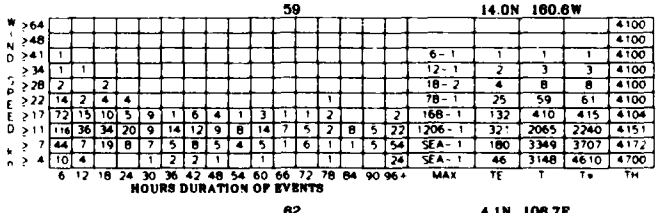
HOURS DURATION OF EVENTS



58 14.5N 127.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34	5	1	2														18-2	8	13	13	4100
≥28	7	4			1	1				1							66-1	14	37	37	4100
≥22	20	11	6			3	1		1	1	1						66-1	44	115	115	4100
≥17	51	11	11	9	5	6	1	2		1		1	2		2	1	114-1	103	318	318	4100
≥11	107	38	23	12	16	6	6	6	8	6	2	2	4	4	2	13	144-2	255	1090	1157	4106
≥7	157	53	26	16	16	13	15	6	7	9	1	7	4	2	2	36	486-1	370	2127	2259	4125
≥4	105	56	26	19	11	19	14	12	5	5	5	6	5	5	4	56	750-1	353	3095	3413	4310

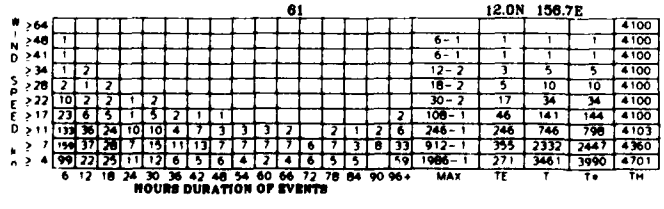
HOURS DURATION OF EVENTS



59 14.0N 160.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48																					4100
≥41	1																6-1	1	1	1	4100
≥34	1	1															12-1	2	3	3	4100
≥28	2		2														18-2	4	8	8	4100
≥22	14	2	4	4									1				78-1	25	59	61	4100
≥17	72	15	10	5	9	1	6	4	1	3	1	1	2			2	168-1	132	410	415	4104
≥11	116	36	34	20	9	14	12	9	8	14	7	5	2	8	5	22	1206-1	327	2065	2240	4151
≥7	44	7	19	8	7	5	8	5	4	5	1	6	1	1	1	54	SEA-1	180	3349	3707	4172
≥4	10	4			1	2	2	1		1			1			24	SEA-1	46	3148	4610	4700

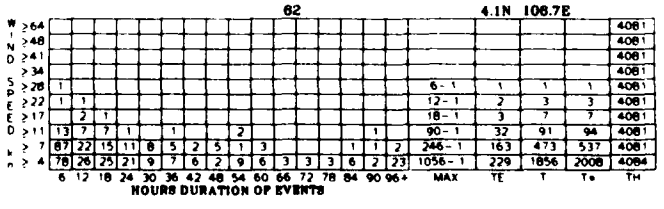
HOURS DURATION OF EVENTS



61 12.0N 156.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4100
≥48	1																6-1	1	1	1	4100
≥41																	6-1	1	1	1	4100
≥34	1	2															12-2	3	5	5	4100
≥28	2	1	2														18-2	5	10	10	4100
≥22	10	2	2	1	2												30-2	17	34	34	4100
≥17	23	6	5	1	5	2	1	1								2	108-1	46	141	144	4100
≥11	133	36	24	10	10	4	7	3	3	3	2		2	1	2	6	248-1	246	746	798	4103
≥7	159	37	28	7	15	11	13	7	7	7	6	7	3	8	33		912-1	355	2332	2447	4360
≥4	99	22	25	11	12	6	5	6	4	2	4	6	5	5		59	1986-1	271	3461	3990	4701

HOURS DURATION OF EVENTS



62 4.1N 106.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																					4081
≥48																					4081
≥41																					4081
≥34																					4081
≥28	1																6-1	1	1	1	4081
≥22	1	1															12-1	2	3	3	4081
≥17		2	1														18-1	3	7	7	4081
≥11	13	7	7	1		1		2							1	1	90-1	32	91	94	4081
≥7	87	22	15	11	8	5	2	5	1	3				1	1	2	246-1	163	473	537	4081
≥4	78	26	25	21	9	7	6	2	9	6	3	3	3	6	2	23	1056-1	229	1856	2008	4084

HOURS DURATION OF EVENTS

44 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4098
≥48																					4098
≥41	1		1														18-1	2	4	4	4098
≥34	3		2			1											36-1	6	15	15	4098
≥28	5	1	1		2				1						1		90-1	11	44	44	4098
≥22	18	4	2	3	2	3	1		2			1				1	114-1	37	129	129	4098
≥17	30	14	8	10	7	1	4	2	2	1	2	4	2		1	4	132-2	92	425	435	4106
≥11	82	33	19	14	11	7	9	11	7	3	5	2	1	2		22	330-1	228	1327	1361	4108
≥7	99	37	25	18	11	12	15	4	7	5	5	4	5	3	4	50	558-1	304	2479	2608	4149
≥4	54	19	22	12	9	6	8	4	4	2	5	1	3	2	4	67	762-1	222	3305	3620	4251

HOURS DURATION OF EVENTS

45 27.8N 145.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28																					4100
≥22	5	1	1		1												30-1	8	15	15	4100
≥17	49	17	6	4	3	4			1			1					72-1	85	177	177	4103
≥11	106	35	21	24	14	10	4	10	9	4	8	2	1	4	6	27	486-1	285	1616	1640	4134
≥7	65	28	14	10	4	3	6	6	6	4	2	3	4	4	3	62	636-1	224	2856	3145	4201
≥4	35	9	6	6	3	2	4	1	1	4	2	2	1		2	47	1386-1	125	2987	3865	4268

HOURS DURATION OF EVENTS

47 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28	1	2															12-2	3	5	5	4100
≥22	9	2	3		1	1	1										42-1	17	40	41	4100
≥17	29	15	3	6	3	2	3	1			1						66-1	63	159	161	4100
≥11	155	62	31	22	17	17	13	11	5	9	4	2	3	1	3	9	126-2	364	1286	1314	4124
≥7	117	42	32	14	16	7	13	13	4	11	9	8	6	4	4	59	450-1	359	2875	2990	4203
≥4	40	9	16	4	6	5	9	1	3	2	2	2	2	4	3	69	1296-1	177	3870	4163	4476

HOURS DURATION OF EVENTS

48 23.5N 151.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28	1																6-1	1	1	1	4100
≥22	9	2															12-2	11	13	13	4100
≥17	45	15	6	4	3	2	2	3		1	2	1		1			84-1	85	232	235	4100
≥11	104	46	25	20	14	11	14	5	9	8	4	7	6	3	6	32	396-1	314	1963	2034	4120
≥7	41	15	8	4	7	6	6	3	2	5	6		2	2	1	46	1272-1	154	2996	3658	4172
≥4	11	10	6	3	1	1	1				1		1	1	2	27	1998-1	65	3102	4322	4471

HOURS DURATION OF EVENTS

50 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28		1															12-1	1	2	2	4100
≥22	15	3	1	1		1					2		1		2	3	36-1	21	34	34	4100
≥17	60	14	12	9	5	8	5	5	1		2		1		2	3	132-1	127	438	438	4100
≥11	138	43	28	14	13	10	10	10	7	6	3	1	1	5	3	25	624-1	317	1896	1919	4112
≥7	79	15	13	18	8	6	5	2	4	6	3	3	4	6	4	60	1746-1	236	3260	3472	4226
≥4	39	11	7	5	2	3	4	5	2	1	1	1	3	4	1	61	1758-1	150	3588	4012	4351

HOURS DURATION OF EVENTS

51 20.5N 177.1W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34																					4100
≥28	1																6-1	1	1	1	4100
≥22	8	1	1														18-1	10	13	13	4100
≥17	55	21	10	4	7	5	1	2								2	132-1	107	272	276	4103
≥11	105	34	34	21	12	16	14	5	7	5	6	10	7	3	4	26	624-1	309	1909	2018	4173
≥7	35	21	12	5	6	5	2	5	2	4	5	4	4	2	3	58	1782-1	173	3184	3652	4337
≥4	18	5	5	1	3	1	2	1	2	1	2		2	1		38	1818-1	82	3660	4445	4646

HOURS DURATION OF EVENTS

53 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48	1	1			1												30-1	3	8	8	4100
≥41	4		1			1											36-1	6	13	13	4100
≥34	11	3		1		1		1									48-1	17	35	35	4100
≥28	19	9	5	2	2			1	1								54-1	39	87	87	4100
≥22	44	14	8	8	6	4	5	2	1		1	1	1				78-1	95	278	280	4100
≥17	80	27	11	10	13	7	7	4	2	3	1	3		1	1	5	132-1	175	616	633	4102
≥11	153	57	36	25	9	11	10	7	14	5	8	4	3	1	3	14	534-1	360	1539	1608	4138
≥7	168	44	36	16	26	5	9	11	11	5	6	5	7	6	5	41	618-1	401	2488	2604	4195
≥4	88	46	25	17	12	3	10	7	6	6	4	3	1	8	2	65	SEA-1	303	3460	3779	4516

HOURS DURATION OF EVENTS

54 18.2N 168.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34	1																6-1	1	1	1	4100
≥28	5	2															12-2	7	9	9	4100
≥22	16	4	7	1	2		2	1									48-1	33	81	82	4100
≥17	72	20	24	7	5	3	3	4	3	1	2		1			1	162-1	146	407	409	4100
≥11	137	39	28	19	21	18	7	6	5	4	3	3	6	3	4	28	486-1	331	1742	1921	4129
≥7	69	22	18	8	5	7	8	8	7	5	4	8	5	2	4	65	774-1	245	3084	3448	4310
≥4	29	6	11	2	6	2	3	1	1	2	1	1	2	1	1	50	SEA-1	119	3603	4293	4558

HOURS DURATION OF EVENTS

56 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4094
≥48	1																6-1	1	1	1	4094
≥41	3		1														18-1	4	6	6	4094
≥34	2	3	2	1													24-1	8	18	18	4094
≥28	10	6	3	3	1												30-1	23	48	48	4094
≥22	17	8	10	4	6	1			1								54-1	47	124	124	4094
≥17	46	15	13	8	4	4	2	5	2		2						66-2	101	285	286	4094
≥11	148	53	41	21	13	14	6	5	6	9	3	3	2	2	2	4	126-1	332	1061	1075	4094
≥7	168	58	50	22	26	18	22	7	11	11	9	7	4	6	10	29	210-1	458	2273	2337	4124
≥4	106	42	29	17	14	15	13	9	10	9	4	5	9	5	10	67	390-1	364	3069	3228	4229

HOURS DURATION OF EVENTS

57 14.9N 147.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6-1	1	1	1	4100
≥48			1														24-1	1	4	4	4100
≥41			1														24-1	1	4	4	4100
≥34	4			1													36-1	5	10	10	4100
≥28	7		1		2	1											48-1	11	32	32	4100
≥22	19	8	8		2		1		1		1			1			84-1	40	103	103	4100
≥17	83	11	11	7	5	3	3	1	1			2	1		1		90-1	129	299	304	4100
≥11	220	48	40	18	21	6	11	5	3	7	5	2	3	2	3	9	216-1	403	1247	1312	4103
≥7	194	36	56	18	25	10	19	10	14	6	8	5	8	3	5	36	384-1	453	2409	2553	4140
≥4	112	20	24	14	17	14	9	4	6	4	9	3	3	8	6	70	666-1	323	3528	3761	4396

HOURS DURATION OF EVENTS

59 14.0N 160.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41	1																6-1	1	1	,	4100
≥34	1	1															12-1	2	3	3	4100
≥28	2		2														18-2	4	8	8	4100
≥22	14	2	4	4							1						78-1	25	59	61	4100
≥17	72	15	10	5	9	1	6	4	1	3	1	1	2			2	168-1	132	410	415	4104
≥11	116	36	34	20	9	14	12	9	8	14	7	5	2	8	5	22	1206-1	321	2065	2240	4151
≥7	44	7	19	8	7	5	8	5	4	5	1	6	1	1	5	54	SEA-1	180	3349	3707	4172
≥4	10	4			1	2	2	1		1			1			24	SEA-1	46	3148	4610	4700

HOURS DURATION OF EVENTS

60 12.2N 112.6E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4100
≥48																					4100
≥41																					4100
≥34		1											1				12-1	1	2	2	4100
≥28	7	1			1												30-1	9	14	14	4100
≥22	23	9	5	5	1	1		1	1				1		1		90-1	48	132	132	4100
≥17	53	20	17	11	11	7	1	4		2	1	1	1		1	6	156-1	136	519	519	4100
≥11	114	49	24	11	10	8	3	4	3	8	4	5	3	3	3	22	666-1	274	1529	1583	4103
≥7	79	27	18	13	4	10	2	4	2	5	2	2	6	2	3	38	942-1	217	2217	2568	4111
≥4	69	37	26	13	4	7	2	7	4	4	4	4	3	1	5	36	954-1	226	2509	3005	4131

HOURS DURATION OF EVENTS

62 4.1N 106.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4081
≥48																					4081
≥41																					4081
≥34																					4081
≥28	1																6-1	1	1	1	4081
≥22	1	1															12-1	2	3	3	4081
≥17		2	1														18-1	3	7	7	4081
≥11	13	7	7	1		1			2					1			90-1	32	91	94	4081
≥7	87	22	15	11	8	5	2	5	1	3				1	1	2	246-1	163	473	537	4081
≥4	78	26	25	21	9	7	6	2	9	6	3	3	3	6	2	23	1056-1	229	1856	2008	4084

HOURS DURATION OF EVENTS

63 2.1N 123.6E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4089
≥48																					4089
≥41																					4089
≥34																					4089
≥28																					4089
≥22																					4089
≥17																					4089
≥11	8	1			2												30-2	11	20	22	4089
≥7	34	8	7						1						1		90-1	51	96	109	4089
≥4	66	23	10	4	5	1	1									1	156-1	111	222	235	4089

HOURS DURATION OF EVENTS

FALL

1 — 64.0N 166.7W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1															12 - 1	1	2	2	4545
≥48	4	2	1														18 - 1	7	11	11	4545
≥41	19	13	11	3	1	3											36 - 3	50	113	113	4545
≥34	33	21	20	14	7	7	3	3	1	2		1			1	1	114 - 1	114	388	401	4563
≥28	42	31	22	26	10	16	13	5	7	5	2	2	2		2	8	162 - 1	193	921	955	4564
≥22	42	33	30	32	17	25	12	9	14	7	4	7	7	1	3	21	222 - 1	264	1673	1819	4590
≥17	29	28	19	24	24	18	11	11	18	8	11	8	7	12	2	39	384 - 1	269	2420	2652	4606
≥11	18	14	14	14	13	16	10	11	11	11	10	6	8	8	13	68	906 - 1	245	3484	3853	4823
≥ 7	21	3	5	7	13	6	10	8	2	3	10	6	1	4	3	78	1848 - 1	180	3683	4458	4908
≥ 4	11	3	1	4	4	4	6	2	4	2	2	4	2	3	1	58	SEA - 1	111	3252	4755	4933

HOURS DURATION OF EVENTS

2 — 59.4N 172.0W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1															12 - 1	1	2	2	4545
≥48	7	5	7														18 - 7	19	38	39	4545
≥41	17	21	10	8	5	2											36 - 2	63	158	160	4545
≥34	49	33	26	10	14	9	3	3	3		1						72 - 1	151	441	444	4546
≥28	53	31	37	25	25	26	8	5	2	6	3	2		2	1	5	132 - 1	231	980	996	4547
≥22	48	31	31	30	23	21	26	14	14	13	7	5	4	3	4	19	246 - 1	293	1815	1842	4582
≥17	53	25	30	29	28	13	19	22	16	14	9	10	6	6	4	44	282 - 1	328	2594	2739	4609
≥11	13	14	18	21	11	15	14	8	16	13	13	6	6	5	10	73	540 - 1	256	3477	3873	4719
≥ 7	12	6	7	6	9	2	8	4	5	5	5	6	2	5	7	83	1014 - 1	172	3858	4439	4780
≥ 4	8	2	1	2	2	1	1	2	4	1			1			55	1584 - 1	80	3742	4908	5015

HOURS DURATION OF EVENTS

4 — 56.8N 174.8E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	2	1															12 - 1	3	4	4	4545
≥48	18	14	7	3	1		1										48 - 1	44	92	95	4545
≥41	34	19	17	8	8	2	1	2			1	1					72 - 1	93	253	256	4549
≥34	46	33	30	22	16	10	5	4	1	2		3	1	1		1	96 - 1	175	605	621	4555
≥28	59	37	37	35	35	19	12	12	3	5	2	4	1	2	1	6	156 - 1	270	1176	1210	4567
≥22	45	30	38	32	36	27	24	18	16	14	9	2	3	3	1	24	198 - 2	322	2021	2096	4580
≥17	30	29	26	25	29	25	24	22	15	19	8	11	8	7	3	47	474 - 1	328	2875	2985	4667
≥11	29	16	18	6	16	12	17	16	11	8	11	10	5	6	4	84	486 - 2	269	3660	3973	4741
≥ 7	14	6	4	5	6	7	3	5	9	8	2	7	4	2	3	80	654 - 1	165	3741	4487	4800
≥ 4	4		3		2	2	3	2	2	2		3	1	4	1	53	2022 - 1	82	3997	5034	5143

HOURS DURATION OF EVENTS

5 — 56.8N 141.9W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	9	4	4														18 - 4	17	29	29	4545
≥41	22	18	8	8	1		1										48 - 1	58	127	127	4545
≥34	37	35	17	14	9	8	3	1	1	2							60 - 2	127	365	365	4546
≥28	57	44	27	24	16	12	10	10	6	4	1		1	2			84 - 2	214	770	774	4547
≥22	66	43	50	23	25	20	25	11	15	9	6	5	4	2		9	150 - 1	313	1525	1540	4557
≥17	48	50	36	26	34	22	14	25	15	11	5	6	1	10	3	33	234 - 1	343	2308	2348	4572
≥11	30	31	32	25	18	20	21	16	15	15	15	11	1	2	2	63	450 - 1	331	3281	3419	4598
≥ 7	18	13	16	12	11	4	5	3	11	13	9	8	5	6	5	89	546 - 1	228	3772	4134	4654
≥ 4	5	5	4	7	4	2	3	4	4	2	4	4		1	5	75	912 - 1	129	4053	4744	4932

HOURS DURATION OF EVENTS

7 — 53.4N 164.7E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	2																6 - 2	2	2	3	4544
≥48	13	6	4	1													24 - 1	24	41	43	4544
≥41	31	16	9	6	3		1										42 - 1	66	136	141	4544
≥34	42	34	24	16	12	4	3	1	1	1	1	1					72 - 1	140	401	414	4544
≥28	45	38	43	33	16	16	10	8	3	4	1		1		2		[illegible]	220	822	863	4548
≥22	63	49	34	35	27	27	24	10	12	11	6	3	4	2	4	9	[illegible]	320	1610	1679	4595
≥17	49	37	36	38	32	18	31	19	17	14	11	8	14	8	4	25	[illegible]	361	2476	2576	4628
≥11	33	29	17	33	17	13	17	20	15	19	9	10	14	7	9	70	474 - 1	332	3412	3668	4664
≥ 7	8	7	6	5	16	11	10	7	8	9	4	7	6	6	3	85	606 - 1	198	3658	4289	4701
≥ 4	4		2	3	2	3	1	2	1	5	3	1	2	1		63	1134 - 1	93	3481	4566	4704

HOURS DURATION OF EVENTS

8 — 52.0N 172.9E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	6	1	1		1												30 - 1	9	16	16	4545
≥48	19	9	9	2		1		2									48 - 2	42	94	94	4545
≥41	50	35	12	7	4	1	3		1		1						66 - 1	114	251	256	4545
≥34	54	58	48	25	11	4	3	8	4				1				78 - 1	216	627	639	4547
≥28	62	57	54	44	33	15	8	11	5	7	2		1		1	4	120 - 1	304	1151	1173	4549
≥22	67	47	50	40	43	39	2	16	11	8	12	7	3	3	2	14	174 - 2	382	1975	2051	4584
≥17	45	36	45	32	33	28	32	9	15	13	11	10	8	11	6	36	210 - 1	380	2723	2836	4601
≥11	32	17	24	20	24	20	17	22	15	4	5	8	12	5	7	79	372 - 1	311	3559	3860	4692
≥ 7	12	6	8	7	9	12	5	12	7	5	7	7	5	3	7	87	666 - 1	196	3824	4408	4780
≥ 4	5	2	1	4	3	4	3	1	1	3	1		3	1	2	54	1578 - 1	88	3966	5069	5196

HOURS DURATION OF EVENTS

10 — 51.7N 135.6W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4545
≥48	21	9	6	2													24 - 2	38	65	65	4545
≥41	48	28	18	6	4			1									54 - 1	105	211	211	4545
≥34	55	44	50	29	17	4	3				1						72 - 1	203	551	552	4546
≥28	68	65	47	44	30	30	12	7	4	1	2	1	1	1		1	96 - 1	314	1108	1115	4550
≥22	65	50	42	45	42	27	27	25	15	9	5	6	7	4	2	15	138 - 2	386	2047	2067	4567
≥17	40	38	36	20	35	25	24	21	17	8	9	10	7	8	5	48	252 - 1	351	2918	2972	4608
≥11	22	24	22	11	12	11	15	12	12	7	8	6	11	7	3	82	588 - 1	265	3771	3976	4701
≥ 7	11	7	5	10	5	5	2	6	3	3	1	2	5	2	2	91	1122 - 1	160	4129	4491	4784
≥ 4	1	1	2	3	4	5	2	2	1		1					61	1392 - 1	84	4319	5031	5139

HOURS DURATION OF EVENTS

11 — 51.3N 158.8W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	3	1															12 - 1	4	5	5	4545
≥48	12	6	3		3												30 - 3	24	48	48	4545
≥41	38	16	10	7	3		1	1									54 - 1	77	167	168	4545
≥34	65	48	19	16	13	7	4	1	2	1						1	96 - 1	177	469	476	4545
≥28	96	62	47	34	18	24	14	12	6	2	1	1		1	2	2	108 - 2	322	1102	1116	4545
≥22	67	57	54	50	35	32	23	21	18	14	6	7	7	3	4	11	210 - 1	409	2102	2156	4603
≥17	39	57	30	37	29	24	18	23	17	17	10	9	9	7	8	47	282 - 1	381	2951	3060	4630
≥11	27	23	16	15	18	7	14	6	15	5	12	6	4	6	6	86	564 - 1	266	3757	4002	4680
≥ 7	13	5	10	6	7	8	4	4	2	2	4	5	5		8	85	828 - 1	168	3874	4434	4738
≥ 4	4	1	2	3	6	3	2			2	1	2	2	2	1	51	1218 - 1	82	3348	4674	4774

HOURS DURATION OF EVENTS

13 — 50.3N 171.3W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	2																6 - 2	2	2	2	4545
≥48	19	7	5	2	1												30 - 1	34	61	61	4545
≥41	46	26	9	6	1	3	2	4									48 - 4	97	218	220	4545
≥34	73	44	34	17	11	12	2	2	1	3	1					1	120 - 1	201	558	563	4549
≥28	73	69	40	35	24	21	18	6	8	4	4	3	1	2		3	132 - 1	311	1180	1189	4549
≥22	67	59	60	33	31	29	17	22	16	9	14	5	7	4	1	16	288 - 1	380	2075	2104	4568
≥17	52	39	46	33	26	27	25	16	21	13	14	10	8	4	4	42	366 - 1	380	2847	2959	4594
≥11	30	15	17	24	16	8	13	8	20	7	9	8	5	9	3	85	498 - 1	277	3715	3944	4666
≥ 7	6	5	8	12	4	5	8	6	7	4	5	3	4	3	2	90	798 - 1	172	3952	4358	4669
≥ 4	8	2	2			2	3	1	1	2	1	1			2	62	1536 - 1	87	3554	4769	4881

HOURS DURATION OF EVENTS

14 — 49.3N 174.1E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	4	1	1		2												30 - 2	8	19	19	4545
≥48	27	14	8	3	3	1	2	2									48 - 2	50	142	144	4545
≥41	51	32	17	8	3	5	3	2	1	1		1					72 - 1	124	311	317	4545
≥34	77	69	40	24	11	8	2	3	3	2	5		1			1	108 - 1	246	705	712	4546
≥28	82	47	65	49	38	17	9	6	5	4	1	6	1	1		6	150 - 1	337	1284	1306	4547
≥22	57	61	52	52	48	36	25	16	11	7	7	8	4	1	3	16	204 - 1	404	2081	2133	4550
≥17	55	43	47	28	46	28	32	20	13	12	12	7	13	9	5	38	288 - 1	408	2875	2977	4612
≥11	28	24	25	19	26	10	15	13	15	16	13	10	6	11	6	78	348 - 1	315	3706	3978	4715
≥ 7	7	7	10	5	5	6	1	7	8	5	3	2	6	7	6	86	678 - 1	171	4046	4535	4824
≥ 4	2	1	3	2		2	3		1	2		1		1	2	58	1548 - 1	81	4128	5117	5211

HOURS DURATION OF EVENTS

16 — 47.1N 161.2E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	4	1															12 - 1	5	6	6	4545
≥48	16	21	3	4													24 - 4	44	83	83	4545
≥41	56	34	19	3	6	4	1	1									48 - 1	124	267	267	4545
≥34	68	62	31	26	12	9	10	2	1	1	1	2					72 - 2	225	643	649	4546
≥28	71	65	55	47	30	17	13	11	10	1	1	4	1	3			84 - 3	329	1199	1215	4548
≥22	68	55	48	58	36	30	21	16	14	12	8	7	4		7	11	192 - 1	395	2000	2028	4583
≥17	66	47	44	41	48	31	32	23	11	21	5	8	14	8	3	31	258 - 1	433	2781	2882	4601
≥11	33	18	24	16	21	13	14	16	17	13	14	12	6	9	11	79	396 - 1	316	3666	3907	4678
≥ 7	18	11	7	7	5	8	4	6	4	3	3	6	6	4	3	87	774 - 1	182	3973	4561	4884
≥ 4	2	7	2	2	2	1	1			1	1	2	1	5	2	61	1626 - 1	90	3823	4973	5084

HOURS DURATION OF EVENTS

17 — 45.8N 139.3E

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4544
≥48	5	1	1	2													24 - 2	9	18	18	4544
≥41	18	9	7	6	1	1											36 - 1	42	92	92	4544
≥34	29	22	12	10	10	6		2	1	2		1					72 - 1	95	292	293	4552
≥28	79	30	27	16	17	8	6	5	3	3		4	2	1			84 - 1	201	644	678	4557
≥22	74	71	45	29	19	21	19	9	8	5	4	7	2		3	6	120 - 1	322	1320	1375	4566
≥17	78	52	38	43	26	23	24	20	17	15	8	4	9	3	1	21	306 - 1	382	2120	2205	4588
≥11	45	42	31	31	20	20	16	15	20	10	13	15	12	9	3	60	366 - 1	362	3208	3409	4655
≥ 7	26	16	17	15	13	12	15	7	13	12	12	8	11	8	9	77	558 - 1	271	3719	4140	4750
≥ 4	19	11	8	10	8	7	10	7	8	7	8	6	6	4	10	80	702 - 1	209	3901	4318	4779

HOURS DURATION OF EVENTS

19 — 44.3N 177.7W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	4	2															12 - 2	6	8	8	4545
≥48	32	11	7	2	4	2											36 - 2	58	115	115	4545
≥41	47	33	17	7	5	8	2	1		1							60 - 1	121	297	297	4545
≥34	77	46	28	25	17	9	8	6	3	1	3	1				3	120 - 1	227	735	738	4545
≥28	89	69	51	24	33	20	9	7	11	9	5	3		2	1	9	150 - 1	342	1377	1403	4552
≥22	86	50	46	48	33	23	10	18	23	12	8	8	10	5		19	186 - 1	399	2157	2274	4563
≥17	31	45	54	24	32	28	28	16	15	12	16	7	10	10	6	41	252 - 1	375	2908	3041	4583
≥11	18	29	23	16	19	11	11	10	13	15	9	7	5	12	8	78	672 - 1	284	3663	3913	4595
≥ 7	7	9	7	8	9	6	8	8	5	5	3	8	3	2	4	80	1008 - 1	172	3930	4450	4734
≥ 4	3		3		2	2	1	4	3	6	3	1	2	1	1	43	1788 - 1	75	3522	5102	5189

HOURS DURATION OF EVENTS

20 — 44.2N 152.7W

WIND / SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	21	13	3	2													24 - 2	39	64	64	4545
≥41	34	17	12	11	4	1		2									48 - 2	81	190	190	4551
≥34	67	45	27	22	16	10	2	3	1			2				1	108 - 1	196	555	562	4560
≥28	78	54	43	43	25	20	10	10	3	4	3	2	4		1	4	114 - 1	304	1141	1166	4561
≥22	75	50	49	33	36	24	18	17	13	7	6	4	7	11	4	20	186 - 2	374	2068	2134	4569
≥17	54	40	27	29	28	15	20	17	11	12	7	7	6	6	8	54	324 - 1	341	2805	2973	4582
≥11	26	17	18	9	22	11	9	10	10	6	5	7	11	7	4	74	486 - 1	246	3460	3861	4614
≥ 7	9	7	3	2	8	6	5	3	7	3	2	4	2	5	4	81	810 - 1	151	3744	4420	4734
≥ 4	1	1	3	2	3	2	1	3	2			2	2	2	1	54	1620 - 1	79	4114	5219	5331

HOURS DURATION OF EVENTS

WIND SPEED DURATIONS

2 — 59.4N 172.0W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																	12 - 1	1	2	2	4545
≥48	1	5	7														18 - 7	19	38	39	4545
≥41	17	21	10	8	5	2											36 - 2	63	158	160	4545
≥34	49	33	26	10	14	9	3	3	3			1					72 - 1	151	441	444	4546
≥28	53	31	37	25	25	26	8	5	2	6	3	2		2	1	5	132 - 1	231	980	996	4547
≥22	48	31	31	30	23	21	26	14	14	13	1	5	4	3	4	19	246 - 1	293	1815	1842	4582
≥17	53	25	30	29	28	13	19	22	16	14	9	10	6	6	4	44	282 - 1	328	2594	2739	4609
≥11	13	14	18	21	11	15	14	8	16	13	13	6	6	5	10	73	540 - 1	256	3477	3873	4719
≥7	12	6	7	6	9	2	8	4	5	5	5	6	2	5	7	83	1014 - 1	172	3858	4439	4780
≥4	8	2	1	2	2	1	1	2	4	1				1		55	1584 - 1	80	3742	4908	5015

HOURS DURATION OF EVENTS

3 — 58.5N 151.6W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1															12 - 1	1	2	2	4545
≥48	6	2	1														18 - 1	9	13	13	4545
≥41	18	10	2	1	3			1									48 - 1	35	71	71	4546
≥34	41	21	22	10	4	5	2		1								60 - 1	106	263	263	4548
≥28	52	41	37	22	17	9	6	5	5	2		2		1	1		102 - 1	200	677	686	4550
≥22	62	50	56	45	23	20	17	8	10	8	8	1	1	3	1	8	168 - 1	321	1434	1465	4568
≥17	67	49	43	41	38	26	13	24	16	13	11	6	7	3	5	21	240 - 1	378	2255	2325	4584
≥11	40	31	35	23	22	29	19	18	12	10	15	10	7	8	2	64	456 - 1	345	3301	3472	4637
≥7	17	16	14	14	14	10	16	10	4	7	5	10	12	1	6	92	618 - 1	248	3870	4200	4739
≥4	6	4	7	3	5	6	2	4	2	2	1	4	3	3		85	762 - 1	137	3925	4599	4811

HOURS DURATION OF EVENTS

5 — 56.8N 141.9W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	9	4	4														18 - 4	17	29	29	4545
≥41	22	18	8	8	1			1									48 - 1	58	127	127	4545
≥34	37	35	17	14	9	8	3	1	1	2							60 - 2	127	365	365	4546
≥28	57	44	27	24	16	12	10	10	6	4	1		1	2			84 - 2	214	770	774	4547
≥22	66	43	50	23	25	20	25	11	15	9	6	5	4	2		9	150 - 1	313	1525	1540	4557
≥17	48	50	36	26	34	22	14	25	15	11	6	6	4	10	3	33	234 - 1	343	2308	2348	4572
≥11	30	31	32	25	18	20	21	16	15	15	15	11	11	6	2	63	450 - 1	331	3281	3419	4598
≥7	18	13	16	12	11	4	5	3	11	13	9	8	5	6	5	89	546 - 1	228	3772	4134	4654
≥4	5	5	4	1	4	2	3	4	4	2	4	4		1	5	75	912 - 1	129	4053	4744	4932

HOURS DURATION OF EVENTS

6 — 54.9N 167.1W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4545
≥48	8	9	2	2													24 - 2	21	40	41	4545
≥41	21	16	10	3	2	1	1	1									48 - 1	55	126	128	4545
≥34	47	28	23	12	6	3	3	3	1	1						2	120 - 1	129	368	371	4545
≥28	69	39	50	29	18	10	6	7	4	3	4		1			3	132 - 2	243	844	853	4545
≥22	84	47	54	33	32	25	17	12	11	12	7	5	7	6	1	6	198 - 1	359	1677	1735	4566
≥17	63	29	40	32	29	33	28	19	17	14	7	10	10	12	11	24	264 - 1	378	2588	2709	4586
≥11	29	15	22	22	24	13	17	12	14	21	11	7	10	9	8	75	378 - 2	309	3509	3719	4623
≥7	16	7	7	8	5	14	6	6	5	15	2	6	4	5	6	83	744 - 1	195	3897	4315	4693
≥4	3	2	3	4		2	1	2	5	1	3					64	1452 - 1	90	4174	4939	5067

HOURS DURATION OF EVENTS

8 — 52.0N 172.9E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	6	1	1	1		1											30 - 1	9	16	16	4545
≥48	19	9	9	2		1	2										48 - 2	42	94	94	4545
≥41	50	35	12	7	4	1	3		1		1						66 - 1	114	251	256	4545
≥34	54	58	48	25	11	4	3	8	4			1					78 - 1	216	627	639	4547
≥28	62	57	54	44	33	15	8	11	5	7	2		1		1	4	120 - 1	304	1151	1173	4549
≥22	67	47	50	40	43	39	20	16	11	8	12	7	3	3	2	14	174 - 2	382	1975	2051	4584
≥17	45	36	45	32	33	28	32	19	15	13	11	10	8	11	6	36	210 - 1	380	2723	2836	4601
≥11	32	17	24	20	24	20	17	22	15	4	5	8	12	5	7	79	372 - 1	311	3559	3860	4692
≥7	12	6	8	7	9	12	5	12	7	5	7	5	3	7	4	87	666 - 1	196	3824	4408	4780
≥4	5	2	1	4	3	4	3	1	1	3	1		3	1	2	54	1578 - 1	88	3966	5069	5196

HOURS DURATION OF EVENTS

9 — 51.7N 158.8E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1	1	1														18 - 1	3	6	6	4545
≥48	14	8	3	2													24 - 2	27	47	47	4545
≥41	26	24	12	6	3	1											36 - 1	72	155	157	4545
≥34	42	29	34	17	7	7	1	1	1	1							60 - 1	140	381	386	4554
≥28	55	44	43	36	23	12	9	4	4		3	1				1	108 - 1	235	797	810	4558
≥22	43	60	59	33	37	22	20	14	10	8	6	5	2	2	2	8	126 - 1	331	1564	1604	4562
≥17	55	50	34	35	42	27	27	17	14	11	8	9	12	4	10	27	210 - 1	382	2456	2534	4608
≥11	21	23	25	17	26	18	20	16	12	9	9	8	8	7	5	82	336 - 1	306	3516	3718	4667
≥7	11	10	11	4	7	10	10	5	11	8	7	4	5	5	5	88	414 - 1	201	3723	4322	4740
≥4	6	1	2	7		2	2	3	5	5	1	2	2		2	69	1392 - 1	109	3992	5128	5288

HOURS DURATION OF EVENTS

11 — 51.3N 158.8W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	3	1															12 - 1	4	5	5	4545
≥48	12	6	3		3												30 - 3	24	48	48	4545
≥41	38	16	10	7	3		1	1	1								54 - 1	77	167	168	4545
≥34	65	48	19	16	13	7	4	1	2	1						1	96 - 1	177	469	476	4545
≥28	96	62	47	34	18	24	14	12	6	2	1	1		1	2	2	108 - 2	322	1102	1116	4545
≥22	67	57	54	50	35	32	23	21	18	14	6	7	7	3	4	11	210 - 1	409	2102	2156	4603
≥17	39	57	30	37	29	24	18	23	17	17	10	9	9	7	8	47	282 - 1	381	2951	3060	4630
≥11	27	23	16	15	18	7	14	6	15	5	12	6	4	6	6	86	564 - 1	266	3757	4002	4680
≥7	13	5	10	6	7	8	4	4	2	2	4	5	5		8	85	828 - 1	168	3874	4434	4738
≥4	4	1	2	3	6	3	2			2	1	2	2	2	1	51	1218 - 1	82	3348	4674	4774

HOURS DURATION OF EVENTS

12 — 50.9N 145.6W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1	1															12 - 1	2	3	3	4545
≥48	18	11	5	3													24 - 3	37	67	67	4545
≥41	41	24	14	10	9	1	1										42 - 1	100	229	229	4545
≥34	69	52	31	22	17	7	7	3	2	4						1	90 - 1	215	627	627	4545
≥28	84	64	51	41	22	14	17	13	13	8	3	3		4	1	2	120 - 1	340	1321	1326	4551
≥22	62	51	45	41	34	24	16	17	13	13	5	6	14	5	3	29	210 - 1	378	2290	2333	4572
≥17	46	34	31	20	28	18	9	16	14	14	7	8	4	5	7	67	336 - 1	328	3077	3207	4593
≥11	22	9	16	11	13	12	6	9	9	7	4	3	4	2	4	79	576 - 1	210	3476	4004	4602
≥7	9	8	4	5	8	2	3	4	2	7	2	1	1	1		70	1014 - 1	127	3752	4515	4759
≥4	1	3	1	2					2	1		1	1	1		47	2088 - 1	60	3703	5094	5167

HOURS DURATION OF EVENTS

14 — 49.3N 174.1E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	4	1	1		2												30 - 2	8	19	19	4545
≥48	27	14	8	3	3	1	2	2									48 - 2	60	142	144	4545
≥41	51	32	17	8	3	5	3	2	1	1	1						72 - 1	124	311	317	4545
≥34	77	69	40	24	11	8	2	3	3	2	5		1				108 - 1	246	705	712	4546
≥28	82	47	65	49	38	17	9	6	5	4	1	6	1	1		6	150 - 1	337	1284	1306	4547
≥22	57	61	52	52	48	36	25	16	11	7	7	8	4	1	3	16	204 - 1	404	2081	2133	4550
≥17	55	43	47	28	46	28	32	20	13	12	12	7	13	9	5	38	288 - 1	408	2875	2977	4612
≥11	28	24	25	19	26	10	15	13	15	16	13	10	6	11	6	78	348 - 1	315	3706	3978	4715
≥7	7	7	10	5	5	6	1	7	8	5	3	2	6	7	6	86	678 - 1	171	4046	4535	4824
≥4	2	1	3	2		2	3		1	2		1	4		2	58	1548 - 1	81	4128	5117	5211

HOURS DURATION OF EVENTS

15 — 49.0N 128.4W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4545
≥48	16	6	2														18 - 2	24	34	34	4545
≥41	27	20	8	5	1		2		1								54 - 1	64	139	139	4545
≥34	45	44	21	10	11	3	4		2	2		1					72 - 1	143	387	387	4545
≥28	56	53	28	22	18	13	8	4	8		2	2	1	1			84 - 1	216	735	751	4553
≥22	70	50	40	34	24	25	25	9	10	9	2	2	3	2	3	4	162 - 1	312	1375	1401	4555
≥17	50	58	29	40	28	19	23	15	19	10	13	10	5	5	3	23	264 - 1	350	2168	2239	4564
≥11	29	47	28	17	23	19	9	15	11	16	14	14	6	7	10	66	312 - 1	331	3197	3357	4607
≥7	13	18	18	21	11	10	8	5	4	5	8	6	5	2	5	91	870 - 1	230	3812	4121	4719
≥4	8	7	4	10	3	3	4	5	3	4	1	5	6	3	4	67	1218 - 1	137	3910	4651	4881

HOURS DURATION OF EVENTS

17 — 45.8N 139.3E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4544
≥48	5	1	1	2													24 - 2	9	18	18	4544
≥41	18	9	7	6	1	1											36 - 1	42	92	92	4544
≥34	29	22	12	10	10	6		2	1	2		1					72 - 1	95	292	293	4552
≥28	79	30	27	16	17	8	6	5	3	3		4	2	1			84 - 1	201	644	678	4557
≥22	74	71	45	29	19	21	19	9	8	5	4	7	2		3	6	120 - 1	322	1320	1375	4566
≥17	78	52	38	43	26	23	24	20	17	15	8	4	9	3	1	21	306 - 1	382	2120	2205	4588
≥11	45	42	31	31	20	20	16	15	20	10	13	15	12	9	3	60	366 - 1	362	3208	3409	4655
≥7	26	16	17	15	13	12	15	7	13	12	12	8	11	8	9	77	558 - 1	271	3719	4140	4750
≥4	19	11	8	10	8	7	10	7	8	7	8	6	6	4	10	80	702 - 1	209	3901	4318	4779

HOURS DURATION OF EVENTS

18 — 45.8N 144.2W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1	1															12 - 1	2	3	3	4545
≥48	15	5	4			1	1	1									42 - 1	27	55	55	4545
≥41	44	17	16	6	1			1			1						66 - 1	86	174	174	4545
≥34	59	41	38	22	16	6	4	2		2		1					72 - 1	191	535	536	4545
≥28	76	56	44	32	24	19	14	6	4	5	6	2	3	3		3	102 - 2	297	1135	1146	4548
≥22	52	46	42	36	24	32	20	20	10	6	6	6	9	6	10	19	216 - 1	344	2045	2090	4564
≥17	48	30	28	21	26	10	16	21	9	11	3	11	4	5	8	61	324 - 1	312	2898	3016	4597
≥11	25	12	16	14	15	14	14	7	13	7	5	2	5	6	5	79	660 - 1	230	3737	4072	4787
≥7	11	5	6	4	7		6	7	7	6	4	2	8	1	3	68	882 - 1	145	3884	4580	4885
≥4	4	1		2	1	4	2	2	1	3	1	3		2	1	53	SEA - 1	80	4050	5251	5358

HOURS DURATION OF EVENTS

20 — 44.2N 152.7W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	21	13	3	2													24 - 2	39	64	64	4545
≥41	34	17	12	11	4	1		2									48 - 2	81	190	190	4551
≥34	67	45	27	22	16	10	2	3	1			2				1	108 - 1	196	555	562	4560
≥28	78	54	43	43	25	20	10	10	3	4	3	2	4		1	4	114 - 1	304	1141	1166	4561
≥22	75	50	49	33	36	24	18	17	13	7	6	4	7	11	4	20	186 - 2	374	2068	2134	4569
≥17	54	40	27	29	28	15	20	17	11	12	7	7	6	6	8	54	324 - 1	341	2805	2973	4582
≥11	26	17	18	9	22	11	9	10	10	6	5	7	11	7	4	74	486 - 1	246	3460	3861	4614
≥7	9	7	3	2	8	6	5	3	7	3	2	4	2	5	4	81	810 - 1	151	3744	4420	4734
≥4	1	1	3	2	3	2	1	3	2			2	2	2	1	54	1620 - 1	79	4114	5219	5331

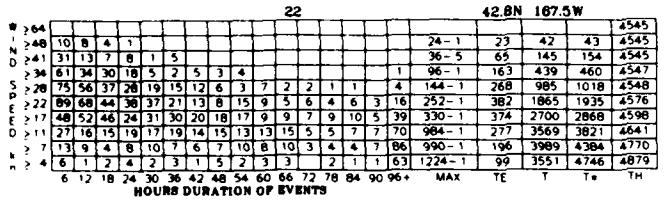
HOURS DURATION OF EVENTS

21 — 43.7N 128.7W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6 - 1	1	1	1	4545
≥48	10	6	2		1												30 - 1	19	33	33	4545
≥41	30	11	12	3	2		1										42 - 1	59	117	117	4545
≥34	35	21	22	12	10	5	2		1	1	1						66 - 1	110	315	316	4545
≥28	54	41	25	17	18	7	10	1	4	4	5		1			1	108 - 1	188	651	656	4545
≥22	45	39	48	24	19	21	10	14	12	7	4	7	2	3	2	7	120 - 2	264	1294	1317	4548
≥17	59	40	35	34	16	21	15	14	20	14	9	4	3	6	6	22	264 - 1	318	1999	2115	4573
≥11	50	30	18	30	24	18	17	16	9	9	9	11	6	10	5	57	528 - 1	319	3027	3271	4607
≥7	23	16	13	14	7	11	15	8	6	8	7	3	7	5	6	81	672 - 1	230	3841	4084	4702
≥4	9	5	3	1	6	3	5	3	3	5	2	3		2	2	69	1302 - 1	121	3958	4754	4954

HOURS DURATION OF EVENTS

WIND SPEED DURATIONS (Cont'd)



22 42.8N 167.5W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	10	8	4	1													24 - 1	23	42	43	4545
≥41	31	13	7	6	1	5											36 - 5	65	145	154	4545
≥34	61	34	30	18	5	2	5	3	4							1	96 - 1	163	439	460	4547
≥28	75	56	37	28	19	15	12	6	3	7	2	2	1	1		4	144 - 1	268	985	1018	4548
≥22	89	68	44	36	37	21	13	8	15	9	5	6	4	6	3	16	252 - 1	382	1865	1935	4576
≥17	48	52	46	24	31	30	20	18	17	9	9	7	9	10	5	39	330 - 1	374	2700	2868	4598
≥11	27	16	15	19	17	19	14	15	13	13	15	5	5	7	7	70	984 - 1	277	3569	3821	4641
≥ 7	13	9	4	8	10	7	6	7	10	8	10	3	4	4	7	86	990 - 1	196	3989	4384	4770
≥ 4	6	1	2	4	2	3	1	5	2	3	3		2	1	1	63	1224 - 1	99	3551	4746	4879

HOURS DURATION OF EVENTS

23 42.4N 172.1E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64	3		2														18 - 2	5	9	9	4545
≥48	22	10	4	4													24 - 4	40	70	70	4545
≥41	45	29	10	7	1	2		1								1	96 - 1	96	202	203	4545
≥34	78	42	39	21	15	8	4	1		1		1				1	102 - 1	211	561	569	4548
≥28	92	71	55	30	28	15	11	6	3	3	4	4	2	4		1	150 - 1	329	1130	1146	4553
≥22	100	65	61	42	31	25	22	12	16	7	8	6	2	2	3	18	222 - 1	420	1971	1999	4555
≥17	41	59	46	46	33	29	22	28	16	13	9	10	3	8	4	38	264 - 1	405	2780	2855	4598
≥11	29	31	25	18	16	27	22	13	9	16	13	12	7	6	10	68	378 - 1	322	3511	3794	4657
≥ 7	9	10	11	12	11	10	9	6	6	10	8	6	6	5	6	79	1248 - 1	204	3971	4447	4806
≥ 4	3	5		1	2	1	3	1	2	2		2	2	3	2	50	1794 - 1	79	3766	4871	4969

HOURS DURATION OF EVENTS

25 40.2N 131.2E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4544
≥48	2																6 - 2	2	2	2	4544
≥41	3	1	1				1										42 - 1	6	15	15	4544
≥34	18	7	3	1		2		1									54 - 1	32	68	68	4544
≥28	41	17	12	6	4	1	1	1	1		1		1				84 - 1	86	211	211	4548
≥22	53	39	34	14	13	7	6	3	4	1						3	102 - 2	179	583	586	4558
≥17	60	55	30	27	29	14	11	9	6	6	7	1	1		2	7	228 - 1	265	1133	1150	4577
≥11	69	48	42	28	27	28	28	20	14	13	9	4	4	7	4	25	300 - 1	370	2239	2338	4638
≥ 7	70	38	34	28	29	12	24	23	16	17	10	14	11	3	6	55	372 - 1	390	3141	3314	4665
≥ 4	42	35	15	19	18	16	6	8	9	5	8	12	7	7	4	82	630 - 1	293	3603	3900	4743

HOURS DURATION OF EVENTS

26 39.5N 153.8E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	9	2															12 - 2	11	13	13	4545
≥41	11	14	4														18 - 4	29	51	51	4545
≥34	46	28	14	3	6	1											36 - 1	98	192	193	4545
≥28	61	60	28	21	14	8	2	3	1								54 - 1	198	514	524	4545
≥22	97	65	68	37	20	24	16	8	5	2	2		1	1	1		90 - 1	347	1128	1157	4558
≥17	103	79	69	53	42	25	18	21	12	9	12	5	6	4		5	114 - 2	463	1946	1986	4578
≥11	57	37	56	42	47	28	33	19	16	14	23	11	7	7	5	45	312 - 1	447	3117	3200	4603
≥ 7	31	25	21	20	13	22	17	14	14	9	15	12	9	9	6	86	576 - 1	323	3879	4121	4772
≥ 4	12	4	7	7	3	7	7	7	4	2	5	4	2	3	6	86	996 - 1	166	4090	4756	4982

HOURS DURATION OF EVENTS

28 36.1N 123.8W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	1																6 - 1	1	1	1	4545
≥41	3	2		1													24 - 1	6	11	11	4545
≥34	10	8	2			2								2			36 - 2	22	44	44	4545
≥28	35	11	14	3	6	2			1	1							66 - 1	73	174	174	4546
≥22	47	37	16	17	8	8	8	4	5	3	1				2		84 - 2	156	527	528	4547
≥17	85	46	43	21	25	14	12	10	7	6	5	3	2	2	1	4	120 - 2	296	1121	1131	4550
≥11	109	35	44	23	17	25	18	13	10	19	12	5	4	11	7	30	234 - 1	332	2339	2432	4574
≥ 7	65	32	22	21	20	19	12	12	11	10	10	6	6	9	2	78	498 - 1	335	3469	3678	4722
≥ 4	31	25	19	4	7	3	5	2	5	4	9	1	4	3	8	85	810 - 1	215	4130	4483	4878

HOURS DURATION OF EVENTS

29 35.9N 171.0W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64		1															12 - 1	1	2	2	4545
≥48	6	1	1	1													24 - 1	9	15	15	4545
≥41	16	3	4	4	1												30 - 1	28	55	59	4545
≥34	36	25	12	5	4	2	2	1									54 - 1	87	197	203	4545
≥28	56	35	28	22	19	5	3	5	2								108 - 1	176	520	531	4545
≥22	89	54	40	34	26	7	12	9	7	4	4	3	3		1	7	168 - 1	300	1162	1198	4561
≥17	79	55	44	42	36	28	16	9	9	14	6	5	4	4	4	21	198 - 1	376	2009	2093	4576
≥11	61	35	31	28	30	26	23	19	15	9	11	7	5	7	8	49	348 - 2	364	3058	3368	4635
≥ 7	30	11	19	20	9	14	12	11	9	11	7	11	5	7	7	80	576 - 1	263	3521	4136	4674
≥ 4	7	5	1	10	6	1	4	1	3	1	7	3	1	3	3	68	870 - 1	124	3624	4733	4911

HOURS DURATION OF EVENTS

31 35.6N 155.2W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4544
≥48	5																6 - 5	5	5	5	4544
≥41	26	9	2														18 - 2	37	50	50	4544
≥34	23	20	15	5		2		1		2							66 - 2	68	170	175	4553
≥28	47	41	22	13	15	6	5	1	2			1		1	1		120 - 1	155	469	475	4554
≥22	64	38	41	27	18	9	13	13	3	2	3	1	4	1	2	8	198 - 1	247	1056	1089	4555
≥17	85	46	43	21	25	14	12	10	7	6	5	3	2	2	1	4	120 - 2	296	1121	1131	4550
≥11	68	39	34	34	31	26	10	16	16	4	7	1	5	3	2	22	216 - 1	318	1758	1897	4569
≥ 7	59	35	28	25	24	25	22	21	10	14	8	7	7	4	5	49	450 - 1	343	2883	3219	4656
≥ 4	30	10	20	18	19	12	8	17	7	10	8	6	4	5	9	74	810 - 1	257	3466	4065	4700
	8	4	4	3	3	5	4	4	5	5	1	2	3	4	3	74	972 - 1	132	3900	4640	4864

HOURS DURATION OF EVENTS

32 35.4N 142.0W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	2		1														18 - 1	3	5	5	4545
≥41	7	5	2														18 - 2	14	23	23	4545
≥34	16	10	11	2	3	1											36 - 1	43	98	98	4545
≥28	31	26	13	14	9	4	2	2		1	3						66 - 3	105	320	321	4545
≥22	55	43	32	10	18	4	9	12	4	2	4		1			7	162 - 1	201	797	811	4545
≥17	65	41	35	37	17	22	13	8	7	4	6	5		6	5	16	246 - 1	287	1527	1578	4557
≥11	43	29	28	25	24	16	18	15	13	9	7	1	5	4	6	56	720 - 1	299	2732	2917	4578
≥ 7	44	16	16	17	16	11	16	8	5	10	9	6	6	3	4	80	816 - 1	267	3628	3956	4689
≥ 4	9	9	4	9	3	6	1	2	4	2		1	4	3	4	71	990 - 1	132	4028	4566	4796

HOURS DURATION OF EVENTS

34 34.2N 155.1E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	2																6 - 2	2	2	2	4545
≥41	2	2															12 - 2	4	6	6	4545
≥34	14	4	2			1		1									42 - 1	21	35	35	4545
≥28	39	26	6	4	6	1			1								54 - 1	83	170	173	4546
≥22	77	55	29	20	13	11	2	3	3	1	3						66 - 3	217	593	606	4547
≥17	100	58	54	39	32	15	12	8	9	6	5	4	2	1	2	3	156 - 1	350	1310	1349	4557
≥11	90	51	48	37	34	41	31	19	21	10	11	10	9	6	5	30	210 - 1	453	2706	2773	4622
≥ 7	34	25	31	26	27	24	23	20	17	9	12	11	13	11	9	69	444 - 1	361	3561	3818	4651
≥ 4	8	6	5	8	8	9	3	7	8	10	4	6	4	4	4	93	618 - 1	187	3913	4467	4747

HOURS DURATION OF EVENTS

35 34.2N 163.8E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48	1		1														24 - 1	2	5	5	4545
≥41	3			1													36 - 1	4	9	9	4545
≥34	14	6	3	2	1		1										48 - 1	27	56	56	4545
≥28	49	26	10	10	2	1	1	2		1							60 - 1	102	220	220	4545
≥22	95	62	37	30	14	9	5	3	5	3	3						66 - 3	266	741	755	4551
≥17	90	75	52	41	30	18	19	20	11	8	5	2	2	5	1	7	126 - 1	386	1607	1635	4577
≥11	63	51	41	42	35	25	25	22	19	13	16	8	12	8	3	44	198 - 1	427	2910	3032	4619
≥ 7	24	25	19	16	10	14	15	12	11	16	15	6	12	15	6	84	420 - 1	300	3716	3990	4664
≥ 4	10	4	4	4	7	5	4	2	5	4	1	3	5	4	5	93	1362 - 1	160	4054	4715	4947

HOURS DURATION OF EVENTS

37 32.9N 119.4W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4543
≥48																					4543
≥41																					4543
≥34																					4543
≥28	6	2	2														18 - 2	10	16	16	4543
≥22	30	20	9	4	4	2	2										42 - 2	71	159	159	4543
≥17	61	37	22	18	10	8	9	3	3	1		1					72 - [illegible]	173	507	507	4548
≥11	126	58	39	16	19	22	14	10	12	7	8	12	8	5	7	14	180 - 1	375	1798	1804	4582
≥ 7	117	44	47	12	20	14	23	9	12	8	12	5	8	7	9	68	378 - 1	415	3344	3422	4742
≥ 4	61	37	27	15	10	8	8	5	10	3	6	6	2	3	4	84	600 - 1	289	3839	4139	4815

HOURS DURATION OF EVENTS

38 31.5N 127.7W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	5	1															12 - 1	6	7	7	4545
≥28	10	8	3	2	1	1											42 - 1	25	55	55	4545
≥22	37	13	13	5	5	4	3	1	1	1	1				1		84 - 1	85	244	244	4546
≥17	71	39	32	20	10	10	9	7	3	2	2	1	2		1	8	126 - 2	217	817	820	4550
≥11	69	41	24	27	17	10	20	14	11	11	10	8	5	4	6	34	252 - 2	311	2126	2183	4594
≥ 7	81	34	29	17	16	7	9	11	13	11	6	5	4	10	7	72	582 - 1	332	3331	3499	4770
≥ 4	43	22	8	10	11	6	7	10	1	7	7	5	4	4	4	82	954 - 1	231	3931	4419	4868

HOURS DURATION OF EVENTS

40 29.6N 165.0W

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48																					4545
≥41	5	2															12 - 2	7	9	9	4545
≥34	7	3		3													24 - 3	13	25	29	4545
≥28	25	8	8	5	3	2	2										42 - 2	53	126	134	4545
≥22	63	27	22	14	10	11	4	9	3	1	1		1		1		90 - 1	167	531	540	4548
≥17	73	33	29	24	18	14	15	9	6	8	6	2	2	2	2	12	288 - 1	255	1246	1260	4557
≥11	67	42	33	25	25	17	20	16	5	9	6	13	7	8	6	34	372 - 1	333	2441	2597	4584
≥ 7	46	23	18	24	19	13	21	12	14	6	8	9	12	5	7	63	552 - 1	300	3416	3784	4716
≥ 4	17	4	8	6	6	4	5	11	3	7	5	5	7	7	2	71	894 - 1	168	3833	4445	4757

HOURS DURATION OF EVENTS

41 29.4N 134.9E

WIND SPEED (Kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																					4545
≥48																					4545
≥41	2																6 - 2	2	2	2	4545
≥34	6																6 - 6	6	6	6	4545
≥28	13	5	1	2	1		1								1		42 - 1	23	46	46	4545
≥22	28	14	16	4	3	1	5	2	1		1				1		84 - 1	76	226	226	4545
≥17	68	42	27	18	5	5	8	8	3	1	3	1	2	2	1	4	150 - 1	198	705	708	4545
≥11	109	37	41	18	32	25	20	13	11	7	9	3	5	7	4	29	252 - 1	367	2114	2161	4589
≥ 7	68	41	18	16	17	25	17	15	14	7	10	18	14	9	8	62	468 - 1	359	3374	3474	4627
≥ 4	26	23	8	4	3	8	8	4	8	8	2	8	9	4	5	91	804 - 1	219	3897	4410	4830

HOURS DURATION OF EVENTS

23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	3		2														18-2	5	9	9	4545
≥48	22	10	4	4													24-4	40	70	70	4545
≥41	45	29	10	7	1	2		1								1	96-1	96	202	203	4545
≥34	78	42	39	21	15	8	4	1		1		1				1	102-1	211	561	569	4548
≥28	92	71	55	30	28	15	11	6	3	3	4	4	2	4		1	150-1	329	1130	1146	4553
≥22	100	65	61	42	31	25	22	12	16	7	8	6	2	2	3	18	222-1	420	1971	1999	4555
≥17	41	59	46	46	33	29	22	28	16	13	9	10	3	8	4	38	264-1	405	2780	2855	4598
≥11	29	31	25	18	16	27	22	13	9	16	13	12	7	6	10	68	378-1	322	3511	3794	4657
≥ 7	9	10	11	12	11	10	9	6	6	10	8	6	6	5	6	79	1248-1	204	3971	4447	4806
≥ 4	3	5		1	2	1	3	1	2	2		2	2	3	2	50	1794-1	79	3766	4871	4969

HOURS DURATION OF EVENTS

24 — 41.0N 134.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	1																6-1	1	1	1	4545
≥48	6	2	1														18-1	9	13	13	4545
≥41	23	14	5	2	1												30-1	45	79	79	4545
≥34	31	25	16	8	8	3		1		2							60-2	94	247	247	4545
≥28	62	35	30	18	12	11	9	1	4	3	3	1		1			84-1	190	616	623	4545
≥22	45	44	53	32	21	20	12	14	12	5	6	4	4	2	1	6	174-1	281	1326	1341	4545
≥17	45	40	33	34	26	19	20	20	10	7	9	5	8	1	3	28	234-2	308	2054	2111	4545
≥11	43	26	22	19	17	17	10	12	16	12	12	9	6	3	5	65	480-1	294	3099	3308	4608
≥ 7	23	13	15	10	8	12	11	8	7	3	7	2	2	6	2	80	966-1	209	3599	4028	4816
≥ 4	14	1	6	3	4	5	4	7	8	3	3	4	1		1	70	1020-1	134	3813	4609	4813

HOURS DURATION OF EVENTS

28 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	9	2															12-2	11	13	13	4545
≥41	11	14	4														18-4	29	51	51	4545
≥34	46	28	14	3	6	1											36-1	98	192	193	4545
≥28	61	60	28	21	14	8	2	3	1								54-1	198	514	524	4545
≥22	97	65	68	37	20	24	16	8	5	2	2		1	1	1		90-1	347	1128	1157	4558
≥17	103	79	69	53	42	25	18	21	12	9	12	5	6	4		5	114-2	463	1946	1986	4578
≥11	57	37	56	42	47	28	33	19	16	14	23	11	7	7	5	45	312-1	447	3117	3200	4603
≥ 7	31	25	21	20	13	22	17	14	14	9	15	12	9	9	6	86	576-1	323	3879	4121	4772
≥ 4	12	4	7	7	3	7	7	7	4	2	5	4	2	3	6	86	996-1	166	4090	4756	4982

HOURS DURATION OF EVENTS

27 — 36.2N 127.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41	1	4		1				1									24-1	6	13	13	4545
≥34	7	9	3	2	1	1	1		1								54-1	25	69	69	4545
≥28	22	15	7	7	3		1	1		3	2						66-2	61	183	189	4545
≥22	52	28	19	13	14	4	10	3	2		1	1		3	1	3	114-1	154	557	567	4548
≥17	65	43	35	23	25	14	5	11	10	5	6	1	2	3	1	14	198-1	263	1261	1281	4572
≥11	51	28	23	27	25	18	16	14	12	10	11	7	6	10	3	48	324-1	309	2588	2703	4611
≥ 7	41	23	19	13	15	12	10	12	6	12	11	10	4	4	2	75	708-1	269	3489	3733	4695
≥ 4	22	11	12	8	5	7	5	4	3	5	4	9	2	2	6	76	1002-1	181	3969	4369	4747

HOURS DURATION OF EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1															12-1	1	2	2	4545
≥48	6	1	1	1													24-1	9	15	15	4545
≥41	16	3	4	4	1												30-1	28	55	59	4545
≥34	36	25	12	5	4	2	2	1									54-1	87	197	203	4545
≥28	56	35	28	22	19	5	3	5	2							1	108-1	176	520	531	4545
≥22	89	54	40	34	26	7	12	9	7	4	4	3	3		1	7	168-1	300	1162	1198	4561
≥17	79	55	44	42	36	28	16	9	9	14	6	5	4	4	4	21	198-1	376	2009	2093	4576
≥11	61	35	31	28	30	26	23	19	15	9	11	7	5	7	8	49	348-2	364	3058	3368	4635
≥ 7	30	11	19	20	9	14	12	11	9	11	7	11	5	7	7	80	576-1	263	3521	4136	4674
≥ 4	7	5	1	10	6	1	4	1	3	1	7	3	1	3	3	68	870-1	124	3624	4733	4911

HOURS DURATION OF EVENTS

30 — 35.7N 176.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	2	3		1													24-1	6	12	12	4545
≥41	15	3	4		1												30-1	23	38	38	4545
≥34	42	21	10	4	5	2	1										42-1	85	174	174	4546
≥28	60	33	30	17	10	4	5	3	2	1		1		1		1	96-1	168	487	487	4547
≥22	78	53	40	38	18	14	17	6	12	5	3		1		1	1	96-1	287	1032	1056	4555
≥17	81	53	45	45	21	20	15	21	10	12	11	6	5	5	5	10	222-1	365	1828	1874	4580
≥11	58	44	40	35	37	27	25	26	19	10	17	9	9	8	6	41	288-1	411	3044	3242	4658
≥ 7	31	17	17	17	14	16	15	12	17	7	8	14	16	8	10	84	456-1	303	3743	4069	4707
≥ 4	3	9	5	5	7	7	5	4	4	5	5		7	8	4	83	720-1	161	3968	4640	4867

HOURS DURATION OF EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	2		1														18-1	3	5	5	4545
≥41	7	5	2														18-2	14	23	23	4545
≥34	16	10	11	2	3	1											36-1	43	98	98	4545
≥28	31	26	13	14	9	4	2	2		1	3						66-3	105	320	321	4545
≥22	55	43	32	10	18	4	9	12	4	2	4		1			7	162-1	201	797	811	4545
≥17	65	41	35	37	17	22	13	8	7	4	6	5		6	5	16	246-1	287	1527	1578	4557
≥11	43	29	28	25	24	16	18	15	13	9	7	1	5	4	6	56	720-1	299	2732	2917	4578
≥ 7	44	16	16	17	16	11	16	8	5	10	9	6	6	3	4	80	816-1	267	3628	3956	4689
≥ 4	9	9	4	9	3	6	1	2	4	2		1	4	3	4	71	990-1	132	4028	4566	4796

HOURS DURATION OF EVENTS

33 — 34.6N 145.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1																6-1	1	1	1	4545
≥41	4	2															12-2	6	8	8	4545
≥34	9	4	2	1													24-1	16	27	27	4545
≥28	41	19	8	3	3	2											36-2	76	142	142	4545
≥22	66	45	36	19	9	7	3	4	4	1							60-1	194	526	526	4546
≥17	88	72	56	42	25	12	14	12	4	2	5	3		1	2	2	204-1	340	1202	1204	4551
≥11	71	64	67	56	34	43	20	10	22	18	16	7		5	4	22	216-1	459	2512	2556	4580
≥ 7	51	34	34	32	29	19	30	22	16	14	12	9	6	7	11	63	636-1	389	3485	3701	4612
≥ 4	15	13	8	14	12	5	10	5	13	5	9	3	7	5	4	91	906-1	219	3935	4514	4858

HOURS DURATION OF EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1			1													24-1	2	5	5	4545
≥41	3				1												36-1	4	9	9	4545
≥34	14	6	3	2	1		1										48-1	27	56	56	4545
≥28	49	26	10	10	2	1	1	2		1							60-1	102	220	220	4545
≥22	95	62	37	30	14	9	5	3	5	3	3						66-3	266	741	755	4551
≥17	90	75	52	41	30	18	19	20	11	8	5	2	2	5	1	7	126-1	386	1607	1635	4577
≥11	63	51	41	42	35	25	25	22	19	13	16	8	12	8	3	44	198-1	427	2910	3032	4619
≥ 7	24	25	19	16	10	14	15	12	11	16	15	6	12	15	6	84	420-1	300	3716	3990	4664
≥ 4	10	4	4	4	7	5	4	2	5	4	1	3	5	4	5	93	1362-1	160	4054	4715	4947

HOURS DURATION OF EVENTS

36 — 33.7N 123.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1																6-1	1	1	1	4545
≥41	2	3															12-3	5	8	8	4545
≥34	17	6	8	4	1												30-1	36	74	74	4545
≥28	30	12	10	9	10	3	3		2								54-2	79	227	227	4545
≥22	66	27	15	13	14	8	3	6	3							2	150-1	139	559	564	4559
≥17	54	37	31	26	17	16	14	15	14	8	3	3	3		1	6	270-1	248	1191	1207	4580
≥11	62	28	32	25	20	24	21	15	14	9	5	10	9	9	6	42	282-1	331	2555	2643	4627
≥ 7	33	25	25	15	14	21	15	14	17	5	10	12	7	6	9	72	474-1	300	3477	3686	4677
≥ 4	21	12	18	7	5	8	10	10	10	9	2	4	4	5	2	84	1128-1	211	3860	4312	4874

HOURS DURATION OF EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	5	1															12-1	6	7	7	4545
≥28	10	8	3	2	1		1										42-1	25	55	55	4545
≥22	37	13	13	5	5	4	3	1	1	1	1			1			84-1	85	244	244	4546
≥17	71	39	32	20	10	10	9	7	3	2	2	1	2		1	8	126-2	217	817	820	4550
≥11	69	41	24	27	17	10	20	14	11	11	10	8	5	4	6	34	252-2	311	2126	2183	4594
≥ 7	81	34	29	17	16	7	9	11	13	11	6	5	4	10	7	72	582-1	332	3331	3499	4770
≥ 4	43	22	8	10	11	6	7	10	1	7	7	5	4	4	4	82	954-1	231	3931	4419	4888

HOURS DURATION OF EVENTS

39 — 29.9N 177.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1																6-1	1	1	1	4545
≥41	3	1	1	1													24-1	6	12	12	4545
≥34	8	5	2	1	2		1										48-1	19	46	46	4545
≥28	25	8	5	5	6	2	2				1		1				84-1	55	158	158	4547
≥22	50	31	26	19	12	5	4	3	1	3		2	1	2		1	102-1	160	529	536	4547
≥17	69	34	34	26	9	24	10	8	8	5	4	1		2	4	11	240-1	249	1175	1197	4551
≥11	70	32	30	35	22	14	19	19	12	13	11	10	7	6	5	36	282-1	341	2408	2534	4577
≥ 7	65	31	22	20	14	17	11	8	14	16	14	6	7	8	6	67	594-1	326	3235	3558	4585
≥ 4	20	10	12	10	3	7	4	8	2	5	7	7	3	6	9	79	720-1	192	3816	4372	4710

HOURS DURATION OF EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41	2																6-2	2	2	2	4545
≥34	6																6-6	6	6	6	4545
≥28	13	5	1	2	1		1										42-1	23	46	46	4545
≥22	28	14	16	4	3	1	5	2	1		1			1			84-1	76	226	226	4545
≥17	68	42	27	18	5	5	8	8	3	1	3	1	2	2	1	4	150-1	198	705	708	4545
≥11	106	37	41	18	32	25	20	13	11	7	9	3	5	7	4	29	252-1	367	2114	2161	4589
≥ 7	68	41	18	16	17	25	17	15	14	7	10	18	14	9	8	62	468-1	359	3374	3474	4627
≥ 4	26	23	8	4	3	8	8	4	8	8	2	8	9	4	5	91	804-1	219	3897	4410	4830

HOURS DURATION OF EVENTS

42 — 28.8N 139.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	2															1	6-2	2	2	2	4545
≥28	11	4	2		1												30-1	18	30	30	4545
≥22	25	6	7	6	1	2	2	1	1	1						1	114-1	53	159	159	4545
≥17	72	26	27	10	9	10	3	2	6	3			2	3		5	156-1	178	640	642	4557
≥11	113	37	28	24	18	14	15	9	3	10	9	7	3	3	4	37	438-1	336	2144	2181	4647
≥ 7	65	23	19	14	14	14	9	8	14	15	6	12	8	1	1	74	654-1	297	3424	3859	4788
≥ 4	35	8	6	10	11	11	1	6	8	6	2	5	3	3	2	79	1626-1	196	4281	4695	5347

HOURS DURATION OF EVENTS

FALL

43 28.2N 125.9E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1																6-1	1	1	1	4545
≥41	4	1	1														18-1	6	9	9	4545
≥34	18	4	2	1	1	3	1		1								54-1	31	75	75	4545
≥28	32	13	11	12	4	3		4	5	1	2			1	1		90-1	89	315	315	4546
≥22	70	23	23	15	20	9	12	4	3	8	1	3	2	3	2	9	180-1	207	944	949	4564
≥17	103	28	22	15	23	6	20	9	11	5	11	4	2	1	4	35	216-1	299	1872	1935	4578
≥11	73	16	17	10	16	9	12	13	11	6	6	6	8		4	66	588-1	273	3188	3477	4694
≥7	25	12	8	7	5	6	3	6	9	6	6		2	5	3	65	804-1	168	3799	4484	4974
≥4	9	8	6	4	2	3	2	2	4	5	4	1		1		50	1542-1	101	3792	5069	5301

HOURS DURATION OF EVENTS

44 27.9N 150.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	1	2															12-2	3	5	5	4545
≥28	11	3	1	2	1												30-1	18	33	33	4545
≥22	30	15	16	4	2	5	1	1		1	1						66-1	76	200	200	4547
≥17	64	35	21	13	10	12	6	8	2	1	2		2		4	2	120-2	182	653	681	4554
≥11	108	42	42	22	29	18	22	17	12	9	12	6	5	6	5	16	174-1	371	1910	1976	4561
≥7	86	44	36	26	23	16	18	16	14	12	9	14	12	8	6	59	300-1	399	3094	3261	4594
≥4	40	20	8	15	8	10	11	11	6	12	13	8	6	5	3	93	420-1	269	3767	4171	4687

HOURS DURATION OF EVENTS

46 26.1N 170.8E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34				1													18-1	1	3	3	4545
≥28	7	2	3								1						66-1	13	31	31	4545
≥22	33	11	11	6	2	4	1	1	2							1	102-1	72	196	196	4545
≥17	68	25	22	13	10	9	7	4	5	3	3	4	2	3		1	156-1	179	671	709	4545
≥11	85	46	44	27	19	15	18	12	7	3	5	7	8	4	2	31	420-1	333	2036	2125	4554
≥7	87	25	18	10	20	12	18	21	15	11	12	5	4	6	9	55	708-1	328	3144	3371	4575
≥4	34	21	18	6	6	4	5	7	5	9	9	5	12	2	2	76	822-1	221	3655	4162	4602

HOURS DURATION OF EVENTS

47 25.0N 119.4W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	1																6-1	1	1	1	4545
≥28	1																6-1	1	1	1	4545
≥22	7	2	1		2												30-2	12	24	24	4548
≥17	77	26	12	7	8	3	2	1				1					78-1	137	286	293	4552
≥11	172	51	32	29	28	18	13	20	14	10	13	2	6	3	4	19	216-1	434	1941	1993	4599
≥7	72	34	20	13	8	7	11	13	6	13	6	1	8	4	9	72	582-1	297	3395	3661	4746
≥4	22	11	10	9	7	1	3	6	4	3	6	4	5	2	5	68	1074-1	166	3812	4492	4890

HOURS DURATION OF EVENTS

49 22.6N 128.0E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	2																6-2	2	2	2	4545
≥41	4	1	1														18-1	6	9	9	4545
≥34	15	4	4			1				1							72-1	25	54	54	4545
≥28	46	16	13	3	6	2	2	2		1		1		1		2	96-2	95	269	275	4545
≥22	83	33	28	13	9	11	7	8	10	5	2	5	3		2	10	210-1	229	1002	1015	4545
≥17	93	27	28	10	22	15	9	9	14	9	5	5	6	2	9	34	306-2	297	1936	2053	4568
≥11	54	23	13	6	9	4	6	3	6	5	10	3	3	6	5	67	642-1	223	3041	3462	4641
≥7	30	10	10	5	8	3	3	3	1	6	4	1	1	2	5	67	1020-1	159	3493	4251	4768
≥4	10	6	3	5	1	3	2	3	3	1	3		2	1	1	48	1980-1	92	3739	5048	5210

HOURS DURATION OF EVENTS

50 21.7N 162.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	1																6-1	1	1	1	4545
≥28	7	4	2														18-2	13	21	21	4545
≥22	39	13	8	4	6	1	2		2	1							60-1	76	183	184	4545
≥17	100	28	20	11	17	12	9	6	14		1	2	3		1	4	180-1	228	838	843	4552
≥11	142	37	28	18	22	11	12	10	5	6	8	6	6	4	4	38	516-1	357	2465	2550	4584
≥7	87	18	21	14	14	5	11	8	8	7	5	2	3	5	7	71	720-1	286	3590	3785	4696
≥4	39	15	8	4	7	5	3	4	6	1	3	3		1	2	75	1170-1	176	4078	4508	4839

HOURS DURATION OF EVENTS

52 19.2N 127.8W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41	1																6-1	1	1	1	4545
≥34	5		1														18-1	6	8	8	4545
≥28	11	7	2	2	1		2										42-2	25	58	58	4548
≥22	49	17	13	7	4	3	2	2	1	1	2				1	2	108-2	104	310	324	4563
≥17	160	45	39	21	17	8	8	6	6	4	7	3	3		3	8	366-1	338	1176	1211	4620
≥11	120	34	31	23	17	8	11	14	8	8	8	5	10	7	4	66	486-1	374	3324	3536	4709
≥7	40	9	3	5	3	5	2	1	2	3	5	1	2	2	1	61	1830-1	145	3911	4820	5104
≥4	4	5	6		1		1		1						1	27	SEA-2	46	3247	5370	5440

HOURS DURATION OF EVENTS

53 18.5N 120.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64	3																6-3	3	3	3	4545
≥48	10	3	2	2	2												30-2	19	40	40	4545
≥41	23	5	3	3	1	1	3	1	1	1							60-1	42	113	113	4545
≥34	56	24	12	9	11	2	5	3	1	2		1	1	1			84-1	128	370	371	4545
≥28	112	35	19	11	9	8	8	9	5	7	4	2	3	2	3	6	138-1	243	915	929	4553
≥22	127	53	31	27	14	17	7	8	7	8	4	6	6	6	5	21	402-1	347	1780	1915	4559
≥17	113	39	25	19	20	9	14	15	7	9	6	6	6	7	4	47	576-1	346	2636	2912	4625
≥11	57	29	22	6	7	6	11	8	5	2		1	5	2	3	68	900-1	232	3516	4043	4757
≥7	148	70	53	27	29	16	13	10	12	15	7	9	6	7	9	49	1998-1	126	3521	4698	5001
≥4	13	3	2	1	6		2	2		2	2	1	1	1	1	23	SEA-2	60	3129	4943	5035

HOURS DURATION OF EVENTS

55 17.6N 138.5E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	5																6-5	5	5	5	4545
≥41	7	2	2						1								54-1	12	26	26	4545
≥34	12	8	4	2	2	1	1			1						1	60-1	31	81	81	4545
≥28	32	8	7	3	1	4	5	1	4	1	1	1	1			1	108-1	70	253	254	4545
≥22	65	34	21	8	9	4	6	1	1	6	3	2		3	1	5	264-1	169	663	687	4545
≥17	122	35	30	14	15	17	15	6	3	6	4	7	4	7	3	18	396-1	306	1504	1595	4565
≥11	94	29	20	13	13	8	14	8	10	7	10	7	6	4	6	55	600-1	304	2896	3179	4704
≥7	59	17	18	10	5	7	2	5	4	4	1	1	3	1	2	71	1080-1	210	3732	4480	5099
≥4	16	4	7	8	4	1	3	2	1	3	1	1	2	1	1	47	SEA-1	102	3872	5310	5483

HOURS DURATION OF EVENTS

56 17.6N 111.5W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41	1																6-1	1	1	1	4545
≥34	1																6-1	1	1	1	4545
≥28		2															12-2	2	4	4	4545
≥22	19	4	3	1		1	1										42-1	29	53	53	4545
≥17	71	27	16	4	1	4	3		1		1					1	108-1	129	277	279	4547
≥11	201	90	51	30	11	14	16	11	13	6	5	4	1	3	2	8	264-1	466	1536	1599	4581
≥7	148	70	53	27	29	16	13	10	12	15	7	9	6	7	9	49	450-1	480	3153	3344	4736
≥4	58	29	18	13	14	12	4	5	11	7	5	7	3	5	4	78	840-1	273	4014	4484	5062

HOURS DURATION OF EVENTS

58 14.5N 127.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4541
≥48	2																6-2	2	2	2	4541
≥41	1	3															12-3	4	7	7	4541
≥34	6	6	2		1	1											36-1	16	35	35	4541
≥28	16	7	5	3	6		1		1	1							66-1	41	124	124	4541
≥22	55	18	13	9	4	1	4	2	4	2	4	1	3	3		1	108-1	124	447	453	4546
≥17	95	31	27	14	9	8	11	3	4	1	7	3	5	5	3	13	228-1	239	1132	1180	4590
≥11	135	48	32	23	8	7	13	7	6	4	4	6	2	9	6	40	408-1	350	2418	2632	4630
≥7	84	20	19	15	15	14	7	5	4	4	8	3	3	3	5	58	684-1	267	3164	3955	4867
≥4	43	17	8	3	7	3	3	2	2	2	5	2	3	1	3	52	SEA-1	156	3737	5171	5459

HOURS DURATION OF EVENTS

59 14.0N 160.6W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48	1																6-1	1	1	1	4545
≥41																				3	4545
≥34																				3	4545
≥28	10	1															12-1	11	12	15	4545
≥22	49	9	11		2	2	1	1		1		1					78-1	77	161	164	4548
≥17	135	31	40	11	10	8	9	4	8	5	3	1	2	1		6	276-1	274	935	951	4583
≥11	140	41	53	12	7	8	16	10	13	6	10	3	1	3	2	43	876-1	368	2616	2890	4643
≥7	55	17	13	8	5	6	7	3	5	5	5	2	1	3	2	66	1680-1	203	3769	4482	4977
≥4	17	5	3	1	1	2		4			1	1	1			38	SEA-2	74	4007	5373	5483

HOURS DURATION OF EVENTS

61 12.0N 156.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34	1		1														18-1	2	4	4	4545
≥28	3								1								60-1	4	13	13	4545
≥22	36	15	2			2							1				84-1	56	98	103	4545
≥17	111	31	18	5	11	9	1	3	3	1		1	2			4	258-1	200	557	563	4580
≥11	144	36	40	15	11	10	12	12	3	8	8	1	8	5	2	40	390-1	355	2338	2642	4796
≥7	77	20	20	8	6	5	2	4	1	3	5	1	1	1	2	50	SEA-1	206	3715	4482	5236
≥4	31	11	7	7	6	3	3	2	4	2	1	2	2	1		26	SEA-2	108	3177	5166	5398

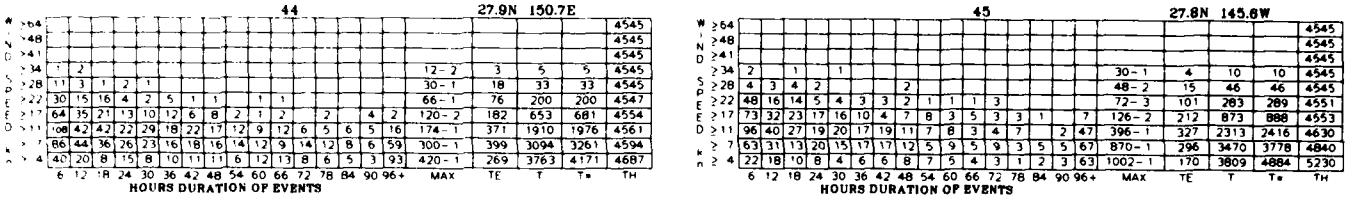
HOURS DURATION OF EVENTS

62 4.1N 106.7E

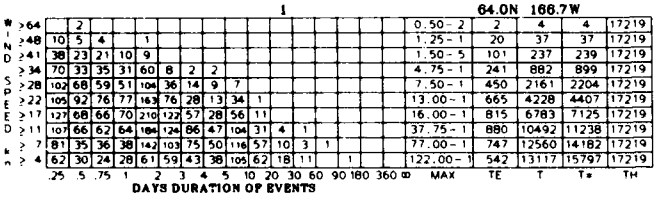
WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																					4545
≥48																					4545
≥41																					4545
≥34		1															12-1	1	2	2	4545
≥28		1		1													24-1	2	6	6	4545
≥22	2	3									1						66-1	7	23	23	4545
≥17	4	5	2	4		1								1			84-1	17	57	57	4545
≥11	16	8	4	4	1	2	2			1	1					4	162-1	43	195	195	4550
≥7	87	31	13	5	9	3	3	2	1	2	2	1	2	1	2	9	354-1	173	703	792	4569
≥4	120	50	24	15	9	8	1	2	5	3	1	4	3		2	28	1478-1	275	2580	2963	5371

HOURS DURATION OF EVENTS

WIND SPEED DURATIONS (Cont'd)



WIND SPEED DURATIONS



1 64.0N 166.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64		2															0.50 - 2	2	4	4	17219
≥48	10	5	4		1												1.25 - 1	20	37	37	17219
≥41	38	23	21	10	9												1.50 - 5	101	237	239	17219
≥34	70	33	35	31	60	8	2	2									4.75 - 1	241	882	899	17219
≥28	102	68	59	51	104	36	14	9	7								7.50 - 1	450	2161	2204	17219
≥22	105	92	76	77	163	76	28	13	34	1							13.00 - 1	665	4228	4407	17219
≥17	127	68	66	70	210	122	57	28	56	11							16.00 - 1	815	6783	7125	17219
≥11	107	66	62	64	184	124	86	47	104	31	4	1					37.75 - 1	880	10492	11238	17219
≥ 7	81	35	36	38	142	103	75	50	116	57	10	3	1				77.00 - 1	747	12560	14182	17219
≥ 4	62	30	24	28	61	59	43	38	105	62	18	11		1			122.00 - 1	542	13117	15797	17219

DAYS DURATION OF EVENTS

2 59.4N 172.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	1	3															0.50 - 3	4	7	7	17217
≥48	18	12	11	5		1											3.00 - 1	47	107	111	17217
≥41	39	34	29	17	18			1									5.25 - 1	138	383	389	17217
≥34	101	75	44	33	63	16	1		1								8.25 - 1	334	1092	1103	17217
≥28	116	96	87	58	144	39	8	6	6								8.75 - 1	560	2430	2461	17217
≥22	132	90	90	89	226	94	33	15	20	2							10.25 - 2	791	4680	4754	17217
≥17	161	97	88	87	268	133	63	30	47	8							17.50 - 1	982	7170	7465	17217
≥11	94	68	62	62	220	173	99	66	92	33	2						22.50 - 1	971	11062	11856	17217
≥ 7	71	34	29	24	119	116	76	61	135	70	10	2					42.25 - 1	747	13380	14750	17217
≥ 4	40	12	17	7	37	37	33	20	98	72	23	14	1				66.00 - 1	411	13427	16280	17217

DAYS DURATION OF EVENTS

4 56.8N 174.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	6	4	2														0.75 - 2	12	20	20	17219
≥48	46	26	20	11	12	3											3.00 - 1	118	303	308	17219
≥41	67	54	36	32	40	8	1	2									4.25 - 2	240	778	791	17219
≥34	108	71	62	48	102	19	9		5								7.50 - 2	424	1709	1739	17219
≥28	132	93	80	74	175	47	18	7	16								8.50 - 1	642	3208	3268	17219
≥22	133	76	98	75	257	97	31	30	34	2							13.00 - 1	833	5539	5672	17219
≥17	156	93	99	73	278	147	59	40	60	16							19.75 - 1	1021	8162	8419	17219
≥11	116	73	66	43	221	145	89	76	121	37	5						24.25 - 1	992	11938	12488	17219
≥ 7	64	36	26	30	97	104	69	56	146	71	14	1					44.25 - 1	714	13487	15039	17219
≥ 4	27	15	20	11	37	32	25	22	87	80	27	14	1				84.25 - 1	398	13866	16402	17219

DAYS DURATION OF EVENTS

5 56.8N 141.9W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64																	0.00 - 0				17219
≥48	13	8	6														0.75 - 6	27	47	47	17219
≥41	44	30	15	12	5												2.00 - 1	106	227	227	17219
≥34	80	74	40	28	40	5											2.50 - 2	267	739	741	17219
≥28	130	95	66	55	107	22	7										3.50 - 3	482	1698	1720	17219
≥22	172	134	113	72	215	67	16	3	10								7.50 - 1	802	3607	3664	17219
≥17	190	157	114	103	262	129	48	19	31								10.00 - 1	1053	6080	6208	17219
≥11	157	106	116	101	291	189	81	50	92	10							18.75 - 1	1193	10139	10522	17219
≥ 7	105	59	76	60	149	160	93	64	151	49	3						22.75 - 2	969	12939	13868	17219
≥ 4	38	45	19	28	73	67	41	39	127	76	26	7					40.00 - 1	586	14151	15936	17219

DAYS DURATION OF EVENTS

7 53.4N 164.7E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	4																0.25 - 4	4	4	5	17218
≥48	26	14	12	3	2												1.75 - 1	57	114	116	17218
≥41	50	37	23	20	12		2										3.25 - 2	144	368	374	17218
≥34	90	84	56	36	59	9	3	1									4.25 - 1	338	1056	1071	17218
≥28	111	89	90	73	130	28	11	4	4								6.25 - 1	540	2253	2301	17218
≥22	160	109	112	91	215	81	29	12	14	2							16.75 - 1	825	4345	4435	17218
≥17	160	126	105	104	309	126	64	20	38	3	1						21.25 - 1	1056	6996	7184	17218
≥11	142	81	78	91	269	177	99	61	98	23	1						24.00 - 1	1120	10940	11439	17218
≥ 7	66	55	45	41	171	125	63	65	145	63	7	1					44.25 - 1	847	13363	14441	17218
≥ 4	34	26	22	14	59	48	29	32	111	78	27	9					55.50 - 1	489	13952	16146	17218

DAYS DURATION OF EVENTS

8 52.0N 172.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	13	4	1		1												1.25 - 1	19	29	29	17219
≥48	43	24	25	8	6												2.00 - 2	106	236	236	17219
≥41	95	65	40	21	27	3											2.75 - 1	251	617	626	17219
≥34	142	119	86	56	84	11	4										3.75 - 1	502	1535	1553	17219
≥28	190	157	120	101	161	46	13	6	3								5.50 - 1	797	3037	3076	17219
≥22	204	132	148	121	274	108	37	19	19								10.00 - 1	1062	5565	5701	17219
≥17	171	141	132	103	322	152	85	37	48	6							11.75 - 1	1197	8257	8532	17219
≥11	150	87	80	75	269	146	108	68	134	30							18.75 - 1	1147	12061	12666	17219
≥ 7	60	28	42	30	131	90	75	58	157	73	5	3					45.25 - 1	752	13880	15204	17219
≥ 4	31	13	5	11	41	29	27	25	100	70	24	16	2				65.75 - 1	394	13930	16468	17219

DAYS DURATION OF EVENTS

10 51.7N 135.6W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	1	1															0.50 - 1	2	3	3	17219
≥48	36	22	10	4													1.00 - 4	72	126	126	17219
≥41	97	55	26	12	12	1											2.25 - 1	203	404	407	17219
≥34	139	108	82	56	53	6											3.00 - 1	444	1181	1190	17219
≥28	193	154	110	91	151	27	10										4.00 - 3	736	2509	2542	17219
≥22	199	186	138	117	270	74	45	16	7								7.75 - 1	1050	4988	5055	17219
≥17	198	144	129	75	304	142	71	30	65	1							10.50 - 1	1156	7870	8012	17219
≥11	137	85	87	63	239	142	108	64	120	31	3						24.50 - 1	1079	11924	12406	17219
≥ 7	68	41	26	42	111	88	63	50	166	65	16	3					46.75 - 1	739	14117	15037	17219
≥ 4	22	23	12	11	45	25	24	19	92	69	32	17	1				68.75 - 1	392	14534	16435	17219

DAYS DURATION OF EVENTS

11 51.3N 158.8W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	4	2	1														0.75 - 1	7	11	11	17219
≥48	35	12	9	3	8												1.75 - 1	67	142	142	17219
≥41	99	52	31	19	19	1											2.25 - 1	221	489	491	17219
≥34	177	123	67	51	67	10	3										4.00 - 1	498	1364	1380	17219
≥28	255	170	124	90	188	32	13	3	2								6.50 - 1	877	3106	3151	17219
≥22	236	166	163	115	300	111	46	18	13								9.00 - 1	1188	5967	6119	17219
≥17	179	179	131	129	309	164	99	38	63	2							11.75 - 1	1293	9046	9353	17219
≥11	114	75	82	72	208	151	90	58	151	45	4						26.00 - 1	1050	12846	13491	17219
≥ 7	50	34	38	26	97	75	72	46	156	79	13	4					39.50 - 2	690	14337	15607	17219
≥ 4	21	7	8	10	29	25	27	18	69	61	33	24					59.00 - 1	332	13866	16677	17219

DAYS DURATION OF EVENTS

13 50.3N 171.3W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	4																0.25 - 4	4	4	6	17218
≥48	38	20	11	5	3												1.50 - 2	77	148	154	17218
≥41	97	54	24	11	23	1											2.50 - 1	210	475	485	17218
≥34	176	115	74	40	59	11	1	1									5.00 - 1	477	1291	1316	17218
≥28	211	174	112	98	156	42	7	3	3								5.75 - 1	806	2888	2932	17218
≥22	204	211	148	100	208	108	35	16	13	1							12.00 - 1	1122	5527	5651	17218
≥17	218	163	137	153	318	181	64	37	46	6							15.25 - 1	1323	8531	8820	17218
≥11	141	80	72	81	239	183	100	72	126	34	1						20.75 - 1	1129	12389	13013	17218
≥ 7	59	36	35	35	116	92	69	68	152	75	11	2					35.00 - 1	750	14107	15365	17218
≥ 4	25	9	10	7	31	29	31	20	92	88	22	12	2				70.00 - 1	378	13586	16532	17218

DAYS DURATION OF EVENTS

14 49.3N 174.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	10	2	1		2												1.25 - 2	15	27	27	17219
≥48	71	44	15	8	14												2.00 - 2	152	319	321	17219
≥41	110	79	42	26	31	3											3.00 - 1	291	713	726	17219
≥34	178	150	85	64	82	17	1	1									4.50 - 1	578	1677	1695	17219
≥28	236	148	158	116	182	52	7	4	3								6.25 - 1	906	3343	3395	17219
≥22	218	179	158	140	321	114	39	24	13								8.50 - 1	1206	6036	6149	17219
≥17	196	147	153	125	347	149	92	44	55	5							14.75 - 1	1313	8893	9117	17219
≥11	132	85	81	74	266	173	111	65	127	33							16.25 - 1	1157	12501	13187	17219
≥ 7	52	42	40	29	109	88	81	62	135	73	17	1					30.75 - 1	730	14123	15466	17219
≥ 4	20	9	11	11	34	33	31	22	61	71	28	19	2				68.75 - 1	356	13936	16637	17219

DAYS DURATION OF EVENTS

16 47.1N 161.2E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	7	3	2														0.75 - 2	12	19	19	17217
≥48	58	38	16	5	2												1.50 - 1	119	213	213	17217
≥41	122	82	58	13	24	2											2.50 - 1	301	667	668	17217
≥34	168	135	108	66	88	11	1										3.25 - 1	577	1682	1692	17217
≥28	227	187	144	107	195	49	12										4.00 - 3	921	3301	3301	17217
≥22	220	191	173	138	298	125	47	14	7								10.00 - 1	1211	5890	5995	17217
≥17	214	164	159	137	351	175	87	42	42	2							10.75 - 1	1373	8692	8943	17217
≥11	141	93	101	83	271	184	115	65	133	25							17.75 - 1	1211	12333	12951	17217
≥ 7	68	35	37	28	141	93	82	66	146	78	4	4					45.00 - 1	782	13988	15332	17217
≥ 4	16	9	13	13	34	25	34	27	114	65	23	14	2				68.75 - 1	399	13685	16569	17217

DAYS DURATION OF EVENTS

17 45.8N 139.3E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2	1	1														0.75 - 1	4	7	7	17217
≥48	19	5	1	3	4												1.75 - 1	32	69	69	17217
≥41	38	24	18	8	9	4											2.75 - 1	101	266	266	17217
≥34	66	58	29	21	42	13	3										3.50 - 1	232	769	770	17217
≥28	167	83	67	42	87	24	13	2	1								5.75 - 1	486	1712	1754	17217
≥22	229	167	120	80	181	54	15	10	9	1							14.50 - 1	866	3601	3678	17217
≥17	256	165	150	118	253	111	46	21	25	5							15.00 - 1	1151	6132	6277	17217
≥11	204	145	126	122	291	158	106	53	76	18							15.50 - 2	1299	10183	10560	17217
≥ 7	145	92	80	62	224	145	105	70	128	37	3	2					45.00 - 1	1091	12639	13495	17217
≥ 4	121	71	57	38	135	113	81	60	128	62	11	2					45.00 - 1	879	13168	14269	17217

DAYS DURATION OF EVENTS

19 44.3N 177.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	7	4	1		1												1.00 - 1	12	19	19	17219
≥48	78	29	16	6	12												2.00 - 1	141	277	283	17219
≥41	116	79	51	21	29	4											2.50 - 3	300	719	726	17219
≥34	215	120	97	56	99	15	2	4									5.00 - 1	608	1817	1832	17219
≥28	263	190	143	94	214	56	13	8	4								6.25 - 1	985	3708	3756	17219
≥22	263	193	162	137	308	127	43	26	17	1							12.50 - 1	1277	6474	6675	17219
≥17	200	161	142	125	338	170	88	43	59	9							13.00 - 1	1335	9311	9657	17219
≥11	118	93	76	72	206	164	98	72	149	39	2						28.00 - 1	1083	12730	13456	17219
≥ 7	38	48	30	30	115	86	69	57	144	73	17	3					45.00 - 1	710	14230	15533	17219
≥ 4	19	11	13	11	29	36	18	18	67	79	28	16	1				74.50 - 1	346	13577	16629	17219

DAYS DURATION OF EVENTS

20 44.2N 152.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	3	1															0.50 - 1	4	5	6	17218
≥48	42	20	6	4	2												1.25 - 2	74	126	130	17218
≥41	101	50	29	19	11	2											2.50 - 1	212	447	459	17218
≥34	187	109	74	57	74	12	1	1									4.50 - 1	515	1431	1451	17218
≥28	210	159	119	113	184	39	14	3	1								5.75 - 1	842	3142	3205	17218
≥22	249	175	122	101	205	111	55	17	18	2							13.00 - 1	1135	5922	6079	17218
≥17	186	148	107	103	258	134	93	34	81	9							15.00 - 1	1153	8798	9150	17218
≥11	119	59	76	54	183	111	79	70	132	54	3						25.50 - 1	940	12194	13134	17218
≥ 7	55	32	27	26	99	58	40	51	128	84	16	5					43.75 - 1	621	13614	15357	17218
≥ 4	19	8	25	10	34	18	22	25	52	71	23	22	4				67.50 - 1	333	13469	16497	17218

DAYS DURATION OF EVENTS

ANNUAL

2 — 59.4N 172.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	1	3															0.50 - 3	4	7	7	17217
≥48	18	12	11	5		1											3.00 - 1	47	107	111	17217
≥41	39	34	29	17	18			1									5.25 - 1	138	383	389	17217
≥34	101	75	44	33	63	16	1		1								8.25 - 1	334	1092	1103	17217
≥28	116	96	87	58	144	39	8	6	6								8.75 - 1	560	2430	2461	17217
≥22	132	90	90	89	226	94	33	15	20	2							10.25 - 2	791	4680	4754	17217
≥17	161	97	88	87	268	133	63	30	47	8							17.50 - 1	982	7170	7465	17217
≥11	94	68	62	62	220	173	99	66	92	33	2						22.50 - 1	971	11062	11856	17217
≥ 7	71	34	29	24	119	116	76	61	135	70	10	2					42.25 - 1	747	13380	14750	17217
≥ 4	40	17	17	7	37	37	33	20	98	72	23	14	1				66.00 - 1	411	13427	16280	17217

DAYS DURATION OF EVENTS

3 — 58.5N 151.6W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2	1															0.50 - 1	3	4	4	17219
≥48	11	7	5		1												1.25 - 1	24	45	45	17219
≥41	36	23	10	4	9												2.00 - 2	82	179	179	17219
≥34	88	58	49	26	30	4											3.00 - 1	255	664	664	17219
≥28	129	96	96	49	99	19	5	2	1								5.25 - 1	492	1712	1724	17219
≥22	176	115	143	108	203	60	18	8	9								7.50 - 1	840	3765	3810	17219
≥17	189	138	121	125	291	108	51	24	27	2							14.75 - 1	1056	6246	6405	17219
≥11	152	115	110	81	321	156	77	48	91	19	2						21.75 - 1	1182	10217	10587	17219
≥ 7	112	67	67	58	197	138	96	76	139	45	5						30.00 - 1	1000	12998	13789	17219
≥ 4	64	29	34	26	96	67	60	48	142	70	16	5	1				66.75 - 1	658	13920	15662	17219

DAYS DURATION OF EVENTS

5 — 56.8N 141.9W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64																	0.00 - 0				17219
≥48	13	8	6														0.75 - 6	27	47	47	17219
≥41	44	30	15	12	5												2.00 - 1	106	227	227	17219
≥34	80	74	40	28	40	5											2.50 - 2	267	739	741	17219
≥28	130	95	66	55	107	22	7										3.50 - 3	482	1698	1720	17219
≥22	172	134	113	72	215	67	16	3	10								5.50 - 1	802	3607	3664	17219
≥17	190	157	114	103	262	129	48	19	31								10.00 - 1	1053	6080	6208	17219
≥11	157	108	116	101	291	189	81	50	92	10							18.75 - 1	1193	10139	10522	17219
≥ 7	105	59	76	60	149	160	93	64	151	49	3						22.75 - 2	969	12939	13868	17219
≥ 4	38	45	19	28	73	67	41	39	127	76	26	7					40.00 - 1	586	14151	15936	17219

DAYS DURATION OF EVENTS

6 — 54.9N 167.1W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2																0.25 - 2	2	2	2	17217
≥48	25	16	5	2													1.00 - 2	48	80	86	17217
≥41	53	43	21	8	8												2.00 - 1	133	280	288	17217
≥34	122	73	64	33	47	4	1	1									5.00 - 1	345	943	956	17217
≥28	183	110	111	71	124	29	5	1	2								5.50 - 2	636	2198	2230	17217
≥22	242	150	160	97	251	90	35	9	6								8.25 - 1	1040	4686	4779	17217
≥17	227	125	140	132	331	161	81	33	31	1							11.00 - 1	1262	7813	8002	17217
≥11	127	78	78	73	300	171	116	76	121	24	1						23.75 - 1	1163	12024	12479	17217
≥ 7	58	37	30	31	121	107	96	64	151	69	10	2					31.00 - 1	776	14031	15088	17217
≥ 4	23	7	14	11	32	25	25	27	99	74	31	12	3				72.75 - 1	383	14341	16463	17217

DAYS DURATION OF EVENTS

8 — 52.0N 172.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	13	4	1		1												1.25 - 1	19	29	29	17219
≥48	43	24	25	8	6												2.00 - 2	106	236	236	17219
≥41	95	65	40	21	27	3											2.75 - 1	251	617	626	17219
≥34	142	119	86	56	84	11	4										3.75 - 1	502	1535	1553	17219
≥28	190	157	120	101	161	46	13	6	3								5.50 - 1	797	3037	3076	17219
≥22	204	132	148	121	274	108	37	19	19								10.00 - 1	1062	5565	5701	17219
≥17	171	141	132	103	322	152	85	37	48	6							11.75 - 1	1197	8257	8532	17219
≥11	150	87	80	75	269	146	108	68	134	30							18.75 - 1	1147	12061	12666	17219
≥ 7	60	28	42	30	131	90	75	58	151	73	5	3					45.25 - 1	752	13880	15204	17219
≥ 4	31	13	5	11	41	29	27	25	100	70	24	16	2				65.75 - 1	394	13930	16468	17219

DAYS DURATION OF EVENTS

9 — 51.7N 158.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	6	1	1														0.75 - 1	8	11	11	17218
≥48	34	17	8	6	1												1.25 - 1	66	121	122	17218
≥41	54	48	26	21	14												2.00 - 1	163	392	396	17218
≥34	92	83	64	47	48	6	1										3.25 - 1	341	992	1002	17218
≥28	128	115	107	85	129	27	8	1									4.50 - 1	600	2188	2213	17218
≥22	156	138	140	84	262	62	25	16	8								9.00 - 1	891	4276	4342	17218
≥17	170	148	122	117	316	135	62	28	34	3							14.75 - 1	1135	7085	7215	17218
≥11	115	73	87	89	284	172	103	65	110	20	1						23.50 - 1	1119	11240	11626	17218
≥ 7	69	44	44	31	158	113	95	62	164	51	10	1					33.25 - 1	842	13395	14515	17218
≥ 4	49	22	16	22	59	48	39	38	97	69	28	12					58.00 - 1	499	13574	16109	17218

DAYS DURATION OF EVENTS

11 — 51.3N 158.8W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	4	2	1														0.75 - 1	7	11	11	17219
≥48	35	12	9	3	8												1.75 - 1	67	142	142	17219
≥41	99	52	31	19	19	1											2.25 - 1	221	489	491	17219
≥34	177	123	67	51	67	13	3										4.00 - 1	498	1364	1380	17219
≥28	255	170	124	90	188	33	13	3	2								6.50 - 1	877	3166	3151	17219
≥22	236	166	163	135	300	111	46	18	13								9.00 - 1	1188	5967	6119	17219
≥17	179	179	131	129	309	164	99	38	63	2							11.75 - 1	1293	9046	9353	17219
≥11	114	75	82	72	208	151	90	58	151	45	4						26.00 - 1	1050	12846	13491	17219
≥ 7	50	34	38	26	97	75	72	46	156	79	13	4					39.50 - 2	690	14337	15607	17219
≥ 4	21	7	8	10	29	25	27	18	69	61	33	24					59.00 - 1	332	13866	16677	17219

DAYS DURATION OF EVENTS

12 — 50.9N 145.6W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	1	1															0.50 - 1	2	3	3	17219
≥48	34	18	9	4													1.00 - 4	65	113	113	17219
≥41	89	58	35	16	16												1.75 - 1	214	459	467	17219
≥34	155	115	85	45	73	12	2										3.75 - 1	487	1387	1408	17219
≥28	221	160	118	84	181	56	10	6									5.00 - 1	836	3156	3190	17219
≥22	224	132	140	113	279	109	58	35	15								8.75 - 1	1105	6054	6149	17219
≥17	197	135	134	92	275	158	81	52	77	8							14.00 - 1	1210	9193	9511	17219
≥11	93	47	50	52	178	109	94	60	134	57	5						24.00 - 1	879	12596	13646	17219
≥ 7	52	31	32	18	72	59	32	42	117	77	28	6					42.25 - 1	566	13627	15703	17219
≥ 4	16	16	8	11	20	20	17	10	59	50	27	23	6				87.00 - 1	283	13457	16651	17219

DAYS DURATION OF EVENTS

14 — 49.3N 174.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	10	2	1		2												1.25 - 2	15	27	27	17219
≥48	71	44	15	8	14												2.00 - 2	152	319	321	17219
≥41	110	79	42	26	31	3											3.00 - 1	291	713	726	17219
≥34	178	150	85	64	82	17	1	1									4.50 - 1	578	1677	1695	17219
≥28	236	148	158	118	182	52	7	4	3								6.25 - 1	906	3343	3395	17219
≥22	218	179	158	140	321	114	39	24	13								8.50 - 1	1206	6036	6149	17219
≥17	196	147	153	125	347	149	92	44	55	5							14.75 - 1	1313	8893	9117	17219
≥11	132	85	81	74	266	173	111	65	137	33							16.25 - 1	1157	12501	13187	17219
≥ 7	52	42	40	29	109	88	81	62	130	19	11	1					30.75 - 1	730	14123	15466	17219
≥ 4	20	9	11	11	34	33	31	22	61	75	28	19	2				68.75 - 1	356	13936	16637	17219

DAYS DURATION OF EVENTS

15 — 49.0N 128.4W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	1																0.25 - 1	1	1	1	17219
≥48	30	11	4														0.75 - 4	45	64	64	17219
≥41	65	33	15	7	6	1											2.25 - 1	127	250	250	17219
≥34	95	79	49	22	34	7											3.00 - 2	286	757	758	17219
≥28	127	114	71	60	92	18	2	1									4.50 - 1	485	1582	1604	17219
≥22	201	142	98	87	190	52	21	5	4								7.00 - 1	800	3327	3383	17219
≥17	223	165	114	113	232	117	44	22	24	2							11.00 - 1	1056	5754	5896	17219
≥11	198	163	111	70	266	161	103	52	89	18							16.00 - 1	1229	10280	10641	17219
≥ 7	126	99	64	59	147	115	84	53	136	70	3	2					36.25 - 1	958	13386	14162	17219
≥ 4	42	41	18	21	68	48	49	25	89	81	28	12	1				69.50 - 1	523	14287	16133	17219

DAYS DURATION OF EVENTS

17 — 45.8N 139.3E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2	1	1														0.75 - 1	4	7	7	17217
≥48	19	5	1	3	4												1.75 - 1	32	69	69	17217
≥41	38	24	18	8	9	4											2.75 - 1	101	266	266	17217
≥34	66	58	29	21	42	13	3										3.50 - 1	232	769	770	17217
≥28	167	83	67	42	87	24	13	2	1								5.75 - 1	486	1712	1754	17217
≥22	229	167	120	80	181	54	15	10	9	1							14.50 - 1	866	3601	3678	17217
≥17	256	185	150	118	253	111	46	21	25	5							15.00 - 1	1151	6132	6277	17217
≥11	204	149	128	122	291	158	108	53	76	18							15.50 - 2	1299	10183	10560	17217
≥ 7	145	92	80	62	226	145	109	70	126	37	3	2					45.00 - 1	1091	12639	13495	17217
≥ 4	121	71	57	38	135	113	81	60	128	62	11	2					45.00 - 1	879	13168	14269	17217

DAYS DURATION OF EVENTS

18 — 45.6N 144.2W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2	1															0.50 - 1	3	4	5	17218
≥48	26	13	6	1	3												1.75 - 1	49	92	95	17218
≥41	83	42	36	12	7	1											2.75 - 1	181	373	377	17218
≥34	142	99	73	43	68	10											3.00 - 1	435	1228	1245	17218
≥28	197	135	111	97	156	41	14	4		1							10.50 - 1	756	2858	2898	17218
≥22	188	133	125	97	203	105	58	19	14	1							12.50 - 1	1023	5632	5754	17218
≥17	169	86	97	71	270	129	81	50	80	9							16.25 - 1	1042	8638	8928	17218
≥11	107	57	64	45	177	104	88	56	136	50	6						29.00 - 1	890	12278	13148	17218
≥ 7	55	18	25	14	76	65	44	43	117	77	22	9					49.50 - 1	565	13806	15421	17218
≥ 4	22	14	8	9	22	23	22	27	55	67	24	21	2	2			108.50 - 1	318	13719	16562	17218

DAYS DURATION OF EVENTS

20 — 44.2N 152.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	3	1															0.50 - 1	4	5	6	17218
≥48	42	20	6	4	2												1.25 - 2	74	126	130	17218
≥41	101	50	29	19	11	2											2.50 - 1	212	447	459	17218
≥34	187	108	74	57	74	12	1	1									4.50 - 1	515	1431	1451	17218
≥28	210	159	119	113	184	39	14	3	1								5.75 - 1	842	3142	3205	17218
≥22	269	175	122	101	209	111	55	17	18	2							13.00 - 1	1135	5922	6079	17218
≥17	186	148	107	103	258	134	93	34	81	9							15.00 - 1	1153	8798	9150	17218
≥11	119	59	76	54	107	111	79	70	132	54	3						25.50 - 1	940	12194	13134	17218
≥ 7	55	32	27	26	99	58	40	51	128	84	16	5					43.75 - 1	621	13614	15357	17218
≥ 4	19	8	25	10	34	18	22	25	52	71	23	22	4				67.50 - 1	333	13469	16497	17218

DAYS DURATION OF EVENTS

21 — 43.7N 128.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T*	TH
≥64	2																0.25 - 2	2	2	2	17219
≥48	27	12	6		2												1.50 - 1	47	80	80	17219
≥41	62	28	23	6	7												2.00 - 2	126	255	255	17219
≥34	85	47	51	20	36	4	1	1									4.25 - 1	245	681	682	17219
≥28	128	96	71	48	81	21	3	2	1								5.75 - 1	451	1525	1545	17219
≥22	183	118	110	60	178	74	23	8	4								9.25 - 1	759	3442	3518	17219
≥17	242	136	130	88	199	124	60	30	24	2							11.00 - 1	1035	5949	6185	17219
≥11	208	118	96	78	238	144	86	51	109	24	1						22.00 - 1	1151	10453	10888	17219
≥ 7	131	58	51	45	143	104	73	62	149	60	9	2					35.00 - 1	883	13248	14367	17219
≥ 4	55	22	20	14	52	58	37	36	97	73	30	10					54.25 - 1	502	13809	16133	17219

DAYS DURATION OF EVENTS

2

ANNUAL

WIND SPEE

22 42.8N 167.5W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17219
≥48	30	16	10	2	1												1.25- 1	59	105	106	17219
≥41	71	39	19	18	12												1.75- 1	159	345	358	17219
≥34	153	116	78	46	50	5	1										4.00- 1	449	1170	1202	17219
≥28	218	158	122	97	149	29	12	2	4								6.00- 1	791	2777	2834	17219
≥22	294	185	154	126	282	93	36	18	17	2							10.50- 1	1167	5622	5753	17219
≥17	191	162	147	81	346	152	80	42	51	8							15.75- 1	1260	8741	9094	17219
≥11	129	73	73	73	218	153	94	73	119	46	2	1					41.00- 1	1041	12398	13235	17219
≥ 7	51	35	25	29	105	85	70	52	132	81	14	4					41.25- 1	683	14126	15428	17219
≥ 4	23	12	14	9	29	31	25	19	85	72	25	16	3				69.25- 1	363	13877	16535	17219

DAYS DURATION OF EVENTS

23 42.4N 172.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64	8	2	3														0.75- 3	13	21	23	17218
≥48	55	36	13	4	6												1.75- 1	114	215	228	17218
≥41	115	80	34	15	13	4	1										4.00- 1	262	571	588	17218
≥34	194	112	85	65	72	10	1	1									4.25- 1	540	1497	1533	17218
≥28	252	179	144	102	156	38	10	3	4								6.25- 2	888	3067	3122	17218
≥22	268	206	183	145	288	93	41	13	10								9.25- 1	1245	5629	5794	17218
≥17	221	180	165	130	370	149	73	38	44	2							11.00- 1	1372	8406	8740	17218
≥11	135	104	123	92	292	171	114	56	122	28							15.75- 1	1237	12107	12786	17218
≥ 7	70	49	39	55	150	123	76	63	151	60	11	3					52.00- 1	850	14065	15247	17218
≥ 4	28	18	9	16	47	34	37	21	83	74	24	17	2				74.75- 1	410	14050	16528	17218

DAYS DURATION OF EVENTS

25 40.2N 131.2E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17218
≥48	4	1															0.50- 1	5	6	6	17218
≥41	4	5	5		1												1.75- 1	15	36	36	17218
≥34	34	19	13	4	6	1											2.25- 1	77	172	172	17218
≥28	93	55	26	22	30	5	1										3.50- 1	232	608	610	17218
≥22	163	119	80	40	84	20	4	6	2								6.00- 1	518	1726	1736	17218
≥17	223	168	110	85	164	60	19	9	7								9.50- 1	845	3442	3486	17218
≥11	278	199	175	116	269	131	61	36	30	4							13.00- 1	1318	7289	7483	17218
≥ 7	265	167	138	114	316	174	95	59	82	15	1						27.25- 1	1426	10890	11257	17218
≥ 4	195	151	90	78	198	129	81	69	113	45	3	2					37.00- 1	1152	12168	12822	17218

DAYS DURATION OF EVENTS

26 39.5N 153.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64	1		1														0.75- 1	2	4	4	17220
≥48	37	10	2	1	1												2.25- 1	51	76	79	17220
≥41	49	41	13	7	4	1											2.50- 1	115	229	234	17220
≥34	127	91	47	20	28	2											3.00- 1	315	709	715	17220
≥28	195	149	116	68	85	13											3.00- 2	626	1734	1758	17220
≥22	283	203	188	112	210	49	11	2	1								7.00- 1	1059	3675	3747	17220
≥17	283	260	204	167	348	122	46	11	3								7.50- 1	1444	6390	6524	17220
≥11	208	151	164	145	399	208	116	66	59	3							15.00- 1	1519	10838	11136	17220
≥ 7	133	80	72	71	242	171	130	85	161	39	3						24.00- 1	1151	13596	14291	17220
≥ 4	42	30	25	20	92	59	65	42	110	97	16	6	1				77.25- 1	614	14450	16185	17220

DAYS DURATION OF EVENTS

28 36.1N 123.8W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17219
≥48	2																0.25- 2	2	2	2	17219
≥41	9	3	2	1													1.00- 1	15	25	25	17219
≥34	39	29	8	2	4												1.50- 2	82	151	151	17219
≥28	132	59	40	24	35	5											2.75- 1	295	713	715	17219
≥22	283	177	107	44	133	55	16	3	1								5.50- 1	819	2799	2819	17219
≥17	357	204	128	70	230	108	50	27	32	4							15.75- 1	1208	6206	6308	17219
≥11	291	130	107	50	209	132	78	47	111	26	5	2					31.50- 1	1188	11064	11700	17219
≥ 7	150	72	48	35	119	86	57	45	103	54	14	12					56.75- 1	795	12976	14825	17219
≥ 4	73	38	39	9	38	34	32	25	63	67	25	18	1	1			113.75- 1	463	13545	16348	17219

DAYS DURATION OF EVENTS

29 35.9N 171.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64	2	1															0.50- 1	3	4	4	17220
≥48	22	5	4	2	1												1.25- 1	34	57	57	17220
≥41	50	19	10	9	5												1.75- 1	93	182	186	17220
≥34	102	64	46	16	17	5											3.00- 2	250	581	588	17220
≥28	158	97	70	67	84	11	3	1	1								5.75- 1	492	1521	1538	17220
≥22	233	132	116	88	151	54	17	8	9								10.00- 1	808	3294	3354	17220
≥17	267	151	120	103	252	103	39	22	27	3							18.00- 1	1087	5787	5949	17220
≥11	216	137	116	96	302	145	72	48	87	18	1						24.00- 1	1238	9891	10601	17220
≥ 7	154	74	79	45	175	137	100	60	129	45	7	1					40.25- 1	1006	12751	14084	17220
≥ 4	60	33	23	31	69	59	41	27	119	74	26	6					56.00- 1	568	13676	16022	17220

DAYS DURATION OF EVENTS

31 35.6N 155.2W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17218
≥48	14	3	1														0.75- 1	18	23	23	17218
≥41	51	21	10	2	2												1.75- 1	86	144	144	17218
≥34	88	50	33	14	17	4	1										3.25- 1	207	503	508	17218
≥28	122	107	69	37	69	13	4	2									5.00- 1	419	1312	1327	17218
≥22	162	107	115	70	163	40	21	10	6								8.25- 1	674	2944	2998	17218
≥17	223	119	102	92	216	80	43	25	22	2	1						25.00- 1	925	5163	5362	17218
≥11	245	128	102	86	269	129	64	52	71	23		1					33.00- 1	1170	9356	9850	17218
≥ 7	170	69	64	65	199	107	90	51	132	46	6	2					33.75- 1	1001	12374	13520	17218
≥ 4	79	33	23	32	90	57	43	38	127	82	18	7					40.50- 1	629	13659	15628	17218

DAYS DURATION OF EVENTS

32 35.4N 142.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17219
≥48	3	3	1														0.75- 1	7	12	12	17219
≥41	23	11	4	1	1												1.25- 1	40	66	66	17219
≥34	56	33	17	14	15												1.75- 3	135	314	314	17219
≥28	95	57	45	31	45	14	2	1									5.00- 1	290	930	931	17219
≥22	139	93	66	47	112	36	15	5	6	1							11.00- 1	520	2271	2290	17219
≥17	175	108	100	85	150	76	33	15	22	3							13.50- 1	767	4238	4326	17219
≥11	218	104	77	68	237	128	64	45	75	12	3						30.00- 1	1031	8449	8778	17219
≥ 7	216	76	63	48	156	118	78	58	120	52	4	2					34.00- 1	991	11752	12714	17219
≥ 4	98	49	43	24	76	63	54	43	111	73	20	8					41.25- 1	662	13528	15324	17219

DAYS DURATION OF EVENTS

34 34.2N 155.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17220
≥48	5		1														0.75- 1	6	8	8	17220
≥41	17	4	3														0.75- 3	24	34	34	17220
≥34	72	28	9	6	6												1.75- 2	121	214	219	17220
≥28	142	86	12	22	35	3											3.00- 1	320	728	743	17220
≥22	248	183	116	61	113	19	5	2									4.50- 1	727	2142	2181	17220
≥17	301	193	159	142	251	77	24	6	5								6.50- 1	1168	4620	4721	17220
≥11	264	173	137	121	390	190	96	44	39	3							12.50- 2	1457	9311	9549	17220
≥ 7	143	90	85	62	291	180	133	81	123	27	1						24.25- 1	1227	12800	13515	17220
≥ 4	56	46	34	30	94	90	62	53	158	84	12	2					36.50- 1	721	14300	15772	17220

DAYS DURATION OF EVENTS

35 34.2N 163.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17220
≥48	7	1		2													1.00- 2	10	17	17	17220
≥41	22	4	3	2	1												1.50- 1	32	53	53	17220
≥34	78	34	19	8	10												2.00- 1	149	294	296	17220
≥28	164	92	47	38	35	8											3.00- 2	384	937	945	17220
≥22	269	188	115	104	113	38	6	1	1								5.75- 1	835	2604	2661	17220
≥17	263	189	181	138	284	81	33	17	7								8.50- 1	1193	5283	5395	17220
≥11	219	140	139	112	365	195	97	53	54	8	1						22.00- 1	1383	9927	10255	17220
≥ 7	138	67	76	45	210	179	115	75	141	43	1	1					34.00- 1	1091	13251	13947	17220
≥ 4	61	26	29	23	76	74	65	45	139	82	13	6					56.75- 1	639	13996	15984	17220

DAYS DURATION OF EVENTS

37 32.9N 119.4W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17217
≥48																	0.00- 0				17217
≥41																	0.00- 0				17217
≥34	2		1														0.75- 1	3	5	5	17217
≥28	67	28	7	3	1												1.25- 1	106	161	161	17217
≥22	238	112	45	21	50	10											2.75- 3	466	1078	1081	17217
≥17	614	221	109	54	131	47	17	9	9								9.50- 1	1011	3350	3396	17217
≥11	676	252	177	52	229	138	76	41	68	15	2						23.00- 1	1524	9260	9568	17217
≥ 7	271	111	100	28	162	88	75	47	122	43	13	5	1				69.50- 1	1046	12901	14103	17217
≥ 4	154	76	48	22	69	55	33	30	100	57	16	12	2	1			96.00- 1	675	13096	15680	17217

DAYS DURATION OF EVENTS

38 31.5N 127.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17219
≥48	1																0.25- 1	1	1	1	17219
≥41	3	2															0.50- 2	5	7	7	17219
≥34	14	7	3														0.75- 3	24	37	37	17219
≥28	40	23	16	8	6												1.75- 3	93	203	205	17219
≥22	145	45	42	28	55	11	3										3.75- 1	329	950	953	17219
≥17	293	126	95	66	146	47	26	6	5	1							10.50- 1	811	3105	3130	17219
≥11	299	140	98	66	221	135	77	44	77	12	1						27.00- 1	1170	8598	8694	17219
≥ 7	243	92	75	45	137	99	75	56	114	53	12	3					34.25- 1	1004	12572	13279	17219
≥ 4	112	51	22	24	71	60	43	30	94	82	19	10	1				83.75- 1	619	13874	15733	17219

DAYS DURATION OF EVENTS

40 29.8N 165.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17219
≥48	3	1															0.50- 1	4	5	5	17219
≥41	12	5		1	1												1.25- 1	19	31	31	17219
≥34	31	12	5	5	4												2.00- 1	57	114	118	17219
≥28	83	32	21	15	22	4											2.75- 1	157	416	424	17219
≥22	151	81	52	41	79	16	8		1								6.50- 1	479	1426	1443	17219
≥17	248	97	97	53	135	67	25	11	10	3							13.75- 1	747	3408	3451	17219
≥11	305	122	103	87	244	120	73	34	62	20							18.50- 1	1210	8456	8722	17219
≥ 7	218	89	69	58	180	118	73	58	120	48	8	1					39.75- 1	1036	12248	13326	17219
≥ 4	81	37	28	21	73	69	39	25	107	74	23	12					47.25- 1	587	13728	15842	17219

DAYS DURATION OF EVENTS

41 29.4N 134.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T∞	TH
≥64																	0.00- 0				17220
≥48	2			1													1.00- 1	3	6	6	17220
≥41	6			2													1.50- 1	8	17	17	17220
≥34	25	2		3													1.75- 1	30	47	47	17220
≥28	55	27	12	6	6	1		1									4.50- 1	108	233	233	17220
≥22	127	75	55	31	35	8	4	1	1								5.25- 1	337	953	957	17220
≥17	244	170	108	71	122	39	15	7	4								7.50- 1	780	2759	2782	17220
≥11	334	162	131	90	326	138	70	36	41	4							13.50- 1	1330	7745	7884	17220
≥ 7	229	127	97	80	252	158	113	61	125	28							19.50- 1	1265	12066	12399	17220
≥ 4	98	56	34	24	102	90	65	58	157	68	11	4					43.00- 1	767	14092	15363	17220

DAYS DURATION OF EVENTS

WIND SPEED DURATIONS (Cont'd)

.5W

	17219
106	17219
358	17219
1202	17219
2834	17219
5753	17219
9094	17219
13235	17219
15428	17219
16535	17219
T=	TH

23 — 42.4N 172.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64	8	2	3														0.75-3	13	21	23	17218
≥48	55	36	13	4	6												1.75-1	114	215	228	17218
≥41	115	80	34	15	13	4	1										4.00-1	262	571	588	17218
≥34	194	112	85	65	72	10	1	1									4.25-1	540	1497	1533	17218
≥28	252	179	144	102	156	38	10	3	4								6.25-2	888	3067	3122	17218
≥22	268	206	183	145	286	93	41	13	10								9.25-1	1245	5629	5794	17218
≥17	221	180	165	130	370	149	73	38	44	2							11.00-1	1372	6406	8740	17218
≥11	135	104	123	92	292	171	114	56	122	28							15.75-1	1237	12107	12786	17218
≥ 7	70	49	39	55	150	123	76	63	151	60	11	3					52.00-1	850	14065	15247	17218
≥ 4	28	18	9	16	47	34	37	21	83	74	24	17	2				74.75-1	410	14050	16528	17218

DAYS DURATION OF EVENTS

24 — 41.0N 134.9W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64	1																0.25-1	1	1	1	17219
≥48	14	3	4														0.75-4	21	32	32	17219
≥41	45	28	11	5	3												2.00-1	92	172	172	17219
≥34	80	59	37	21	28	3											2.50-3	228	583	583	17219
≥28	143	98	71	43	84	19	3	2									4.50-1	463	1496	1506	17219
≥22	161	124	119	76	169	67	20	9	5								9.00-1	750	3383	3429	17219
≥17	178	127	121	98	232	93	41	36	34	1							13.50-1	961	5876	6007	17219
≥11	197	98	87	68	205	124	83	50	100	33							20.00-1	1045	10082	10602	17219
≥ 7	114	37	47	48	144	87	70	62	134	58	7	6					42.00-1	814	13088	14095	17219
≥ 4	79	22	20	13	58	47	26	41	100	75	23	13	2				65.00-1	519	14131	16015	17219

DAYS DURATION OF EVENTS

.2E

	17218
6	17218
36	17218
172	17218
610	17218
1736	17218
3486	17218
7483	17218
11257	17218
12822	17218
T=	TH

26 — 39.5N 153.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64	1		1														0.75-1	2	4	4	17220
≥48	37	10	2	1		1											2.25-1	51	76	79	17220
≥41	49	41	13	7	4	1											2.50-1	115	229	234	17220
≥34	127	91	47	20	28	2											3.00-1	315	709	715	17220
≥28	195	149	116	68	85	13											3.00-2	626	1734	1758	17220
≥22	283	203	188	112	210	49	11	2	1								7.00-1	1059	3675	3747	17220
≥17	283	260	204	167	348	122	46	11	3								7.50-1	1444	6390	6524	17220
≥11	208	151	164	145	399	208	118	66	59	3							15.00-1	1519	10838	11136	17220
≥ 7	117	80	72	71	242	171	130	85	161	39	3						24.00-1	1151	13596	14291	17220
≥ 4	42	30	25	20	92	59	65	42	119	97	16	6	1				77.25-1	614	14450	16185	17220

DAYS DURATION OF EVENTS

27 — 36.2N 127.4W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17219
≥48	1	1															0.50-1	2	3	3	17219
≥41	6	8	2	2													1.00-2	18	36	36	17219
≥34	29	19	7	8	4	3											2.75-1	70	174	177	17219
≥28	87	47	32	26	27	10											3.00-1	229	641	650	17219
≥22	181	92	66	61	116	32	22	4	2								7.50-1	576	2280	2329	17219
≥17	231	130	98	77	204	107	44	31	27	3							15.25-1	952	5476	5579	17219
≥11	195	103	84	62	184	128	86	51	104	34	3	1					31.25-1	1035	10656	11110	17219
≥ 7	118	48	48	28	104	80	46	43	116	57	23	5					39.50-1	716	13009	14494	17219
≥ 4	63	28	20	14	41	34	30	15	69	72	19	21	3				84.25-1	429	13716	16178	17219

DAYS DURATION OF EVENTS

.8W

	17219
2	17219
25	17219
151	17219
715	17219
2819	17219
6308	17219
11700	17219
14825	17219
16348	17219
T=	TH

29 — 35.9N 171.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64	2	1															0.50-1	3	4	4	17220
≥48	22	5	4	2	1												1.25-1	34	57	57	17220
≥41	50	19	10	9	5												1.75-1	93	182	186	17220
≥34	102	64	46	16	17	5											3.00-2	250	581	588	17220
≥28	158	97	70	67	84	11	3	1	1								5.75-1	492	1521	1538	17220
≥22	233	132	116	88	151	54	17	8	9								10.00-1	808	3294	3354	17220
≥17	267	151	120	103	252	103	39	22	27	3							18.00-1	1087	5787	5949	17220
≥11	216	137	116	96	302	145	72	48	87	18	1						24.00-1	1238	9891	10601	17220
≥ 7	154	74	79	45	175	137	100	60	129	45	7	1					40.25-1	1006	12751	14084	17220
≥ 4	60	33	23	31	69	59	41	27	119	74	26	6					56.00-1	568	13676	16022	17220

DAYS DURATION OF EVENTS

30 — 35.7N 176.1E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64	1																0.25-1	1	1	1	17220
≥48	11	8	1	1													1.00-1	21	34	34	17220
≥41	51	12	9	3	4												1.25-4	79	134	134	17220
≥34	108	60	38	10	20												1.75-2	236	490	492	17220
≥28	182	115	76	47	66	9	2										4.00-1	497	1347	1355	17220
≥22	243	156	126	95	181	43	12	7	2								5.50-1	865	3189	3251	17220
≥17	280	148	142	128	243	121	41	17	19	1							13.75-1	1140	5725	5855	17220
≥11	212	134	120	116	334	181	90	38	68	12	2						24.00-1	1307	10033	10667	17220
≥ 7	142	58	60	62	212	168	107	83	108	43	5	1					35.75-1	1049	12903	14053	17220
≥ 4	59	37	28	23	86	70	47	53	118	73	21	6	1				77.00-1	622	13765	15989	17220

DAYS DURATION OF EVENTS

.2W

	17218
23	17218
144	17218
508	17218
1327	17218
2998	17218
5362	17218
9850	17218
13520	17218
15628	17218
T=	TH

32 — 35.4N 142.0W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17219
≥48	3	3	1														0.75-1	7	12	12	17219
≥41	23	11	4	1	1												1.25-1	40	66	66	17219
≥34	56	33	17	14	15												1.75-3	135	314	314	17219
≥28	95	57	45	31	45	14	2	1									5.00-1	290	930	931	17219
≥22	139	93	65	47	112	36	15	5	6	1							11.00-1	520	2271	2290	17219
≥17	175	108	100	85	150	76	33	15	22	3							13.50-1	767	4238	4326	17219
≥11	218	104	77	68	237	128	64	45	75	12	3						30.00-1	1031	8449	8778	17219
≥ 7	216	76	63	48	156	118	78	58	120	52	4	2					34.00-1	991	11752	12714	17219
≥ 4	98	49	43	24	76	63	54	43	111	73	20	8					41.25-1	662	13528	15324	17219

DAYS DURATION OF EVENTS

33 — 34.6N 145.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17220
≥48	6	1															0.50-1	7	8	8	17220
≥41	16	5	1	1													1.00-1	23	33	33	17220
≥34	45	20	12	1	3	1											2.50-1	82	150	151	17220
≥28	131	72	34	14	18		1										3.50-1	270	550	552	17220
≥22	229	149	127	64	79	16	3										3.75-1	667	1828	1843	17220
≥17	293	223	188	136	226	60	13	4	2								8.50-1	1143	4140	4181	17220
≥11	262	180	195	174	383	184	65	42	37	2							11.75-1	1524	8933	9111	17220
≥ 7	167	107	99	108	327	188	104	67	140	16	1						26.50-1	1322	12618	13228	17220
≥ 4	75	46	33	44	123	98	73	56	159	74	9	3					40.00-1	789	14282	15645	17220

DAYS DURATION OF EVENTS

.1E

	17220
8	17220
34	17220
219	17220
743	17220
2181	17220
4721	17220
9549	17220
13515	17220
15772	17220
T=	TH

35 — 34.2N 163.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17220
≥48	7	1		2													1.00-2	10	17	17	17220
≥41	22	4	3	2	1												1.50-1	32	53	53	17220
≥34	78	34	19	8	10												2.00-1	149	294	296	17220
≥28	164	92	47	38	35	8											3.00-2	384	937	945	17220
≥22	269	188	115	104	113	38	6	1	1								5.75-1	835	2604	2661	17220
≥17	263	189	181	138	284	81	33	17	7								8.50-1	1193	5283	5395	17220
≥11	219	140	139	112	385	195	97	53	54	8	1						22.00-1	1383	9927	10255	17220
≥ 7	138	67	76	45	210	179	115	75	141	43	1	1					34.00-1	1091	13251	13947	17220
≥ 4	61	26	29	23	76	74	65	45	139	82	13	6					56.75-1	639	13996	15984	17220

DAYS DURATION OF EVENTS

36 — 33.7N 123.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17218
≥48	2																0.25-2	2	2	2	17218
≥41	8	6															0.50-6	14	20	20	17218
≥34	42	16	13	8	3												1.25-3	82	160	160	17218
≥28	84	38	26	21	34	3	1										3.25-1	207	556	556	17218
≥22	145	86	73	46	97	20	3	2	2								7.50-1	474	1648	1656	17218
≥17	212	126	118	105	177	71	14	9	9	1							11.25-1	842	3722	3767	17218
≥11	235	137	146	108	306	140	78	43	42	9							14.75-2	1244	8263	8457	17218
≥ 7	196	93	90	59	233	165	96	66	107	35	1	1					37.00-1	1142	11799	12461	17218
≥ 4	135	71	57	40	130	104	72	54	138	52	12	4					47.00-1	867	12933	14220	17218

DAYS DURATION OF EVENTS

4W

	17217
	17217
	17217
5	17217
161	17217
1081	17217
3396	17217
9568	17217
14103	17217
15680	17217
T=	TH

38 — 31.5N 127.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17219
≥48																	0.25-1	1	1	1	17219
≥41	3	2															0.50-2	5	7	7	17219
≥34	14	7	3														0.75-3	24	37	37	17219
≥28	40	23	16	8	6												1.75-3	93	203	205	17219
≥22	165	45	42	28	55	11	3										3.75-1	329	950	953	17219
≥17	293	128	95	66	148	47	26	6	5	1							10.50-1	811	3105	3130	17219
≥11	299	140	98	66	221	135	77	44	77	12	1						27.00-1	1170	8598	8894	17219
≥ 7	243	92	75	45	137	99	75	56	114	43	12	3					34.25-1	1004	12572	13279	17219
≥ 4	112	51	22	24	71	60	43	30	94	82	19	10	1				83.75-1	619	13874	15733	17219

DAYS DURATION OF EVENTS

39 — 29.9N 177.3W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17220
≥48	1	1															0.50-1	2	3	3	17220
≥41	7	2	2	1													1.00-1	12	21	21	17220
≥34	35	10	9	2	8												2.00-1	64	135	135	17220
≥28	76	32	22	15	25	2	2	1									4.25-1	175	477	477	17220
≥22	140	74	65	49	63	20	7	5	1								5.25-1	424	1470	1487	17220
≥17	218	119	86	75	149	54	20	7	18	1							11.75-1	748	3411	3463	17220
≥11	335	135	119	106	263	130	58	46	55	11							18.25-1	1258	8153	8419	17220
≥ 7	234	98	67	61	199	155	90	58	126	40	4	1					33.25-1	1133	12253	12889	17220
≥ 4	119	45	44	19	83	82	70	45	120	84	18	3					46.00-1	732	14043	15631	17220

DAYS DURATION OF EVENTS

0'9

	17219
5	17219
31	17219
118	17219
424	17219
1443	17219
3451	17219
8722	17219
13326	17219
15842	17219
T=	TH

41 — 29.4N 134.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17220
≥48	2			1													1.00-1	3	6	6	17220
≥41	6				2												1.50-1	8	17	17	17220
≥34	25	2				3											1.75-1	30	47	47	17220
≥28	55	27	12	6	6	1	1										4.50-1	108	233	233	17220
≥22	127	75	55	31	35	8	4	1	1								5.25-1	337	953	957	17220
≥17	244	170	108	71	122	39	15	7	4								7.50-1	780	2759	2782	17220
≥11	334	182	131	90	326	136	70	36	41	4							13.50-1	1330	7745	7884	17220
≥ 7	229	122	97	80	252	158	113	61	129	28							19.50-1	1265	12066	12399	17220
≥ 4	98	58	34	24	102	90	65	58	157	68	11	4					43.00-1	767	14092	15363	17220

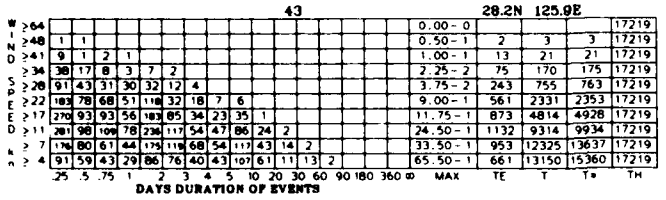
DAYS DURATION OF EVENTS

42 — 28.8N 139.2W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	T=	TH
≥64																	0.00-0				17219
≥48	2																0.25-2	2	2	2	17219
≥41	1	1															0.50-1	2	3	3	17219
≥34	9	3	1	1													1.00-1	14	22	22	17219
≥28	35	15	12	4	4	1											2.25-1	71	148	149	17219
≥22	82	36	26	21	41	5	1	1									4.75-1	213	651	654	17219
≥17	254	99	63	36	99	31	20	6	6								7.50-1	614	2233	2242	17219
≥11	385	131	109	78	208	119	64	35	78	12							18.25-1	1213	8056	8273	17219
≥ 7	227	94	63	36	127	119	51	55	113	67	8	2					43.75-1	958	12339	13262	17219
≥ 4	118	39	24	28	76	50	44	26	80	76	19	10	1				67.75-1	598	13536	15697	17219

DAYS DURATION OF EVENTS

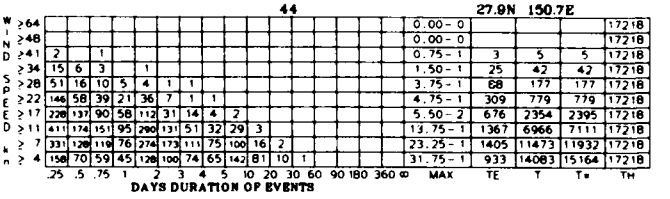
WIND SPEED DURATIONS (Cont'd)



43 28.2N 125.9E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219
≥48	1	1															0.50 - 1	2	3	3	17219
≥41	9	1	2	1													1.00 - 1	13	21	21	17219
≥34	38	17	8	3	7	2											2.25 - 2	75	170	175	17219
≥28	91	43	31	30	32	12	4										3.75 - 2	243	755	763	17219
≥22	183	78	68	51	118	32	18	7	6								9.00 - 1	561	2331	2353	17219
≥17	270	93	93	56	183	85	34	23	35	1							11.75 - 1	873	4814	4928	17219
≥11	281	98	109	78	236	117	54	47	86	24	2						24.50 - 1	1132	9314	9934	17219
≥ 7	176	80	61	44	175	118	68	54	117	43	14	2					33.50 - 1	953	12325	13637	17219
≥ 4	91	59	43	29	86	76	40	43	107	61	11	13	2				65.50 - 1	661	13150	15360	17219

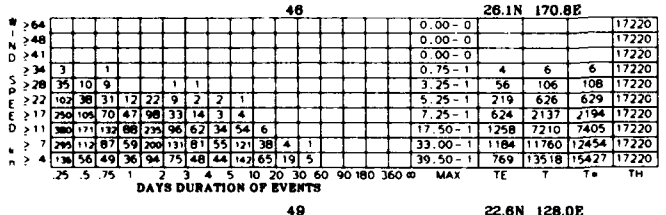
DAYS DURATION OF EVENTS



44 27.9N 150.7E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17218
≥48																	0.00 - 0				17218
≥41	2		1														0.75 - 1	3	5	5	17218
≥34	15	6	3		1												1.50 - 1	25	42	42	17218
≥28	51	16	10	5	4	1	1										3.75 - 1	88	177	177	17218
≥22	146	58	39	21	36	7	1	1									4.75 - 1	309	779	779	17218
≥17	228	137	90	58	112	31	14	4	2								5.50 - 2	676	2354	2395	17218
≥11	411	174	151	95	290	131	51	32	29	3							13.75 - 1	1367	6966	7111	17218
≥ 7	331	128	119	76	274	173	111	75	100	16	2						23.25 - 1	1405	11473	11932	17218
≥ 4	158	70	59	45	128	100	74	65	142	81	10	1					31.75 - 1	933	14083	15164	17218

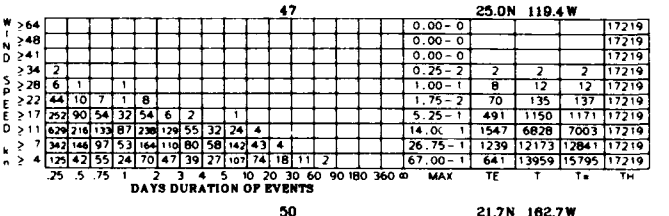
DAYS DURATION OF EVENTS



46 26.1N 170.8E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220
≥48																	0.00 - 0				17220
≥41																	0.00 - 0				17220
≥34	3		1														0.75 - 1	4	6	6	17220
≥28	35	10	9			1	1										3.25 - 1	56	106	108	17220
≥22	102	38	31	12	22	9	2	2	1								5.25 - 1	219	626	629	17220
≥17	250	105	70	47	98	33	14	3	4								7.25 - 1	624	2137	2194	17220
≥11	380	171	132	88	235	96	62	34	54	6							17.50 - 1	1258	7210	7405	17220
≥ 7	295	112	87	59	200	131	81	55	121	38	4	1					33.00 - 1	1184	11760	12454	17220
≥ 4	138	56	49	36	94	75	48	44	142	65	19	5					39.50 - 1	769	13518	15427	17220

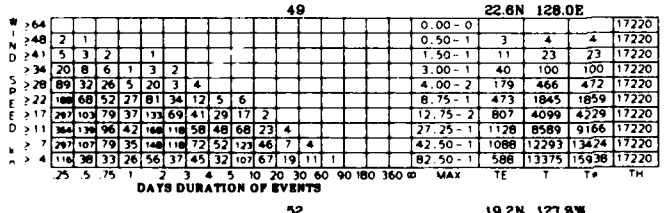
DAYS DURATION OF EVENTS



47 25.0N 119.4W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219
≥48																	0.00 - 0				17219
≥41																	0.00 - 0				17219
≥34	2																0.25 - 2	2	2	2	17219
≥28	6	1		1													1.00 - 1	8	12	12	17219
≥22	44	10	7	1	8												1.75 - 2	70	135	137	17219
≥17	252	90	54	32	54	6	2		1								5.25 - 1	491	1150	1171	17219
≥11	629	216	133	87	238	129	55	32	24	4							14.00 - 1	1547	6828	7003	17219
≥ 7	342	148	97	53	164	110	80	58	142	43	4						26.75 - 1	1239	12173	12841	17219
≥ 4	125	42	55	24	70	47	39	27	107	74	18	11	2				67.00 - 1	641	13959	15795	17219

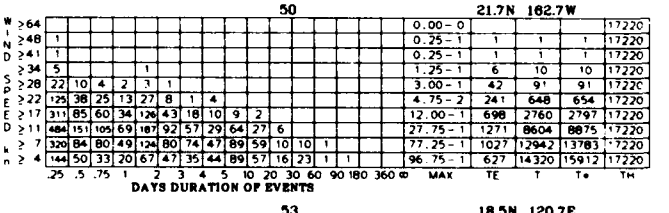
DAYS DURATION OF EVENTS



49 22.6N 128.0E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220
≥48	2	1															0.50 - 1	3	4	4	17220
≥41	5	3	2		1												1.50 - 1	11	23	23	17220
≥34	20	8	6	1	3	2											3.00 - 1	40	100	100	17220
≥28	89	32	26	5	20	3	4										4.00 - 2	179	466	472	17220
≥22	188	68	52	27	81	34	12	5	6								8.75 - 1	473	1845	1859	17220
≥17	297	103	79	37	133	69	41	29	17	2							12.75 - 2	807	4099	4229	17220
≥11	364	139	96	42	168	118	58	48	68	23	4						27.25 - 1	1128	8589	9166	17220
≥ 7	297	107	79	35	148	118	72	52	123	46	7	4					42.50 - 1	1088	12293	13424	17220
≥ 4	118	38	33	26	56	37	45	32	107	67	19	11	1				82.50 - 1	586	13375	15938	17220

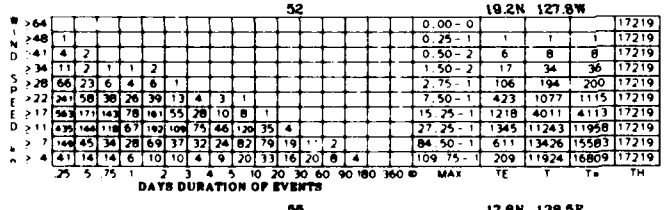
DAYS DURATION OF EVENTS



50 21.7N 162.7W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220
≥48	1																0.25 - 1	1	1	1	17220
≥41	1																0.25 - 1	1	1	1	17220
≥34	5			1													1.25 - 1	6	10	10	17220
≥28	22	10	4	2	3	1											3.00 - 1	42	91	91	17220
≥22	125	38	25	13	27	8	1	4									4.75 - 2	241	648	654	17220
≥17	311	85	60	34	126	43	18	10	9	2							12.00 - 1	698	2760	2797	17220
≥11	484	151	105	69	187	92	57	29	64	27	6						27.75 - 1	1271	8604	8875	17220
≥ 7	320	84	80	49	124	80	74	47	89	59	10	10	1				77.25 - 1	1027	12942	13783	17220
≥ 4	144	50	33	20	67	47	35	44	89	57	16	23	1	1			96.75 - 1	627	14320	15912	17220

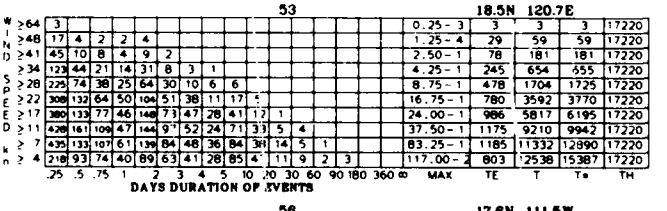
DAYS DURATION OF EVENTS



52 19.2N 127.8W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219
≥48	1																0.25 - 1	1	1	1	17219
≥41	4	2															0.50 - 2	6	8	8	17219
≥34	11	2	1	1	2												1.50 - 2	17	34	36	17219
≥28	66	23	6	4	6	1											2.75 - 1	106	194	200	17219
≥22	241	58	38	26	39	13	4	3	1								7.50 - 1	423	1077	1115	17219
≥17	563	171	143	78	181	55	28	10	8	1							15.25 - 1	1218	4011	4113	17219
≥11	635	144	118	67	192	109	75	46	120	35	4						27.25 - 1	1345	11243	11958	17219
≥ 7	144	65	34	28	69	37	32	24	82	79	19	1	2				84.50 - 1	611	13426	15583	17219
≥ 4	41	14	14	6	10	10	4	9	20	33	16	20	8	4			109.75 - 1	209	11924	16809	17219

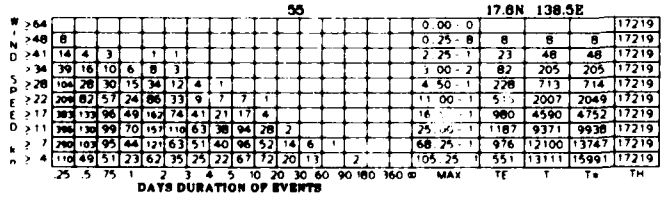
DAYS DURATION OF EVENTS



53 18.5N 120.7E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64	3																0.25 - 3	3	3	3	17220
≥48	17	4	2	2	4												1.25 - 4	29	59	59	17220
≥41	45	10	8	4	9	2											2.50 - 1	78	181	181	17220
≥34	123	44	21	14	31	8	3	1									4.25 - 1	245	654	655	17220
≥28	225	74	38	25	64	30	10	6	6								8.75 - 1	478	1704	1725	17220
≥22	308	132	64	50	104	51	38	11	17	5							16.75 - 1	780	3592	3770	17220
≥17	380	133	77	46	148	73	47	28	41	17	1						24.00 - 1	986	5817	6195	17220
≥11	428	161	109	47	144	91	52	24	71	33	5	4					37.50 - 1	1175	9210	9942	17220
≥ 7	435	133	107	61	139	84	48	36	84	38	14	5	1				83.25 - 1	1185	11332	12890	17220
≥ 4	218	93	74	40	89	63	41	28	85	4	11	9	2	3			117.00 - 2	803	12538	15387	17220

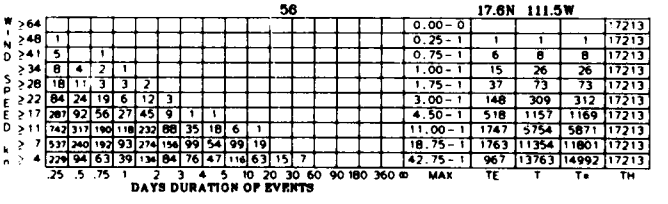
DAYS DURATION OF EVENTS



55 17.6N 138.5E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219
≥48	8																0.25 - 8	8	8	8	17219
≥41	14	4	3		1	1											2.25 - 1	23	48	48	17219
≥34	39	16	10	6	8	3											3.00 - 2	82	205	205	17219
≥28	104	28	30	15	34	12	4	1									4.50 - 1	228	713	714	17219
≥22	209	82	57	24	86	33	9	7	7	1							11.00 - 1	515	2007	2049	17219
≥17	383	133	96	49	162	74	41	21	17	4							16.50 - 1	980	4590	4752	17219
≥11	586	130	99	70	157	110	63	38	94	28	2						25.00 - 1	1187	9371	9938	17219
≥ 7	290	103	95	44	121	63	51	40	96	52	14	6	1				68.25 - 1	976	12100	13747	17219
≥ 4	110	49	51	23	62	35	25	22	67	72	20	13		2			105.25 - 1	551	13111	15991	17219

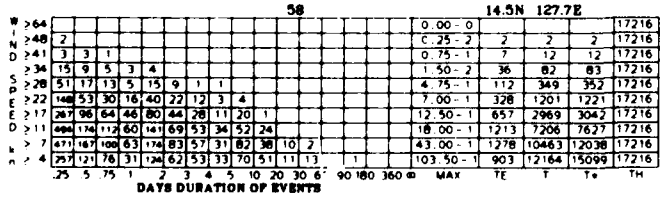
DAYS DURATION OF EVENTS



56 17.6N 111.5W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17213
≥48	1																0.25 - 1	1	1	1	17213
≥41	5		1														0.75 - 1	6	8	8	17213
≥34	8	4	2	1													1.00 - 1	15	26	26	17213
≥28	18	11	3	3	2												1.75 - 1	37	73	73	17213
≥22	84	24	19	6	12	3											3.00 - 1	148	309	312	17213
≥17	287	92	56	27	45	9	1	1									4.50 - 1	518	1157	1169	17213
≥11	742	317	190	118	232	88	35	18	6	1							11.00 - 1	1747	5754	5871	17213
≥ 7	537	240	192	93	274	156	99	54	99	19							18.75 - 1	1763	11354	11801	17213
≥ 4	229	94	63	39	136	84	76	47	116	63	15	7					42.75 - 1	967	13763	14992	17213

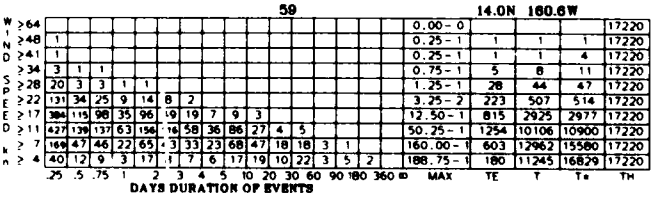
DAYS DURATION OF EVENTS



58 14.5N 127.7E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17216
≥48	2																0.25 - 2	2	2	2	17216
≥41	3	3	1														0.75 - 1	7	12	12	17216
≥34	15	9	5	3	4												1.50 - 2	36	82	83	17216
≥28	51	17	13	5	15	9	1	1									4.75 - 1	112	349	352	17216
≥22	148	53	30	16	40	22	12	3	4								7.00 - 1	328	1201	1221	17216
≥17	267	96	64	46	80	44	28	11	20	1							12.50 - 1	657	2969	3042	17216
≥11	484	174	112	60	141	69	53	34	52	24							18.00 - 1	1213	7206	7627	17216
≥ 7	471	167	100	63	176	83	57	31	82	38	10	7					43.00 - 1	1278	10463	12038	17216
≥ 4	257	121	76	31	126	62	53	33	70	51	11	13	1				103.50 - 1	903	12164	15099	17216

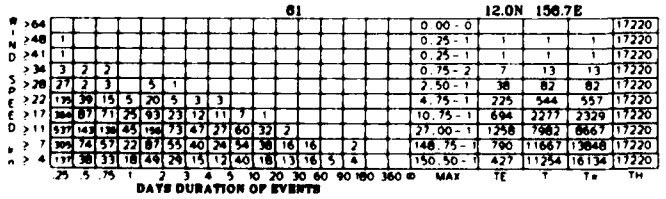
DAYS DURATION OF EVENTS



59 14.0N 160.6W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220
≥48	1																0.25 - 1	1	1	1	17220
≥41	1																0.25 - 1	1	1	4	17220
≥34	3	1	1														0.75 - 1	5	8	11	17220
≥28	20	3	3	1	1												1.25 - 1	28	44	47	17220
≥22	131	34	25	9	14	8	2										3.25 - 2	223	507	514	17220
≥17	384	115	98	35	96	19	19	7	9	3							12.50 - 1	815	2925	2977	17220
≥11	627	139	137	63	156	76	58	36	86	27	4	5					50.25 - 1	1254	10106	10900	17220
≥ 7	169	47	46	22	65	33	23	68	47	18	18	3	1				160.00 - 1	603	12962	15580	17220
≥ 4	40	12	9	3	17	7	6	17	19	10	22	3	5	2			188.75 - 1	180	11245	16829	17220

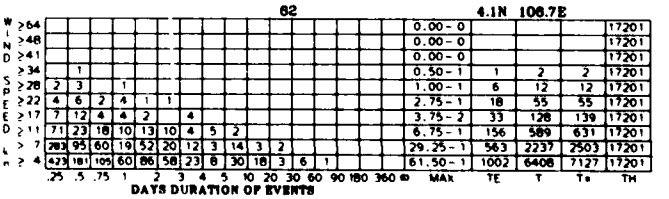
DAYS DURATION OF EVENTS



61 12.0N 156.7E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220
≥48	1																0.25 - 1	1	1	1	17220
≥41	1																0.25 - 1	1	1	1	17220
≥34	3	2	2														0.75 - 2	7	13	13	17220
≥28	27	2	3		5	1											2.50 - 1	38	82	82	17220
≥22	175	39	15	5	20	5	3	3									4.75 - 1	225	544	557	17220
≥17	364	87	71	25	93	23	12	11	7	1							10.75 - 1	694	2277	2329	17220
≥11	537	143	138	45	198	73	47	27	60	32	2						27.00 - 1	1358	7982	8667	17220
≥ 7	309	74	57	22	87	55	40	24	54	38	16	16		2			148.75 - 1	790	11667	13848	17220
≥ 4	117	38	33	18	49	29	15	12	40	18	13	16	5	4			150.50 - 1	427	11254	16134	17220

DAYS DURATION OF EVENTS



62 4.1N 106.7E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17201
≥48																	0.00 - 0				17201
≥41																	0.00 - 0				17201
≥34		1															0.50 - 1	1	2	2	17201
≥28	2	3		1													1.00 - 1	6	12	12	17201
≥22	4	6	2	4	1	1											2.75 - 1	18	55	55	17201
≥17	7	12	4	4	2		4										3.75 - 2	33	128	139	17201
≥11	71	23	18	10	13	10	4	5	2								6.75 - 1	156	589	631	17201
≥ 7	283	95	60	19	52	20	12	3	14	3	2						29.25 - 1	563	2237	2503	17201
≥ 4	423	181	105	60	86	58	23	8	30	18	3	6	1				61.50 - 1	1002	6408	7127	17201

DAYS DURATION OF EVENTS

44 27.9N 150.7E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17218
≥48																	0.00-0				17218
≥41	2			1													0.75-1	3	5	5	17218
≥34	15	6	3		1												1.50-1	25	42	42	17218
≥28	51	16	10	5	4	1	1										3.75-1	88	177	177	17218
≥22	146	58	39	21	36	7	1	1									4.75-1	309	779	779	17218
≥17	228	137	90	58	112	31	14	4	2								5.50-2	676	2354	2395	17218
≥11	411	174	151	95	290	131	51	32	29	3							13.75-1	1367	6966	7111	17218
≥7	331	128	119	76	274	173	111	75	100	16	2						23.25-1	1405	11473	11932	17218
≥4	158	70	59	45	128	100	74	65	142	81	10	1					31.75-1	933	14083	15164	17218

DAYS DURATION OF EVENTS

45 27.8N 145.6W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17219
≥48																	0.00-0				17219
≥41	1																0.25-1	1	1	1	17219
≥34	8	8	3	1	2												1.25-2	22	47	47	17219
≥28	33	14	16	8	9												2.00-3	80	201	201	17219
≥22	129	43	39	24	40	14	2		1								6.75-1	292	878	886	17219
≥17	271	125	76	52	110	53	15	10	10								8.75-1	722	2806	2824	17219
≥11	380	137	100	86	197	110	61	39	80	24	1						20.25-1	1195	8694	8985	17219
≥7	203	94	47	44	134	83	65	49	111	61	13	4					39.25-1	908	12508	13645	17219
≥4	95	37	27	19	52	50	20	19	76	70	22	10	4				71.25-1	501	12916	15954	17219

DAYS DURATION OF EVENTS

47 25.0N 119.4W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17219
≥48																	0.00-0				17219
≥41																	0.00-0				17219
≥34	2																0.25-2	2	2	2	17219
≥28	6	1		1													1.00-1	8	12	12	17219
≥22	44	10	7	1	8												1.75-2	70	135	137	17219
≥17	252	90	54	32	54	6	2		1								5.25-1	491	1150	1171	17219
≥11	629	216	133	87	238	129	55	32	24	4							14.00-1	1547	6828	7003	17219
≥7	342	146	97	53	164	110	80	58	142	43	4						26.75-1	1239	12173	12841	17219
≥4	129	42	55	24	70	47	39	27	107	74	18	11	2				67.00-1	641	13959	15795	17219

DAYS DURATION OF EVENTS

48 23.5N 151.8W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17220
≥48																	0.00-0				17220
≥41																	0.00-0				17220
≥34	1																0.25-1	1	1	1	17220
≥28	19	8	7		1												1.25-1	35	61	61	17220
≥22	99	52	24	13	17	8	2										3.50-1	2 3	541	544	17220
≥17	287	105	67	41	87	39	19	3	14								9.75-1	662	2490	2520	17220
≥11	415	156	118	62	186	99	66	38	82	25	2	1					31.75-1	1251	9100	9490	17220
≥7	186	74	52	25	118	70	40	34	102	47	24	7	1				62.25-1	778	12643	14537	17220
≥4	56	32	19	11	39	32	33	8	58	58	16	17	6				87.75-1	385	12504	16342	17220

DAYS DURATION OF EVENTS

50 21.7N 162.7W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17220
≥48	1																0.25-1	1	1	1	17220
≥41	1																0.25-1	1	1	1	17220
≥34	5			1													1.25-1	6	10	10	17220
≥28	22	10	4	2	3	1											3.00-1	42	91	91	17220
≥22	125	38	25	13	27	8	1	4									4.75-2	241	648	654	17220
≥17	311	85	60	34	126	43	18	10	9	2							12.00-1	698	2760	2797	17220
≥11	484	151	105	69	187	92	57	29	64	27	6						27.75-1	1271	8604	8875	17220
≥7	320	84	80	49	124	80	74	47	89	59	10	10	1				77.25-1	1027	12942	13783	17220
≥4	144	50	33	20	67	47	35	44	89	57	16	23	1	1			96.75-1	627	14320	15912	17220

DAYS DURATION OF EVENTS

51 20.5N 177.1W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17220
≥48																	0.00-0				17220
≥41																	0.00-0				17220
≥34	1	1	1														0.75-1	3	6	6	17220
≥28	23	3	3	3	1	1											2.50-1	34	66	66	17220
≥22	88	35	11	19	19	7	3	1									4.50-1	183	507	520	17220
≥17	272	94	62	31	84	37	18	8	9								9.00-1	615	2290	2358	17220
≥11	398	143	111	78	176	108	54	45	64	19	4	1					41.50-1	1202	8492	8957	17220
≥7	204	84	60	33	103	83	44	31	107	59	11	6	1				74.25-1	826	12007	14110	17220
≥4	82	34	16	16	50	44	26	16	59	53	19	17	5				75.75-1	437	12490	16255	17220

DAYS DURATION OF EVENTS

53 18.5N 120.7E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64	3																0.25-3	3	3	3	17220
≥48	17	4	2	2	4												1.25-4	29	59	59	17220
≥41	45	10	8	4	9	2											2.50-1	78	181	181	17220
≥34	123	44	21	14	31	8	3	1									4.75-1	245	654	655	17220
≥28	225	74	38	25	64	30	10	6	6								8.75-1	478	1704	1725	17220
≥22	308	132	64	50	104	51	38	11	17	5							16.25-1	780	3592	3770	17220
≥17	380	133	77	46	148	73	47	28	41	12	1						24.00-1	986	5817	6195	17220
≥11	428	161	109	47	144	97	52	24	71	33	5	4					37.50-1	1175	9210	9942	17220
≥7	435	133	107	61	139	84	48	36	84	38	14	5	1				83.25-1	1185	11332	12890	17220
≥4	218	93	74	40	89	63	41	28	85	47	11	9	2	3			117.00-2	803	12538	15387	17220

DAYS DURATION OF EVENTS

54 18.2N 168.8E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17219
≥48	1	1															0.50-1	2	3	3	17219
≥41	1	3	2	1													1.00-1	7	17	17	17219
≥34	13	2	3		6												2.00-1	24	65	65	17219
≥28	40	13	8	6	4	6	1										3.25-1	78	218	223	17219
≥22	168	56	48	18	44	9	7	4	2								6.50-1	356	1089	1113	17219
≥17	367	126	86	44	121	53	17	11	22	1							12.25-1	848	3413	3545	17219
≥11	431	138	96	67	179	84	64	38	76	29	4	2					44.25-1	1202	9058	9973	17219
≥7	222	85	54	25	92	55	52	38	83	53	18	11	1				64.75-1	789	12301	14489	17219
≥4	89	26	31	10	36	19	24	24	50	43	15	23	5	1			123.75-1	396	12736	16411	17219

DAYS DURATION OF EVENTS

56 17.6N 111.5W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17213
≥48	1																0.25-1	1	1	1	17213
≥41	5																0.75-1	6	8	8	17213
≥34	8	4		1													1.00-1	15	26	26	17213
≥28	18	11	3	3	2												1.75-1	37	73	73	17213
≥22	84	24	19	6	12	3											3.00-1	148	309	312	17213
≥17	287	92	56	27	45	9	1	1									4.50-1	518	1157	1169	17213
≥11	742	317	190	118	232	88	35	18	6	1							11.00-1	1747	5754	5871	17213
≥7	537	240	192	93	274	156	99	54	99	19							18.75-1	1763	11354	11801	17213
≥4	229	94	63	39	136	84	76	47	118	63	15	7					42.75-1	967	13763	14992	17213

DAYS DURATION OF EVENTS

57 14.9N 147.9E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64	1																0.25-1	1	1	1	17220
≥48	3			1													1.00-1	4	7	7	17220
≥41	2		1	3													1.00-3	6	17	17	17220
≥34	18	2	2		3	2											2.75-1	27	67	67	17220
≥28	99	12	13	4	8	1	2										3.75-1	139	269	271	17220
≥22	312	63	50	20	48	13	3	1	1								6.00-1	511	1167	1176	17220
≥17	611	117	129	53	126	48	23	5	10								8.75-1	1122	3383	3454	17220
≥11	795	182	158	63	208	114	72	42	64	19	2						21.25-1	1680	8969	9405	17220
≥7	454	108	134	45	157	99	52	40	101	42	11	7	1				66.50-1	1239	12263	13657	17220
≥4	177	46	49	22	75	39	34	25	78	50	23	15	4				80.25-1	637	13167	16014	17220

DAYS DURATION OF EVENTS

59 14.0N 160.8W

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17220
≥48	1																0.25-1	1	1	1	17220
≥41	1																0.25-1	1	1	4	17220
≥34	3	1	1														0.75-1	5	8	11	17220
≥28	20	3	3	1	1												1.25-1	28	44	47	17220
≥22	131	34	25	9	14	8	2										3.25-2	223	507	514	17220
≥17	384	115	98	35	96	49	19	7	9	3							12.50-1	815	2925	2977	17220
≥11	427	139	137	63	156	116	58	36	86	27	4	5					50.25-1	1254	10106	10900	17220
≥7	169	47	46	22	65	43	33	23	68	47	18	18	3	1			160.00-1	603	12962	15580	17220
≥4	40	12	9	3	17	8	7	6	17	19	10	22	3	5	2		188.75-1	180	11245	16829	17220

DAYS DURATION OF EVENTS

60 12.2N 112.6E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17220
≥48																	0.00-0				17220
≥41	6	1	1														0.75-1	8	11	11	17220
≥34	11	8	4	2	2		2										3.75-1	29	85	85	17220
≥28	44	9	5	7	8	5	2		1								12.50-1	81	283	294	17220
≥22	138	49	37	26	31	10	4	4	8	2							14.75-2	309	1205	1245	17220
≥17	271	109	63	29	71	36	14	15	25	3	1						24.50-1	637	3030	3195	17220
≥11	416	169	101	57	123	57	38	34	48	22	5	2					36.75-1	1052	7067	7610	17220
≥7	408	130	108	45	108	57	40	27	64	39	17	7					47.75-1	1048	10277	11565	17220
≥4	205	131	102	46	97	54	28	20	62	40	12	10	4	1			95.25-1	892	11231	13775	17220

DAYS DURATION OF EVENTS

62 4.1N 106.7E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17201
≥48																	0.00-0				17201
≥41																	0.00-0				17201
≥34		1															0.50-1	1	2	2	17201
≥28	2	3		1													1.00-1	6	12	12	17201
≥22	4	6	2	4	1	1											2.75-1	18	55	55	17201
≥17	7	12	4	4	2		4										3.75-2	33	128	139	17201
≥11	71	23	18	10	13	10	4	5	2								6.75-1	156	589	631	17201
≥7	289	95	60	19	52	20	12	3	14	3	2						29.25-1	563	2237	2503	17201
≥4	423	181	109	60	86	58	23	8	30	18	3	6	1				61.50-1	1002	6408	7127	17201

DAYS DURATION OF EVENTS

63 2.1N 123.6E

WIND SPEED	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00-0				17186
≥48																	0.00-0				17186
≥41																	0.00-0				17186
≥34																	0.00-0				17186
≥28	1																0.25-1	1	1	1	17186
≥22	1																0.25-1	1	1	1	17186
≥17	1																0.25-1	1	1	1	17186
≥11	20	3	1		3												1.25-3	27	44	44	17186
≥7	138	24	14	2	3	3	1		1								6.00-1	186	323	342	17186
≥4	617	147	158	30	75	11	11	4	15	4	1	4	1				68.75-1	1079	3973	4037	17186

DAYS DURATION OF EVENTS

WINTER

1 — 64.0N 166.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																9	SEA- 8	9	3080	4525	4527
≥48					1	1						1	1				15	SEA- 7	19	3504	5057	5082
≥41	2	1	1	2	1	2	1	3	2		1	2	2	1			33	SEA- 6	54	4793	6167	6286
≥34	8	6	7	2	3	5	4	4	2	1	3	4	1	2			64	SEA- 4	116	4934	5433	5902
≥28	25	6	10	7	5	7	9	11	12	12	5	9	3	5	6	66	780- 1	198	3492	3608	4662
≥22	23	18	22	20	15	15	21	13	7	8	8	7	7	5	7	43	420- 1	239	2428	2497	4391
≥17	37	27	30	26	20	15	8	7	11	10	7	5	5	4		25	240- 1	237	1633	1661	4367
≥11	36	36	39	15	13	15	8	5	2	4	3	2	2	2	2	5	114- 1	189	819	830	4345
≥ 7	47	28	20	10	9	4	3	4	1		1		1				78- 1	128	358	361	4333
≥ 4	43	16	7	5	1	1	2	1									48- 1	76	149	152	4333

HOURS INTERVAL BETWEEN EVENTS

2 — 59.4N 172.0W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																10	SEA- 7	10	3134	4672	4677
≥48	2			1			1	2	1		1	2				20	SEA- 6	30	3891	5666	5727
≥41	3	3	1	2	1		5	1	1	2	3				1	48	SEA- 5	71	5282	5864	6066
≥34	9	3	5	4	2	7	8	3	4	5	9	3	6	3	4	68	SEA- 2	143	4419	4716	5263
≥28	16	13	9	11	14	12	14	17	4	10	9	6	3	3	6	62	816- 1	209	3268	3422	4491
≥22	29	22	26	16	31	20	10	15	12	11	6	4	2	5	5	46	450- 1	260	2453	2513	4370
≥17	44	34	34	34	23	21	15	6	14	5	3	7	2	6	4	22	420- 1	274	1746	1772	4354
≥11	55	45	29	25	21	12	13		5	4	3	2	2	1		2	126- 1	219	821	831	4337
≥ 7	68	44	20	10	9	7	2	1		1							60- 1	162	375	378	4333
≥ 4	61	15	4	4	1		1										42- 1	86	131	132	4331

HOURS INTERVAL BETWEEN EVENTS

4 — 56.8N 174.8E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64	1								1							15	SEA- 8	17	3570	4978	4994
≥48	4		1	2		3	3	2	2	1		1	5	1	1	46	SEA- 4	72	4676	5100	5300
≥41	15	7		6	3	3	3	4	4	1	5	3	5	4	2	61	SEA- 2	126	4207	4463	4942
≥34	16	12	9	13	9	6	7	5	6	7	8	5	6	4	4	70	648- 1	187	3465	3616	4540
≥28	27	17	17	18	15	10	8	11	7	7	6	8	10	2	4	60	528- 1	227	2764	2894	4415
≥22	32	29	31	17	22	13	17	14	6	8	6	7	3	5	3	38	300- 2	251	2007	2102	4379
≥17	43	33	40	23	22	12	15	11	8	6	5	7	3	2	5	15	228- 1	250	1414	1438	4347
≥11	50	46	29	24	8	9	6	4	5		5	1	1	1	1	3	132- 1	193	704	724	4342
≥ 7	69	26	10	11	6	4	1		1	1	1					1	102- 1	141	333	335	4333
≥ 4	60	16	5	2	1	1											36- 1	85	126	126	4333

HOURS INTERVAL BETWEEN EVENTS

5 — 56.8N 141.9W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48							1									14	SEA- 8	15	3748	5117	5131
≥41	1	1				2	1		1			2				37	SEA- 5	45	4484	5665	5745
≥34	10	5	4	3	4	2	2	5	2	1	2	3	2	1	2	60	SEA- 1	108	4592	4999	5281
≥28	20	10	9	8	5	4	7	2	6	6	3	8	1	2	4	82	684- 1	177	3804	3979	4614
≥22	31	31	37	13	12	17	12	16	7	9	4	9	4	5	1	68	546- 1	276	3145	3216	4473
≥17	60	59	34	28	26	21	19	11	14	5	6	2	6	3	2	41	300- 1	337	2321	2363	4399
≥11	92	64	36	32	24	20	7	7	7	5	6	1	2	5	1	3	174- 1	314	1188	1195	4343
≥ 7	111	56	32	16	6	5	7	2	2	1	1				1	1	108- 1	241	580	583	4335
≥ 4	82	24	10	4	2		1	1									54- 1	124	203	205	4333

HOURS INTERVAL BETWEEN EVENTS

7 — 53.4N 164.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																9	SEA- 7	9	3056	4861	4863
≥48	1	1					1	2				1		1		27	SEA- 4	34	4088	6031	6098
≥41	3	3	3	1	2	1	1	1		2	1		1		1	53	SEA- 4	73	4713	5796	6006
≥34	16	9	7	5	6	4	10	5	5	3	5	1	3	3	5	71	SEA- 1	158	4066	4327	4868
≥28	21	15	18	23	4	19	6	6	7	10	2	5	3	5	6	77	354- 1	227	3223	3343	4447
≥22	41	26	25	24	22	11	11	5	4	10	5	8	9	5	3	54	276- 1	263	2418	2523	4358
≥17	49	53	39	28	21	12	6	8	11	6	8	12	6	3	2	24	252- 1	288	1712	1773	4350
≥11	83	49	40	24	14	14	10	3	6	1	4	3	2	1	2	1	102- 1	257	876	885	4339
≥ 7	78	43	20	9	5	6	1	1	1		1	1					72- 1	166	368	373	4333
≥ 4	66	13	7	1													24- 1	87	117	117	4333

HOURS INTERVAL BETWEEN EVENTS

8 — 52.0N 172.9E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64								2		1						14	SEA- 7	16	3611	5331	5344
≥48		1	1	1	1	2		1	1		1	1	1	1	1	44	SEA- 2	57	3945	4996	5114
≥41	5	5	1	4	2	3	4	4	2	2		4	1	5	3	58	SEA- 1	103	4224	4530	4814
≥34	17	20	13	12	6	7	10	6	8	6	7	6	5	3	4	62	1044- 1	192	3562	3820	4473
≥28	58	29	25	20	13	12	18	15	9	11	5	5	6	3	5	62	354- 1	296	3041	3159	4388
≥22	54	44	31	30	23	16	16	8	14	7	12	7	7	7	4	35	246- 1	315	2181	2273	4347
≥17	64	55	41	31	20	18	17	6	8	8	3	7	2	2	7	14	138- 1	303	1477	1526	4342
≥11	85	53	43	21	10	7	8	3	4	1	4	3	3				78- 3	245	741	742	4337
≥ 7	76	33	13	12	4	4	2	1			1						66- 1	146	306	306	4333
≥ 4	64	13	3	4													24- 4	84	115	115	4333

HOURS INTERVAL BETWEEN EVENTS

10 — 51.7N 135.6W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																9	SEA- 8	9	3029	4474	4476
≥48	2			1				1				2			1	29	SEA- 6	36	4188	5720	5776
≥41	12	4	2	1	4		1	2	1	2	4	1		2	1	50	SEA- 2	87	4875	5628	5795
≥34	25	15	13	8	9	6	6	3	4	9	5	3	5	3	4	65	1698- 1	183	4151	4428	4928
≥28	50	27	27	17	9	14	13	7	17	5	10	5	3	4	1	68	1206- 1	277	3490	3563	4551
≥22	76	46	30	24	21	19	8	21	11	5	7	4	7	6	3	46	900- 1	334	2593	2629	4404
≥17	64	57	43	33	21	24	14	5	8	7	8	1	5	6	3	21	252- 1	320	1773	1792	4342
≥11	81	54	34	30	17	5	7	6	3	2	3	2		1		6	144- 1	251	851	859	4333
≥ 7	83	40	26	6	6	4	3		2			1				2	132- 1	173	409	410	4333
≥ 4	66	22	7	1	1												36- 1	98	146	147	4333

HOURS INTERVAL BETWEEN EVENTS

11 — 51.3N 158.8W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64			1													10	SEA- 8	11	3411	4856	4862
≥48	2	1		1			1			1		1				30	SEA- 4	37	4069	5411	5486
≥41	7	4	5	2	2	2		3	4	4	1	1	3		1	60	1350- 1	99	4152	4561	4780
≥34	28	13	10	10	13	13	7	6	5	2	3	8	1	2	1	83	690- 1	205	3719	3987	4564
≥28	40	29	22	20	21	9	11	9	15	9	6	12	2	7	4	67	438- 1	285	3127	3260	4418
≥22	59	35	46	39	26	14	11	21	14	12	9	6	7	6	8	30	306- 1	343	2366	2441	4408
≥17	90	70	53	28	30	17	20	6	6	5	7	7	5		1	16	198- 2	361	1618	1662	4348
≥11	118	79	37	23	12	5	5	6	1	3	3	1		2			84- 2	293	762	782	4337
≥ 7	113	37	16	7	3	5		1									54- 1	182	317	323	4333
≥ 4	69	17	3	1													24- 1	90	116	116	4333

HOURS INTERVAL BETWEEN EVENTS

13 — 50.3N 171.3W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																9	SEA- 7	9	3007	4676	4679
≥48	2	3				2	1	1				1				26	SEA- 5	36	4329	5351	5410
≥41	5	3	1	1	3	2		3	1	2			2		1	52	SEA- 1	76	4561	4958	5122
≥34	15	7	8	7	7	1	4	5	6	5	1	4	5	2	3	76	858- 1	156	3869	4056	4496
≥28	40	21	15	18	16	11	10	13	7	8	10	4	7	2	7	78	546- 1	267	3425	3567	4487
≥22	59	41	41	20	23	20	13	11	20	15	10	12	13	13	8	31	354- 1	350	2674	2714	4402
≥17	89	63	47	37	28	23	23	17	13	9	12	8	2	1	2	11	198- 1	385	1806	1837	4350
≥11	107	81	38	38	18	8	5	4	3	4	2				1		120- 1	309	849	859	4332
≥ 7	104	56	20	4	3	4		1	1								54- 1	193	348	348	4332
≥ 4	78	6	5	1													24- 1	90	109	109	4332

HOURS INTERVAL BETWEEN EVENTS

14 — 49.3N 174.1E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64				2					1							10	SEA- 8	13	3344	4865	4872
≥48	2	2	2	4	1	1	2	1	1	2				2	1	47	SEA- 1	69	4341	4776	4906
≥41	4	7	6	4	6	2	3	4	2	3	4	2	1	4	4	59	SEA- 1	115	4276	4497	4768
≥34	30	13	12	11	8	8	6	4	10	3	6	4	3	4	3	73	780- 1	198	3638	3833	4426
≥28	44	39	23	25	16	16	16	9	17	6	8	8	2	4	1	72	510- 1	306	3160	3199	4359
≥22	65	65	46	30	24	26	13	10	13	8	11	9	2	4	2	43	216- 1	371	2306	2324	4350
≥17	77	59	47	29	27	23	22	9	11	7	7	6	2	3	3	9	174- 1	341	1553	1564	4338
≥11	105	57	32	25	12	10	9	7	4	1	1		2		1		90- 1	266	752	757	4337
≥ 7	98	34	18	8	7	5	1										42- 1	171	324	327	4333
≥ 4	50	17	2	4	1												30- 1	74	111	111	4333

HOURS INTERVAL BETWEEN EVENTS

16 — 47.1N 161.2E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																10	SEA- 5	10	2501	4835	4846
≥48	1		3	3		2	3	2				2	4			40	SEA- 3	62	4474	5298	5400
≥41	6	7	4	5	5	3	5	4	1	4	1	3	3	7	1	69	972- 1	128	3618	4174	4470
≥34	18	18	18	14	15	11	9	13	7	3	10	9	6	5	5	66	594- 1	227	3416	3704	4422
≥28	53	32	38	22	20	20	23	10	5	12	9	13	5	6	4	59	396- 1	331	2963	3048	4383
≥22	79	86	54	27	24	21	16	12	6	14	14	7	6	7	9	17	246- 1	399	2113	2145	4340
≥17	115	80	60	40	23	14	12	13	7	8	3	1	2	4	2	4	114- 1	388	1371	1388	4338
≥11	103	68	46	13	7	9	8	5	1								54- 1	260	623	629	4334
≥ 7	75	47	16	1	4	2	1										48- 1	147	268	270	4334
≥ 4	60	9		1													24- 1	70	82	83	4331

HOURS INTERVAL BETWEEN EVENTS

17 — 45.8N 139.3E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																10	SEA- 7	10	3071	4800	4806
≥48	4	1		1					2	1	1			1		20	SEA- 7	27	4460	5754	5801
≥41	2	3	3		1	1	1					1	1			34	SEA- 3	51	3729	5572	5727
≥34	7	6	5	1	2		4	5	4	2	3		3	4		56	1350- 1	102	3602	4474	4867
≥28	21	9	6	7	10	10	8	7	8	5	8	6	7	5	5	74	648- 1	196	3430	3721	4541
≥22	51	33	28	26	19	17	24	13	10	12	9	8	6	6	4	47	384- 1	313	2684	2808	4387
≥17	74	67	39	40	23	25	15	16	15	3	4	4	4	4	2	22	204- 1	357	1869	1892	4346
≥11	96	81	44	31	17	5	8	6	3	1	2	1	3	1		1	120- 1	300	877	881	4340
≥ 7	94	47	25	10	5	2	2		2			1				1	108- 1	190	409	410	4334
≥ 4	78	30	18	7	4	3	1		2			1				1	108- 1	145	313	314	4333

HOURS INTERVAL BETWEEN EVENTS

19 — 44.3N 177.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64		1										1				11	SEA- 8	13	3519	4861	4869
≥48	5	5	3			1	2	1			2	1	1	1		48	SEA- 1	70	4542	5028	5158
≥41	14	5	8	5	2	3	3	5	4	2	3	4	4		3	68	1080- 1	133	3920	4245	4559
≥34	24	21	22	13	10	5	12	10	12	15	8	7	9	1	5	79	618- 1	253	3585	3672	4409
≥28	61	37	31	29	15	22	17	16	14	11	16	20	6	4	6	51	438- 1	356	2960	3015	4386
≥22	78	58	49	39	35	25	18	16	14	16	8	8	1	7	2	22	228- 1	398	2157	2184	4369
≥17	106	64	55	40	36	18	11	17	6	8	3	3	3		4	7	132- 1	375	1489	1494	4365
≥11	127	88	34	18	12	6	6	1	2		1	1		1			84- 1	297	678	679	4340
≥ 7	99	39	18	7	1	2	1										42- 1	167	283	283	4335
≥ 4	60	10	3	2													24- 2	75	97	97	4333

HOURS INTERVAL BETWEEN EVENTS

20 — 44.2N 152.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64	1															10	SEA- 7	12	2847	4568	4574
≥48	1	1	2	1		1		1				1				26	SEA- 6	34	4480	5788	5845
≥41	7	2	3	3	8		1	2	2	4	4	5	2	1	1	65	SEA- 1	110	4244	4931	5154
≥34	32	15	11	19	17	12	10	13	10	4	7	7	6	4	4	66	1038- 1	237	3753	4088	4749
≥28	64	40	37	14	23	11	17	10	7	12	4	6	10	8	2	54	486- 1	319	2930	3046	4397
≥22	80	50	47	25	27	13	12	14	13	11	6	9	7	6	3	27	432- 1	350	2152	2182	4339
≥17	98	47	38	39	23	13	15	10	4	8	5	3	3	3	3	9	264- 1	321	1398	1420	4334
≥11	84	50	32	16	13	9	3	3	6	2	2		1			1	126- 1	222	638	640	4332
≥ 7	80	30	14	8	6	2		3									48- 3	143	280	280	4332
≥ 4	53	13	2	2													24- 2	70	93	93	4332

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS

2 — 59.4N 172.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																10	SEA- 7	10	3134	4672	4677
≥48	2				1				1	2	1		1	2		20	SEA- 6	30	3891	5666	5727
≥41	3	3	1	2	1		5	1	1	2	3				1	48	SEA- 5	71	5282	5864	6066
≥34	9	3	5	4	2	7	8	3	4	5	9	3	6	3	4	68	SEA- 4	143	4419	4716	5263
≥28	16	13	9	11	14	12	14	17	4	10	9	6	3	3	6	62	SEA- 3	209	3268	3422	4491
≥22	29	22	26	16	31	20	10	15	12	11	6	4	2	5	5	46	SEA- 2	260	2453	2513	4370
≥17	44	34	34	34	23	21	15	6	14	5	3	7	2	6	4	22	SEA- 1	274	1746	1772	4354
≥11	55	45	29	25	21	12	13		5	4	3	2	2	1		2	126- 1	219	821	831	4337
≥ 7	68	44	20	10	9	7	2	1		1							60- 1	162	376	378	4333
≥ 4	61	15	4	4	1		1										42- 1	86	13	132	4331

HOURS INTERVAL BETWEEN EVENTS

3 — 58.5N 151.6W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																10	SEA- 8	10	3304	4749	4751
≥48	2						1					1				16	SEA- 6	20	4187	5458	5485
≥41	1			1		1	3			1			1	1		36	SEA- 2	45	4122	5403	5491
≥34	12	9	3	2	3	6	4	2	2	3	5	1	3	2	3	63	1284- 1	123	3968	4543	4871
≥28	22	9	11	13	10	14	6	6	5	7	4	5	3	3	2	77	678- 1	197	3547	3789	4545
≥22	45	25	27	20	26	12	14	15	11	7	12	8	11	6	7	53	516- 1	299	2853	2918	4465
≥17	60	46	37	35	21	20	9	14	6	11	12	9	5	4	2	25	384- 1	316	1995	2033	4384
≥11	69	73	39	29	12	12	8	8	9	2	2	2	4	2	3		108- 1	276	1009	1017	4341
≥ 7	99	55	19	5	8	1	7	4	1		1						72- 1	200	434	439	4335
≥ 4	73	10	4	2			2										42- 2	91	127	131	4333

HOURS INTERVAL BETWEEN EVENTS

5 — 56.8N 141.9W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																8	SEA- 8	8	2944	4389	4389
≥48																14	SEA- 8	15	3748	5117	5131
≥41	1	1				2		1		1			2			37	SEA- 5	45	4484	5665	5745
≥34	10	5	4	3	4	2	2	5	2	1	2	3	2	1	2	60	SEA- 1	108	4592	4999	5281
≥28	20	10	9	8	5	4	7	2	6	6	3	8	1	2	4	82	684- 1	177	3804	3979	4614
≥22	31	31	37	13	12	17	12	16	7	9	4	9	4	5	1	68	546- 1	276	3145	3216	4473
≥17	60	59	34	28	26	21	19	11	14	5	6	2	6	3	2	41	300- 1	337	2321	2363	4399
≥11	92	64	38	32	24	20	7	7	7	5	6	1	2	5	1	3	174- 1	314	1188	1195	4343
≥ 7	111	56	32	16	6	5	7	2	2	1	1				1		108- 1	241	580	583	4335
≥ 4	82	24	10	4	2			1	1								54- 1	124	203	205	4333

HOURS INTERVAL BETWEEN EVENTS

6 — 54.9N 167.1W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																8	SEA- 7	8	2711	4514	4515
≥48	1				2											21	SEA- 7	25	4288	5714	5747
≥41		2	1	2		3	4			2	1	1	1	1		44	SEA- 2	63	4257	5337	5457
≥34	17	8	7	4	5	5	4	5	2	4	3	2	1	1	2	76	780- 1	146	3944	4257	4660
≥28	26	14	13	10	13	8	15	7	9	4	3	10	3	1	8	77	552- 1	221	3367	3593	4446
≥22	54	33	28	39	27	26	19	16	7	10	6	6	11	2	7	41	318- 1	332	2618	2701	4355
≥17	68	63	52	37	25	25	16	12	11	9	7	9	2	1	2	20	240- 1	359	1841	1875	4338
≥11	98	77	41	22	19	15	5	5	2	3	2	2				2	126- 1	293	854	880	4336
≥ 7	101	39	25	11	3	4		1			1						66- 1	185	356	367	4332
≥ 4	76	6	1	3			1										42- 1	87	110	120	4332

HOURS INTERVAL BETWEEN EVENTS

8 — 52.0N 172.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64								2								14	SEA- 7	16	3611	5331	5344
≥48		1	1	1	1	2		1	1		1	1	1	1	1	44	SEA- 2	57	3945	4996	5114
≥41	5	5	1	4	2	3	4	4	2	2		4	1	5	3	58	SEA- 1	103	4224	4530	4814
≥34	17	20	13	12	6	7	10	6	8	6	7	6	5	3	4	62	1144- 1	192	3562	3820	4473
≥28	58	29	25	20	13	12	18	15	9	11	5	5	6	3	5	62	354- 1	296	3041	3159	4388
≥22	54	44	31	30	23	16	16	8	14	7	12	7	7	7	4	35	246- 1	315	2181	2273	4347
≥17	64	55	41	31	20	18	17	6	8	8	3	7	2	2		14	138- 1	303	1477	1526	4342
≥11	85	53	43	21	10	7	8	3	4	1	4	3	3				78- 3	245	741	742	4337
≥ 7	76	33	13	12	4	4	2	1									66- 1	146	306	306	4333
≥ 4	64	13	3	4													24- 4	84	115	115	4333

HOURS INTERVAL BETWEEN EVENTS

9 — 51.7N 158.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																10	SEA- 8	10	3226	4972	4975
≥48			1						1							28	SEA- 4	30	3962	5763	5818
≥41	1	1	2	1	1		1	1	1	2	1		2	2	2	51	SEA- 3	69	4553	5352	5524
≥34	12	6		11	2	9	6	7	5	3	8	6	2	4	6	69	SEA- 1	156	4112	4467	4938
≥28	22	21	21	17	10	15	12	11	8	9	5	1	7	6	9	67	516- 1	241	3150	3390	4419
≥22	42	31	26	32	22	25	17	12	4	4	4	4	9	3	5	55	288- 1	295	2526	2617	4355
≥17	61	63	42	27	23	11	12	11	6	10	5	4	3	6	3	25	186- 1	312	1739	1792	4339
≥11	90	65	32	18	11	13	5	5	7	3	2			1		3	132- 1	255	779	799	4338
≥ 7	79	33	11	8	6	7		2	2	1							60- 1	149	326	332	4333
≥ 4	57	13	7	2	1			1									48- 1	81	125	125	4333

HOURS INTERVAL BETWEEN EVENTS

11 — 51.3N 158.8W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																10	SEA- 8	11	3411	4856	4862
≥48	2	1		1			1		1		1					30	SEA- 6	37	4069	5411	5486
≥41	7	4	5	2	2	2		3	4	4	1	1	3			60	1350- 1	99	4152	4561	4780
≥34	28	13	10	10	13	13	7	6	5	2	3	8	1	2	1	83	690-	205	3719	3987	4564
≥28	40	29	22	20	21	9	13	9	15	9	6	12	2	7	4	67	438- 1	285	3127	3260	4418
≥22	59	35	46	39	26	14	11	21	14	12	9	6	7	6	8	30	306- 1	343	2366	2441	4408
≥17	90	70	53	28	30	17	20	6	6	5	7	7	5		1	16	198- 2	361	1618	1662	4348
≥11	116	79	37	23	12	5	5	6	1	3	3	1		2			84- 2	293	762	782	4337
≥ 7	113	37	16	7	3	5			1								54- 1	182	317	323	4333
≥ 4	69	17	3	1													24- 1	90	116	116	4333

HOURS INTERVAL BETWEEN EVENTS

12 — 50.9N 145.6W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																8	SEA- 8	8	2944	4389	4389
≥48	1					1	1				1					27	SEA- 6	31	3909	5584	5626
≥41	6	1	4	4	1	4	3	1	3	2	1		1	2	2	58	SEA- 4	93	4512	5152	5339
≥34	18	17	8	7	13	8	6	2	4	5	4	6	8	2	5	72	1020- 1	185	3932	4187	4729
≥28	40	29	28	18	20	14	11	8	14	6	3	5	7	3	6	66	426- 1	278	3254	3316	4466
≥22	73	37	36	25	18	18	18	14	5	9	11	8	4	3	2	41	384- 1	322	2385	2417	4383
≥17	96	67	31	41	18	15	17	10	6	1	8	4	4	1	4	16	246- 1	339	1564	1586	4361
≥11	98	48	27	23	11	9	4	5	1	1	1	1	3		2	1	96- 1	235	671	673	4338
≥ 7	87	29	20	8	2	3				1							60- 1	150	275	277	4334
≥ 4	59	12	5	1													24- 1	77	102	103	4333

HOURS INTERVAL BETWEEN EVENTS

14 — 49.3N 174.1E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64				2												10	SEA- 8	13	3344	4865	4872
≥48	2	2	2	4	1	1	2	1	1	1	2				2	1	SEA- 7	69	4341	4776	4906
≥41	4	7	6	4	6	2	3	4	2	3	4	2	1	4	4	59	SEA- 1	115	4276	4497	4768
≥34	30	13	12	11	8	8	6	4	10	3	6	4	3	4	3	73	780- 1	198	3638	3833	4426
≥28	44	39	23	25	16	16	16	9	17	6	8	8	2	4	1	72	510- 1	306	3160	3199	4359
≥22	65	65	46	30	24	26	13	10	13	8	11	9	2	4	2	43	216- 1	371	2306	2324	4350
≥17	77	59	47	29	27	23	22	9	11	7	7	6	2	3	3	9	174- 1	341	1553	1564	4338
≥11	105	57	32	25	12	10	9	7	4	1	1		2		1		90- 1	266	752	757	4337
≥ 7	98	34	18	8	7	5	1										42- 1	171	324	327	4333
≥ 4	50	17	2	4	1												30- 1	74	111	111	4333

HOURS INTERVAL BETWEEN EVENTS

15 — 49.0N 128.4W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																8	SEA- 8	8	2944	4389	4389
≥48	1	1				1	1		1							20	SEA- 7	25	4110	5543	5571
≥41	3	4			4	1	1	1	1		1			1	1	42	SEA- 4	64	4638	5606	5709
≥34	9	6	3	7	4	5	4	6	5	4	2	2	2	2	3	66	SEA- 2	130	4681	5245	5578
≥28	19	13	12	19	8	5	9	10	7	6	4	5	6	6	2	79	SEA- 1	210	3987	4309	5009
≥22	44	34	36	27	21	25	16	12	4	11		5	6	5	3	63	984- 1	312	3017	3052	4473
≥17	61	58	36	30	37	20	16	11	6	5	1	7	7	4	1	37	252- 1	337	2122	2141	4352
≥11	91	64	44	19	17	13	7	8	3	8	4	2		2		1	174- 1	289	1055	1070	4334
≥ 7	88	42	33	14	7	5	8	1	2								102- 1	201	491	496	4333
≥ 4	66	25	6	1	3	2											36- 2	103	165	166	4333

HOURS INTERVAL BETWEEN EVENTS

17 — 45.8N 139.3E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																10	SEA- 7	10	3071	4800	4806
≥48	4	1		1											1	20	SEA- 7	27	4460	5754	5801
≥41	2	3	3		1	1	1		2	1	1		1	1		34	SEA- 3	51	3729	5572	5727
≥34	7	6	5	1	2		4	5	4	2	3		3	4		56	1350- 1	102	3602	4474	4867
≥28	21	9	6	7	10	10	8	7	8	5	8	6	7	5	5	74	648- 1	196	3430	3721	4541
≥22	51	33	28	26	19	17	24	13	10	12	9	8	6	6	4	47	384- 1	313	2684	2808	4387
≥17	74	67	39	40	23	25	15	16	15	3	4	4	4	4	2	22	204- 1	357	1869	1892	4346
≥11	96	81	44	31	17	5	8	6	3	1	2	1	3	1		1	120- 1	300	877	881	4340
≥ 7	94	47	25	10	5	2	3		2			1				1	108- 1	190	409	410	4334
≥ 4	78	30	18	7	4	3	1		2							1	108- 1	145	313	314	4333

HOURS INTERVAL BETWEEN EVENTS

18 — 45.6N 144.2W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																9	SEA- 7	9	2862	4378	4380
≥48							2	1							1	25	SEA- 6	29	3963	5216	5295
≥41	8	4	3	3		4	1	2			1	3	5	1	2	52	SEA- 4	89	4624	5780	5960
≥34	16	13	7	14	8	9	8	8	6	7	8	4	4	3	1	70	SEA- 2	186	4443	4733	5291
≥28	37	29	25	18	29	12	16	8	11	8	3	5	4	7	3	65	582- 1	280	3212	3306	4482
≥22	79	48	39	23	16	25	16	9	6	9	16	4	5	4	3	39	396- 1	341	2272	2310	4403
≥17	83	43	47	31	27	13	13	14	10	6	4	4	2	4	2	9	210- 1	312	1396	1431	4371
≥11	77	49	32	18	10	10	2	5			2	1			1		102- 1	207	561	565	4351
≥ 7	55	31	14	4	3	5			1								54- 1	113	229	233	4339
≥ 4	42	10	2	1			1										42- 1	56	76	80	4332

HOURS INTERVAL BETWEEN EVENTS

20 — 44.2N 152.7W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64	1			1												10	SEA- 7	12	2847	4568	4574
≥48	1	1	2	1		1		1			1					26	SEA- 6	34	4480	5788	5845
≥41	7	2	3	3	8		1	2	2	4	4	5	2	1	1	65	SEA- 1	110	4244	4931	5154
≥34	32	15	11	19	17	12	10	13	10	4	7	7	6	4	4	66	1038- 1	237	3753	4088	4749
≥28	64	40	37	14	23	11	17	10	7	12	4	6	10	8	2	54	486- 1	319	2930	3046	4397
≥22	80	50	47	25	27	13	12	14	13	11	6	9	7	6	3	27	432- 1	350	2152	2182	4339
≥17	98	47	38	39	23	13	15	10	4	8	5	3	3	3	3	9	264- 1	321	1398	1420	4334
≥11	84	50	32	16	13	9	3	3	6	2	2				1		126- 1	222	638	640	4332
≥ 7	80	30	14	8	6	2		3									48- 3	143	280	280	4332
≥ 4	53	13	2	2													24- 2	70	93	93	4332

HOURS INTERVAL BETWEEN EVENTS

21 — 43.7N 128.7W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64									1	2						9	SEA- 8	9	3174	4618	4620
≥48	1															21	SEA- 6	32	3508	5358	5464
≥41	3	2	2	2	4	1	2	1	3	2				3	3	1	SEA- 4	67	4924	5685	5811
≥34	11	8	3	5	4	6	3	4	2	3	3	4	4	4	1	56	SEA- 4	121	5102	5615	5839
≥28	26	22	19	6	9	10	9	3	6	6	9	5	2	5	4	70	1608- 1	211	4051	4229	4954
≥22	53	30	28	26	14	18	10	13	5	10	4	3	6	6	5	62	516- 1	293	2941	2998	4481
≥17	68	45	30	28	17	18	17	16	6	9	9	8	5	6	5	32	240- 1	319	2086	2120	4345
≥11	71	46	39	37	15	14	11	6	5	5	6	2	3	1	3	3	120- 1	267	1050	1054	4333
≥ 7	75	44	20	18	7	9			4		1		1				78- 1	178	446	448	4333
≥ 4	70	16	13	4		1	2										42- 2	106	177	178	4333

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

22 — 42.8N 167.5W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48	1	1		3						1			2				27	SEA- 5	35	3797	5726	5779	
≥41	3	4			4	2	1	2	1	3	2	2	2	1			50	SEA- 2	77	3994	5112	5273	
≥34	29	17	12	9	11	5	6	5	9	4	6	3	8	6	2		85	1716- 1	217	3934	4133	4685	
≥28	44	34	29	14	16	16	10	9	16	15	12	12	10	2	6		62	504- 1	307	3148	3277	4451	
≥22	69	71	58	32	20	26	15	17	21	13	8	6	7	6	2		23	282- 1	394	2255	2288	4350	
≥17	92	78	51	38	28	16	16	14	8	3	4	4	1		4	7		132- 1	364	1414	1427	4336	
≥11	108	65	33	15	8	2	7	4	1	1	4		1	1		2		102- 1	252	653	657	4333	
≥ 7	89	36	11	6	7	2			1		1							66- 1	153	285	286	4333	
≥ 4	62	9	5		1													30- 1	77	100	101	4333	

HOURS INTERVAL BETWEEN EVENTS

23 — 42.4N 172.1E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																11	SEA- 6	11	2858	5025	5036	
≥48	4	2	1			1	1		1	1		2	2		1		48	SEA- 3	64	4498	5114	5241	
≥41	18	8	6	4	3	3	5	1	3	5	8	3	3	1	3	66		1644- 1	140	4084	4289	4602	
≥34	21	17	19	13	16	11	6	6	13	4	6	7	3	4	3	87		534- 1	236	3646	3734	4456	
≥28	45	29	46	26	28	17	21	17	17	8	4	6	9	7	8	57		396- 1	345	3049	3084	4415	
≥22	87	54	71	37	28	26	21	13	11	9	6	5	5	5	6	26		240- 1	410	2210	2220	4354	
≥17	112	92	53	57	29	14	11	11	5	3	1	3	4	4	2	7		120- 2	408	1465	1471	4351	
≥11	143	76	44	19	4	5	4	4	2	1	1	1						72- 1	304	664	666	4339	
≥ 7	127	33	9	6	2	1	2											42- 2	180	274	275	4332	
≥ 4	63	6	1															18- 1	70	78	78	4332	

HOURS INTERVAL BETWEEN EVENTS

25 — 40.2N 131.2E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48																10	SEA- 7	10	2868	4602	4606	
≥41												1				14	SEA- 7	15	3241	4794	4812	
≥34				1			1	1	1				1		2	37	SEA- 4	44	4351	5672	5763	
≥28	9	7	5	2	3	4	5	4	5	1	6	1	2	4		70	SEA- 2	128	4468	4856	5215	
≥22	28	16	8	13	11	12	12	14	14	7	10	9	8	6	9	76	654- 1	253	3475	3600	4523	
≥17	43	47	25	30	23	21	17	21	15	12	6	11	7	9	10	41	360- 1	338	2724	2785	4425	
≥11	93	82	52	41	38	22	17	9	11	4	6	1	3	2	2	4	114- 1	387	1474	1483	4343	
≥ 7	112	72	54	22	12	8	3	4	1	2						1	102- 1	291	713	718	4341	
≥ 4	114	32	21	7	4	2	1	3	1							1	96- 1	186	358	363	4333	

HOURS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																9	SEA- 8	9	2992	4438	4441	
≥48	2			1	1	2		1							1	30	SEA- 3	38	3789	4699	4747	
≥41	2	1	3	5	4				1		1	1		1	2	51	SEA- 1	73	3813	4390	4526	
≥34	14	6	5	9	9	4	3	4	4	6	7	1	3	2	5	86	780- 1	168	3967	4139	4532	
≥28	34	21	17	20	20	14	10	10	12	13	7	8	6	12	13	71	528- 1	288	3542	3608	4454	
≥22	59	35	59	44	35	27	27	26	16	11	14	11	13	7	5	25	216- 1	414	2678	2730	4355	
≥17	93	104	83	54	46	20	28	13	12	8	6	7	4	2	1	3	120- 1	484	1907	1915	4343	
≥11	188	110	52	27	14	5	4	6		1	1	2					72- 2	410	893	897	4334	
≥ 7	161	56	21	7	5		2										42- 2	252	403	403	4334	
≥ 4	87	16	1	2													24- 2	106	130	130	4334	

HOURS INTERVAL BETWEEN EVENTS

28 — 36.1N 123.8W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48																9	SEA- 8	9	3013	4458	4459	
≥41																15	SEA- 8	15	3981	5452	5465	
≥34	5	1			1	1		1		2			1			29	SEA- 4	41	4359	5356	5423	
≥28	7	2	7	1	2	2	7	4	5			1		4	1	61	1638- 1	104	4177	4688	4935	
≥22	15	13	9	8	10	6	8	5	9	4	10	1	6	8	9	74	1152- 1	195	3520	3734	4420	
≥17	43	30	25	16	23	17	17	17	9	13	10	11	6	3	9	55	294- 1	304	2846	2985	4385	
≥11	111	65	36	28	19	16	26	11	4	7	10	3	1	4	3	11	264- 1	355	1552	1577	4334	
≥ 7	101	63	36	12	14	11	6	6	4	4			1				78- 1	258	698	708	4334	
≥ 4	98	28	14	5	1	5	1										42- 1	152	258	259	4333	

HOURS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64		1														9	SEA- 8	10	3025	4471	4473	
≥48	2	1					1	1					1			24	SEA- 6	30	3762	5537	5576	
≥41	5	4	2	2		3	3	2			2	1	1		1	40	SEA- 7	66	4881	6238	6359	
≥34	15	12	11	4	8	8	4	4	1	3	4	2	2	4	3	67	SEA- 2	152	4774	5770	6125	
≥28	40	31	20	19	10	12	7	7	11	6	9	8	6	6	6	68	1872- 1	266	4048	4192	5060	
≥22	73	46	28	29	27	24	15	15	14	5	7	6	6	3		52	756- 1	350	2872	2966	4636	
≥17	81	76	46	29	27	25	14	12	12	5	7	3	2	3	2	27	468- 1	371	2049	2062	4519	
≥11	90	68	53	19	21	9	9	3	3	2	3	1	2			4	120- 2	287	902	903	4354	
≥ 7	104	42	24	10	3	4	1	2	1	1							60- 1	192	381	381	4342	
≥ 4	69	18	3			1	1										42- 1	92	127	127	4338	

HOURS INTERVAL BETWEEN EVENTS

31 — 35.6N 155.2W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48	2		1				1					1					SEA- 9	20	4189	5456	5474	
≥41	5	3	2		2	1	1	1	1	1	1				1	33	SEA- 8	52	4771	6115	6207	
≥34	12	6	7	2	8	3	7	12	2	4	3	5	1	5	4	53	SEA- 4	134	4857	5883	6212	
≥28	32	21	11	11	8	14	12	8	7	5	8	9	7	4	1	70	1584- 1	228	4187	4429	5192	
≥22	54	25	26	17	21	15	11	13	8	8	7	8	5	8	7	58	708- 1	291	3112	3212	4709	
≥17	50	44	46	46	20	17	7	21	13	8	11	5	5	5	3	25	408- 1	326	2111	2167	4468	
≥11	76	69	44	37	8	14	6	8	5	6	2	5		1	1	6	150- 1	288	1056	1061	4368	
≥ 7	104	41	23	14	3	1	6	1	2	1	1		2				78- 2	199	447	448	4335	
≥ 4	87	25	6	3	2	2					1						72- 1	126	201	201	4333	

HOURS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48									1							11	SEA- 9	12	3649	4953	4960	
≥41	4			1	1					1						23	SEA- 6	30	3970	5620	5662	
≥34	12	7	3	4	7	2	2	1	1	2	3				2	1	46	SEA- 6	93	5343	6200	6406	
≥28	25	16	14	11	8	9	3	7	3	3	4	2		4	1	64	SEA- 2	174	4845	5310	5869	
≥22	45	19	20	20	14	10	8	7	6	6	6	3	7	10	4	63	816- 1	248	3371	3438	4681	
≥17	47	44	37	22	25	15	11	17	8	6	13	6	5	4	6	38	402- 2	304	2432	2470	4493	
≥11	73	48	31	23	21	13	9	9	7	4	5	2	3	2		11	150- 1	261	1147	1158	4344	
≥ 7	73	34	22	12	8	4	5	2	4	1	1	3	1	1		2	108- 2	173	526	528	4334	
≥ 4	56	22	9	8	3	3	1										42- 1	102	199	199	4333	

HOURS INTERVAL BETWEEN EVENTS

34 — 34.2N 155.1E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4390	4390	
≥48						1										11	SEA- 8	12	3319	4765	4771	
≥41				2		1			1					1		20	SEA- 7	25	3752	4957	4983	
≥34	9	2	2		2	3		3	1	1	3	2	3	2	2	56	SEA- 2	91	4186	4760	4919	
≥28	26	9	6	8	10	5	8	6	5	7	4	2	5	6	5	89	SEA- 1	201	4192	4311	4768	
≥22	46	27	27	26	25	22	21	15	7	20	9	9	11	14	6	57	486- 1	342	3309	3312	4387	
≥17	88	60	73	60	30	32	29	13	19	12	6	8	12	4	3	18	270- 1	467	2437	2438	4372	
≥11	138	96	76	42	20	21	11	7	2	3	4	1		2			90- 2	415	1211	1211	4344	
≥ 7	143	80	34	12	12	1	1	1									48- 1	304	554	554	4336	
≥ 4	118	21	3	2													24- 2	144	177	177	4334	

HOURS INTERVAL BETWEEN EVENTS

35 — 34.2N 163.8E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4390	4390	
≥48							1									13	SEA- 8	14	3648	5192	5203	
≥41				2	1	1				1		1	1			24	SEA- 6	31	3720	5414	5455	
≥34	6	4	4	3	1	3	5	5	4	3	3	2	1		4	63	SEA- 3	111	4706	5466	5677	
≥28	25	16	10	15	7	9	17	5	7	16	8	2	3	6	7	85	SEA- 1	240	4196	4582	5193	
≥22	49	50	55	33	44	27	18	11	13	8	9	11	16	9	8	45	312- 1	406	2969	2976	4392	
≥17	86	76	74	38	39	25	17	15	20	8	6	12	6	4	3	11	150- 1	440	2051	2057	4380	
≥11	125	92	64	27	19	13	7	8	1	1	2	1					72- 1	360	948	949	4342	
≥ 7	134	56	19	10	3	1	2		1								54- 1	226	387	387	4338	
≥ 4	86	14	3	1													24- 1	104	127	127	4335	

HOURS INTERVAL BETWEEN EVENTS

37 — 32.9N 119.4W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48																8	SEA- 8	8	2944	4389	4389	
≥41																8	SEA- 8	8	2944	4389	4389	
≥34		1														8	SEA- 7	9	2676	4451	4453	
≥28	2	1	3	2	1			2					1	1	2	25	SEA- 3	40	3867	4944	4999	
≥22	13	6	3	2	3	1	3	2	2	1	4	2	2	2	2	57	1296- 1	105	3827	4361	4607	
≥17	41	17	16	11	11	9	7	8	8	9	15	4	2	4	4	70	672- 1	236	3325	3679	4425	
≥11	120	52	33	19	16	21	20	16	14	9	7	7	8	3	4	28	228- 1	377	2126	2237	4337	
≥ 7	131	67	38	21	26	18	6	7	6	2	1	4	2	2		3	102- 2	334	1036	1063	4333	
≥ 4	118	58	22	12	14	4	4	1	1	1							60- 1	233	495	508	4333	

HOURS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4389	4389	
≥48																9	SEA- 8	9	3239	4684	4685	
≥41																13	SEA- 9	13	3850	5035	5042	
≥34					1											24	SEA-11	25	5272	6005	6034	
≥28	8		1	1	1		1	2	1	2						44	SEA- 4	62	4917	6123	6253	
≥22	15	7	3	4	6	8	3	3	1	4	5	6	4	2	2	65	1638- 1	138	4150	4709	5133	
≥17	38	15	19	10	13	11	9	14	10	6	5	8	6	4	2	71	420- 2	241	3204	3342	4380	
≥11	87	42	33	21	20	20	17	20	12	6	13	4	4	4	3	25	234- 1	331	1978	2003	4359	
≥ 7	99	50	40	26	21	15	9	4	2	4	2		4	3	1	1	96- 1	281	918	924	4340	
≥ 4	94	38	21	11	3	2	2	1			1						72- 1	173	338	339	4333	

HOURS INTERVAL BETWEEN EVENTS

40 — 29.6N 165.0W

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																7	SEA- 7	7	2576	4381	4381	
≥48	1															9	SEA- 6	10	2438	4455	4460	
≥41	1									1						16	SEA- 7	18	3069	4847	4869	
≥34	8	1	4	1	2				1			1		1		27	SEA- 5	46	3219	5270	5358	
≥28	10	10	4	8	2	1	1	2	1	2	2	2	2	3	3	70	SEA- 4	104	4221	5966	6247	
≥22	31	17	20	17	7	10	12	9	4	3	12	3	1	3	5	59	SEA- 1	213	4088	4386	5172	
≥17	64	38	27	15	23	14	16	12	4	9	5	2	4	6	7	56	534- 1	300	2904	3034	4580	
≥11	75	64	43	37	29	19	18	9	3	4	2	3	7	1	4	11	174- 1	329	1484	1499	4376	
≥ 7	96	54	36	20	7	11	3	4	2	2		1					72- 1	236	596	597	4346	
≥ 4	65	27	11	4	2												30- 2	109	178	179	4336	

HOURS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED knots	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-	MAX	TE	T	T₀	TH
≥64																8	SEA- 8	8	2944	4390	4390	
≥48																9	SEA- 8	9	2981	4427	4428	
≥41																9	SEA- 8	9	2981	4427	4428	
≥34				1												14	SEA- 7	15	3358	4909	4919	
≥28	4	3	1		1	1	1				1	2	1	1		31	SEA- 6	48	4215	5729	5804	
≥22	10	7	6	2	1	4	2	2	4	1	2	1		2		78	1122- 1	122	3963	4368	4461	
≥17	45	17	18	13	13	12	14	12	11	3	8	8	8	7	6	75	678- 1	270	3521	3637	4436	
≥11	81	58	49	37	41	38	16	17	16	8	11	9	4	4	5	15	222- 1	409	2115	2140	4347	
≥ 7	119	70	64	27	32	12	5	3	2	6	1	1	1	1			90- 1	341	989	1002	4335	
≥ 4	101	53	18	9	6	2	2										42- 2	191	353	354	4334	

HOURS INTERVAL BETWEEN EVENTS

23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																11	SEA- 6	11	2858	5025	5036
≥48	4	2	1			1	1			1	1		2	2		1	48	SEA- 3	64	4498	5114	5241
≥41	18	8	6	4	3	3	5	1	3	5	8	3	3	1	3	66	1644- 1	140	4084	4289	4602
≥34	21	17	19	13	16	11	6	6	13	4	6	7	3	4	3	87	534- 1	236	3646	3734	4456
≥28	45	29	46	26	28	17	21	17	17	8	4	6	9	7	8	57	396- 1	345	3049	3084	4415
≥22	87	54	71	37	28	26	21	13	11	9	6	5	5	5	6	26	240- 1	410	2210	2220	4354
≥17	112	92	53	57	29	14	11	11	5	3	1	3	4	4	2	7	120- 2	408	1465	1471	4351
≥11	143	76	44	19	4	5	4	4	2	1	1	1					72- 1	304	664	666	4339
≥ 7	127	33	9	6	2	1	2										42- 2	180	274	275	4332
≥ 4	63	6	1														18- 1	70	78	78	4332

HOURS INTERVAL BETWEEN EVENTS

24 — 41.0N 134.9W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48	1						1									17	SEA- 8	19	3888	5509	5528
≥41	4		1			1	2	1			2				1	1	38	SEA- 6	51	4878	5984	6074
≥34	10	6	11	5	7	5	6	4	4	5	2	2	2	2	1	58	SEA- 3	130	4765	5591	5906
≥28	38	16	19	9	13	10	9	8	7	3	6	3	4	4	2	69	624- 1	220	3566	3766	4527
≥22	65	34	24	31	25	11	12	12	9	6	10	5	5	3	4	50	492- 1	306	2790	2867	4417
≥17	76	42	33	36	17	16	12	11	6	6	9	8	3	3	4	30	444- 1	312	1954	1977	4366
≥11	82	49	30	21	16	21	6	4	5	5	3	2		1	2	4	204- 1	251	931	933	4338
≥ 7	59	40	28	9	3	6	1	1	1	2			1			1	150- 1	152	392	394	4335
≥ 4	49	15	8	2	1	1	1										48- 1	77	130	131	4333

HOURS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																9	SEA- 8	9	2992	4438	4441
≥48	2			1	1	2		1							1	30	SEA- 3	38	3789	4699	4747
≥41	2	1	3	5	4				1	1	1	1	1	1	2	51	SEA- 1	73	3813	4390	4526
≥34	14	6	5	9	9	4	3	4	4	6	7	1	3	2	5	86	780- 1	168	3967	4139	4532
≥28	34	21	17	20	20	14	10	10	12	13	7	8	6	12	13	71	528- 1	288	3542	3608	4454
≥22	59	35	59	44	35	27	27	26	16	11	14	11	13	7	5	25	216- 1	414	2678	2730	4355
≥17	93	104	83	54	46	20	28	13	12	8	6	7	4	2	1	3	120- 1	484	1907	1915	4343
≥11	188	110	52	27	14	5	4	6		1	1	2					72- 2	410	893	897	4334
≥ 7	161	56	21	7	5		2										42- 2	252	403	403	4334
≥ 4	87	16	1	2													24- 2	106	130	130	4334

HOURS INTERVAL BETWEEN EVENTS

27 — 36.2N 127.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																9	SEA- 8	9	3011	4456	4458
≥41	1															18	SEA-10	19	4512	5426	5447
≥34	1		2		2	4	1		2	1	1			1		33	SEA- 8	48	5552	6480	6577
≥28	14	3	3	8	4	3	3	5	3	3		2	3	2	1	55	1644- 1	112	4627	4943	5245
≥22	19	12	9	10	9	6	4	4	5	2	6	8	7	4	4	75	780- 1	184	3623	3766	4535
≥17	43	16	21	16	23	7	20	13	15	10	7	6	3	3	4	60	630- 1	267	2801	2863	4378
≥11	91	53	33	32	21	18	9	8	11	5	7	5	3	4	5	15	174- 1	320	1546	1579	4338
≥ 7	74	50	44	22	8	7	10	2	3	1	3		1	1	1	2	120- 1	229	710	724	4333
≥ 4	76	35	7	6	1		3				1						78- 1	129	230	234	4333

HOURS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64		1														9	SEA- 8	10	3025	4471	4473
≥48	2	1						1	1					1		24	SEA- 6	30	3762	5537	5576
≥41	5	4	2	2		3	3	2			2	1	1		1	40	SEA- 7	66	4881	6238	6359
≥34	15	12	11	4	8	8	4	4	1	3	4	2	2	4	3	67	SEA- 2	152	4774	5770	6125
≥28	40	31	20	19	10	12	7	7	11	6	9	8	6	6	6	68	1872- 1	266	4048	4192	5060
≥22	73	46	28	29	27	24	15	15	14	5	7	6	6	3		52	756- 1	350	2872	2966	4636
≥17	81	76	46	29	27	25	14	12	12	5	7	3	2	3	2	27	468- 1	371	2049	2062	4519
≥11	90	68	53	19	21	9	9	3	3	2	3	1	2			4	120- 2	287	902	903	4354
≥ 7	104	42	24	10	3	4	1	2	1								60- 1	192	381	381	4342
≥ 4	69	18	3			1	1										42- 1	92	127	127	4338

HOURS INTERVAL BETWEEN EVENTS

30 — 35.7N 176.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																9	SEA- 8	9	3274	4720	4721
≥48							1			1	1					19	SEA- 8	22	4162	5185	5206
≥41		2	1	1	1	1	3	2	1		3		1	1	1	40	SEA- 6	58	4842	6032	6120
≥34	12	11	7	4	3	4	5	8	3	3	2	2	5	4	4	65	SEA- 2	142	4532	5726	6018
≥28	36	28	22	20	12	19	9	15	7	8	5	6	2	9	6	77	978- 1	281	3794	4033	4789
≥22	82	61	47	41	29	25	17	18	9	6	10	9	9	3	6	43	372- 1	415	2789	2801	4493
≥17	113	73	48	40	24	17	15	14	8	8	7	5	6	5	6	12	294- 1	401	1821	1826	4385
≥11	119	67	43	21	13	15	6	4	5	3			1	1			78- 1	298	795	797	4345
≥ 7	92	50	17	7	6	2	1				1						66- 1	176	331	333	4344
≥ 4	62	14	1	2													24- 2	79	101	102	4334

HOURS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48							1									11	SEA- 9	12	3649	4953	4960
≥41	4			1	1			1								23	SEA- 6	30	3970	5620	5662
≥34	12	7	3	4	7	2	2	1	1	2	3			2	1	46	SEA- 6	93	5343	6200	6406
≥28	25	16	14	11	8	9	3	7	3	3	4	2		4	1	64	SEA- 2	174	4845	5310	5869
≥22	45	19	20	20	14	10	8	7	6	6	6	3	7	10	4	63	816- 1	248	3371	3438	4681
≥17	47	44	37	22	25	15	11	17	8	6	13	6	5	4	6	38	402- 2	304	2432	2470	4493
≥11	73	48	31	23	21	13	9	9	7	4	5	2	3	2		11	150- 1	261	1147	1158	4344
≥ 7	134	56	19	10	3	1	2		1							2	108- 2	173	526	528	4334
≥ 4	56	22	9	8	3	3	1										42- 1	102	199	199	4333

HOURS INTERVAL BETWEEN EVENTS

33 — 34.6N 145.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48				1												10	SEA- 7	11	3015	4813	4818
≥41	3			1								1				15	SEA- 6	20	3204	5196	5217
≥34	6	1	3	1	1				1	1	1	1	1	1	1	42	SEA- 4	61	4402	5192	5294
≥28	11	6	4	4	2	3	3	8	4	2	7	2	7	1	3	75	1248- 1	142	4082	4358	4657
≥22	30	22	26	14	15	21	19	16	12	4	10	12	5	7	6	75	492- 1	296	3606	3649	4448
≥17	57	53	38	47	39	27	19	15	20	14	21	6	11	10	7	37	204- 1	421	2850	2890	4359
≥11	134	92	74	67	31	17	17	16	8	7	5	2	5			1	126- 1	476	1619	1625	4343
≥ 7	168	103	43	19	13	4	4	1	3	1							60- 1	359	741	742	4340
≥ 4	136	43	8	5	2												30- 2	194	276	276	4337

HOURS INTERVAL BETWEEN EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48						1										13	SEA- 8	14	3648	5192	5203
≥41				2	1	1			1		1	1				24	SEA- 6	31	3720	5414	5455
≥34	6	4	4	3	1	3	5	5	4	3	3	2	1		4	63	SEA- 3	111	4706	5466	5677
≥28	25	18	10	15	7	9	17	5	7	16	8	2	3	6	7	85	SEA- 1	240	4196	4582	5193
≥22	49	50	55	33	44	27	18	11	13	8	9	11	16	9	8	45	312- 1	406	2969	2976	4392
≥17	86	76	74	38	39	25	17	15	20	8	6	12	6	4	3	11	150- 1	440	2051	2057	4380
≥11	129	92	64	27	19	13	7	8	1	1	2	1					72- 1	360	948	949	4342
≥ 7	134	56	19	10	3	1	2		1								54- 1	226	387	387	4338
≥ 4	86	14	3	1													24- 1	104	127	127	4335

HOURS INTERVAL BETWEEN EVENTS

36 — 33.7N 123.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																8	SEA- 8	8	2944	4389	4389
≥41																14	SEA- 6	14	3668	5343	5353
≥34	4		1	1							1	1		2		37	SEA- 6	47	4676	6280	6361
≥28	8	3	2	1	2	1	4		1	1	5	4	2	1	3	69	SEA- 3	107	4659	5441	5730
≥22	27	8	11	9	12	6	7	12	7	9	9	10	4	7	4	90	420- 1	232	3515	3629	4489
≥17	45	29	24	14	21	28	17	22	15	17	13	7	13	6	10	44	210- 1	325	2675	2741	4403
≥11	82	52	42	29	36	18	18	14	14	13	6	2	2		1	8	180- 1	337	1501	1518	4364
≥ 7	101	51	28	29	20	5	6	4	4	2	1			1		1	144- 1	253	712	718	4338
≥ 4	91	37	14	14	3	4	2	2		1	1	1				1	120- 1	171	386	387	4336

HOURS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																9	SEA- 8	9	3239	4684	4685
≥41																13	SEA- 9	13	3850	5035	5042
≥34						1										24	SEA-11	25	5272	6005	6034
≥28	8		1	1	1		1	2	1	2						44	SEA- 4	62	4917	6123	6253
≥22	15	7	3	4	6	8	3	3	1	4	5	6	4	2	2	65	1638- 1	138	4150	4709	5133
≥17	38	15	19	10	13	11	9	14	10	6	5	8	6	4	2	71	420- 2	241	3204	3342	4380
≥11	87	42	33	21	20	20	17	20	12	6	13	4	4	4	3	25	234- 1	331	1978	2003	4359
≥ 7	99	50	40	26	21	15	9	4	2	4	2		4	3	1	1	96- 1	281	918	924	4340
≥ 4	94	38	21	11	3	2	2	1				1					72- 1	173	338	339	4333

HOURS INTERVAL BETWEEN EVENTS

39 — 29.9N 177.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																12	SEA- 8	12	3425	4878	4884
≥34	5	1	1	1		3	1	2	2	1		1	2	1	1	22	SEA- 5	44	3732	5565	5644
≥28	16	9	4	5	6	7	4	2	3	3	2	2	5	1	3	42	SEA- 3	114	4717	5683	5965
≥22	30	18	25	10	9	11	5	9	6	2	3	1	1	6	5	70	1572- 1	211	3920	4554	5333
≥17	70	35	19	27	20	19	14	12	6	6	7	11	6	8	3	52	702- 1	315	2900	3058	4574
≥11	96	63	52	35	26	20	13	6	10	16	6	3	4		3	9	216- 1	362	1567	1594	4363
≥ 7	117	73	49	25	11	6	3	2		2	2		2			1	102- 1	283	723	730	4341
≥ 4	113	20	9	5	4	1											36- 1	152	226	228	4339

HOURS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																9	SEA- 8	9	2981	4427	4428
≥41																9	SEA- 8	9	2981	4427	4428
≥34				1												14	SEA- 7	15	3358	4909	4914
≥28	4	3	1	1		1	1	1			1	2	1	1		31	SEA- 6	48	4215	5729	5804
≥22	10	7	6	2	1	4	2	2	4	1	2	1		2		78	1122- 1	122	3983	4368	4661
≥17	45	17	18	13	13	12	14	12	11	3	8	8	8	7	6	75	678- 1	270	3521	3637	4436
≥11	81	58	49	37	41	38	16	17	16	8	11	9	4	4	5	15	222- 1	409	2115	2140	4347
≥ 7	119	70	64	27	32	12	5	3	2	6	1	1	1	1	1		90- 1	341	989	1002	4335
≥ 4	101	53	18	9	6	2	2										42- 2	191	353	354	4334

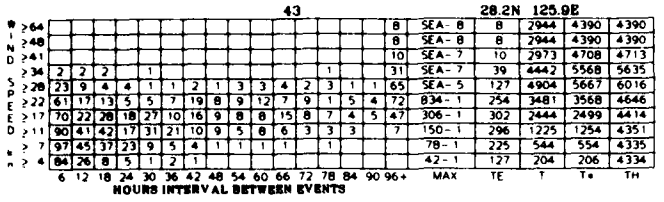
HOURS INTERVAL BETWEEN EVENTS

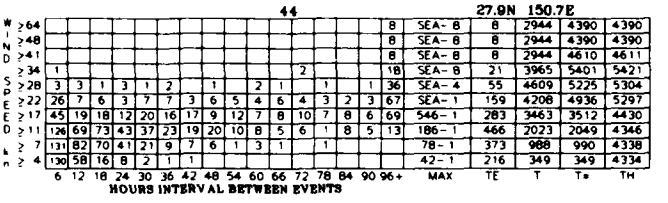
42 — 28.8N 139.2W

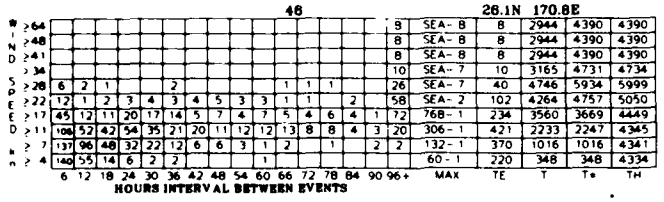
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																10	SEA- 8	10	3148	4593	4595
≥41																10	SEA- 8	10	3147	4592	4595
≥34			1		1		1									16	SEA- 9	19	4164	5580	5600
≥28	5	2	4			1	2				2	3	1	1		34	SEA- 6	55	5018	6383	6497
≥22	27	8	3	2	4	4	3	1	4	4	5	3	3	1	3	57	SEA- 2	132	4568	5040	5484
≥17	42	20	17	7	7	9	11	8	9	3	8	9	7	6	6	68	558- 1	237	3289	3448	4532
≥11	104	38	27	32	17	19	15	10	13	6	8	4	8	5	2	16	228- 1	324	1661	1708	4353
≥ 7	83	46	24	13	12	11	6	3	5	3	1			1	1	5	150- 1	214	707	711	4348
≥ 4	69	20	21	4	5	3	1	1	1	1							78- 1	127	278	278	4337

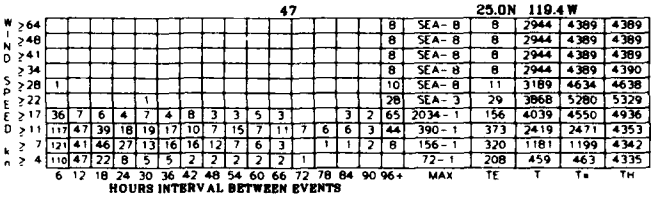
HOURS INTERVAL BETWEEN EVENTS

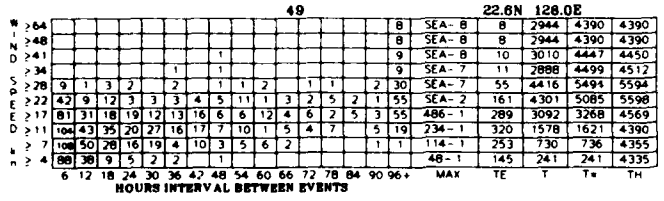
WINTER

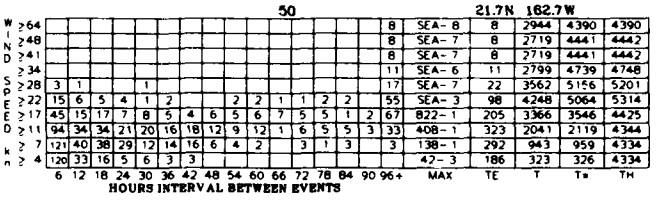

43
28.2N 125.9E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
10 SEA- 7 10 2973 4708 4713
31 SEA- 7 39 4442 5568 5635
65 SEA- 5 127 4904 5667 6016
72 834- 1 254 3481 3568 4646
47 306- 1 302 2444 2499 4414
7 150- 1 296 1225 1254 4351
78- 1 225 544 554 4335
42- 1 127 204 206 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

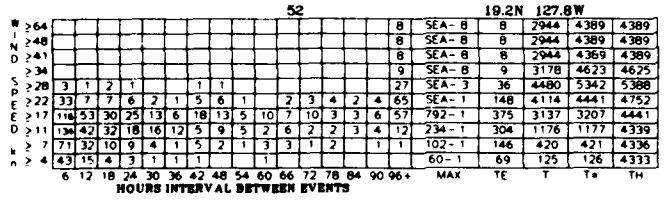

44
27.9N 150.7E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4610 4611
18 SEA- 8 21 3965 5401 5421
36 SEA- 4 55 4609 5225 5304
67 SEA- 1 159 4208 4936 5297
69 546- 1 283 3463 3512 4430
13 186- 1 466 2023 2049 4346
78- 1 373 988 990 4338
42- 1 216 349 349 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

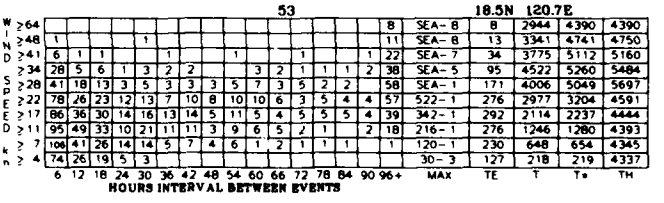

46
26.1N 170.8E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
10 SEA- 7 10 3165 4731 4734
26 SEA- 7 40 4746 5934 5999
58 SEA- 2 102 4264 4757 5050
72 768- 1 234 3560 3669 4449
20 306- 1 421 2233 2247 4345
7 132- 1 370 1016 1016 4341
60- 1 220 348 348 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

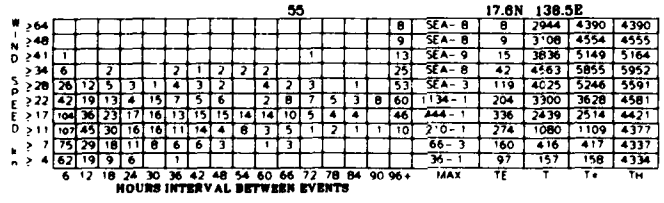

47
25.0N 119.4W
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4390
10 SEA- 8 11 3189 4634 4638
28 SEA- 3 29 3868 5280 5329
65 2034- 1 156 4039 4550 4936
44 390- 1 373 2419 2471 4353
8 156- 1 320 1181 1199 4342
72- 1 208 459 463 4335
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

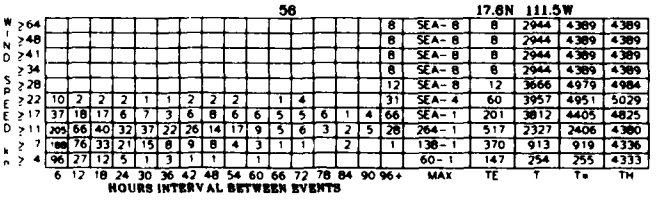

49
22.6N 126.0E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
9 SEA- 8 10 3010 4447 4450
9 SEA- 7 11 2888 4499 4512
30 SEA- 7 55 4416 5494 5594
55 SEA- 2 161 4301 5085 5598
55 486- 1 289 3092 3268 4569
19 234- 1 320 1578 1621 4390
1 114- 1 253 730 736 4355
48- 1 145 241 241 4335
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

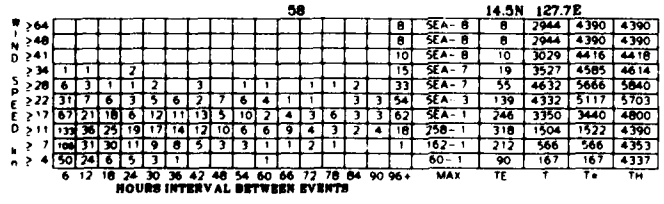

50
21.7N 162.7W
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 7 8 2719 4441 4442
8 SEA- 7 8 2719 4441 4442
11 SEA- 6 11 2799 4739 4748
17 SEA- 7 22 3562 5156 5201
55 SEA- 3 98 4248 5064 5314
67 822- 1 205 3366 3546 4425
33 408- 1 323 2041 2119 4344
3 138- 1 292 943 959 4334
42- 3 186 323 326 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

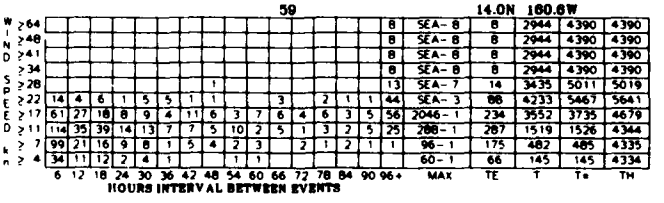

52
19.2N 127.8W
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4369 4389
9 SEA- 8 9 3178 4623 4625
27 SEA- 3 36 4480 5342 5388
65 SEA- 1 148 4114 4441 4752
57 792- 1 375 3137 3207 4441
12 234- 1 304 1176 1177 4339
1 102- 1 146 420 421 4336
60- 1 69 125 126 4333
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

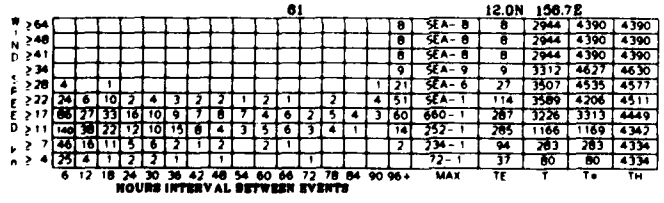

53
18.5N 120.7E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
11 SEA- 8 13 3341 4741 4750
22 SEA- 7 34 3775 5112 5160
38 SEA- 5 95 4522 5260 5484
58 SEA- 1 171 4006 5049 5697
57 522- 1 276 2977 3204 4591
39 342- 1 292 2114 2237 4444
18 216- 1 276 1246 1280 4393
1 120- 1 230 648 654 4345
30- 3 127 218 219 4337
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

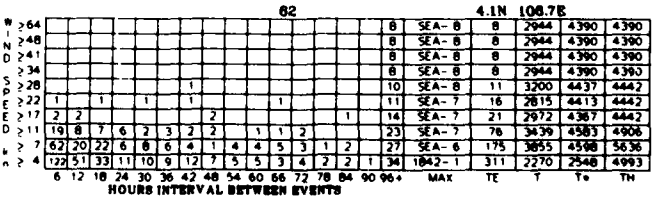

55
17.6N 138.5E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
9 SEA- 8 9 3'08 4554 4555
13 SEA- 9 15 3836 5149 5164
25 SEA- 8 42 4563 5855 5952
53 SEA- 3 119 4025 5246 5591
60 1134- 1 204 3300 3628 4581
46 444- 1 336 2439 2514 4421
10 2'0- 1 274 1080 1109 4377
66- 3 160 416 417 4337
36- 1 97 157 158 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS


56
17.6N 111.5W
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
8 SEA- 8 8 2944 4389 4389
12 SEA- 8 12 3666 4979 4984
31 SEA- 4 60 3957 4951 5029
66 SEA- 1 201 3812 4405 4825
28 264- 1 517 2327 2406 4380
1 138- 1 370 913 919 4336
60- 1 147 254 255 4333
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS


58
14.5N 127.7E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
10 SEA- 8 10 3029 4416 4418
15 SEA- 7 19 3527 4585 4614
33 SEA- 7 55 4632 5666 5840
54 SEA- 3 139 4332 5117 5703
62 SEA- 1 246 3350 3440 4800
18 758- 1 318 1504 1522 4390
1 162- 1 212 566 566 4353
60- 1 90 167 167 4337
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS


59
14.0N 160.8W
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
13 SEA- 7 14 3435 5011 5019
66 SEA- 3 88 4233 5467 5641
56 2046- 1 234 3552 3735 4679
25 288- 1 287 1519 1526 4344
96- 1 175 482 485 4335
60- 1 66 145 145 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS


61
12.0N 156.7E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
9 SEA- 9 9 3312 4627 4630
21 SEA- 6 27 3507 4535 4577
51 SEA- 1 114 3589 4206 4511
60 660- 1 287 3226 3313 4449
14 252- 1 285 1166 1169 4342
2 234- 1 94 283 283 4334
72- 1 37 80 80 4334
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS


62
4.1N 106.7E
WIND SPEED Kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
8 SEA- 8 8 2944 4390 4390
10 SEA- 8 11 3200 4437 4442
14 SEA- 7 16 2815 4413 4442
14 SEA- 7 21 2972 4387 4442
23 SEA- 7 78 3439 4583 4906
27 SEA- 6 175 3855 4598 5636
34 1842- 1 311 2270 2548 4993
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

44 — 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4610	4611
≥34	1										2					18	SEA- 8	21	3965	5401	5421
≥28	3	3	1	3	1	2		1		2	1		1		1	36	SEA- 4	55	4609	5225	5304
≥22	26	7	6	3	7	7	3	6	5	4	6	4	3	2	3	67	SEA- 1	159	4208	4936	5297
≥17	45	19	18	12	20	16	17	9	12	7	8	10	7	8	6	69	546- 1	283	3463	3512	4430
≥11	126	69	73	43	37	23	19	20	10	8	5	6	1	8	5	13	186- 1	466	2023	2049	4346
≥ 7	131	82	70	41	21	9	7	6	1	3	1		1				78- 1	373	988	990	4338
≥ 4	130	58	16	8	2	1	1										42- 1	216	349	349	4334

HOURS INTERVAL BETWEEN EVENTS

45 — 27.8N 145.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																8	SEA- 8	8	2944	4389	4389
≥41																9	SEA- 8	9	2999	4444	4445
≥34				1			2	1								20	SEA- 8	24	4128	5338	5374
≥28	8	3		3	1	2	2	1	1	1	2	1	1		1	36	SEA- 5	63	4237	5701	5844
≥22	28	12	8	9	2	3	5	3	3	4	4	6		1	3	60	SEA- 1	151	4234	4633	5127
≥17	65	24	16	17	22	14	10	7	10	9	3	6	8	3	6	61	810- 1	281	3178	3386	4629
≥11	95	49	34	36	21	18	12	9	8	4	5	3	6	1	1	17	168- 1	319	1454	1495	4349
≥ 7	98	42	21	13	9	10	4	3	4	3	1	3		2		1	114- 1	214	614	624	4337
≥ 4	70	28	10	4	4		1		1								54- 1	118	208	212	4334

HOURS INTERVAL BETWEEN EVENTS

47 — 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																8	SEA- 8	8	2944	4389	4389
≥41																8	SEA- 8	8	2944	4389	4389
≥34																8	SEA- 8	8	2944	4389	4390
≥28	1															10	SEA- 8	11	3189	4634	4638
≥22					1											28	SEA- 3	29	3868	5280	5329
≥17	36	7	6	4	7	4	8	3	3	5	3			3	2	65	2034- 1	156	4039	4550	4936
≥11	117	47	39	18	19	17	10	7	15	7	11	7	6	6	3	44	390- 1	373	2419	2471	4353
≥ 7	121	41	46	27	13	16	16	12	7	6	3		1	1	2	8	156- 1	320	1181	1199	4342
≥ 4	110	47	22	8	5	5	2	2	2	2	1						72- 1	208	459	463	4335

HOURS INTERVAL BETWEEN EVENTS

48 — 23.5N 151.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4390	4390
≥34																9	SEA- 8	9	2997	4443	4444
≥28	4	2		1												20	SEA- 5	27	3253	5166	5202
≥22	15	8	6	1	2	2	3	2		3	2	1	2		1	48	SEA- 1	96	4048	5036	5315
≥17	55	11	11	7	9	5	6	8	7	8	2	5	4	4		72	666- 1	214	3416	3585	4487
≥11	99	34	25	13	19	13	22	13	9	14	8	2	2	7	6	24	276- 1	310	1838	1864	4341
≥ 7	111	54	33	24	13	18	6	3	2	1	4		4				78- 4	273	777	785	4334
≥ 4	83	36	13	3	3	1	1		1								54- 1	141	243	250	4334

HOURS INTERVAL BETWEEN EVENTS

50 — 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 7	8	2719	4441	4442
≥41																8	SEA- 7	8	2719	4441	4442
≥34																11	SEA- 6	11	2799	4739	4748
≥28	3	1			1											17	SEA- 7	22	3562	5156	5201
≥22	15	6	5	4	1	2			2	2	1	1	2	2		55	SEA- 3	98	4248	5064	5314
≥17	45	15	17	7	8	5	4	6	5	6	7	5	5	1	2	67	822- 1	205	3366	3546	4425
≥11	94	34	34	21	20	16	18	12	9	12	1	6	5	5	3	33	408- 1	323	2041	2119	4344
≥ 7	121	40	38	29	12	14	16	6	4	2		3	1	3		3	138- 1	292	943	959	4334
≥ 4	120	33	16	5	6	3	3										42- 3	186	323	326	4334

HOURS INTERVAL BETWEEN EVENTS

51 — 20.5N 177.1W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4390	4390
≥34																8	SEA- 7	8	2855	4440	4442
≥28	3	2			1											14	SEA- 5	20	3006	4449	4480
≥22	9	3	3	1	4					1	1				1	42	SEA- 2	67	4061	4825	5014
≥17	23	14	11	7	2	4	7	4	2	5	4	3	6	4	3	75	1272- 1	174	3691	3896	4570
≥11	100	32	23	18	14	10	17	11	10	4	13	9	9	6	6	38	312- 1	320	2161	2185	4341
≥ 7	83	49	37	24	20	17	19	10	5	7	6	2	2	2			84- 2	283	1062	1067	4334
≥ 4	100	46	25	13	7	5		1									54- 1	197	393	393	4334

HOURS INTERVAL BETWEEN EVENTS

53 — 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48	1				1											11	SEA- 8	13	3341	4741	4750
≥41	6	1	1			1		1			1		1		1	22	SEA- 7	34	3775	5112	5160
≥34	28	5	6	1	3	2	2			3	2	1	1	1	2	38	SEA- 5	95	4522	5260	5484
≥28	41	18	13	3	5	3	3	3	5	7	3	5	2	2		58	SEA- 1	171	4006	5049	5697
≥22	78	26	23	12	13	7	10	8	10	10	6	3	5	4	4	57	522- 1	276	2977	3204	4591
≥17	86	36	30	14	16	13	14	5	11	5	4	5	5	5	4	39	342- 1	292	2114	2237	4444
≥11	95	49	33	10	21	11	11	3	9	6	5	2	1		2	18	216- 1	276	1246	1280	4393
≥ 7	108	41	26	14	14	5	7	4	6	1	2	1	1	1		1	120- 1	230	648	654	4345
≥ 4	74	26	19	5	3												30- 3	127	218	219	4337

HOURS INTERVAL BETWEEN EVENTS

54 — 18.2N 168.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																8	SEA- 8	8	2944	4389	4389
≥41																9	SEA- 9	9	3312	4836	4841
≥34	2															14	SEA- 7	16	3839	5412	5442
≥28	1	1	1		1	1		1	2			1			2	25	SEA- 4	36	4189	5562	5667
≥22	26	5	6	3	2	5			4	2	3	2	1	1	1	56	1092- 1	117	3635	4305	4702
≥17	70	21	12	6	4	7	13	7	6	4	2	3	4	4	3	69	912- 1	235	3198	3888	4402
≥11	109	42	21	20	18	18	16	9	12	8	4	12	6	4	7	28	258- 1	330	1923	1940	4337
≥ 7	107	40	38	18	21	12	10	4	3	3	1	1	1	1	1	5	126- 2	266	868	H76	4333
≥ 4	108	24	16	10	1	2	1	1		1							50- 1	162	284	285	4333

HOURS INTERVAL BETWEEN EVENTS

56 — 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4389	4389
≥48																8	SEA- 8	8	2944	4389	4389
≥41																8	SEA- 8	8	2944	4389	4389
≥34																8	SEA- 8	8	2944	4389	4389
≥28																12	SEA- 8	12	3666	4979	4984
≥22	10	2	2	2	1	1	2	2	2		1	4				31	SEA- 4	60	3957	4951	5029
≥17	37	18	17	6	7	3	6	8	6	6	5	5	6	1	4	66	SEA- 1	201	3812	4405	4825
≥11	205	66	40	32	37	22	26	14	17	9	5	6	3	2	5	28	264- 1	517	2327	2406	4380
≥ 7	188	76	33	21	15	8	9	8	4	3	1	1		2		1	138- 1	370	913	919	4336
≥ 4	96	27	12	5	1	3	1	1		1							60- 1	147	254	255	4333

HOURS INTERVAL BETWEEN EVENTS

57 — 14.9N 147.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48	1															10	SEA- 8	11	3219	4629	4632
≥41																10	SEA- 8	10	3216	4626	4633
≥34					1											13	SEA- 7	14	3558	5131	5122
≥28	10		4	1	3	1	1		1	2	2				1	41	SEA- 1	73	3849	4970	5075
≥22	67	16	12	9	11	4	10	3	1	3	1		6	2	3	64	966- 1	218	3759	4032	4555
≥17	122	30	40	16	19	16	14	9	15	10	6	9	3	7	7	52	492- 1	375	2918	3079	4428
≥11	192	39	44	18	20	11	11	6	9	5	5	1	3	2	1	8	192- 1	375	1207	1216	4342
≥ 7	113	17	21	15	8	6	1	2	4		1						66- 1	188	416	418	4337
≥ 4	73	4	9	2		1											36- 1	89	122	122	4334

HOURS INTERVAL BETWEEN EVENTS

59 — 14.0N 160.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4390	4390
≥34																8	SEA- 8	8	2944	4390	4390
≥28							1									13	SEA- 7	14	3435	5011	5019
≥22	14	4	6	1	5	5	1	1			3		2	1	1	44	SEA- 3	88	4233	5467	5641
≥17	61	27	18	8	9	4	11	6	3	7	6	4	6	3	5	56	2046- 1	234	3552	3735	4679
≥11	114	35	39	14	13	7	7	5	10	2	5	1	3	2	5	25	288- 1	287	1519	1526	4344
≥ 7	99	21	16	9	8	1	5	4	2	3		2	1	2	1	1	96- 1	175	482	485	4335
≥ 4	34	11	12	2	4	1			1	1							60- 1	66	145	145	4334

HOURS INTERVAL BETWEEN EVENTS

60 — 12.2N 112.6E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																9	SEA- 8	9	2988	4434	4435
≥34	6	2					1									14	SEA- 8	23	3469	4704	4737
≥28	6	1	1	1				1	1	1	2	2				20	SEA- 6	36	3527	5215	5346
≥22	25	12	7	3	2	5	4	2		3	1	3	1	5		39	SEA- 5	112	4096	5397	5883
≥17	77	27	12	11	9	9	11	5	5	2	5	6		2	2	46	SEA- 3	229	4380	5295	6499
≥11	121	48	28	11	7	11	8	4	9	5	6	2	2	2	1	32	546- 1	297	1913	1981	4539
≥ 7	110	44	32	17	10	10	8	8	3	2	1		2	2	3	4	252- 1	256	855	868	4398
≥ 4	85	25	13	9	5	4	1	1	1	1	1						66- 1	146	304	304	4352

HOURS INTERVAL BETWEEN EVENTS

62 — 4.1N 106.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4390	4390
≥34																8	SEA- 8	8	2944	4390	4390
≥28							1									10	SEA- 8	11	3200	4437	4442
≥22	1		1		1		1				1					11	SEA- 7	16	2815	4413	4442
≥17	2	2						2				1			1	14	SEA- 7	21	2972	4367	4442
≥11	19	8	7	6	2	3	2	2		1	1	2				23	SEA- 7	76	3439	4583	4906
≥ 7	62	20	22	6	8	6	4	1	4	4	5	3	1	2		27	SEA- 6	175	3855	4598	5636
≥ 4	122	51	33	11	10	9	12	7	5	5	3	4	2	2	1	34	1842- 1	311	2270	2548	4993

HOURS INTERVAL BETWEEN EVENTS

63 — 2.1N 123.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																8	SEA- 8	8	2944	4390	4390
≥48																8	SEA- 8	8	2944	4390	4390
≥41																8	SEA- 8	8	2944	4390	4390
≥34																8	SEA- 8	8	2944	4390	4390
≥28																8	SEA- 8	8	2944	4390	4390
≥22																8	SEA- 8	8	2944	4390	4390
≥17																8	SEA- 8	8	2944	4390	4390
≥11																9	SEA- 8	9	3109	4555	4556
≥ 7	6	3	2	2	2	1		1	2		1	3		1		27	SEA- 5	51	3081	4407	4473
≥ 4	218	49	58	11	13	6	10	3	5	2	8	3	1	1	1	25	1236- 1	418	2222	2291	4353

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS

1 — 64.0N 166.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																7	SEA- 6	7	2257	4264	4265
≥41																7	SEA- 6	7	2255	4260	4265
≥34	1									1		1		1	1	13	SEA- 7	17	3077	4488	4519
≥28	3	1	4		1	2	1		2	2		1	3	1	3	31	SEA- 5	55	3451	4990	5143
≥22	14	1	4	4	7	5	2	6	1	6	8	4	6	2	3	47	2148- 1	120	3889	4591	5114
≥17	18	16	10	12	14	13	9	10	6	7	11	5	3	2	2	56	936- 2	194	3285	3519	4650
≥11	32	25	23	30	17	8	15	12	4	9	2	4	7	3	3	40	372- 1	234	1997	2046	4382
≥ 7	46	43	35	23	14	17	10	5		4	5	3	3	5		11	210- 1	224	1089	1094	4322
≥ 4	67	45	25	10	7	8	3	2	3	1	1			1		1	102- 1	174	471	474	4246

HOURS INTERVAL BETWEEN EVENTS

2 — 59.4N 172.0W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48												1				7	SEA- 6	8	2265	4258	4265
≥41						1						1				10	SEA- 6	12	2524	4250	4266
≥34	4	1		1		2		2		1			1	3	1	23	SEA- 5	39	3308	4920	5000
≥28	4	2	2	2	2	3	5		3	3	3	5	1	4	2	44	SEA- 1	90	3739	5213	5469
≥22	12	9	6	9	9	5	6	7	6	3	8	3	3	3	4	58	2058- 1	151	3829	4410	5070
≥17	25	20	16	19	13	14	11	9	11	8	7	9	2	2	2	60	852- 1	228	3150	3281	4538
≥11	55	35	30	27	19	12	7	12	8	2	5	8	1	3	1	34	372- 1	259	1829	1880	4363
≥ 7	65	47	25	22	8	12	5	4	5	5	3	6	1	2	1	3	108- 1	214	808	824	4260
≥ 4	69	28	13	9	3	3	3	5	2			1					72- 1	136	324	325	4243

HOURS INTERVAL BETWEEN EVENTS

4 — 56.8N 174.8E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48		1						1		1						11	SEA- 6	14	2802	4711	4724
≥41	1	1				1	1	1		1	1					21	SEA- 7	28	3636	5071	5126
≥34	3	1	1	1	1	1	3	1	2		1	1		1	1	37	SEA- 1	55	4033	5529	5690
≥28	6	3	3	5	4	4	5	1	5		2	1	3	3		56	1728- 1	101	3861	4673	5053
≥22	14	8	12	8	9	8	10	2	5	2	6	9	3		6	62	1020- 1	164	3409	3814	4640
≥17	38	20	16	25	11	14	13	8	6	3	12	9	4	7	8	52	600- 1	246	2703	2834	4305
≥11	64	46	33	30	19	16	16	10	7	6	7	4	4	4	2	18	216- 1	286	1567	1639	4258
≥ 7	67	61	33	12	14	9	1	7	4	2	1	3		1	5		162- 1	220	744	783	4250
≥ 4	71	27	18	4	2	4	1	1	1	1	2			1			90- 1	133	300	303	4241

HOURS INTERVAL BETWEEN EVENTS

5 — 56.8N 141.9W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																8	SEA- 7	8	2702	4369	4373
≥41																10	SEA- 7	10	2802	4468	4480
≥34	2			2						1		1				23	SEA- 7	29	3645	5210	5266
≥28	4		1	1	2	1	1	4	2	3	2	3	2	1	1	41	SEA- 3	69	3620	5532	5747
≥22	10	9	5	5	7	4	11	5	5	5	6	4	2	1	6	61	1776- 1	146	4233	4712	5288
≥17	25	14	19	16	17	11	16	8	15	5	4	3	9	8	1	60	1086- 1	231	3278	3411	4525
≥11	53	39	38	28	20	18	17	15	8	6	7	11	7	2	3	31	330- 1	303	2154	2171	4339
≥ 7	73	59	38	24	23	19	8	11	9	5	2	1	2	1		4	144- 1	279	1070	1078	4266
≥ 4	87	44	21	13	4	3	2	2							1	1	114- 1	178	391	394	4253

HOURS INTERVAL BETWEEN EVENTS

7 — 53.4N 184.7E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																9	SEA- 6	9	2373	4359	4364
≥41						1	1	2								12	SEA- 6	16	2852	4553	4574
≥34	3	2		1		1		3			1				1	28	SEA- 6	40	3444	4932	5026
≥28	3	3	7	3	2	3	1	3	1	3	2	1	3	1	2	43	SEA- 6	81	4237	5350	5618
≥22	14	12	7	8	9	9	9	2	4	5	5	6	7	2	3	58	1446- 1	160	3739	4051	4720
≥17	32	26	26	15	18	11	11	9	9	9	4	3	6	5	4	53	762- 1	241	2977	3147	4436
≥11	60	40	34	26	18	17	12	6	13	9	7	6	2	2	3	27	258- 1	282	1770	1804	4249
≥ 7	79	44	33	34	13	10	9	2	7	4		2	1			7	180- 1	245	884	900	4245
≥ 4	90	42	12	12	6	3	2		1	2							60- 2	170	349	350	4241

HOURS INTERVAL BETWEEN EVENTS

8 — 52.0N 172.9E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48	2					1		1								13	SEA- 6	17	2986	4897	4920
≥41	1	1	2	1		2		1	1							25	SEA- 5	34	3854	5155	5225
≥34	6	4	1	3	4	4		3			1	1	1	3	3	42	SEA- 4	76	4270	5047	5240
≥28	11	9	7	11	7	3	2	6	3	2	2	2	2	4	5	59	SEA- 1	135	3984	4375	4834
≥22	32	25	21	16	12	13	9	11	5	5	4	5	6	4	1	60	1032- 1	229	3339	3533	4555
≥17	34	38	32	26	12	16	12	8	9	7	6	7	5	2	7	55	426- 1	276	2588	2633	4318
≥11	91	49	40	22	17	12	19	8	6	7	2	8	5	3	2	13	300- 1	304	1410	1422	4253
≥ 7	83	35	38	17	11	7	8		1	1	3	1		1	1	4	150- 1	211	656	666	4246
≥ 4	62	23	24	4	3		2	1		1				1			84- 1	121	257	259	4241

HOURS INTERVAL BETWEEN EVENTS

10 — 51.7N 135.6W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																8	SEA- 6	8	2321	4421	4425
≥41							1									17	SEA- 6	18	3192	4807	4831
≥34		2	4	2		1	2	2					2			34	SEA- 4	49	3785	5459	5561
≥28	11	7	5	3	2	2	4		1	3	5	1	4	2	5	54	SEA- 1	109	4603	5468	5789
≥22	29	23	11	16	10	5	12	8	11	5	13	5	10	5	3	62	1476- 1	228	3981	4228	5050
≥17	54	34	25	27	15	20	8	15	10	16	11	12	6	4	1	50	798- 1	308	2854	2946	4551
≥11	79	47	54	24	21	10	13	14	13	2	2	3	5	3	2	14	174- 1	306	1412	1439	4318
≥ 7	86	44	35	10	13	5	4	2	1	3	4		2	1		2	102- 1	212	614	617	4261
≥ 4	68	26	17	5	2	3	1			1							60- 1	123	234	238	4247

HOURS INTERVAL BETWEEN EVENTS

11 — 51.3N 158.8W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																13	SEA- 8	13	3399	4631	4648
≥41	4					1	2	1		3					1	30	SEA- 7	42	4084	5217	5301
≥34	4	3	7	1	2	3	5	2	4		1		4	5	45	SEA- 5	88	4794	5543	5782
≥28	17	16	11	14	9	6	6	4	7	6	4	2	5	4	3	65	1806- 1	179	4510	4757	5344
≥22	44	32	26	11	12	15	11	9	5	15	8	5	6	6	6	56	1722- 1	267	3434	3576	4820
≥17	50	50	30	28	22	22	14	16	15	11	3	1	6	7	2	34	570- 1	311	2394	2440	4529
≥11	91	49	40	22	17	12	19	8	6	7	2	8	5	3	2	13	138- 1	268	1044	1047	4261
≥ 7	81	34	27	20	5	3		4	2	1					1		90- 1	179	440	441	4249
≥ 4	70	25	3	2	3												30- 3	103	152	153	4241

HOURS INTERVAL BETWEEN EVENTS

13 — 50.3N 17 .3W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64						1		1			1	1	1	1	1	6	SEA- 6	7	2211	4264	4265
≥48					1						1	1	1	1	1	11	SEA- 5	17	2571	4554	4582
≥41	2	1			1	3				1	2		1			24	SEA- 4	35	3430	5120	5202
≥34	7	2	5	4	7	3	4		1	4	1	4		1	3	47	SEA- 1	93	4481	5504	5734
≥28	16	5	13	11	7	6	4	1	2	7	7	2		3	1	64	SEA- 1	149	4313	4510	5039
≥22	37	30	19	16	10	8	8	10	6	9	4	4	1	7	2	70	690- 1	241	3153	3310	4401
≥17	58	48	50	21	16	19	8	5	10	8	3	4	7	9	5	43	510- 1	314	2444	2468	4323
≥11	80	58	38	25	19	15	9	4	7	10	6	2	5	4	2	10	192- 1	294	1305	1314	4267
≥ 7	96	44	29	15	8	7	8	3	3	1	2		1	1	1		90- 1	219	594	600	4261
≥ 4	67	31	11	4	2	1	1			1	1						72- 1	119	224	226	4247

HOURS INTERVAL BETWEEN EVENTS

14 — 49.3N 174.1E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4264	4265
≥48	3					1	1	1	1						1	22	SEA- 6	30	3513	4938	4982
≥41	1	2		1		3		1			2		2	1		34	SEA- 4	48	3989	5091	5200
≥34	10	7	4	4	6	3		3	3		2	2	2	3	1	52	SEA- 3	102	4251	4880	5174
≥28	14	18	17	6	9	2	5	2	7	6	5	5	2	3	5	64	SEA- 1	170	4101	4350	4971
≥22	46	34	30	16	16	8	12	6	6	9	4	7	1	1	6	63	810- 1	265	3107	3230	4479
≥17	54	47	39	22	18	19	10	13	11	6	6	6	8	9	1	42	486- 1	311	2269	2297	4295
≥11	94	52	35	26	17	15	8	11	8	6	6	3	2		1	7	222- 1	291	1146	1157	4271
≥ 7	90	37	31	12	13	6	3	4	3		2		1				78- 1	202	521	523	4242
≥ 4	83	17	5	1	1	2											36- 2	109	153	154	4241

HOURS INTERVAL BETWEEN EVENTS

16 — 47.1N 161.2E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																8	SEA- 6	8	2330	4318	4320
≥48	1			2	1		2					1				15	SEA- 6	22	2807	4512	4536
≥41	3		2	3	1	2		1		1		3		1		33	SEA- 5	50	3467	5198	5294
≥34	4	16	3	8	5	3	3	5	2	3	4	1	2	3		49	SEA- 4	111	4378	5375	5649
≥28	18	17	18	28	8	9	7	3	4	4	7	4	2	4	6	64	1998- 1	203	4203	4641	5278
≥22	39	37	26	17	18	9	13	16	11	7	8	8	10	8	5	57	792- 1	291	3286	3352	4640
≥17	62	52	36	25	25	20	18	7	7	5	10	9	6	10	5	34	780- 1	331	2319	2337	4402
≥11	102	63	37	28	19	20	8	12	6	6	5	4	1	1	1	3	366- 1	316	1173	1183	4304
≥ 7	98	49	32	17	12	2	6	1	1								90- 1	220	519	522	4241
≥ 4	81	26	4	2	3		1										42- 1	117	175	177	4241

HOURS INTERVAL BETWEEN EVENTS

17 — 45.8N 139.3E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																8	SEA- 6	8	2350	4407	4409
≥41	1															14	SEA- 7	15	3137	4844	4859
≥34	1		1	1				1				1				28	SEA- 6	33	3633	5241	5312
≥28	6	3	4	1	1	3	2	1			3	2		1	2	46	SEA- 1	75	3671	5077	5280
≥22	18	10	12	9	8	3	6	5	6	7	6	7	5	1	5	70	1740- 1	178	4129	4575	5137
≥17	36	36	22	14	24	15	4	10	22	13	9	4	4	6	4	53	750- 1	276	3194	3373	4506
≥11	77	66	46	36	28	19	16	12	9	7	11	8	4	2		25	270- 1	366	1970	2007	4309
≥ 7	77	71	39	31	19	14	10	5	8	2	3	2	2	3		3	144- 1	336	1069	1073	4265
≥ 4	102	48	23	25	17	10	10	1	5	1	3	1	1		1	1	144- 1	249	742	746	4265

HOURS INTERVAL BETWEEN EVENTS

19 — 44.3N 177.7W

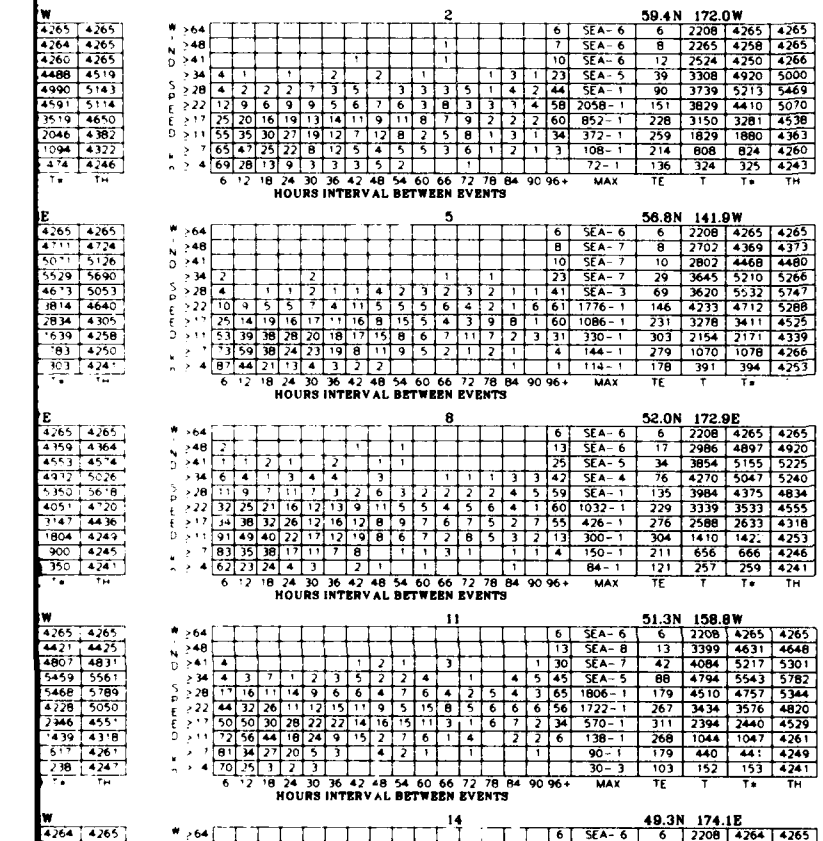
WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4268
≥48	1	2						2								17	SEA- 6	22	3096	4932	4970
≥41	3	2	1			1	1	2		3	1	1		2	2	29	SEA- 5	46	3468	4966	5073
≥34	8	5	8	3	5	9	3	3	5	3	4	2	1	2	2	49	SEA- 3	112	4870	5547	5842
≥28	22	16	16	20	5	5	9	7	6	1	6	6	2	4	2	74	1044- 1	201	3852	3960	4676
≥22	50	40	26	23	19	15	16	10	8	7	9	4	4	8	6	52	552- 1	297	2902	2974	4415
≥17	73	41	40	28	28	14	14	14	10	8	7	5	5	6	3	30	252- 1	326	2055	2089	4303
≥11	64	66	40	20	15	14	9	9	10	4	4	1	2		3	5	138- 1	266	1045	1048	4266
≥ 7	73	52	27	11	8	4	6	4	2	1	1						66- 1	189	479	480	4242
≥ 4	67	31	8	2	1												30- 1	109	166	167	4241

HOURS INTERVAL BETWEEN EVENTS

20 — 44.2N 152.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T_e	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48	1															10	SEA- 8	11	3052	4550	4557
≥41	3	1	2			1	1	1							1	21	SEA- 8	31	3875	5327	5374
≥34	4	3	1	3	1	1			4	2		4	3	3		39	SEA- 5	70	4827	5743	5931
≥28	12	9	6	6	8	3	8	9	2	3	5	9	6	4	3	65	SEA- 1	158	4635	5087	5588
≥22	40	24	27	22	12	11	17	8	10	9	8	3	6	2	4	61	1086- 1	264	3438	3484	4677
≥17	55	40	33	26	19	23	14	7	8	5	10	7	5	4	3	40	606- 1	299	2416	2431	4475
≥11	65	40	27	25	21	13	10	4	7	7	5	5	2		1	10	210- 1	242	1124	1128	4294
≥ 7	60	34	22	10	16	11	3	2		2	1		1			2	132- 1	164	500	502	4257
≥ 4	42	32	6	4	4		1	1		1		1					72- 1	92	197	199	4254

HOURS INTERVAL BETWEEN EVENTS


2
59.4N 172.0W
3
58.5N 151.6W
5
56.8N 141.9W
6
54.9N 167.1W
8
52.0N 172.9E
9
51.7N 158.8E
11
51.3N 158.8W
12
50.9N 145.6W
14
49.3N 174.1E
15
49.0N 128.4W
17
45.8N 139.3E
18
45.6N 144.2W
20
44.2N 152.7W
21
43.7N 128.7W
WIND DIRECTION
WIND SPEED knots
HOURS INTERVAL BETWEEN EVENTS
SEA- 6
SEA- 7
SEA- 8
SEA- 4
SEA- 5
SEA- 3
SEA- 2
SEA- 1
MAX
TE
T
Te
TH

22 42.8N 167.5W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																10	SEA- 7	10	2694	4487	4497
≥41								1				1				25	SEA- 7	27	3583	5377	5419
≥34	7	1	2	3	1	1	1	4	1	3	3					3	39	SEA- 6	69	4480	5501	5670
≥28	21	7	11	7	8	3	9	5	4	3	8	6	4	2	1	64	SEA- 1	163	4373	4722	5222
≥22	27	30	17	25	16	11	14	13	8	5	6	9	4	2	7	62	840- 1	256	3300	3387	4618
≥17	59	36	43	23	16	22	12	13	7	8	8	7	4	8	4	30	324- 1	300	2173	2207	4318
≥11	76	50	30	39	16	9	13	4	7	3	3	4	2		1	7	156- 1	264	1030	1037	4270
≥ 7	68	49	24	17	7	2	1	2	1	1	1	3					72- 3	176	442	444	4251
≥ 4	59	23	7	1	1	1	1		1	1							60- 1	95	167	168	4245

HOURS INTERVAL BETWEEN EVENTS

23 42.4N 172.1E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																7	SEA- 6	7	2238	4295	4297
≥48			1			1	1	1							1	13	SEA- 7	18	2871	4557	4584
≥41			2		1		2	1				1			2	24	SEA- 7	33	3793	5012	5075
≥34	4	2	3	6	1	3	2	3	1	2	3	1	2	3	3	49	SEA- 3	88	4467	5372	5585
≥28	14	10	15	8	7	9	3	6	4	9	4	3	3	3	4	67	SEA- 1	169	4318	4569	5085
≥22	30	33	32	16	17	11	11	8	15	7	6	8	4	8	4	67	798- 1	277	3242	3330	4493
≥17	52	55	33	27	28	15	18	17	12	13	11	8	6	10	4	36	228- 1	345	2437	2457	4361
≥11	83	71	38	35	20	21	15	10	8	4	4	3		1	3	4	126- 1	320	1221	1228	4273
≥ 7	90	64	38	15	10	2	2	2	1		2						66- 2	226	515	519	4241
≥ 4	76	31	5	4	1	1	1										42- 1	119	187	190	4241

HOURS INTERVAL BETWEEN EVENTS

25 40.2N 131.2E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41												1				6	SEA- 6	7	2220	4277	4280
≥34												1				8	SEA- 6	9	2341	4274	4281
≥28			1						1			1		1		23	SEA- 6	27	3459	4713	4747
≥22	5	4	2	5	1	1	1		1	1	1	2	4		2	46	SEA- 1	76	3692	4758	4947
≥17	16	13	17	8	7	5	7	4	4	1	2	6	3	3	2	68	882- 1	166	3541	4037	4549
≥11	74	54	37	33	15	26	10	8	12	14	9	9	9	5	8	40	450- 1	363	2693	2789	4312
≥ 7	120	111	49	33	18	16	15	8	9	9	7	3	3	1	2	16	264- 1	420	1693	1707	4257
≥ 4	124	83	41	34	12	12	15	9	4	5	3	2	2			14	264- 1	360	1339	1352	4257

HOURS INTERVAL BETWEEN EVENTS

26 39.5N 153.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																7	SEA- 6	7	2235	4292	4293
≥48		3					1									11	SEA- 7	15	2759	4382	4398
≥41	1	2		1		1	1									18	SEA- 7	24	3290	4743	4785
≥34	2	3	1	1		4	1		1			1	1			37	SEA- 6	52	3956	5636	5746
≥28	11	5	11	2	3	4	3	2	5	3	2	4	6	3	3	60	SEA- 3	127	4436	5506	5838
≥22	17	23	14	17	17	13	9	11	3	10	6	5	3	5	4	72	1554- 1	229	3773	3954	4735
≥17	42	52	41	29	20	18	14	14	7	14	7	8	5	3	4	58	456- 1	336	2826	2871	4343
≥11	101	74	56	34	27	18	12	7	11	7	5	1	7	6	1	13	174- 1	380	1605	1634	4276
≥ 7	124	86	34	19	16	7	7	2	3	2	1		1	2		1	126- 1	305	781	785	4246
≥ 4	111	44	12	4	3	2	1	1									48- 1	178	293	295	4245

HOURS INTERVAL BETWEEN EVENTS

28 36.1N 123.8W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2392	4449	4450
≥34	3	2							2						1	20	SEA- 6	28	3508	5379	5419
≥28	15	6	3	2	1		2	1	1	4	3	3			3	56	SEA- 1	100	4289	4920	5168
≥22	61	41	28	7	5	8	15	4	10	5	7	2	5	4	8	75	1002- 1	285	3205	3279	4382
≥17	77	60	44	6	9	20	9	8	7	13	6	2	5	9	7	30	528- 1	312	2026	2055	4278
≥11	70	42	22	12	15	10	4	6	8	3	2		2	2	1	5	156- 1	204	775	783	4243
≥ 7	54	31	9	7	4	6	2	1	1	1			1			1	96- 1	118	297	299	4241
≥ 4	34	13	9		1		2										42- 2	59	106	107	4241

HOURS INTERVAL BETWEEN EVENTS

29 35.9N 171.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																7	SEA- 6	7	2244	4262	4265
≥41							1									8	SEA- 6	9	2510	4517	4523
≥34	1	1				1		1								16	SEA- 6	20	3475	5397	5426
≥28	3			2	2		1			1					2	39	SEA- 5	50	4121	5565	5681
≥22	19	5	3	4	2	4	6	2	1	1	2	1	2	2	7	68	SEA- 1	129	4046	4588	4967
≥17	31	19	15	15	8	17	14	11	9	6	6	6	1	3	4	79	798- 1	244	3420	3772	4761
≥11	68	41	41	28	20	29	19	13	12	7	9	4	7	4	8	20	276- 1	330	1927	1954	4300
≥ 7	110	52	47	29	12	17	3	5	4	3		1	1	1	1	3	126- 1	289	868	879	4272
≥ 4	85	35	15	11	2	5	1		1								60- 1	155	301	303	4245

HOURS INTERVAL BETWEEN EVENTS

31 35.6N 155.2W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34							1									11	SEA- 8	12	3207	4811	4820
≥28	4			1	1	2	1						1			28	SEA- 7	38	4506	5841	5916
≥22	14	6	6	4	1	2	1		3	2		1	3	2	1	65	SEA- 2	111	4616	5631	5951
≥17	31	13	10	13	6	10	9	5	6	5	6	2	7	7	4	70	1872- 1	204	3795	4360	5225
≥11	66	28	30	25	13	28	16	19	10	6	12	5	8	5	3	32	684- 1	306	2182	2233	4382
≥ 7	85	49	46	33	23	18	10	5	4	4	1	1	1	3		5	126- 1	288	1034	1037	4260
≥ 4	92	47	27	6	9	2	3	1					1				78- 1	188	390	391	4253

HOURS INTERVAL BETWEEN EVENTS

32 35.4N 142.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2230	4264	4265
≥34	1															9	SEA- 6	10	2267	4255	4265
≥28				1						1	1		1			16	SEA- 9	20	4215	5496	5539
≥22	5	1	2	1	2		1	4			3		1		1	47	SEA- 4	68	4523	5400	5596
≥17	16	7	4	1	3	4	4	4	2	3	3	2	4	3	3	70	SEA- 1	134	3984	4809	5374
≥11	46	28	11	17	18	7	9	14	11	8	15	7	7	6	4	52	414- 1	260	2666	2780	4421
≥ 7	75	34	37	30	23	18	11	9	7	8	7	4	7	3	2	15	192- 1	290	1490	1535	4299
≥ 4	94	45	30	22	14	5	6	4	3	3					1		90- 1	227	608	635	4258

HOURS INTERVAL BETWEEN EVENTS

34 34.2N 155.1E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41				1			1									6	SEA- 6	8	2219	4271	4273
≥34	2	1				1									1	13	SEA- 6	18	2852	4462	4482
≥28	3	1	1	1		1		1		1			1		1	29	SEA- 5	40	3379	4606	4694
≥22	16	6	5	2	5	4	3	6	5	3	1	3	1	3	7	70	2088- 1	140	3804	4863	5237
≥17	39	21	16	7	19	10	16	16	15	16	8	6	6	7	6	65	1506- 1	273	3497	3590	4643
≥11	53	45	57	36	41	20	19	17	10	12	7	7	3	3	4	18	204- 1	352	1954	1973	4288
≥ 7	92	74	48	27	25	9	7	5	4	2	1	2	2		1	3	108- 2	302	944	946	4249
≥ 4	121	42	19	8	1	4		1	2		1						66- 1	199	360	362	4241

HOURS INTERVAL BETWEEN EVENTS

35 34.2N 183.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48									1							6	SEA- 6	7	2217	4274	4275
≥41							1								1	6	SEA- 6	8	2231	4288	4291
≥34	1		1				1							1		15	SEA- 7	19	3113	4668	4694
≥28	2	1			2	2	2	2		1	2			3	1	25	SEA- 1	43	3217	4932	5017
≥22	7	3	7	6	8	7	4	3	2	6	5	4	5	2	2	72	1920- 1	143	4267	4854	5224
≥17	32	23	20	18	18	18	9	5	10	11	8	13	6	7	3	71	846- 1	272	3416	3521	4559
≥11	63	47	60	27	32	32	17	15	13	9	7	1	5	8	2	18	210- 1	356	1920	1940	4295
≥ 7	99	57	57	29	14	18	5	4	3	2	3	1				2	138- 1	294	878	886	4252
≥ 4	117	41	18	7	1	1		1	1								54- 1	187	309	314	4242

HOURS INTERVAL BETWEEN EVENTS

37 32.9N 119.4W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																7	SEA- 7	7	2576	4330	4333
≥28	3	3	6		1	4	1			1					2	37	SEA- 5	58	4194	5290	5370
≥22	48	40	22	1	2	4	7		2	7	9	2	3	1	9	67	SEA- 1	224	3882	4689	5239
≥17	70	67	44	3	5	11	28	8	5	13	12	6	5	13	6	48	462- 1	344	2775	2800	4317
≥11	144	54	58	7	11	14	10	5	6	5	5	1	4	1	2	6	132- 1	333	1083	1087	4259
≥ 7	71	20	21	1	9	8	2	1			1			1			84- 1	135	318	319	4241
≥ 4	45	11	10	3	4	1	2										42- 2	76	149	150	4241

HOURS INTERVAL BETWEEN EVENTS

38 31.5N 127.7W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 5	6	2039	4399	4400
≥28																13	SEA- 6	13	2955	4868	4885
≥22	11	3	4	1	2		3		2	1	1		1	1	1	52	SEA- 2	83	4452	5415	5633
≥17	51	24	6	10	3	6	6	3	6	8	4	6	2	4	5	79	690- 1	225	3413	3608	4441
≥11	81	38	19	18	14	14	9	9	13	9	9	8	2	3	3	29	312- 1	278	1744	1760	4280
≥ 7	52	31	27	19	18	8	11	3	3	1	1	1	3	2	3	3	114- 1	180	711	713	4246
≥ 4	50	23	14	10	4	1	2	2	1		1			1			84- 1	109	268	269	4245

HOURS INTERVAL BETWEEN EVENTS

40 29.6N 165.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																7	SEA- 6	7	2243	4264	4265
≥28																8	SEA- 6	8	2306	4324	4333
≥22	10	1	1			2	1	1	1			1	1	1	1	28	SEA- 6	49	4158	5305	5409
≥17	31	12	4	7	2	3	2	2	2	3	5			3	2	59	SEA- 1	137	3776	4340	4831
≥11	80	30	19	18	11	12	10	14	8	9	6	5	2	7	5	52	438- 1	288	2403	2567	4307
≥ 7	90	39	31	31	23	20	12	12	8	5	4	2		1	3	9	150- 1	290	1223	1239	4243
≥ 4	94	43	25	16	11	4	1	3	2	1							60- 1	200	457	460	4241

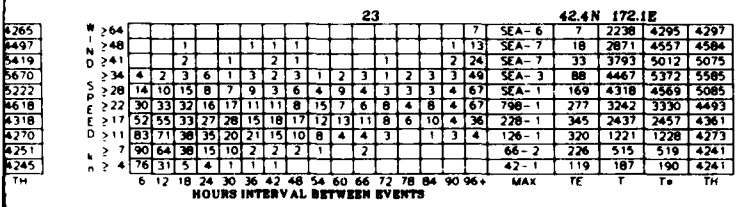
HOURS INTERVAL BETWEEN EVENTS

41 29.4N 134.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	Te	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2444	4501	4502
≥34																7	SEA- 4	7	2378	4584	4586
≥28	2					1						1		1		12	SEA- 4	17	3223	5107	5125
≥22	8	6		1	3	2	2		2		2		1		1	58	SEA- 1	84	3822	4532	4717
≥17	25	4	5	8	5	2	4	6	4	12	7	6	5	5	5	86	582- 1	189	3585	3733	4371
≥11	54	29	27	29	23	18	20	20	17	12	9	11	8	6	7	31	318- 1	328	2401	2456	4290
≥ 7	98	71	38	31	20	20	16	12	9	8	3	3	3	2		5	138- 1	339	1304	1314	4264
≥ 4	84	58	24	18	9	6	3	1	1	1		1					78- 1	206	486	489	4241

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)



23 — 42.4N 172.1E

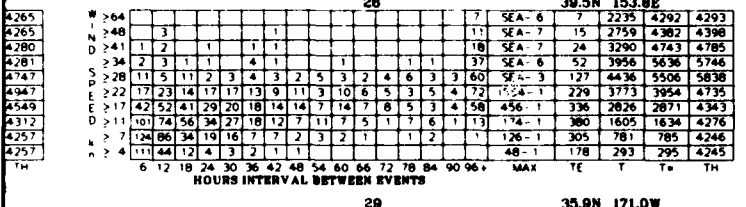
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																7	SEA- 6	7	2238	4295	4297
≥48				1			1	1	1							1	13	SEA- 7	18	2871	4557	4584
≥41			2		1		2	1				1				2	24	SEA- 7	33	3793	5012	5075
≥34	4	2	3	6	1	3	2	3	1	2	3	1	2	3	3	3	49	SEA- 3	88	4467	5372	5585
≥28	14	10	15	8	7	9	3	6	4	9	4	3	3	3	4	4	67	SEA- 1	169	4318	4569	5085
≥22	30	33	32	16	17	11	11	8	15	7	6	8	4	8	4	6	67	798- 1	277	3242	3330	4493
≥17	52	55	33	27	28	15	18	17	12	13	11	8	6	10	4	4	36	228- 1	345	2437	2457	4361
≥11	83	71	38	35	20	21	15	10	8	4	4	3		1	3	4		126- 1	320	1221	1228	4273
≥ 7	90	64	38	15	10	2	2	2	1		2							66- 2	226	515	519	4241
≥ 4	76	31	5	4	1	1	1											42- 1	119	187	190	4241

HOURS INTERVAL BETWEEN EVENTS

24 — 41.0N 134.9W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																8	SEA- 6	8	2436	4262	4265
≥34							1									13	SEA- 6	14	2751	4418	4439
≥28	4	4	1	1	1	1		1		1		2	1	1		39	SEA- 6	57	4310	5772	5889
≥22	12	8	2	5	8	4	8	5	3	4	3	2	1	2	4	61	SEA- 1	132	4084	4807	5239
≥17	41	22	21	14	14	11	8	7	6	6	2	6	3	8	4	60	1320- 1	233	3325	3499	4547
≥11	53	33	31	28	15	21	18	9	15	6	5	7	8	6	1	28	330- 1	284	1878	1948	4308
≥ 7	76	42	32	17	17	13	11	3	5	5	2	4	2	1		3	282- 1	233	882	906	4250
≥ 4	80	27	20	15	5	3	2	2	1	1							60- 1	156	346	353	4241

HOURS INTERVAL BETWEEN EVENTS



26 — 39.5N 153.9E

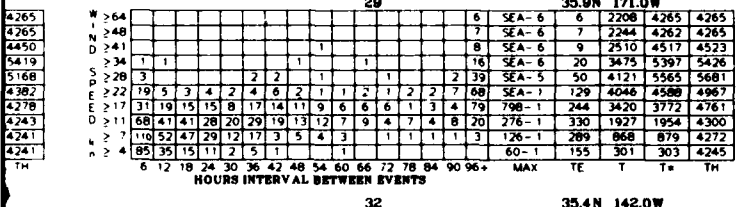
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																7	SEA- 6	7	2235	4292	4293
≥48		3						1								11	SEA- 7	15	2759	4382	4398
≥41	1	2		1		1	1									18	SEA- 7	24	3290	4743	4785
≥34	2	3	1	1		4	1			1			1	1		37	SEA- 6	52	3956	5636	5746
≥28	11	5	11	2	3	4	3	2	5	3	2	4	6	3	3	60	SEA- 3	127	4436	5506	5838
≥22	17	23	14	17	17	13	9	11	3	10	6	5	3	5	4	72	[illegible]- 1	229	3773	3954	4735
≥17	42	52	41	29	20	18	14	14	7	14	7	8	5	3	4	58	456- 1	336	2826	2871	4343
≥11	101	74	56	34	27	18	12	7	11	7	5	1	7	6	1	13	174- 1	380	1605	1634	4276
≥ 7	124	86	34	19	16	7	7	2	3	2	1		1	2		1	126- 1	305	781	785	4246
≥ 4	111	44	12	4	3	2	1	1									48- 1	178	293	295	4245

HOURS INTERVAL BETWEEN EVENTS

27 — 36.2N 127.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																7	SEA- 6	7	2225	4264	4265
≥41																7	SEA- 6	7	2224	4263	4265
≥34	1															8	SEA- 6	10	2383	4367	4374
≥28	5	3	2						1		3				3	1	35	SEA- 4	53	4230	5696	5832
≥22	24	12	2	3	4	3	7	4	2	3	3	5	3	4	2	75	1440- 1	156	3808	3998	4671
≥17	61	21	14	10	9	8	11	9	10	14	7	5	5	7	7	55	378- 1	253	2634	2671	4350
≥11	54	33	16	27	16	7	11	6	8	7	8	2	1	2	1	15	156- 1	214	1138	1143	4256
≥ 7	41	29	15	11	5	3	2	5	1	1	3	1			2	2	108- 1	121	414	416	4241
≥ 4	25	16	6	7	4	1		1						1	1		90- 1	62	166	167	4241

HOURS INTERVAL BETWEEN EVENTS



29 — 35.9N 171.0W

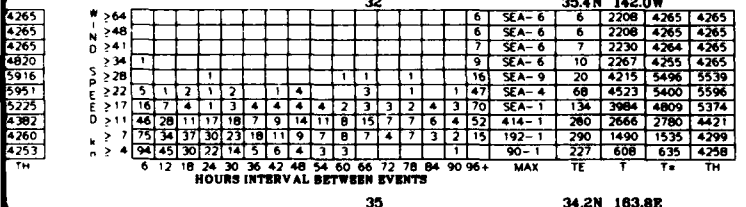
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																7	SEA- 6	7	2244	4262	4265
≥41							1									8	SEA- 6	9	2510	4517	4523
≥34	1	1						1			1					16	SEA- 6	20	3475	5397	5426
≥28	3				2	2			1			1			2	39	SEA- 5	50	4121	5565	5681
≥22	19	5	3	4	2	4	6	2	1	1	2	1	2	2	2	68	SEA- 1	129	4046	4588	4967
≥17	31	19	15	15	8	17	14	11	9	6	6	6	1	3	4	79	798- 1	244	3420	3772	4761
≥11	68	41	41	28	20	29	19	13	12	7	9	4	7	4	8	20	276- 1	330	1927	1954	4300
≥ 7	110	52	47	29	12	17	3	5	4	3		1	1	1	1	3	126- 1	289	868	879	4272
≥ 4	85	35	15	11	2	5	1			1							60- 1	155	301	303	4245

HOURS INTERVAL BETWEEN EVENTS

30 — 35.7N 176.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																7	SEA- 6	7	2239	4296	4297
≥41											1					8	SEA- 6	9	2517	4305	4312
≥34					1			1								12	SEA- 5	14	2754	4673	4694
≥28			1	3		2	1	2	3	1	2		1			35	SEA- 5	51	4481	5599	5693
≥22	9	7	9	6	4	6	5	2	3	2	3	6	2	2	4	69	SEA- 1	139	3940	5011	5403
≥17	42	19	14	14	14	15	13	11	9	11	7	11	7	6	4	69	1290- 1	266	3459	3512	4526
≥11	58	57	36	38	28	28	18	11	14	9	9	7	5	5	2	17	198- 1	342	1882	1897	4265
≥ 7	98	66	45	33	9	9	12	11	1	1	1	3	1	2	1		90- 1	293	890	895	4248
≥ 4	104	44	22	6	4	1	3					1					72- 1	185	341	344	4247

HOURS INTERVAL BETWEEN EVENTS



32 — 35.4N 142.0W

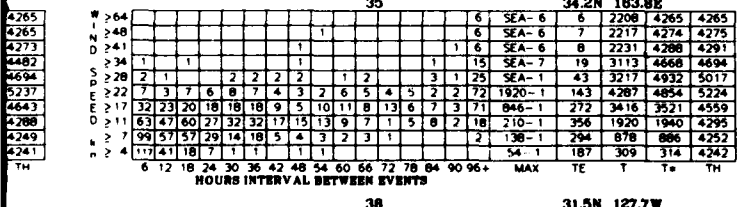
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2230	4264	4265
≥34	1															9	SEA- 6	10	2267	4255	4265
≥28				1						1	1		1			16	SEA- 9	20	4215	5496	5539
≥22	5	1	2	1	2		1	4			3		1		1	47	SEA- 4	68	4523	5400	5596
≥17	16	7	4	1	3	4	4	4	4	2	3	3	2	4	3	70	SEA- 1	134	3984	4809	5374
≥11	46	28	11	17	18	7	9	14	11	8	15	7	7	6	4	52	414- 1	280	2666	2780	4421
≥ 7	75	34	37	30	23	18	11	9	7	8	7	4	7	3	2	15	192- 1	290	1490	1535	4299
≥ 4	94	45	30	22	14	5	6	4	3	3				1			90- 1	227	608	635	4258

HOURS INTERVAL BETWEEN EVENTS

33 — 34.6N 145.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48			1													6	SEA- 6	7	2211	4264	4265
≥41			1													7	SEA- 6	8	2232	4263	4265
≥34		1		2											1	10	SEA- 5	[illegible]	2223	4467	4483
≥28	1	5		3						2				1	2	39	SEA- 4	53	4176	5527	5615
≥22	18	1	5	5	2	1	6	8	5	2	5	5	3	3	7	74	SEA- 1	150	4317	4980	5382
≥17	28	18	12	13	16	15	17	11	10	12	5	10	6	1	9	68	594- 1	251	3234	3318	4337
≥11	67	51	49	33	25	26	11	15	9	15	9	5	3	4	3	29	204- 1	354	2076	2104	4290
≥ 7	97	68	36	35	28	12	8	9	2	8		3	2			2	126- 1	330	1059	1066	4243
≥ 4	112	59	27	9		3		2		1		1					72- 1	214	403	408	4241

HOURS INTERVAL BETWEEN EVENTS



35 — 34.2N 183.8E

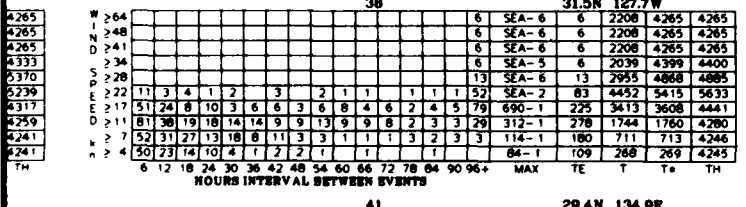
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48								1								6	SEA- 6	7	2217	4274	4275
≥41									1						1	6	SEA- 6	8	2231	4288	4291
≥34	1		1						1				1			15	SEA- 7	19	3113	4668	4694
≥28	2	1			2	2	2	2		1	2			3	1	25	SEA- 1	43	3217	4932	5017
≥22	7	3	7	6	8	7	4	3	2	6	5	4	5	2	2	72	1920- 1	143	4287	4854	5224
≥17	32	23	20	18	18	18	9	5	10	11	8	13	6	7	3	71	846- 1	272	3416	3521	4559
≥11	63	47	60	27	32	32	17	15	13	9	7	1	5	8	2	18	210- 1	356	1920	1940	4295
≥ 7	99	57	57	29	14	18	5	4	3	2	3	1				2	138- 1	294	878	886	4252
≥ 4	117	41	18	7	1	1		1	1								54- 1	187	309	314	4242

HOURS INTERVAL BETWEEN EVENTS

36 — 33.7N 123.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4264	4264
≥48												1				6	SEA- 6	7	2220	4263	4264
≥41												1				6	SEA- 6	7	2220	4262	4264
≥34								1				1				7	SEA- 7	9	2597	4361	4366
≥28	3				1			1	1	2	1					17	SEA- 6	26	2875	4723	4755
≥22	8	5	3		3	3		2	1	2	4		1	3	5	42	SEA- 1	82	3417	4776	4954
≥17	26	11	12	6	11	2	10	5	4	4	6	6	9	1	7	64	978- 1	184	3607	3978	4551
≥11	75	44	31	23	22	17	13	13	13	9	7	11	3	11	6	39	474- 1	337	2529	2628	4301
≥ 7	96	66	37	29	25	20	15	14	8	7		5	1	2	2	14	162- 1	341	1484	1528	4256
≥ 4	99	56	27	22	16	15	8	13	5	6	3	1	3	1	1	6	144- 1	282	1048	1076	4249

HOURS INTERVAL BETWEEN EVENTS



38 — 31.5N 127.7W

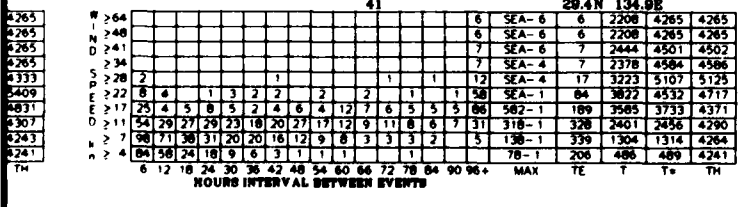
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 5	6	2039	4399	4400
≥28																13	SEA- 6	13	2955	4868	4885
≥22	11	3	4	1	2		3		2	1	1		1	1	1	52	SEA- 2	83	4452	5415	5633
≥17	51	24	8	10	3	6	6	3	6	8	4	6	2	4	5	79	690- 1	225	3413	3608	4441
≥11	81	38	19	18	14	14	9	9	13	9	9	8	2	3	3	29	312- 1	278	1744	1760	4280
≥ 7	52	31	27	13	18	8	11	3	3	1	1	1	3	2	3	3	114- 1	180	711	713	4246
≥ 4	50	23	14	10	4	1	2	1		1							84- 1	109	268	269	4245

HOURS INTERVAL BETWEEN EVENTS

39 — 29.9N 177.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48									1							6	SEA- 6	7	2216	4263	4265
≥41									1							6	SEA- 6	7	2216	4262	4265
≥34			2													7	SEA- 6	9	2249	4300	4309
≥28																11	SEA- 6	11	2911	5018	5046
≥22	9	1	1							1		1			1	34	SEA- 3	48	3888	5638	5759
≥17	18	8	4	5	1	2	4	3	4	2	4	1	1	3	2	82	1626- 1	124	3931	4508	4973
≥11	66	31	24	26	23	14	9	12	15	5	9	7	4	7	7	44	504- 1	303	2521	2678	4375
≥ 7	82	50	34	27	17	14	11	6	8	7	7	3	4	2	4	7	180- 1	283	1252	1295	4268
≥ 4	98	43	34	17	11	3	5	2	1								54- 1	209	467	476	4241

HOURS INTERVAL BETWEEN EVENTS



41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2444	4501	4502
≥34																7	SEA- 4	7	2378	4584	4586
≥28	2					1						1		1		12	SEA- 4	17	3223	5107	5125
≥22	8	4		1	3	2	2		2		2		1		1	58	SEA- 1	84	3822	4532	4717
≥17	25	4	5	8	5	2	4	6	4	12	7	6	5	5	5	86	582- 1	189	3585	3733	4371
≥11	54	29	27	29	23	18	20	27	17	12	9	11	8	6	7	31	318- 1	328	2401	2456	4290
≥ 7	98	71	38	31	20	20	16	12	9	8	3	3	3	2		5	138- 1	339	1304	1314	4264
≥ 4	84	58	24	18	9	6	3	1	1	1				1			78- 1	206	486	489	4241

HOURS INTERVAL BETWEEN EVENTS

42 — 28.6N 139.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28			1								2					7	SEA- 6	8	2287	4344	4349
≥22	3	1	2				1				1					20	SEA- 6	28	3271	4644	5002
≥17	27	9	2	1	6	4	2	3	2		2	1	2	3	5	63	1590- 1	132	3776	4344	4717
≥11	89	33	21	11	15	10	11	9	14	4	9	5	9	2	5	39	336- 1	286	2114	2313	4281
≥ 7	108	31	19	15	13	11	13	7	8	8	6	7	1		1	4	108- 1	232	943	956	4250
≥ 4	68	39	19	11	6	6	3	1	1								54- 1	154	351	352	4241

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

43 28.2N 125.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4264	4264
≥48																6	SEA- 6	6	2208	4264	4264
≥41																6	SEA- 6	6	2208	4264	4264
≥34													1			6	SEA- 6	7	2220	4262	4264
≥28	2										1		1			9	SEA- 5	13	2461	4256	4272
≥22	1		2			1	4			3			3		1	30	SEA- 2	45	3226	4517	4611
≥17	9	8	9	8		3	8	5	4	4	7	3	4	8	3	64	1260- 1	147	3456	3930	4384
≥11	70	44	35	28	14	19	24	16	10	8	10	10	4	7	7	45	234- 1	351	2519	2596	4280
≥ 7	108	70	53	30	24	17	13	10	8	7	5	4	2		2	6	126- 1	359	1330	1345	4254
≥ 4	137	68	24	14	10	9	7	3	3	3	1	1	1		1	1	102- 1	283	703	710	4252

HOURS INTERVAL BETWEEN EVENTS

44 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																7	SEA- 6	7	2255	4443	4445
≥28	1	1	1								1	1				13	SEA- 6	16	2710	4763	4784
≥22	4	3	3			1					1	1				30	SEA- 1	43	3417	5220	5311
≥17	16	12	7	2	3	4	2	3	5	3	2	2	1	3	2	62	1902- 1	129	4061	4590	4968
≥11	60	33	19	28	21	11	18	13	13	9	17	8	7	6	6	49	444- 1	316	2847	2902	4405
≥ 7	107	64	41	38	26	20	9	14	6	4	4	1	2		1	14	198- 1	351	1413	1443	4258
≥ 4	132	60	33	13	7	3	4	1	1							4	108- 1	258	567	571	4254

HOURS INTERVAL BETWEEN EVENTS

46 26.1N 170.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28	1		1													7	SEA- 5	9	2282	4337	4340
≥22	2	3	2	1	1		1							1		22	SEA- 5	33	3703	4813	4879
≥17	27	10	7	3	1	2	2		2	3		1	1			54	SEA- 1	113	3938	4572	4940
≥11	70	34	18	17	12	11	17	8	13	7	14	1	1	5	4	50	576- 1	282	2671	2832	4422
≥ 7	90	31	26	16	20	12	14	9	9	4	5	6	4	3	1	14	312- 1	264	1331	1365	4299
≥ 4	94	36	17	12	11	8	6	5	2	1			1	1	1		90- 1	195	520	531	4248

HOURS INTERVAL BETWEEN EVENTS

47 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28																6	SEA- 6	6	2208	4263	4265
≥22																23	SEA- 4	23	3526	5042	5068
≥17	29	15	9	8	2	1	2	2	1	3	5	1	2		1	68	2052- 1	149	4348	4575	4913
≥11	132	58	35	20	21	16	15	8	10	7	11	4	10	2	7	40	354- 1	396	2447	2463	4355
≥ 7	139	58	35	9	15	6	11	2	6	1	4	2	2	2	2	4	150- 1	294	898	901	4252
≥ 4	67	25	15	4	4	3	2	1			1						72- 1	122	251	252	4241

HOURS INTERVAL BETWEEN EVENTS

49 22.6N 128.0E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28	2	1							1							9	SEA- 6	13	2444	4313	4328
≥22	5	2		3			1			1				1		18	SEA- 2	31	2890	4726	4799
≥17	23	8	5	2	2	1	2	1	2	5	2			1	2	51	1374- 1	107	3299	4157	4479
≥11	94	22	25	18	14	22	11	16	11	13	6	9	5	3	7	54	414- 1	330	2780	2892	4323
≥ 7	170	70	53	27	14	13	11	12	5	2	5	3	2	4	2	6	132- 1	399	1279	1302	4247
≥ 4	121	46	13	6	7	4	3	2			1						66- 1	203	383	387	4241

HOURS INTERVAL BETWEEN EVENTS

50 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28	2	1	1		1											13	SEA- 7	18	2834	4578	4601
≥22	7	8	3	3	1		2	1		1				2	1	27	SEA- 4	56	3632	4772	4958
≥17	43	14	11	2	5	2	2	7	2	3	3	6	1	2	1	2	46	1428- 1	149	2881	3736	4380
≥11	97	40	32	17	15	10	6	9	2	6	6	3	4	2	3	40	522- 1	292	1991	2045	4277
≥ 7	109	30	28	17	15	7	8	3	2	2	3	2	4	3	3	3	102- 1	239	801	817	4245
≥ 4	86	17	19	10	6	4	2		2	1							60- 1	147	313	315	4244

HOURS INTERVAL BETWEEN EVENTS

52 19.2N 127.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41	1															7	SEA- 6	8	2334	4391	4394
≥34																8	SEA- 5	8	2377	4631	4639
≥28	2	2	1	1	1							1				22	SEA- 4	30	3671	5029	5068
≥22	12	11	7	6	3	1	1	3	2				1	1	1	50	SEA- 1	100	3462	4294	4546
≥17	81	27	26	17	13	13	15	7	10	6	10	3	6	3	7	64	2052- 1	308	3338	3472	4453
≥11	148	47	34	15	22	6	20	5	5	5	1	2	5	2	1	14	360- 1	332	1318	1326	4272
≥ 7	75	23	18	10	5	2	5		2		1		1	1		2	132- 1	145	381	382	4241
≥ 4	39	4	1			2	1			1	1						66- 1	49	90	91	4241

HOURS INTERVAL BETWEEN EVENTS

53 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																8	SEA- 6	8	2540	4575	4577
≥41	1															8	SEA- 6	9	2540	4703	4710
≥34	2					1						1		1		10	SEA- 4	15	2605	4892	4917
≥28	7	2	1		1	1	1			2		1			1	18	SEA- 2	35	3171	4880	4949
≥22	14	5	4	2	2		1		2		2	1		1	1	37	1386- 2	72	3045	4626	4828
≥17	47	23	13	6	7	6	2	3	3	2	2	3	2	4	4	60	1092- 1	187	3705	4053	4578
≥11	92	39	32	19	13	15	7	11	11	14	12	6	5	5	2	49	684- 1	332	2758	2859	4287
≥ 7	168	86	52	17	28	17	16	21	10	9	9	7	4	2	2	8	288- 1	456	1768	1812	4260
≥ 4	206	62	23	16	7	9	3	5	3	3	1	1	1	1		3	162- 1	344	790	800	4253

HOURS INTERVAL BETWEEN EVENTS

55 17.6N 138.5E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4264	4264
≥48																6	SEA- 6	6	2208	4264	4264
≥41																6	SEA- 5	6	2181	4398	4399
≥34		1											1			8	SEA- 5	10	2434	4492	4500
≥28	2			1		1			1				1	1		16	SEA- 3	23	2521	4786	4827
≥22	11	5	4	4	2	1	2	3	1		1	1				45	SEA- 2	80	3844	4679	4877
≥17	47	20	18	7	11	2	5	3	4	5	6	2	4	2	2	53	SEA- 1	191	3855	3948	4655
≥11	95	48	27	15	11	17	14	5	8	6	7	5	1	5	4	42	414- 1	310	2258	2297	4296
≥ 7	95	51	28	23	16	11	7	8	7	11	6	2	2	2	2	8	168- 1	279	1143	1157	4250
≥ 4	99	38	24	13	5	2	3		1			1		1		1	132- 1	188	414	417	4245

HOURS INTERVAL BETWEEN EVENTS

56 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4396	4397
≥34	2	1						1								8	SEA- 6	11	2517	4431	4438
≥28	1	1														9	SEA- 6	12	2582	4422	4438
≥22	1	2		1	1						1					20	SEA- 2	26	3184	4963	5020
≥17	8	10	4	2	5	2	1	3		3	3		2		2	58	1782- 1	103	3798	4535	4721
≥11	121	64	46	22	24	30	26	9	10	8	13	6	8	7	11	42	528- 1	447	3090	3144	4403
≥ 7	238	88	42	34	22	12	16	6	5	2	4	1	3	1	3	4	204- 1	482	1326	1333	4257
≥ 4	132	34	26	9	4	6	2	1									48- 1	214	392	393	4247

HOURS INTERVAL BETWEEN EVENTS

58 14.5N 127.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																7	SEA- 6	7	2248	4262	4265
≥34																8	SEA- 6	8	2339	4326	4332
≥28	2															12	SEA- 4	14	2747	4990	5007
≥22	5		2				1	3		1			1			21	SEA- 1	34	2888	4770	4842
≥17	17	5	3	4	1	4	3			1	1	2	1		2	40	SEA- 1	84	3587	4543	4776
≥11	78	39	26	11	18	10	18	6	3	11	14	4	5	4	6	55	720- 1	308	3224	3318	4383
≥ 7	156	72	66	35	20	19	20	9	12	7	4	4	4	4		19	210- 1	451	1833	1875	4263
≥ 4	174	69	37	15	9	11	3	4		1	1	2	1	2		2	120- 1	331	769	777	4250

HOURS INTERVAL BETWEEN EVENTS

59 14.0N 180.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34		1														8	SEA- 6	9	2430	4372	4377
≥28								1								11	SEA- 7	12	3286	5177	5193
≥22	8	2	1	2					2		4				1	23	SEA- 5	44	4293	5186	5307
≥17	37	19	14	4	9	7	6	2	4	5	6	1	2	5	5	61	1794- 1	187	3545	3806	4515
≥11	119	58	34	13	15	13	6	4	8	6	2	6	2		2	10	222- 1	298	1148	1156	4257
≥ 7	45	11	4	2	2	1	1	4	1	1		1				1	126- 1	74	194	196	4241
≥ 4	18	1	1	1	2		1										42- 1	24	44	46	4241

HOURS INTERVAL BETWEEN EVENTS

61 12.0N 156.7E

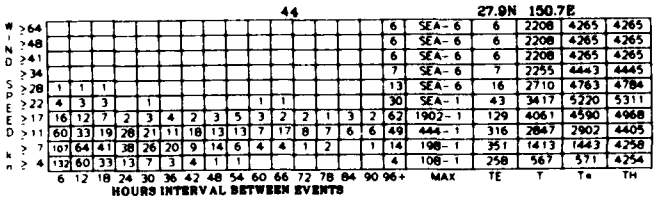
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																7	SEA- 6	7	2451	4264	4265
≥28	1		2											1		11	SEA- 6	15	2726	4484	4481
≥22	8	1	2	1	3	1	1		1	1	1				1	27	SEA- 7	49	3503	5031	5148
≥17	51	15	10	4	6	3	5	3	4	3	4	1	5	2	1	52	SEA- 2	175	4493	5061	5582
≥11	191	23	48	10	17	13	11	9	9	3	5	4	6	4	7	28	276- 1	388	1956	1972	4280
≥ 7	85	28	19	6	5	6	2	1	2	3			2		2	1	126- 1	162	430	432	4251
≥ 4	24	6	2	2													66- 1	35	61	63	4241

HOURS INTERVAL BETWEEN EVENTS

62 4.1N 108.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																6	SEA- 6	6	2208	4265	4265
≥48																6	SEA- 6	6	2208	4265	4265
≥41																6	SEA- 6	6	2208	4265	4265
≥34																6	SEA- 6	6	2208	4265	4265
≥28																6	SEA- 6	6	2208	4265	4265
≥22																6	SEA- 6	6	2208	4265	4265
≥17																6	SEA- 6	6	2208	4265	4265
≥11	1		2	1												13	SEA- 6	18	3034	4305	4329
≥ 7	5	7	5	2	4	2	2	1	1	1	2	1	1	2		31	SEA- 3	87	3230	4398	4518
≥ 4	51	25	24	18	4	4	6	2	3	7	8	1	1	3	5	44	1746- 1	264	3160	3787	4337

HOURS INTERVAL BETWEEN EVENTS



44 27.9N 150.7E

| WIND SPEED knots | 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ | | |

SUMMER

WIN

1 — 64.0N 166.7W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2208	4224	4224
≥48																																SEA- 5	7	2402	4418	4420
≥41																																SEA- 3	9	2300	4402	4418
≥34																																SEA- 2	17	2561	4144	4205
≥28																																SEA- 1	21	2940	3966	4182
≥22																																1710- 1	60	2904	3432	4129
≥17																																690- 1	135	2215	2292	4104
≥11																																474- 1	236	1216	1216	4103
≥ 7																																198- 1	248	624	624	4101
≥ 4																																84- 1	211			

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

2 — 59.4N 172.0W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2208	4224	4224
≥48																																SEA- 6	7	2226	4264	4268
≥41																																SEA- 5	7	2277	4315	4326
≥34																																SEA- 3	9	2616	4274	4307
≥28																																SEA- 2	15	1842- 1	4204	4245
≥22																																SEA- 1	32	1188- 1	3002	4202
≥17																																1710- 1	103	2159	3770	4182
≥11																																690- 1	173	2848	3203	4154
≥ 7																																474- 1	260	1858	1934	4102
≥ 4																																198- 1	227	921	945	4100
																																84- 1	142	374	375	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

4 — 58.9N 174.8E

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2208	4224	4224
≥48																																SEA- 5	10	2441	4350	4355
≥41	1																															SEA- 4	19	2746	4129	4172
≥34	2																															SEA- 2	44	1602- 2	3295	4066	4245
≥28	5	1	2	1		1		4				1		1																		SEA- 1	60	1056- 1	3265	3663	4171
≥22	10	2	5	3	3	5	7	2	2	2	8	3	1	2	2	56																492- 1	221	2743	2963	4139
≥17	31	15	13	14	16	8	15	8	8	5	5	8	1	6	3	65																186- 1	272	1587	1637	4111
≥11	52	32	40	22	25	18	17	6	9	8	6	8	4	4	4	17																138- 1	217	752	764	4106
≥ 7	62	45	31	25	20	9	6	5	4	3	1	1	1	1	1	2																72- 1	130	277	279	4100
≥ 4	64	28	20	9	5			3				1																								

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

5 — 56.8N 141.9W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2208	4224	4224
≥48																																SEA- 6	6	2208	4224	4224
≥41																																SEA- 4	9	2602	4315	4323
≥34	1																															SEA- 2	19	2654	4227	4266
≥28		1						2	1		2		2			3	21															SEA- 1	32	2748	4190	4288
≥22	6	5	4	3	4	2	3			2	4	1	1	4		4	46															1650- 1	89	3165	3890	4193
≥17	14	9	11	7	3	9	4	10	3	3	6	6	4	5	6	63																606- 1	163	3216	3400	4137
≥11	37	41	33	17	24	10	6	16	7	7	12	4	6	6	4	42																324- 1	272	2197	2268	4108
≥ 7	60	51	31	21	19	15	14	7	8	7	3	2	2		1	12																174- 1	253	1169	1204	4107
≥ 4	83	42	22	9	9	4	3	2	2	4	1		2			2																108- 1	185	505	509	4101

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

7 — 53.4N 164.7E

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	7	2508	4223	4224
≥48																																SEA- 6	8	2540	4222	4224
≥41																																SEA- 3	16	2697	4270	4292
≥34																																SEA- 1	27	2708	4165	4235
≥28	2				1				1								22															1206- 1	93	3289	3873	4176
≥22	11	3	2	1	3	2		3	4	2	3	1	1	1		3	53															1074- 1	181	3063	3316	4142
≥17	24	19	7	8	5	7	10	6	9	3	4	5	2		3	69																240- 1	276	2027	2124	4116
≥11	48	27	37	17	16	19	19	8	13	9	7	7	8	4	5	32																162- 1	267	1092	1103	4107
≥ 7	68	49	39	26	19	14	13	9	7	6	6	3	1	3	2	2																108- 1	173	464	470	4103
≥ 4	67	45	23	12	11	3	4	2	1	1	1	1	1			1																				

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

8 — 52.0N 172.9E

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	7	2390	4392	4393
≥48																																SEA- 4	14	2655	4372	4388
≥41			1		1																											SEA- 1	30	3179	4189	4259
≥34	2	1	1		1		1		2		1		1		1	20																1410- 1	78	3467	3975	4194
≥28	8	5			2	3		4		2	2	1		1		50																714- 1	152	3251	3574	4167
≥22	14	7	7	8	10	6	7	6	4	4	2	2	2	2	1	70																336- 2	258	2789	2908	4159
≥17	38	24	20	20	14	11	12	13	9	7	12	5	4	8	4	57																174- 1	316	1552	1584	4111
≥11	72	50	37	27	25	29	16	9	9	8	6	9	3	2	4	10																90- 2	229	671	681	4105
≥ 7	83	51	31	18	14	13	6	5	4		1			1	2																	42- 1	129	244	250	4100
≥ 4	63	39	13	9	3	1	1																													

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

10 — 51.7N 135.6W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	7	2500	4223	4224
≥48																																SEA- 5	9	2545	4278	4283
≥41				1	1	1	1			1		1		1																		SEA- 1	25	2650	4317	4354
≥34																																SEA- 3	16	2697	4270	4292
≥28	2	3	1	1	2	3	2		2		1		1	2		2	32															2064- 1	54	3048	4229	4352
≥22	10	6	7	5	5	5	4	3	6	1	1	3	2			3	51															1158- 1	115	3022	3776	4189
≥17	26	19	10	10	8	6	15	4	6	4	6	4	2	1	5	68																678- 1	194	2965	3205	4153
≥11	80	36	20	25	14	11	13	15	11	6	6	7	2	3	2	31																312- 1	280	1796	1881	4114
≥ 7	69	45	27	26	13	11	8	7	4	2	4	3	3	1		5																144- 1	228	867	884	4102
≥ 4	53	24	14	9	9	3	1	1	2				1																			78- 1	117	288	298	4101

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

11 — 51.3N 158.8W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2191	4266	4268
≥48																																SEA- 5	11	2472	4217	4237
≥41	1								1																							SEA- 2	14	2472	4217	4237
≥34	5	1	1			1		1	2																							SEA- 1	29	2650	4317	4354
≥28	13	2	6	6	2	2	1	2	5	1	4	3	2	2	3	51																1506- 1	105	3380	3939	4229
≥22	23	18	13	7	10	6	8	7	5	6	6	5	3	2	7	62																1098- 1	188	3129	3305	4115
≥17	53	20	25	24	9	12	16	10	11	11	9	7	9	2	5	45																552- 1	268	2378	2505	4108
≥11	55	32	34	35	15	24	8	11	5	6	7	2	1	3	2	9																144- 1	249	1192	1247	4102
≥ 7	78	37	26	20	6	7	4	1	3	1	3		1			2																120- 1	191	544	553	4101
≥ 4	51	23	8	7			1			1																						72- 1	91	169	173	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

13 — 50.3N 171.3W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	10	2299	4160	4166
≥48																																SEA- 5	13	2352	4260	4279
≥41	1				1			1																								SEA- 2	28	1734- 1	4199	4289
≥34	5			2		1		1		2	1	2																				SEA- 1	43	2986	4199	4289
≥28	8	7	4	3	2	3	3	2	6	4	4	2		4	2	45																1524- 1	99	3178	3875	4173
≥22	22	8	8	5	6	12	6	2	4	4	4	6	7	4	8	68																1356- 1	174	3107	3349	4140
≥17	38	25	25	26	18	12	11	12	9	9	8	10	6	5	4	52																336- 1	271	2447	2586	4128
≥11	47	56	42	24	23	15	14	10	6	4	6	5	2	3	5	9																174- 1	275	1312	1343	4107
≥ 7	72	42	28	19	10	7	7	4	1	5	1	1		1		1																126- 1	199	606	616	4102
≥ 4	60	31	14	5		3	2		1	2																						60- 2	118	245	245	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

14 — 49.3N 174.1E

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	8	2436	4391	4394
≥48																																SEA- 6	14	2758	4412	4441
≥41		1							1																							SEA- 1	16	2758	4412	4441
≥34	1	2	1	2	1	1	1	1		2		2																				SEA- 1	44	2959	4185	4282
≥28	13	5	6	4	1	1	1	4	3	4	5	2	1	2		54																1776- 1	106	3392	3898	4208
≥22	25	20	7	9	8	8	6	2	6	2	4	1	2		2	80																1200- 1	182	3167	3407	4153
≥17	52	22	24	24	11	14	13	5	5	14	5	3	11	13	4	54																558- 1	274	2575	2700	4135
≥11	82	56	35	33	21	16	10	10	9	12	3	3	7	2		9																342- 1	308	1355	1419	4104
≥ 7	80	47	29	23	8	7	5	2	7	1	1		1			1																156- 1	212	600	615	4100
≥ 4	69	35	9	3	1	2	1				1																					102- 1	121	213	223	4100
																																66- 1				

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

16 — 47.1N 161.2E

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	7	2144	4289	4293
≥48																																SEA- 4	12	2526	4182	4196
≥41		1																														SEA- 2	13	2526	4182	4196
≥34	3	1			1																											SEA- 1	21	2136- 1	4215	4267
≥28	6	5	2	1	2	1	1	1	2	2	1																					1458- 1	71	3202	4112	4289
≥22	20	5	8	9	2	7	2	4	3	3	2	4	2	2	2	69																768- 1	144	3306	3636	4158
≥17	27	17	31	10	8	15	13	6	11	7	5	3	11	8	8	64																672- 1	244	2890	3046	4148
≥11	74	58	42	32	32	25	22	7	7	10	3	2	9	3	3	14																336- 1	343	1713	1757	4108
≥ 7	86	53	43	27	15	12	4	4	3	1	1	1	1			3																96- 3	264	767	779	4106
≥ 4	92	35	13	5	2	2	3	1																								48- 1	153	272	277	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

17 — 45.8N 139.3E

WIND	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	SEA- 6	6	2208	4223	4223
≥64																																SEA- 6	6	2152	4249	4251
≥48																																SEA- 5	6	2152	4247	4251
≥41																																SEA- 5	6	2152	4247	4251
≥34	1										1		1																			SEA- 2	13	2720	4724	4745
≥28																																SEA- 1	24	2154- 1	26	3076	4518	4584
≥22	5	1	3	1		1	1		2	2	1	1	4	1	2	43																1536- 1	88	3428	4112	4296
≥17	18	5	6	7	7	6	3	3	6	4	5	4	2	3	2	75																774- 1	154	3340	3638	4167
≥11	43	37	20	25	17	19	16	14	12	13	3	8	4	1	5	57																276- 1	294	2585	2620	4121
≥ 7	72	48	45	35	20	20	14	13	15	14	5	1	4	4	2	16																192- 1	328	1644	1667	4112
≥ 4	78	50	48	24	15	24	11	9	13	10	4		4	2	2	15																192- 1	309	1439	1461	4109

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

19 — 44.3N 177.7W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	6	2208	4224	4224
≥48																																SEA- 6	6	2208	4224	4224
≥41	1					1																										SEA- 3	10	2312	4319	4327
≥34	1				1		1	1		1																						SEA- 1	31	2674	4283	4345
≥28	14	2	4	5	2	3	4	2	2	2	3	2	2	1		52																1230- 1	100	3112	4015	4288
≥22	29	12	9	10	8	5	9	3	11	10	8	5	5	5	2	71																498- 1	205	2904	3362	4155
≥17	52	33	22	22	10	6	18	12	14	8	7	9	6	11	3	51																258- 1	284	2422	2576	4145
≥11	67	33	39	22	24	17	18	14	7	9	4	4	7	4	2	9																168- 1	268	1374	1395	4109
≥ 7	75	44	40	22	10	8	5	6	5		1		1		1																	90- 1	218	636	648	4106
≥ 4	68	30	10	3	2	1	3	2	2																							54- 2	119	239	239	4100

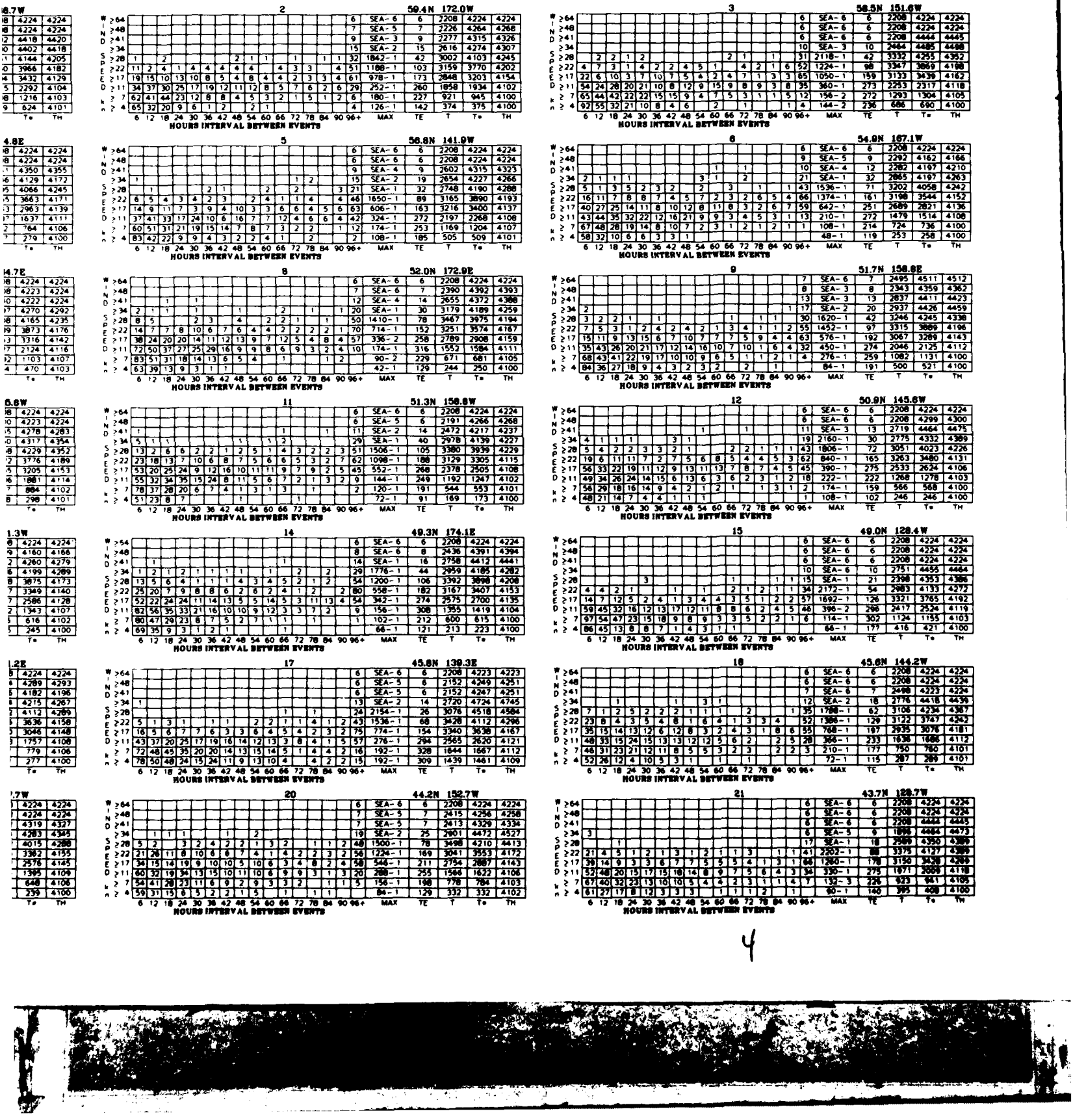
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

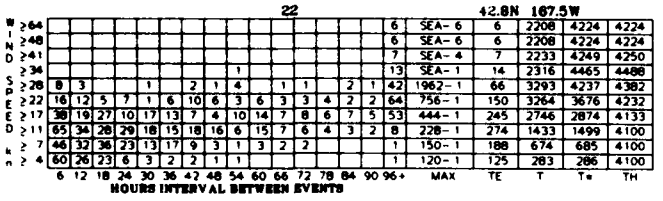
20 — 44.2N 152.7W

WIND	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	SEA- 6	6	2208	4224	4224
≥64																																SEA- 6	7	2415	4256	4258
≥48																																SEA- 5	7	2415	4329	4334
≥41									

WIND SPEED INTERVALS



WIND SPEED INTERVALS (Cont'd)



22 42.8N 167.5W

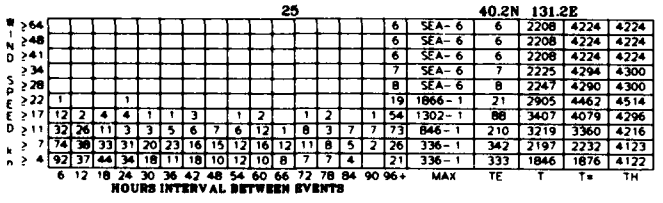
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				7	SEA- 4	7	2233	4249	4250
≥34	1			13	SEA- 1	14	2316	4465	4488
≥28	8 3 1 2 1 4 1 1 2 1			42	1962- 1	66	3293	4237	4382
≥22	16 12 5 7 1 6 10 6 3 6 3 3 4 2 2			64	756- 1	150	3264	3676	4232
≥17	38 19 27 10 17 13 7 4 10 14 7 8 6 7 5			53	444- 1	245	2746	2874	4133
≥11	65 34 28 29 18 15 18 16 6 15 7 6 4 3 2			8	228- 1	274	1433	1499	4100
≥ 7	46 32 36 23 13 17 9 3 1 3 2 2			1	150- 1	188	674	685	4100
≥ 4	60 26 23 6 3 2 2 1 1			1	120- 1	125	283	286	4100

HOURS INTERVAL BETWEEN EVENTS

23 42.4N 172.1E

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	7	2220	4223	4224
≥48				6	SEA- 6	7	2220	4220	4224
≥41				8	SEA- 5	9	2500	4455	4464
≥34	2			16	SEA- 1	19	2543	4376	4408
≥28	5 1 1 1 1 1 1 3 1			43	1740- 1	59	3216	4159	4296
≥22	20 8 11 6 4 3 3 4 5 3 4 3 6 4 5			65	732- 1	154	3197	3722	4230
≥17	32 14 15 14 19 12 17 8 5 5 6 4 9 5 4			64	414- 1	233	2807	3012	4166
≥11	74 41 39 31 23 21 14 7 10 7 6 6 10 6 3			14	198- 1	312	1643	1722	4108
≥ 7	96 55 37 25 15 15 5 4 2 4 1 2 1 2			1	174- 1	264	806	820	4102
≥ 4	99 40 13 9 3 3 2 1 1				54- 1	171	318	324	4100

HOURS INTERVAL BETWEEN EVENTS



25 40.2N 131.2E

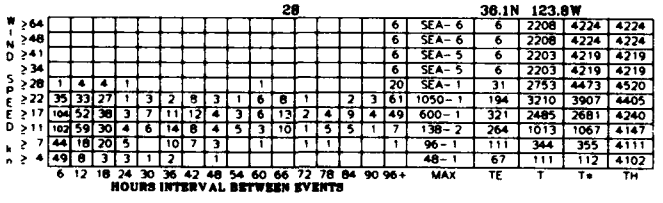
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				7	SEA- 6	7	2225	4294	4300
≥28				8	SEA- 6	8	2247	4290	4300
≥22	1 1			19	1866- 1	21	2905	4462	4514
≥17	12 2 4 4 1 1 3 1 2 1 2 1			54	1302- 1	88	3407	4079	4296
≥11	32 26 11 3 3 5 6 7 6 12 1 8 3 7 7			73	846- 1	210	3219	3360	4216
≥ 7	74 38 33 31 20 23 16 15 12 16 12 11 8 5 2			26	336- 1	342	2197	2232	4123
≥ 4	92 37 44 34 18 11 18 10 12 10 8 7 7 4			21	336- 1	333	1846	1876	4122

HOURS INTERVAL BETWEEN EVENTS

26 39.5N 153.8E

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				8	SEA- 6	8	2743	4754	4756
≥41				9	SEA- 5	9	2988	4702	4707
≥34				12	SEA- 2	12	2597	4361	4380
≥28	2 1 1 1 1 3			21	SEA- 1	26	2871	4352	4408
≥22	11 3 6 2 1 1 1 3 5 2 1 2			49	1356- 1	87	3146	4061	4258
≥17	28 8 10 10 5 15 7 5 5 8 4 3 3 4 2			70	936- 1	187	3155	3483	4154
≥11	59 51 30 29 18 14 16 12 10 8 4 8 6 7 2			33	510- 1	307	2155	2193	4108
≥ 7	88 60 36 32 26 14 14 9 4 4 1 2 3 1 1			4	132- 1	299	1088	1099	4104
≥ 4	103 41 36 8 2 1 2 1 1				90- 1	195	381	389	4101

HOURS INTERVAL BETWEEN EVENTS



28 36.1N 123.8W

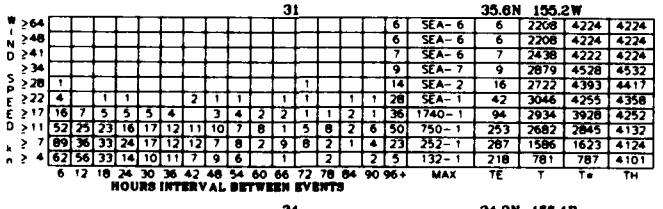
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 5	6	2203	4219	4219
≥34				6	SEA- 5	6	2203	4219	4219
≥28	1 4 4 1 1			20	SEA- 1	31	2753	4473	4520
≥22	35 33 27 1 3 2 8 3 1 6 8 1 2 3			61	1050- 1	194	3210	3907	4405
≥17	104 52 38 3 7 11 12 4 3 6 13 2 4 9 4			49	600- 1	321	2485	2681	4240
≥11	102 59 30 4 6 14 8 4 5 3 10 1 5 5 1			7	138- 2	264	1013	1067	4147
≥ 7	44 18 20 5 10 7 3 1 1 1			1	96- 1	111	344	355	4111
≥ 4	49 8 3 3 1 2 1				48- 1	67	111	112	4102

HOURS INTERVAL BETWEEN EVENTS

29 35.9N 171.0W

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				7	SEA- 5	7	2176	4192	4193
≥28	1			13	SEA- 2	16	2281	4264	4287
≥22	2 2 3 1 1 2 2 1 1 2			31	1756- 1	47	2766	4139	4262
≥17	16 5 2 3 3 3 3 6 5 3 4 2 3 1			50	942- 2	116	2969	3711	4152
≥11	75 33 17 17 16 9 20 8 9 6 4 5 1 7 2			52	468- 1	281	2477	2590	4116
≥ 7	82 47 37 25 27 12 14 6 7 5 5 2 6 3 2			13	174- 1	293	1348	1380	4103
≥ 4	112 43 28 17 2 6 9 1 3 1 2 1			2	150- 1	227	592	600	4102

HOURS INTERVAL BETWEEN EVENTS



31 35.6N 155.2W

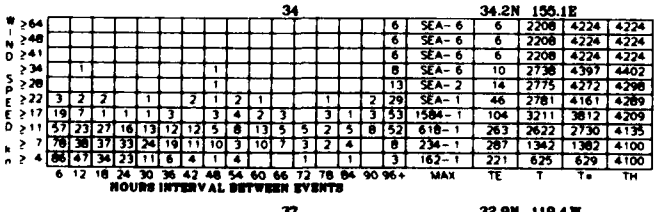
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				7	SEA- 6	7	2438	4222	4224
≥34				9	SEA- 7	9	2879	4528	4532
≥28	1			14	SEA- 2	16	2722	4393	4417
≥22	4 1 1 1 2 1 1 1 1 1 1			28	SEA- 1	42	3046	4255	4358
≥17	16 7 5 5 5 4 3 4 2 2 1 1 2 1			36	1740- 1	94	2934	3928	4252
≥11	52 25 23 16 17 12 11 10 7 8 1 5 8 2 6			50	750- 1	253	2682	2845	4132
≥ 7	89 36 33 24 17 12 12 7 8 2 9 8 2 1 4			23	252- 1	287	1586	1623	4124
≥ 4	62 56 33 14 10 11 7 9 6 1 2 2 5				132- 1	218	781	787	4101

HOURS INTERVAL BETWEEN EVENTS

32 35.4N 142.0W

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				6	SEA- 6	6	2208	4224	4224
≥28	1			7	SEA- 5	9	2340	4326	4334
≥22	2 1 1 1 1 1 1 1			15	SEA- 3	21	2534	4266	4306
≥17	13 3 1 1 1 1 1 2 1			37	2124- 1	61	3008	4087	4259
≥11	52 26 12 9 8 9 7 3 8 3 3 12 6 3 11			57	942- 1	229	2785	3120	4187
≥ 7	77 48 28 15 14 15 8 13 7 13 7 7 1 2 3			25	504- 1	283	1738	1798	4130
≥ 4	96 34 23 20 7 8 8 6 4 5 2 1 3 1 8				150- 1	226	828	850	4102

HOURS INTERVAL BETWEEN EVENTS



34 34.2N 155.1E

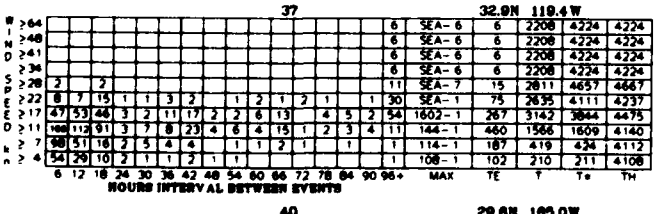
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34	1			8	SEA- 6	10	2738	4397	4402
≥28	1			13	SEA- 2	14	2775	4272	4298
≥22	3 2 2 1 2 1 2 1 1 2 29				SEA- 1	46	2781	4161	4289
≥17	19 7 1 1 1 3 3 4 2 3 3 1 3 53				1584- 1	104	3211	3812	4209
≥11	57 23 27 16 13 12 12 5 8 13 5 5 2 5 8 52				618- 1	263	2622	2730	4135
≥ 7	78 38 37 33 24 19 11 10 3 10 7 3 2 4 8				234- 1	287	1342	1382	4100
≥ 4	86 47 34 23 11 6 4 1 4 1 1 3				162- 1	221	625	629	4100

HOURS INTERVAL BETWEEN EVENTS

35 34.2N 163.8E

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				7	SEA- 5	7	2482	4551	4554
≥28	1			12	SEA- 2	14	2020	4237	4266
≥22	2 3 1 2 1 1 1 1 1 25				2190- 1	38	2763	4193	4319
≥17	16 6 9 3 2 5 2 2 3 2 3 4 1 3 57				1026- 1	118	3101	3843	4274
≥11	63 27 15 16 17 14 12 9 5 6 5 3 6 7 7 55				396- 1	267	2539	2591	4140
≥ 7	88 49 38 26 26 16 14 9 6 3 6 2 5 4 11				204- 1	303	1328	1347	4106
≥ 4	99 43 32 17 8 6 5 3 2 5 1				66- 1	221	563	565	4100

HOURS INTERVAL BETWEEN EVENTS



37 32.9N 119.4W

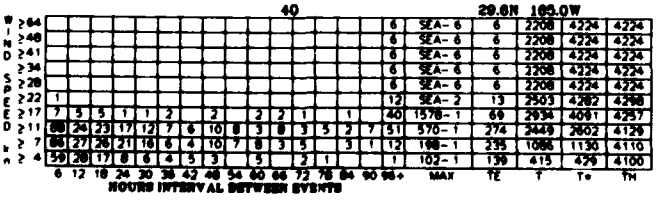
WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				6	SEA- 6	6	2208	4224	4224
≥28	2 2			11	SEA- 7	15	2811	4657	4667
≥22	8 7 15 1 1 3 2 1 2 1 2 1 1 30				SEA- 1	75	2635	4111	4237
≥17	47 53 46 3 2 11 17 2 2 6 13 4 5 2 54				1602- 1	267	3142	3844	4475
≥11	108 112 91 3 7 8 23 4 6 4 15 1 2 3 4 11				144- 1	460	1566	1609	4140
≥ 7	68 51 16 2 5 4 4 1 1 2 1 1				114- 1	187	419	434	4112
≥ 4	54 29 10 2 1 1 2 1 1 1				108- 1	102	210	211	4108

HOURS INTERVAL BETWEEN EVENTS

38 31.5N 127.7W

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				6	SEA- 6	6	2208	4224	4224
≥28				8	SEA- 6	8	2453	4392	4395
≥22	7 4 1 1 1 1 20				SEA- 2	34	2753	4401	4464
≥17	31 15 8 5 2 6 5 1 4 2 1 2 1 3 52				1098- 1	138	3080	3855	4299
≥11	85 27 22 15 15 8 7 8 5 9 8 5 2 7 3 44				318- 1	270	2165	2315	4199
≥ 7	82 37 26 19 10 13 10 4 3 5 2 6 3 1 10				186- 1	231	982	1048	4104
≥ 4	65 23 13 9 4 4 2 5 2 2 2 2 3				102- 2	134	396	413	4100

HOURS INTERVAL BETWEEN EVENTS



40 29.6N 163.0W

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				6	SEA- 6	6	2208	4224	4224
≥41				6	SEA- 6	6	2208	4224	4224
≥34				6	SEA- 6	6	2208	4224	4224
≥28				6	SEA- 6	6	2208	4224	4224
≥22	1			12	SEA- 2	13	2503	4282	4298
≥17	7 5 5 1 1 2 2 2 2 2 1 1 1 40				1578- 1	69	2934	4061	4257
≥11	88 24 23 17 12 7 6 10 8 3 8 3 5 2 7 51				570- 1	274	2449	2602	4129
≥ 7	86 27 26 21 16 6 4 10 7 8 3 5 3 1 12				198- 1	235	1086	1130	4110
≥ 4	59 28 17 8 6 4 5 3 5 2 1 1				102- 1	138	415	429	4100

HOURS INTERVAL BETWEEN EVENTS

41 29.4N 134.9E

WIND SPEED	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+				MAX	TE	T	Te	TH
≥64				6	SEA- 6	6	2208	4224	4224
≥48				7	SEA- 5	7	1998	4334	4339
≥41	1			8	SEA- 5	9	2232	4329	4342
≥34	2 1 1			13	SEA- 4	17	2649	4328	4357
≥28	2 3 2 1 1 1 1 1 1 1			18	SEA- 3	31	3195	4496	4790
≥22	9 6 3 2 2 2 1 1 1 4 2 1 1			34	1842- 1	68	3496	4482	4795
≥17	28 14 11 4 5 5 2 2 2 5 1 2 2 1 51				1266- 1	135	3006	3848	4305
≥11	62 24 19 11 5 10 11 10 7 5 7 3 6 6 6 45				420- 1	237	2298	2448	4174
≥ 7	70 29 23 25 17 12 13 9 7 8 2 2 3 1 4 19				252- 1	244	1351	1383	4107
≥ 4	72 34 20 9 8 11 5 4 4 3 1 1 2 1 2				180- 1	177	584	595	4101

HOURS INTERVAL BETWEEN EVENTS

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SUMMER

23 — 42.4N 172.1E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																1	6	SEA- 6	7	2220	4223	4224
≥48																1	6	SEA- 6	7	2220	4220	4224
≥41																1	8	SEA- 5	9	2500	4455	4464
≥34		2							1								16	SEA- 1	19	2543	4376	4408
≥28	5		1	1	1	1	1	1	1	1			3	1			43	1740- 1	59	3216	4159	4296
≥22	20	8	11	6	4	3	3	4	5	3	4	3	6	4	5	65	732- 1	154	3197	3722	4230
≥17	32	14	15	14	19	12	17	8	5	5	6	4	9	5	4	64	414- 1	233	2807	3012	4166
≥11	74	41	39	31	23	21	14	7	10	7	6	6	10	6	3	14	198- 1	312	1643	1722	4108
≥ 7	96	55	37	25	15	15	5	4	2	4	1		2		1	2	174- 1	264	806	820	4102
≥ 4	99	40	13	9	3	3	2	1	1								54- 1	171	318	324	4100

HOURS INTERVAL BETWEEN EVENTS

24 — 41.0N 134.9W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	6	SEA- 6	6	2208	4224	4224
≥28																	7	SEA- 4	7	1878	4294	4299
≥22	6	3	1	3	4			1	1	1	1				1		22	2202- 1	44	2672	4366	4472
≥17	17	12	7	5	2	3	5	2	3	3		2	4	1	2	59	1356- 1	127	3178	3790	4249
≥11	53	17	17	15	14	6	9	16	9	4	6	2	5	6	6	50	696- 1	235	2360	2524	4116
≥ 7	60	37	28	22	18	14	15	13	6	4	3	4	3	1	2	11	192- 2	241	1184	1251	4104
≥ 4	85	25	21	17	9	7	4	2	2	1	1					3	96- 3	177	484	516	4100

HOURS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	8	SEA- 6	8	2743	4754	4756
≥41																	9	SEA- 5	9	2988	4702	4707
≥34																	12	SEA- 2	12	2597	4361	4380
≥28	2	1							1					1			21	SEA- 1	26	2871	4352	4408
≥22	11	3	6	2	1	1		1	3	5	2	1	2				49	1356- 1	87	3146	4061	4258
≥17	28	8	10	10	5	15	7	5	5	8	4	3	3	4	2	70	936- 1	187	3155	3483	4154
≥11	59	51	30	29	18	14	16	12	10	8	4	8	6	7	2	33	510- 1	307	2155	2193	4108
≥ 7	88	60	36	32	26	14	14	9	4	4	1	2	3	1	1	4	132- 1	299	1088	1099	4104
≥ 4	103	41	36	8	2	1	2				1						90- 1	195	381	389	4101

HOURS INTERVAL BETWEEN EVENTS

27 — 36.2N 127.4W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	7	SEA- 6	7	2435	4393	4397
≥28	1											1	1				13	SEA- 4	16	2764	4662	4685
≥22	14	10	6	3	2	2	3	1	1	5					1		49	1422- 1	97	3160	4009	4332
≥17	39	16	13	5	6	9	6	3	2	4	5	2	6	6	3	62	696- 1	187	2836	3094	4225
≥11	68	19	13	14	10	10	12	6	9	7	8	4	2	3	2	25	414- 1	212	1465	1533	4134
≥ 7	42	17	7	7	8	2	5	6	4	4	3	3	2			6	156- 1	119	596	634	4111
≥ 4	33	18	5	8	8	4	3	1	3		1			1			84- 1	85	261	263	4101

HOURS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	7	SEA- 5	7	2176	4192	4193
≥28									1						1	1	13	SEA- 2	16	2281	4264	4287
≥22	2	3	1	1	2			2		2		1		2			31	1506- 1	47	2766	4139	4262
≥17	16	5	2	3	3	3	3	6	5	3	4	2	3	1	1	7	50	942- 2	116	2969	3711	4152
≥11	75	33	17	17	16	9	20	8	9	6	4	5	1	7	2	52	468- 1	281	2477	2590	4116
≥ 7	82	47	37	25	27	12	14	6	7	5	5	2	6	3	2	13	174- 1	293	1348	1380	4103
≥ 4	112	43	28	17	2	6	9	1	3		1		2	1		2	150- 1	227	592	600	4102

HOURS INTERVAL BETWEEN EVENTS

30 — 35.7N 176.1E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 5	6	1943	4251	4252
≥34	2																7	SEA- 5	9	2046	4246	4252
≥28										1							13	SEA- 3	14	2183	4260	4280
≥22	2	3	3	2				1	1	1	2		1				28	SEA- 1	44	2898	4270	4391
≥17	26	5	5	2	3	2	5	1	4	6	2	3	3	4	1		55	1188- 1	127	3351	3873	4316
≥11	52	30	21	21	21	22	7	7	14	9	7	5	3	5	3	54	426- 1	281	2488	2508	4130	
≥ 7	84	55	43	28	28	18	13	7	4	5	4		2	2	4	12	210- 1	309	1312	1333	4115	
≥ 4	104	58	23	12	7	7	4	3	2			2	2	2	1	2	114- 1	226	576	576	4112	

HOURS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	6	SEA- 6	6	2208	4224	4224
≥28			1								1						7	SEA- 5	9	2340	4326	4334
≥22	2		1							1		1					15	SEA- 3	21	2534	4266	4306
≥17	13	3	1	1	1	1	1	2	1								37	2124- 1	61	3008	4087	4259
≥11	52	26	12	9	8	9	7	3	8	3	3	12	6	3	11	57	942- 1	229	2785	3120	4187	
≥ 7	77	48	28	15	14	15	8	13	7	13	7	7	1	2	3	25	504- 1	283	1738	1798	4130	
≥ 4	96	34	23	20	7	8	8	6	4	5	2	1	3		1	8	150- 1	226	828	850	4102	

HOURS INTERVAL BETWEEN EVENTS

33 — 34.8N 145.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 5	6	1923	4251	4252
≥41																	6	SEA- 5	6	1922	4250	4252
≥34																	7	SEA- 5	7	2175	4246	4252
≥28																	13	SEA- 4	13	2676	4267	4290
≥22	2	1		1		1			2	1	2						33	SEA- 1	43	2818	4157	4274
≥17	28	7	8	4	4	2	1	3	4	4	3	2	1	3	3	65	1266- 1	142	3305	3751	4246	
≥11	47	29	19	19	16	15	15	14	4	10	3	10	4	4	1	46	522- 1	356	2384	2424	4110	
≥ 7	79	43	37	18	20	12	8	12	7	6	8	2	4	1	2	12	204- 1	271	1267	1282	4101	
≥ 4	76	40	31	13	9	5	6	6	2	1	1	1	1			1	102- 1	193	547	550	4100	

HOURS INTERVAL BETWEEN EVENTS

35 — 34.2N 163.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	7	SEA- 5	7	2482	4551	4554
≥28			1				1										12	SEA- 2	14	2020	4237	4266
≥22	2	3			1			2	1	1		1	1	1			25	2190- 1	38	2763	4193	4319
≥17	16	6	9	3	2	5	2	2	3	2	3	4	1		3	57	1026- 1	118	3101	3843	4274	
≥11	63	27	15	16	17	14	12	9	5	6	5	3	6	7	7	55	396- 1	267	2539	2591	4140	
≥ 7	88	49	38	26	26	16	14	9	6	3	6	2	5		4	11	204- 1	303	1328	1347	4106	
≥ 4	99	43	32	17	8	6	5	3	2	5	1						66- 1	221	563	565	4100	

HOURS INTERVAL BETWEEN EVENTS

36 — 33.7N 123.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	6	SEA- 6	6	2208	4224	4224
≥28	1																8	SEA- 4	9	2236	4256	4264
≥22	5	1		1					1					2	2	1	21	SEA- 2	31	3058	4478	4544
≥17	10	5	7	4	1	2				1	2	2	2		1	3	57	1044- 2	97	3572	4052	4412
≥11	65	22	13	14	11	10	11	6	5	7	7	8	7	7	8	59	432-	260	2682	2811	4188	
≥ 7	66	39	39	24	19	8	18	11	14	8	7	4	1	4	1	18	2 - - 1	281	1524	1529	4118	
≥ 4	72	45	35	16	13	10	10	5	4	3	4	4	2	2	1	9	294- 1	235	1000	1003	4118	

HOURS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	6	SEA- 6	6	2208	4224	4224
≥28																	8	SEA- 6	8	2453	4392	4395
≥22	7	4				1				1	1						20	SEA- 2	34	2753	4401	4469
≥17	31	15	8	5	2	6	5	1	4	2	1	2	1	1		3	52	1098- 1	138	3080	3855	4299
≥11	85	27	22	15	15	8	7	8	5	9	8	5	2	7	3	44	318- 1	270	2165	2315	4199	
≥ 7	82	37	26	19	10	13	10	4	3	5	2	6		3	1	10	186- 1	231	982	1048	4104	
≥ 4	65	23	13	9	4	4	2	5	2	2		2				3	102- 2	134	396	413	4100	

HOURS INTERVAL BETWEEN EVENTS

39 — 29.8N 177.3W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	7	SEA- 6	7	2350	4386	4387
≥28									1								7	SEA- 4	8	2184	4407	4413
≥22	1	2	2	2													13	SEA- 1	20	2414	4295	4390
≥17	13	4	6			1	1	2	1				3	1	1	43	1428- 1	76	3138	3864	4295	
≥11	81	30	12	15	8	6	12	10	4	11	2	7	9	9	4	50	360- 1	270	2527	2699	4150	
≥ 7	68	39	35	17	20	11	9	9	6	6	3	4	4	1	2	14	216- 1	248	1244	1315	4102	
≥ 4	96	35	20	20	13	4	5	2	2	2	2	1				1	108- 1	203	538	552	4100	

HOURS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	7	SEA- 5	7	1998	4334	4339
≥41						1											8	SEA- 5	9	2232	4329	4342
≥34		2	1			1											13	SEA- 4	17	2649	4328	4357
≥28	2	3	2		1		1	1				1	1	1			18	SEA- 3	31	3195	4496	4790
≥22	9	6	3	2	2	2	1	1	4	2	1		1		1		34	1662- 1	68	3496	4482	4735
≥17	28	14	11	4	5	5	2	2	2	5	1		2	2	1	51	1266- 1	135	3006	3686	4305	
≥11	62	24	19	11	5	10	11	10	7	5	7	3	6	6	6	45	420- 1	237	2298	2448	4174	
≥ 7	70	29	23	25	17	12	13	9	7	8	2	2	3	1	1	19	252- 1	244	1351	1383	4107	
≥ 4	72	34	20	9	8	11	5	4	4	3	1	1	2	1		2	180- 1	177	584	595	4101	

HOURS INTERVAL BETWEEN EVENTS

42 — 28.8N 139.2W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+					
≥64																	6	SEA- 6	6	2208	4224	4224
≥48																	6	SEA- 6	6	2208	4224	4224
≥41																	6	SEA- 6	6	2208	4224	4224
≥34																	6	SEA- 6	6	2208	4224	4224
≥28																	6	SEA- 5	6	2183	4199	4199
≥22																	10	SEA- 3	10	2652	4742	4757
≥17	16	4	5			3	1	4	2		1	1			1	37	1398- 1	75	3120	4388	4441	
≥11	91	31	22	14	8	8	4	4	8	10	10	4	2	1	2	52	510- 1	277	2458	2814	4183	
≥ 7	96	22	32	11	13	12	7	7	6	5	3	5	2	3	2	16	156- 3	242	1154	1182	4120	
≥ 4	63	25	22	10	6	7	4	8	3		2			1		2	126- 1	153	485	488	4100	

HOURS INTERVAL BETWEEN EVENTS

2

SUMMER

WIND SPE

43 — 28.2N 125.9E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 5	6	2025	4250	4252
≥41		9	SEA- 5	9	2856	4761	4768
≥34	1	13	SEA- 4	15	2901	4702	4733
≥28	3 1 2 1 1	18	SEA- 1	26	2970	4749	4833
≥22	7 5 4 1 1 1 1 1 2 41		1632- 1	63	3340	4303	4554
≥17	27 7 8 6 3 4 2 3 3 3 2 3 3 4 59		1260- 1	137	3318	3736	4393
≥11	67 12 18 13 11 13 7 7 7 8 8 2 2 5 5 46		486- 1	231	2198	2290	4115
≥ 7	78 25 17 23 16 10 8 7 6 4 4 4 1 2 1 17		264- 1	223	1175	1208	4100
≥ 4	68 28 17 17 8 6 6 6 3 2 1 2 1 1 1 7		264- 1	174	696	723	4100

HOURS INTERVAL BETWEEN EVENTS

44 — 27.9N 150.7E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4222	4222
≥48		6	SEA- 6	6	2208	4222	4222
≥41	1	6	SEA- 5	7	1913	4246	4250
≥34	1 1	8	SEA- 5	10	2166	4456	4471
≥28	1 1 12		SEA- 3	14	2607	4419	4463
≥22	5 3 1 1 1 1 2 1 2 2 22		SEA- 1	41	3020	4490	4619
≥17	23 6 4 1 2 1 3 3 1 1 1 2 1 1 2 43		1962- 1	95	3180	4036	4463
≥11	54 25 16 10 11 7 12 5 3 7 5 5 6 4 6 56		516- 2	232	2680	2861	4212
≥ 7	110 36 25 20 22 17 12 10 8 7 4 3 6 3 21		222- 2	304	1536	1559	4116
≥ 4	98 36 29 17 10 8 6 4 2 1 2 3 2 1		126- 1	219	630	641	4108

HOURS INTERVAL BETWEEN EVENTS

46 — 26.1N 170.8E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 6	6	2208	4224	4224
≥41		6	SEA- 6	6	2208	4224	4224
≥34		6	SEA- 6	6	2208	4224	4224
≥28	1	8	SEA- 3	9	1937	4277	4286
≥22	5 2 2 2	17	SEA- 3	28	2537	4202	4276
≥17	25 9 6 1 8 3 3 1 2 4 1 1 2 1 42		SEA- 1	109	3380	3983	4320
≥11	75 32 11 9 4 5 10 10 5 2 9 3 8 1 2 51		408- 1	237	2357	2516	4117
≥ 7	85 35 28 14 11 13 9 8 8 4 2 4 3 5 4 14		288- 1	247	1223	1252	4106
≥ 4	64 38 24 7 11 6 3 5 4 2 1 1		102- 1	166	476	481	4100

HOURS INTERVAL BETWEEN EVENTS

47 — 25.0N 119.4W

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 6	6	2208	4224	4224
≥41		6	SEA- 6	6	2208	4224	4224
≥34		6	SEA- 6	6	2208	4224	4224
≥28		8	SEA- 6	8	2610	4483	4488
≥22	3 1 1	15	SEA- 3	20	2634	4349	4390
≥17	7 1 2 2 2 2 2 1 2 2 44		1266- 1	67	3161	4291	4452
≥11	118 50 39 12 9 10 11 6 4 9 9 10 8 4 13 53		366- 1	365	2742	2859	4149
≥ 7	151 62 39 15 24 11 11 4 12 9 3 4 4 1 1 4		156- 1	355	1198	1227	4114
≥ 4	106 35 14 9 6 3 1		42- 1	174	309	313	4.00

HOURS INTERVAL BETWEEN EVENTS

49 — 22.6N 128.0E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 5	6	1933	4250	4252
≥41		7	SEA- 5	7	2018	4241	4252
≥34	3 1	10	SEA- 3	14	2137	4208	4241
≥28	5 4 2	19	SEA- 1	30	2641	4517	4599
≥22	10 5 1 2 1 1 37		1278- 1	57	2994	4190	4448
≥17	23 9 7 1 3 4 3 3 2 2 4 2 4 1 1 1 55		918- 1	124	3235	3782	4358
≥11	80 31 16 17 17 14 7 4 10 11 2 6 1 8 4 41		516- 1	269	2348	2551	4151
≥ 7	126 45 36 14 13 20 10 7 5 5 5 4 1 3 2 12		216- 1	308	1238	1271	4103
≥ 4	85 28 24 15 4 6 6 2 2 1 1 2		162- 1	176	480	493	4100

HOURS INTERVAL BETWEEN EVENTS

50 — 21.7N 162.7W

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 6	6	2208	4224	4224
≥41		6	SEA- 6	6	2208	4224	4224
≥34		6	SEA- 6	6	2208	4224	4224
≥28		7	SEA- 6	7	2243	4259	4261
≥22	1 2 1 1 21		SEA- 3	26	2790	4203	4237
≥17	39 12 4 5 4 4 4 2 2 2 1 4 1 1 1 42		SEA- 1	128	2819	3803	4241
≥11	118 41 21 13 6 15 8 9 8 11 11 7 3 2 6 35		402- 1	312	2121	2263	4170
≥ 7	118 32 20 16 14 13 4 5 2 1 3 1 7		174- 1	236	750	783	4129
≥ 4	78 23 24 4 6 3 3 3 1 1		84- 1	146	331	339	4100

HOURS INTERVAL BETWEEN EVENTS

52 — 19.2N 127.8W

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 5	6	2040	4251	4252
≥41	1	7	SEA- 5	8	2056	4248	4252
≥34	1	11	SEA- 5	12	2596	4457	4475
≥28	9 1 1 1 1 1 15		SEA- 2	29	2639	4760	4820
≥22	19 6 2 4 3 2 1 2 1 2 3 2 38		1716- 1	85	2998	4196	4442
≥17	53 19 15 8 12 6 10 8 6 3 3 3 2 2 2 59		1122- 1	211	3043	3449	4211
≥11	150 60 47 13 19 11 8 5 10 6 2 6 2 6 6 17		234- 1	368	1577	1645	4123
≥ 7	108 32 23 15 6 8 3 1 1 6 3 3		78- 3	207	550	558	4106
≥ 4	44 14 6 1 3 1 1		42- 1	70	122	123	4100

HOURS INTERVAL BETWEEN EVENTS

53 — 18.5N 120.7E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 5	6	2174	4190	4190
≥48		8	SEA- 4	8	2054	4177	4185
≥41	1	10	SEA- 3	11	2182	4223	4236
≥34	1 1 1 1	17	SEA- 1	20	2399	4288	4323
≥28	4 2 1 3 1 30		1374- 1	41	2798	4266	4353
≥22	23 6 5 2 4 2 2 2 2 1 1 48		1002- 1	98	3181	4005	4285
≥17	41 13 10 5 5 3 11 4 3 3 5 3 3 2 4 63		852- 1	178	3336	3611	4242
≥11	120 57 31 12 18 17 12 7 10 8 5 4 6 7 3 42		432- 1	359	2434	2553	4123
≥ 7	169 54 48 31 20 13 14 8 8 3 3 4 5 4 4 14		240- 1	402	1580	1598	4107
≥ 4	171 51 29 15 13 6 7 3 1 2 1 1 1 1 3		210- 1	304	735	738	4101

HOURS INTERVAL BETWEEN EVENTS

55 — 17.6N 138.5E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 4	6	1601	4294	4296
≥41	1	7	SEA- 3	7	1714	4406	4412
≥34	1	12	SEA- 1	13	1950	4541	4560
≥28	1 1 2 1 19		SEA- 1	24	2602	4562	4636
≥22	9 6 3 1 1 2 1 2 47		1410- 1	72	3525	4493	4704
≥17	44 12 3 5 2 7 1 6 3 1 2 3 3 3 5 63		1056- 1	163	3448	3767	4330
≥11	101 33 26 19 14 11 14 9 12 9 9 3 13 4 4 40		306- 1	321	2435	2505	4156
≥ 7	143 54 45 21 26 13 11 9 10 6 5 4 1 3 6		204- 1	357	1283	1293	4101
≥ 4	93 39 26 10 10 6 3 3 2 1 2 1		108- 1	195	484	486	4101

HOURS INTERVAL BETWEEN EVENTS

56 — 17.6N 111.5W

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4218	4218
≥48		7	SEA- 6	7	2465	4475	4476
≥41		10	SEA- 5	10	2790	4305	4311
≥34		11	SEA- 4	12	2649	4321	4339
≥28	4 3 1 2 1 2 1 2 1 2 14		SEA- 4	27	3155	4712	4760
≥22	5 2 2 2 1 1 2 2 3 2 26		SEA- 1	48	1351	4710	4834
≥17	18 12 2 1 3 3 2 2 3 3 2 2 48		846- 1	101	3127	4132	4418
≥11	94 25 39 12 24 17 14 6 8 11 6 5 8 5 4 55		540- 1	333	2887	3091	4166
≥ 7	169 72 52 39 30 30 13 9 8 2 5 5 2 3 5 12		246- 1	456	1767	1797	4104
≥ 4	175 71 39 19 13 10 12 4 2 6 2 2 1 4		240- 1	360	995	1007	4100

HOURS INTERVAL BETWEEN EVENTS

58 — 14.5N 127.7E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 6	6	2208	4224	4224
≥41		6	SEA- 6	6	2208	4224	4224
≥34	2 1	8	SEA- 2	11	1774	4319	4332
≥28	1 1 2 1 11		SEA- 2	16	2254	4642	4679
≥22	7 3 3 1 1 1 1 1 21		1746- 1	42	2165	4529	4644
≥17	19 7 5 2 4 4 1 1 5 2 1 2 1 1 47		1176- 1	101	2876	4308	4626
≥11	59 34 32 12 6 7 13 7 1 6 6 2 2 2 2 69		438- 1	260	2909	3057	4208
≥ 7	110 51 58 26 24 20 17 10 4 7 8 9 2 3 2 22		288- 1	373	1843	1875	4109
≥ 4	167 72 46 19 16 10 4 4 3 2 4 1 1 2		162- 1	351	885	898	4101

HOURS INTERVAL BETWEEN EVENTS

59 — 14.0N 160.6W

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 6	6	2208	4224	4224
≥41		6	SEA- 5	6	2026	4251	4252
≥34	1	6	SEA- 5	7	2030	4249	4252
≥28	1 1	7	SEA- 5	8	2088	4244	4252
≥22	2 1 3 1 1 3 1 18		SEA- 1	30	2715	4484	4545
≥17	24 10 13 6 1 1 2 1 6 4 3 2 3 3 4 50		1098- 2	133	3207	3977	4388
≥11	103 44 33 19 21 14 15 8 11 8 9 1 8 1 4 25		366- 1	324	1888	1972	4161
≥ 7	98 23 16 15 6 2 4 3 2 1 1 1 2		180- 1	174	450	467	4102
≥ 4	30 5 5 1 3 1 1		54- 1	45	90	90	4100

HOURS INTERVAL BETWEEN EVENTS

61 — 12.0N 156.7E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4224	4224
≥48		6	SEA- 5	6	1894	4251	4252
≥41		6	SEA- 5	6	1894	4251	4252
≥34		8	SEA- 5	8	2164	4247	4252
≥28	1 1	9	SEA- 5	11	2221	4237	4247
≥22	3 3 1 1 13		SEA- 4	21	2386	4183	4217
≥17	11 2 6 1 1 1 1 1 1 25		SEA- 4	50	3002	4336	4480
≥11	92 27 21 4 13 8 5 2 3 4 6 2 5 3 53		1116- 1	248	3033	3439	4234
≥ 7	149 55 42 12 19 13 10 6 5 6 9 4 7 2 5 28		312- 1	352	1904	1954	4141
≥ 4	148 42 27 14 12 5 5 3 2 1 2 2 2 4		150- 1	270	712	714	4103

HOURS INTERVAL BETWEEN EVENTS

62 — 4.1N 106.7E

WIND SPEED kn	6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+		MAX	TE	T	Te	TH
≥64		6	SEA- 6	6	2208	4205	4205
≥48		6	SEA- 6	6	2208	4205	4205
≥41		6	SEA- 6	6	2208	4205	4205
≥34		6	SEA- 6	6	2208	4205	4205
≥28		6	SEA- 6	6	2208	4204	4205
≥22		6	SEA- 6	6	2208	4423	4426
≥17		7	SEA- 6	7	2245	4458	4465
≥11	4 3 2 1 1 1 1 2 1 3 18		SEA- 5	37	3103	4391	4485
≥ 7	33 24 13 10 3 7 5 11 3 5 2 1 1 6 42		1998- 1	166	3427	4478	5015
≥ 4	87 33 26 10 7 6 5 4 5 4 6 1		978- 1	232	2176	2378	4383

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

44 — 27.9N 150.7E

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4222	4222
												6	SEA- 6	6	2208	4222	4222
												6	SEA- 5	7	1913	4246	4250
												8	SEA- 5	10	2166	4456	4471
		1								1		12	SEA- 3	14	2607	4419	4463
1	1			1	1	2	1		2		2	22	SEA- 1	41	3020	4490	4619
1	2	1	3	3	1	1	1	2	1	1	2	43	1962- 1	95	3180	4036	4463
10	11	7	12	5	3	7	5	5	6	4	6	56	516- 2	232	2680	2861	4212
20	22	17	12	10	8	7	4	3	6		3	21	222- 2	304	1536	1559	4116
17	10	8	6	4	2	1	2	3	2			1	126- 1	219	630	641	4108

HOURS INTERVAL BETWEEN EVENTS

45 — 27.8N 145.8W

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4224	4224
N													6	SEA- 6	6	2208	4224	4224
D													6	SEA- 6	6	2208	4224	4224
													6	SEA- 6	6	2208	4224	4224
S													6	SEA- 6	6	2208	4224	4224
P													11	SEA- 4	14	2302	4318	4333
E	17	6	3	4	1	1	3			1	3		1	3	1	40	1176- 1	84	2679	4189	4363
D	11	92	33	21	8	8	13	22	5	11	7	2	2	2	4	49	570- 1	283	2421	2545	4151
K	7	89	25	21	18	9	6	8	6	3	8	1	3	4	2	3	15	186- 1	221	1040	1072	4116
n	4	51	18	17	11	3	9	1	2	6			2	1		1	1	102- 1	123	397	403	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

47 — 25.0N 119.4W

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												8	SEA- 6	8	2610	4483	4488
					1							15	SEA- 3	20	2634	4349	4390
2		2	2	2	1		2	2				44	1266- 1	67	3161	4291	4452
12	9	10	11	6	4	9	9	10	8	4	13	53	366- 1	365	2742	2859	4149
15	24	11	11	4	12	9	3	4	4	1	1	4	156- 1	355	1198	1227	4114
9	6	3	1										42- 1	174	309	313	4100

HOURS INTERVAL BETWEEN EVENTS

48 — 23.5N 151.8W

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4224	4224
N													6	SEA- 6	6	2208	4224	4224
D													6	SEA- 6	6	2208	4224	4224
													6	SEA- 6	6	2208	4224	4224
S													6	SEA- 6	6	2208	4444	4445
P													11	SEA- 4	15	2397	4411	4424
E	22	2	1					1						SEA- 1	88	3082	4210	4445
D	11	102	54	26	20	8	17	11	7	6	6	8	3	4	3	5	32	528- 1	312	2109	2187	4201
K	7	79	25	9	9	6	6	4	3	2	1	5	1	2			4	144- 1	156	515	516	4102
n	4	32	11	5	6	2	2	2	1				1					72- 1	62	149	149	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

50 — 21.7N 162.7W

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
										1		7	SEA- 6	7	2243	4259	4261
										1	1	21	SEA- 3	26	2790	4203	4237
5	4	4	4	2	2	2	1	4	1	1	1	42	SEA- 1	128	2819	3803	4241
13	6	15	8	9	8	11	11	7	3	2	6	35	402- 1	312	2121	2263	4170
16	14	13	4	5	2	1		3	1			7	174- 1	236	750	783	4129
4	6	3	3	3				1		1			84- 1	146	331	339	4100

HOURS INTERVAL BETWEEN EVENTS

51 — 20.5N 177.1W

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4224	4224
N													6	SEA- 6	6	2208	4224	4224
D													6	SEA- 6	6	2208	4224	4224
													6	SEA- 6	6	2208	4224	4224
S													6	SEA- 6	6	2208	4223	4224
P													12	SEA- 4	13	2360	4298	4311
E	17	26	13	6	1	2		1	1		1	2	2	2	1	1	46	1566- 1	105	3365	4045	4318
D	11	104	37	30	9	19	12	12	9	9	3	7	8	3	4		41	402- 1	307	2062	2159	4104
K	7	73	25	14	7	9	8	6	3	4	2	7		3		1	6	156- 1	168	664	685	4100
n	4	39	14	10	4	4	4	3		1			1					72- 1	80	199	201	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

53 — 18.5N 120.7E

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 5	6	2174	4190	4190
												8	SEA- 4	8	2054	4177	4185
												10	SEA- 3	11	2182	4223	4236
							1					17	SEA- 1	20	2399	4288	4323
				3						1		30	1374- 1	41	2798	4266	4353
2	4			2	2		2	2			1	48	1002- 1	98	3181	4005	4285
5	5	3	11	4	3	3	5	3	3	2	4	63	852- 1	178	3336	3611	4242
12	18	17	12	7	10	8	5	4	6	7	3	42	432- 1	359	2434	2553	4123
31	20	13	14	8	8	3	3	4	5	4	4	14	240- 1	402	1580	1598	4107
15	13	6	7	3	1	2	1		1		1	3	210- 1	304	735	738	4101

HOURS INTERVAL BETWEEN EVENTS

54 — 18.2N 168.8E

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4224	4224
N													6	SEA- 6	6	2208	4224	4224
D													6	SEA- 6	6	2208	4224	4224
													6	SEA- 5	6	1877	4251	4252
S											1		10	SEA- 2	11	2379	4539	4548
P	22	5	3	1	1			1					27	SEA- 1	38	2970	4437	4519
E	17	28	13	12	3	8	3	3	6	4	1	1	2	3	1	3	56	1152- 1	147	3205	4047	4456
D	11	105	38	35	18	17	12	10	6	11	9	7	8	6	5	3	42	318- 1	332	2174	2243	4135
K	7	105	43	23	15	9	11	11	4		3	4	3	4	2	3	4	156- 1	244	854	864	4102
n	4	61	23	8	12	4	4		1	1		1	1					72- 1	116	263	265	4100

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

56 — 17.8N 111.5W

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4218	4218
												7	SEA- 6	7	2465	4475	4476
												10	SEA- 5	10	2790	4305	4311
										1		11	SEA- 4	12	2649	4321	4339
							2			1	2	14	SEA- 4	27	3155	4712	4760
2	1	1				2		2	3	2		26	SEA- 1	48	3351	4710	4834
1		3		2	2	3		3	2	3	2	48	846- 1	101	3127	4132	4418
12	24	17	14	6	8	11	6	5	8	5	4	55	540- 1	333	2887	3091	4166
39	30	30	13	9	8	2	5	5	2	1	5	12	246- 1	456	1767	1797	4104
19	13	10	12	4	2		6	2	2		1	4	240- 1	360	995	1007	4100

HOURS INTERVAL BETWEEN EVENTS

57 — 14.9N 147.9E

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													7	SEA- 6	7	2259	4223	4224
N													7	SEA- 6	7	2257	4220	4224
D													7	SEA- 6	7	2257	4220	4224
										1			8	SEA- 6	9	2442	4214	4224
S									2				10	SEA- 4	13	2188	4270	4302
P	22	2	2	1				1	1				1	32	SEA- 1	40	3265	4649	4752
E	17	21	4	12	2	5	3	8		9	1	4	2		3	6	52	1962- 1	132	3449	4246	4550
D	11	150	35	44	16	16	9	20	6	17	6	12	5	9	6	3	54	342- 1	408	2726	2850	4159
K	7	220	47	58	25	15	16	14	12	10	10	5	3	3	3	1	12	150- 1	454	1569	1595	4108
n	4	211	45	25	9	9	9	4	2	1	2	1	1	2				78- 2	321	633	636	4101

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

59 — 14.0N 160.6W

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 6	6	2208	4224	4224
												6	SEA- 5	6	2026	4251	4252
1												6	SEA- 5	7	2030	4249	4252
1												7	SEA- 5	8	2088	4244	4252
1	1		3		1							18	SEA- 1	30	2715	4484	4545
6	1	1	2	1	6	4	3	2	3	3	4	50	1098- 2	133	3207	3977	4388
19	21	14	15	8	11	8	9	1	8	1	4	25	366- 1	324	1888	1972	4161
15	6	2	4	3		2	1	1			1	2	180- 1	174	450	467	4102
	1		3		1								54- 1	45	90	90	4100

HOURS INTERVAL BETWEEN EVENTS

60 — 12.2N 112.6E

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4224	4224
N													6	SEA- 6	6	2208	4224	4224
D													6	SEA- 6	6	2208	4224	4224
													7	SEA- 6	7	2304	4222	4224
S	28	1	1	1	2								8	SEA- 4	13	1803	4282	4296
P	22	7	10	1		1	1	1	2		1			26	SEA- 2	50	2433	4345	4477
E	17	40	11	7	10	5	6	2	3	3			3	5	40	1470- 1	135	2806	4070	4589
D	11	99	45	18	15	15	7	6	4	7	7	4	3	1	3	1	39	684- 1	274	2434	2809	4389
K	7	83	24	15	15	15	5	4	3	8	4	3	2	6	2	4	30	462- 1	223	1638	1652	4209
n	4	94	35	20	16	14	6	3	5	5	3	1	3	4	1	3	17	420- 1	230	1154	1155	4129

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

62 — 4.1N 106.7E

24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
												6	SEA- 6	6	2208	4205	4205
												6	SEA- 6	6	2208	4205	4205
												6	SEA- 6	6	2208	4205	4205
												6	SEA- 6	6	2208	4205	4205
												6	SEA- 6	6	2208	4204	4205
												6	SEA- 6	6	2208	4423	4426
												7	SEA- 6	7	2245	4458	4465
2	1		1	1		1	2	1			3	18	SEA- 5	37	3103	4391	4485
10	3	7	5	11	3		5	2	1	1	6	42	1998- 1	166	3427	4478	5015
10	7	6	5	4	5	4	6				1	38	978- 1	232	2176	2378	4383

HOURS INTERVAL BETWEEN EVENTS

63 — 2.1N 123.8E

W	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
I													6	SEA- 6	6	2208	4193	4193
N													6	SEA- 6	6	2208	4193	4193
D													6	SEA- 6	6	2208	4193	4193
													6	SEA- 6	6	2208	4193	4193
S													6	SEA- 6	6	2208	4193	4193
P													6	SEA- 6	6	2208	4193	4193
E	17												6	SEA- 6	6	2208	4193	4193
D	11	1	1	1	1		1						11	SEA- 6	18	2584	4554	4576
K	7	10	6	7		2	2	1	2	2		1	1	2		21	SEA- 5	57	2783	4477	4586
n	4	23	14	18	6	4	3	7	2	4	2	1	4	2	3	1	22	SEA- 4	116	2630	4038	4274

6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T* TH

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS

1 — 64.0N 186.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	6	2202	4928	4930
≥64																1	SEA-4	10	2464	5189	5200
≥48																	SEA-3	11	2464	5053	5092
≥41	4		4			1			1								SEA-2	40	3363	4994	5107
≥34	11	4	3	1	4	3	4	2	1	5			2	2	2	73	SEA-1	117	3593	4356	4739
≥28	28	13	8	6	4	8	5	9	3	11	3	5	5	7	7	76	1440-1	198	3330	3702	4638
≥22	33	16	15	14	14	31	15	9	12	12	14	6	5	11	6	51	588-1	264	2630	2843	4617
≥17	31	29	32	27	29	23	13	14	12	7	7	11	4	4	4	24	360-1	271	1946	2001	4592
≥11	65	51	37	25	20	18	4	3	5	3	1	2	3	2		7	306-1	246	951	973	4548
≥ 7	78	45	22	19	6	2	2	2	2						1	1	162-1	180	436	451	4546
≥ 4	77	21	7	6	1	1											126-1	113	175	179	4546
																	36-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

2 — 59.4N 172.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	6	2201	4927	4929
≥64																1	SEA-4	21	SEA-1	23	2836	5053	5092
≥48	1																SEA-3				
≥41	1	1	1		1	1	1			3	3		1	2		48	SEA-2	63	3392	4529	4689
≥34	6	6	8	10	2	5	9	5	5	4	5		3	5	5	71	SEA-1	149	3293	4224	4667
≥28	24	17	6	12	14	20	19	5	8	4	9	8	4	6	3	75	1158-1	234	3172	3723	4717
≥22	42	32	20	30	26	19	6	18	15	9	3	5	6	5	10	48	750-1	294	2512	2812	4617
≥17	51	38	57	41	33	23	17	19	7	6	6	5	5	5	1	19	318-1	333	1841	1916	4591
≥11	64	81	38	22	13	12	4	4	4	5	2		3			3	252-1	255	827	846	4545
≥ 7	95	41	15	10	3		3	2	1			1					126-1	171	335	341	4545
≥ 4	57	17	5														72-1	79	106	107	4545
																	18-5	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

4 — 56.8N 174.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	8	2052	4774	4778
≥64						1		1		2			1			7	SEA-4				
≥48	3	3															SEA-3	35	SEA-1	45	3167	4918	5013
≥41	8	3	2	1	2	1	1	1	2	2	1	2	2		2	59	SEA-2	89	3248	4450	4702
≥34	15	8	6	4	6	6	9	5	6	5	6	9	7	3	3	74	SEA-1	172	3508	4004	4615
≥28	20	16	17	19	16	12	14	15	9	15	10	12	7	4	8	67	894-1	269	3117	3414	4602
≥22	41	33	39	26	39	13	19	12	9	16	20	4	9	2	4	38	438-1	324	2366	2514	4575
≥17	58	58	46	34	27	28	9	12	15	11	5	7	3	3	7	9	282-1	332	1661	1709	4572
≥11	85	70	44	24	20	12	6	3	3		1	1	1				144-1	270	754	769	4546
≥ 7	87	46	20	10	4	1		1									78-1	169	313	313	4545
≥ 4	66	11	4	1	1												48-1	83	109	109	4545
																	30-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

5 — 56.8N 141.9W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	5	1840	4566	4566
≥64																5	SEA-4				
≥48						1					1				1	3	SEA-3	18	SEA-5	20	3565	5811	5840
≥41	2		2	4	1	2	2	2	2	4						37	SEA-2				
≥34	8	5	8	11	3	1	6	2	4	5			1	3	3	65	SEA-1	58	3974	5313	5440
≥28	29	10	16	13	10	7	13	7	5	8	2	6	8	7	3	68	1398-1	125	3831	4627	4991
≥22	47	29	33	21	15	21	15	17	10	11	10	4	8	7	4	58	582-1	212	3458	3963	4735
≥17	75	43	37	29	19	25	15	18	15	9	10	5	5	4	2	30	396-1	310	2869	3132	4660
≥11	98	76	39	29	21	18	16	10	6	2	2	2	3	1	3	2	330-1	341	2122	2288	4609
≥ 7	89	66	32	17	10	5	2	2	1								108-1	328	1140	1191	4557
≥ 4	97	24	4	2	2	2											54-1	224	504	520	4545
																	36-2	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

7 — 53.4N 164.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	7	2163	4887	4890
≥64												1				7	SEA-4				
≥48	1															24	SEA-3	24	SEA-2	26	3229	5404	5447
≥41	3		1	2	1	1			2		2			1	2	52	SEA-2	67	3960	5270	5411
≥34	8	10	2	7	3	3	5	8	1	1	4	2	3	4	2	78	SEA-1	141	3709	4414	4828
≥28	15	22	10	15	13	14	5	3	7	6	6	7	3	3	5	89	1008-1	223	3446	3810	4669
≥22	45	30	26	24	31	22	13	18	8	10	9	6	8	15	7	53	414-1	325	2801	2963	4591
≥17	57	53	57	41	24	22	17	19	15	8	12	8	4	6	5	16	222-2	364	1997	2086	4578
≥11	121	92	40	18	19	14	11	8	4	3	1	2	1	3		1	216-1	338	989	1009	4557
≥ 7	109	45	19	17	8	2	1	2					1				96-1	204	412	415	4547
≥ 4	73	10	6	3	2	1											78-1	95	139	141	4547
																	36-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

8 — 52.0N 172.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	12	2563	5276	5292
≥64	1											1				10	SEA-4				
≥48	1		1	1					2	1	1		1		1	35	SEA-3	44	3368	4722	4816
≥41	8	6	3	2	3	1	3	4	2	1	4	2	3	2	1	72	SEA-2	117	3675	4571	4827
≥34	19	19	11	13	8	9	5	10	5	11	2	9	3	6	5	81	SEA-1	216	3625	4055	4692
≥28	35	21	38	26	19	16	11	16	11	9	5	7	4	7	7	70	1398-1	302	3136	3473	4642
≥22	63	52	51	36	23	25	17	19	12	16	11	6	9	8	3	34	396-1	385	2448	2601	4613
≥17	76	77	59	34	25	24	12	18	14	9	9	8	3	5	1	10	372-1	384	1761	1789	4569
≥11	128	73	37	34	20	6	7	2	4	3		1				2	132-1	317	833	845	4558
≥ 7	107	45	25	12	5	2							1				102-1	197	370	373	4546
≥ 4	65	16	7	2													78-1	90	126	127	4545
																	24-2	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

10 — 51.7N 135.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	5	1840	4565	4566
≥64																5	SEA-4				
≥48		1		1	1		1		1	1	3		1		1	28	SEA-3				
≥41	1	4	2	7	2	4	4	5	3	4	4	4	1	2	2	54	SEA-2	39	3838	5560	5625
≥34	17	10	17	13	6	9	10	9	10	3	7	9	2	2	4	75	SEA-1	105	3910	4897	5108
≥28	46	38	24	14	17	19	23	17	13	8	6	7	7	7	3	66	1284-1	203	3626	4319	4870
≥22	90	56	45	37	17	21	25	11	11	13	9	8	5	5	5	30	600-1	315	3294	3594	4704
≥17	91	57	44	42	27	18	14	7	7	7	7	6	8	2	8	8	414-1	388	2382	2582	4627
≥11	116	51	29	20	24	6	4	3	2	1	3		2				222-1	348	1534	1640	4549
≥ 7	85	40	21	6	4		1										78-2	261	680	725	4545
≥ 4	68	13				1											42-1	157	279	293	4545
																	36-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

11 — 51.3N 158.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	8	2380	4920	4925
≥64																8	SEA-4				
≥48				1			1				1			1		24	SEA-3				
≥41	4	6	2	4	1	1	4					1	2	2	1	49	SEA-2	28	2407	4777	4825
≥34	16	5	7	8	16	10	3	5	6	5	6	2	4	5		81	SEA-1	77	3359	4716	4884
≥28	35	31	38	30	26	21	19	17	11	9	5	5	7	4	2	63	840-1	179	3631	4334	4810
≥22	78	61	52	54	42	19	13	17	9	12	7	4	5	3	4	32	426-1	323	3204	3561	4677
≥17	98	87	55	32	29	21	14	11	8	7	2	5	2		1	10	312-1	412	2376	2498	4596
≥11	120	55	36	17	16	9	7	1		1	1		2			1	210-1	382	1527	1587	4562
≥ 7	104	36	14	8	4	2	2	1									138-1	266	667	683	4550
≥ 4	65	13	3														48-1	171	304	304	4545
																	18-3	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

13 — 50.3N 171.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	6	2201	4926	4928
≥64																6	SEA-4				
≥48	4	1				1										27	SEA-3				
≥41	9	6		4	1	2		2	4	4	3	2	1	1		60	SEA-2	33	2982	5260	5321
≥34	21	9	13	10	7	5	8	7	7	8	7	4	7	4	1	81	SEA-1	99	3670	4726	4946
≥28	48	29	14	22	17	22	20	16	23	9	10	6	5	6	4	57	1194-1	199	3537	4328	4887
≥22	50	55	52	33	32	27	18	24	10	12	8	4	12	5	5	27	978-1	308	2942	3447	4632
≥17	84	65	62	46	32	26	14	12	5	5	8	5	3	4	2	6	396-1	374	2314	2484	4565
≥11	108	79	33	22	17	4	5	3	5	1	1			1			366-1	379	1573	1652	4562
≥ 7	109	35	20	6	3	2	2	1									120-2	279	701	725	4548
≥ 4	70	11	3	1		1											84-1	174	308	311	4545
																	48-1	86	111	112	4545
																	36-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

14 — 49.3N 174.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-4	11	2985	5425	5444
≥64																11	SEA-3				
≥48	3	1	1	1	1	1	2	2	1	1		2	1		1	43	SEA-2	61	3397	4915	5059
≥41	11	5	3	3	5	4	2	1	3	4	4	2	2	5	4	67	SEA-1	125	3558	4513	4830
≥34	27	15	21	16	12	10	8	6	10	6	10	4	5	7	6	83	1386-1	246	3498	3989	4700
≥28	43	28	34	30	16	23	17	15	13	11	5	13	13	10	4	65	552-1	340	3139	3308	4612
≥22	69	61	57	42	24	25	21	17	16	17	8	13	4	9	2	25	270-1	410	2372	2464	4592
≥17	110	80	63	46	25	15	21	11	6	6	13	6	2	1	4	6	246-1	415	1630	1662	4572
≥11	148	75	46	17	12	10	4	2	5	1		1					144-1	321	735	746	4554
≥ 7	102	48	12	5	4	1	1										72-1	173	287	289	4545
≥ 4	72	7	1		1												42-1	81	94	94	4545
																	30-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

16 — 47.1N 161.2E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-4	8	2291	5282	5288
≥64																8	SEA-3				
≥48	3	2					1								1	39	SEA-2	46	3600	5124	5207
≥41	5	6	10	3	1	3	3	1	4	4	4	2	2	1	3	68	SEA-1	120	3275	4475	4737
≥34	19	20	14	12	10	11	6	4	9	5	5	4	7	6	6	84	1152-1	223	3407	3977	4625
≥28	47	28	39	21	24	18	8	8	14	13	3	9	10	9	7	71	846-1	329	3083	3367	4579
≥22	61	52	55	33	28	29	14	19	11	15	13	12	9	9	10	23	330-1	393	2465	2570	4560
≥17	125	89	63	39	25	25	10	13	9	8	1	11	2	3	3	9	294-1	435	1681	1727	4553
≥11	149	90	31	22	10	8	6	2	3	2	1	1		1		1	156-1	323	766	776	4550
≥ 7	110	40	16	11	2	3				1							120-1	183	320	323	4545
≥ 4	73	14	2	1													60-1	90	111	111	4545
																	24-1	MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

17 — 45.8N 139.3E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-6	6	2208	4811	4812
≥64																6	SEA-5				
≥48																12	SEA-4				
≥41	3	1	1	1						2			1		1	34	SEA-3	12	2427	5018	5036
≥34	1	4	1			1	2	4	1	4	1	1	5	4	2	63	2100-1	44	3449	5162	5254
≥28	21	11	8	7	1	9	8	6	8	7	8	11	5	9	8	75	1062-1	94	3631	4609	4894
≥22	48	29	21	25	20	20	17	14	18	12	8	18	14	4	7	49	690-1	202	3539	3968	4633
≥17	72	49	46	45	31	21	23	15	15	11	8	10	5	6	3	23	348-1	324	3017	3233	4586
≥11	99	99	52	28	30	15	11	7	5	4	2	3	2	1	2	3	294-1	383	2267	2394	4555
≥ 7	126	70	41	15	8	4	2	4	1	1	1				1		162-1	363	1215	1251	4549
≥ 4	101	50	32	12	4	3	2	3	1	1					1		90-1	274	604	611	4545
																	90-1	210	455	462	4545
																		MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

19 — 44.3N 177.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	11	2647	5162	5170
≥64	1						3	1		2					1	10	SEA-4				
≥48		1	4	2	1	1											SEA-3	1	2	41	1638-1	59	3356	5114	5229
≥41	4	10	2	4	2	5	2	1	5	4	5	2	2	2	5	66	1044-1	121	3587	4785	5082
≥34	25	16	12	6	7	13	9	10	10	13	4	4	10	7	8	74	846-1	228	3424	3987	4725
≥28	69	32	34	18	17	16	14	14	16	14	15	10	8	8	6	50	432-1	343	2901	3216	4612
≥22	87	63	45	36	29	20	20	16	18	12	9	6	7	4	3	23	288-1	398	2188	2308	4564
≥17	116	65	50	35	19	20	21	12	4	11	4	2	2	2		12	150-1	373	1485	1549	4552
≥11	129	75	39	23	14	6	5	1	1	2	1		1				78-1	288	681	685	4548
≥ 7	111	37	14	9	2	2											36-2	175	285	285	4546
≥ 4	65	11															12-11	76	87	87	4545
																		MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

20 — 44.2N 152.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	SEA-5	5	1840	4566	4566
≥64																5	SEA-4				
≥48	4	2								2			1	1		30	SEA-3				
≥41	8		2		2	2	1	1	1	2	4	2	3	3	1	47	SEA-2	40	2763	4774	4838
≥34	17	9	11	14	9	7	5	11	5	5	4	4	11	8	4	71	SEA-1	79	3382	4802	4986
≥28	36	35	28	26	22	16	24	10	9	10	6	13	10	5	2	54	1158-1	195	3852	4315	4862
≥22	82	57	54	26	18	28	18	9	9	7	16	8	4	4	2	35	1290-1	306	3318	3543	4693
≥17	98	65	29	32	28	27	12	7	7	9	2	4	4	6	3	14	564-1	377	2435	2569	4679
≥11	84	56	38	22	24	11	4	6	1	2		3					174-1	347	1557	1637	4573
≥ 7	78	35	23	9	3	2			1	1							72-3	251	725	757	4549
≥ 4	61	16	1	2		1											60-1	152	299	315	4546
																	42-1	81	111	112	4545
																		MAX	TE	T	TH

HOURS INTERVAL BETWEEN EVENTS

FALL

2 — 59.4N 172.0W

WIND SPEED	SEA- 5	6	2201	4927	4929
	SEA- 1	21	2836	5053	5092
	1224- 1	48	3392	4529	4689
	1158- 1	71	3293	4224	4667
	750- 1	75	3172	3723	4717
	318- 1	48	2512	2812	4617
	252- 1	19	1841	1916	4591
	126- 1	3	827	846	4545
	72- 1		335	341	4545
	18- 5		106	107	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

3 — 58.5N 151.6W

WIND SPEED	SEA- 5	6	2186	4912	4914
	SEA- 3	11	2866	5333	5346
	1800- 1	28	2861	5135	5205
	1134- 1	66	3917	4647	4907
	582- 1	83	3595	3973	4654
	444- 1	53	2886	3129	4571
	222- 1	24	2131	2273	4559
	138- 1	2	1128	1170	4550
	72- 1		530	540	4546
	36- 1		206	212	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

5 — 56.8N 141.9W

WIND SPEED	SEA- 5	5	1840	4566	4566
	SEA- 5	18	3565	5811	5840
	SEA- 1	37	3974	5313	5440
	1398- 1	65	3831	4627	4991
	582- 1	68	3458	3963	4735
	396- 1	58	2869	3132	4660
	330- 1	30	2122	2288	4609
	108- 1	2	1140	1191	4557
	54- 1		504	520	4545
	36- 2		187	188	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

6 — 54.9N 167.1W

WIND SPEED	SEA- 4	5	1833	4570	4571
	SEA- 2	21	3376	5468	5509
	SEA- 1	48	3382	4809	4937
	1242- 1	69	3550	4317	4688
	438- 2	67	3226	3779	4632
	282- 1	43	2641	2881	4595
	276- 1	14	1815	1901	4569
	108- 1	1	866	909	4550
	60- 1		359	378	4545
	36- 2		127	128	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

8 — 52.0N 172.9E

WIND SPEED	SEA- 5	10	2563	5276	5292
	SEA- 1	35	3368	4722	4816
	SEA- 1	72	3675	4571	4827
	618- 1	81	3625	4055	4692
	396- 1	70	3136	3473	4642
	372- 1	34	2448	2601	4613
	132- 1	10	1761	1789	4569
	102- 1	2	833	845	4558
	78- 1		370	373	4546
	24- 2		126	127	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

9 — 51.7N 158.8E

WIND SPEED	SEA- 4	7	2253	5268	5274
	SEA- 1	27	3236	5432	5479
	1404- 1	73	3589	4934	5091
	1050- 1	140	3657	4442	4819
	810- 1	234	3294	3851	4648
	360- 1	332	2838	3042	4629
	204- 1	381	2023	2103	4574
	108- 1	307	950	964	4560
	60- 2	202	419	420	4547
	30- 2	109	159	160	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

11 — 51.3N 158.8W

WIND SPEED	SEA- 5	8	2380	4920	4925
	SEA- 1	24	2407	4777	4825
	SEA- 1	77	3359	4716	4884
	840- 1	179	3631	4334	4810
	426- 1	323	3204	3561	4677
	312- 1	412	2376	2498	4596
	210- 1	382	1527	1587	4562
	138- 1	266	667	683	4550
	48- 1	171	304	304	4545
	18- 3	81	100	100	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

12 — 50.9N 145.6W

WIND SPEED	SEA- 5	6	1883	4563	4566
	SEA- 1	24	3095	5486	5553
	SEA- 1	58	4044	5158	5387
	1404- 1	79	3610	4207	4834
	732- 1	55	3028	3289	4609
	420- 1	31	2100	2260	4566
	282- 1	7	1315	1394	4553
	102- 1	1	585	601	4548
	42- 2		243	244	4545
	18- 1		73	73	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

14 — 49.3N 174.1E

WIND SPEED	SEA- 4	11	2985	5425	5444
	SEA- 1	61	3397	4915	5059
	1386- 1	125	3558	4513	4830
	552- 1	246	3498	3989	4700
	270- 1	340	3139	3308	4612
	246- 1	410	2372	2464	4592
	144- 1	415	1630	1662	4572
	72- 1	321	735	746	4554
	42- 1	173	287	289	4545
	30- 1	81	94	94	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

15 — 49.0N 128.4W

WIND SPEED	SEA- 6	6	2208	4860	4861
	SEA- 3	26	3764	5888	5922
	1176- 1	67	3311	5014	5153
	978- 1	143	3732	4606	4993
	708- 1	217	3430	3982	4725
	504- 1	312	2853	3193	4584
	258- 1	354	2228	2357	4577
	120- 3	331	1208	1260	4555
	78- 2	229	574	598	4545
	42- 1	138	228	230	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

17 — 45.8N 139.3E

WIND SPEED	SEA- 6	6	2208	4811	4812
	SEA- 3	12	2427	5018	5036
	2100- 1	44	3449	5162	5254
	1062- 1	94	3631	4609	4894
	690- 1	202	3539	3968	4633
	348- 1	324	3017	3233	4586
	294- 1	383	2267	2394	4555
	162- 1	363	1215	1251	4549
	90- 1	274	604	611	4545
	90- 1	210	455	462	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

18 — 45.6N 144.2W

WIND SPEED	SEA- 5	6	1951	4646	4649
	SEA- 2	28	3160	5505	5560
	SEA- 1	87	3877	5104	5278
	1314- 1	189	3731	4355	4891
	648- 1	294	3243	3606	4749
	384- 1	344	2365	2495	4566
	318- 1	313	1490	1588	4552
	84- 1	243	705	725	4545
	42- 5	149	308	308	4548
	30- 1	80	107	107	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

20 — 44.2N 152.7W

WIND SPEED	SEA- 5	5	1840	4566	4566
	1518- 1	40	2763	4774	4838
	1158- 1	79	3382	4802	4986
	1290- 1	195	3852	4315	4862
	576- 1	306	3318	3543	4693
	564- 1	377	2435	2569	4679
	174- 1	347	1557	1637	4573
	72- 3	251	725	757	4549
	60- 1	152	299	315	4546
	42- 1	81	111	112	4545

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

21 — 43.7N 128.7W

WIND SPEED	SEA- 5	6	2143	4869	4870
	SEA- 1	19	3086	5507	5540
	1326- 1	36	3156	5074	5191
	750- 1	55	3397	4718	5034
	660- 1	67	3382	4153	4809
	450- 1	62	2978	3329	4645
	438- 1	41	2324	2479	4566
	138- 1	7	1330	1344	4553
	66- 1		606	611	4548
	36- 2		201	201	4546

HOURS INTERVAL BETWEEN EVENTS: 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

FALL

WIND SPEE

22 — 42.8N 167.5W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48	1				1		1			1				1		23	SEA- 3	28	2878	5138	5181
≥41	4	2	2	2	1	1	3	3			1	1	2	2	43	1692- 1	67	3449	5006	5160	
≥34	22	8	8	7	11	7	5	4	8	2	4	5	3	4	3	65	1380- 1	166	3550	4249	4707
≥28	37	38	19	16	16	9	9	8	14	11	5	6	3	9	6	66	978- 1	272	3115	3575	4590
≥22	92	49	46	29	21	17	26	14	17	12	10	2	7	3	4	37	264- 1	386	2472	2654	4558
≥17	98	69	46	35	32	23	12	14	12	10	4	3	4	2	2	12	186- 1	378	1663	1738	4553
≥11	93	68	45	25	14	12	6	4	2	1	2	1			1		90- 1	274	757	821	4546
≥ 7	107	39	28	10	5	3	1		1								54- 1	194	368	387	4546
≥ 4	71	20	5	1													24- 1	97	130	133	4545

HOURS INTERVAL BETWEEN EVENTS

23 — 42.4N 172.1E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																10	SEA- 5	10	2873	5412	5421
≥48		1	1	1	2	1		1	1			2	3	1		27	SEA- 2	41	3460	5458	5528
≥41	8	2	4	4	1	5	1	1	3		3	2	2	1	2	58	1440- 1	97	3348	4638	4841
≥34	16	23	14	10	6	9	7	8	7	4	8	8	6	7	4	74	888- 1	211	3640	4170	4736
≥28	47	43	28	19	16	17	17	10	11	13	12	5	10	9	9	61	438- 1	327	3231	3509	4647
≥22	86	60	42	47	22	30	21	11	17	12	11	12	4	7	4	31	246- 1	417	2470	2602	4591
≥17	118	69	59	33	34	17	17	15	7	4	10	6	3	3	2	10	162- 1	407	1674	1748	4550
≥11	117	101	44	23	18	10	4	3	6				1	1			84- 1	328	826	863	4545
≥ 7	131	45	14	5	4	4	2	2									48- 2	207	357	359	4545
≥ 4	68	8	2	2													24- 2	80	98	98	4545

HOURS INTERVAL BETWEEN EVENTS

25 — 40.2N 131.2E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4565	4565
≥48	1															5	SEA- 5	6	1841	4779	4781
≥41	1															8	SEA- 6	9	2714	5152	5167
≥34	1	1				1					1					30	SEA- 1	34	3679	5093	5161
≥28	4	3	1		2	2	3	2	2	2	1	3	1	1	3	56	1386- 1	86	3558	4549	4756
≥22	24	9	4	6	2	1	5	9	4	3	7	7	4	6	3	84	1122- 1	178	3535	4069	4641
≥17	29	21	20	6	14	9	12	11	12	11	14	11	6	9	8	72	432- 1	265	3186	3461	4578
≥11	71	52	36	30	33	32	27	14	8	12	8	7	5	6	4	26	270- 1	371	2195	2304	4548
≥ 7	132	79	57	38	28	8	12	6	5	5	4	4	1	2	3	6	144- 1	390	1315	1351	4544
≥ 4	123	71	38	19	7	8	9	5	3	3		2	1	1	1	3	114- 1	294	818	843	4544

HOURS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																14	SEA- 5	14	3234	5361	5374
≥41	1	1							1				1	1		26	SEA- 1	31	3591	5166	5217
≥34	3	4	2		1		2	2	3	2		5	2	3	4	67	804- 1	100	3741	4520	4713
≥28	19	9	7	9	10	8	5	11	3	3	4	7	7	5	4	89	666- 1	200	3569	4145	4669
≥22	51	32	38	20	25	10	16	16	18	15	11	8	7	8	5	65	384- 1	345	3146	3441	4585
≥17	83	72	47	47	42	30	28	22	19	15	12	5	2	4	5	24	180- 1	457	2464	2611	4564
≥11	151	98	62	40	27	23	12	9	4	1	3	1	2	1	2	4	168- 1	440	1362	1403	4545
≥ 7	155	97	30	22	11	6	1	1	1								54- 1	324	642	651	4545
≥ 4	124	30	11	2													24- 2	167	225	226	4545

HOURS INTERVAL BETWEEN EVENTS

28 — 36.1N 123.8W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																6	SEA- 5	6	2017	4565	4566
≥41											1					9	SEA- 5	10	2504	5060	5071
≥34										2		1				21	SEA- 3	24	3102	5352	5396
≥28	11	1	3	3	3	1	4		1	1	1	1		1		37	1638- 1	72	3130	4737	4910
≥22	17	16	6	5	9	2	7	4	4	1	3	1	4	2	4	70	810- 1	155	3362	4188	4714
≥17	48	38	24	11	16	14	11	10	12	6	6	4	10	4	6	63	630- 1	283	3130	3490	4616
≥11	98	63	44	25	20	22	18	17	13	5	8	11	2	2	5	29	198- 1	382	2057	2160	4563
≥ 7	125	63	40	32	22	18	15	6	1	4	2	1	1	1		3	102- 3	334	1031	1044	4545
≥ 4	121	45	26	14	4	2		2									48- 2	214	393	395	4545

HOURS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																6	SEA- 5	6	2095	4821	4823
≥48									1							12	SEA- 5	13	2583	5153	5168
≥41		1					1				1					28	1980- 1	31	2833	5011	5070
≥34	3	6	6	6	1	2	4	2	2	3	3	4	1		1	47	1080- 1	91	3297	4645	4848
≥28	26	23	11	8	7	4	6	8	6	4	5	3	2	2	1	64	1182- 1	180	3540	4246	4777
≥22	46	44	20	23	18	8	14	16	9	8	5	7	8	6	7	64	480- 1	303	3155	3437	4619
≥17	87	47	38	32	32	15	27	8	15	7	7	8	5	4	3	41	228- 1	376	2420	2506	4568
≥11	111	82	39	39	25	23	10	7	5	7	4	3	3	1	1	2	156- 1	362	1244	1272	4550
≥ 7	120	77	34	17	5	3	3		2	1							60- 1	262	536	538	4545
≥ 4	91	23	4	6	1												30- 1	125	178	178	4545

HOURS INTERVAL BETWEEN EVENTS

31 — 35.6N 155.2W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4565	4565
≥48																10	SEA- 4	10	2696	5362	5367
≥41	1	1	1			1	1	2	1		2		2			27	SEA- 2	39	2995	5203	5253
≥34	7	3	4	2	2	3	1	2	3		1		1	1	1	40	1272- 1	70	3290	4861	5027
≥28	20	15	8	11	5	6	4	4	2	4	4	1	3	2	1	64	1020- 1	154	3390	4332	4797
≥22	32	31	19	11	6	13	11	11	7	9	11	2	5	4	2	71	486- 1	245	3281	3598	4676
≥17	61	43	25	21	30	21	16	14	8	7	6	5	6	5	4	46	342- 1	318	2514	2712	4584
≥11	99	51	46	46	34	18	11	4	9	5	1	4	4	1	5	6	180- 1	344	1378	1444	4551
≥ 7	129	55	35	17	10	9	4	2	3			3					72- 3	258	614	635	4544
≥ 4	85	29	11	4	3	1											36- 1	133	213	224	4544

HOURS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																8	SEA- 5	8	2604	5162	5167
≥41		1	1					2	1				1			11	SEA- 3	17	2335	4963	4986
≥34	3	1	1	3			2	2		2	1					27	1722- 1	42	3046	5104	5202
≥28	12	8	7	4	3	5	6	3	2		2		4		2	49	1014- 1	107	3518	4636	4957
≥22	27	16	9	17	10	9	7	3	5	5	6	5	6	1	2	78	558- 1	207	3584	4020	4831
≥17	54	29	25	18	23	20	7	12	10	6	8	10	6	3	7	55	372- 1	293	2787	3108	4674
≥11	81	35	41	39	22	13	17	8	9	7	9	3		1	3	21	234- 1	309	1612	1690	4574
≥ 7	105	68	39	28	12	7	5	1	5	1	2		1	1			84- 1	275	719	740	4552
≥ 4	73	44	10	3	4		1										42- 1	135	230	234	4549

HOURS INTERVAL BETWEEN EVENTS

34 — 34.2N 155.1E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																6	SEA- 6	6	2208	4996	4998
≥41	1															7	SEA- 6	8	2308	5028	5034
≥34				1	1				1							23	SEA- 2	26	3357	5211	5246
≥28	5	1	3	1	3	3	4			2	1	2	3	1	2	54	1062- 1	85	3394	4559	4731
≥22	21	15	10	11	14	9	7	1	8	6	3	10	8	7	4	84	768- 1	218	3515	4060	4664
≥17	48	33	34	22	19	22	26	21	16	12	13	10	11	12	3	51	342- 1	353	3014	3241	4578
≥11	117	80	71	45	36	22	23	16	15	3	2	9	4	3	4	3	144- 1	453	1777	1852	4548
≥ 7	143	109	44	36	16	7	2	4	1			1					72- 1	359	818	833	4545
≥ 4	126	41	15	4			1										42- 1	187	276	280	4545

HOURS INTERVAL BETWEEN EVENTS

35 — 34.2N 183.8E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4789	4794
≥41																8	SEA- 5	8	2377	5081	5090
≥34	2			1		1				1		1	1	1		23	2148- 1	30	2997	5121	5177
≥28	11	2	4	7	3	3		4	1	2	4	6	1		1	53	1170- 1	102	3382	4453	4673
≥22	40	17	13	25	17	14	10	10	10	10	5	4	10	9	9	63	756- 1	266	3265	3832	4581
≥17	71	39	44	33	33	23	14	20	19	12	8	4	9	4	5	47	330- 1	385	2746	2957	4560
≥11	124	93	57	37	34	23	20	5	9	5	3	4		3	2	7	132- 1	426	1528	1597	4555
≥ 7	136	76	41	21	15	4	3	1	1			2					72- 2	300	656	676	4547
≥ 4	111	33	7	2	3		1										42- 1	157	228	232	4545

HOURS INTERVAL BETWEEN EVENTS

37 — 32.9N 119.4W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4564	4564
≥48																5	SEA- 5	5	1840	4564	4564
≥41																5	SEA- 5	5	1840	4564	4564
≥34																5	SEA- 5	5	1840	4564	4564
≥28	1															14	SEA- 2	15	2840	5230	5246
≥22	7	4	3	2		1	1	3		1	3		1	1	2	43	1650- 1	72	3058	4714	4873
≥17	24	19	11	5	6	5	6	5	7	4	2	3	2	5	3	61	1134- 1	168	3279	4251	4753
≥11	86	54	31	21	16	15	21	20	10	18	9	4	4	3	7	44	300- 1	363	2604	2808	4573
≥ 7	179	77	54	23	24	10	12	12	2	7	3	2	3		1	7	120- 1	412	1267	1325	4548
≥ 4	143	61	35	18	10	8	3	5	3	1	1					1	102- 1	289	666	680	4547

HOURS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																9	SEA- 4	9	2042	4828	4835
≥28	3		1													21	SEA- 1	25	3042	5117	5172
≥22	9	1	3	3	1	1	2	1	2	5	1	1		1	1	51	804- 1	83	3266	4547	4790
≥17	36	15	15	9	9	9	6	7	8	4	5	5	4	2	6	72	666- 1	212	3304	3850	4665
≥11	74	31	21	28	21	19	13	11	9	10	8	9	4	7	2	43	276- 1	310	2300	2452	4586
≥ 7	110	44	47	28	25	19	10	10	9	6	8	4	1	2	1	3	132- 1	327	1229	1274	4548
≥ 4	123	48	26	14	8	7	2	1									48- 1	229	457	469	4545

HOURS INTERVAL BETWEEN EVENTS

40 — 29.6N 165.0W

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41	1															11	SEA- 2	12	2257	4730	4739
≥34	1															17	SEA- 2	18	2542	4784	4813
≥28	7	3		1	2	2	2			1	1				2	35	1830- 1	56	2891	4541	4675
≥22	33	9	14	10	4	8	5	2	1	4	2	2		3	4	65	780- 1	166	3322	4170	4707
≥17	44	21	21	15	14	7	7	10	12	7	6	4	3	7	4	69	432- 1	251	3007	3379	4627
≥11	76	32	49	32	23	14	18	17	7	7	12	8	5	4	5	22	168- 2	331	1888	1976	4554
≥ 7	111	61	39	23	22	10	8	4	11	2	2	3			1	2	120- 1	299	928	955	4548
≥ 4	96	40	13	7	6	3	2										42- 2	187	305	315	4548

HOURS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED (kn)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41														1		6	SEA- 4	7	1869	4595	4597
≥34	1															8	SEA- 3	10	2141	4719	4725
≥28	2								2	1					1	18	SEA- 2	24	3202	5417	5463
≥22	10	1	4	3	1	3	1	1		1	1				1	50	SEA- 1	77	3265	4543	4769
≥17	33	12	11	4	5	9	5	7	1	6	6	4	6	2	3	80	678- 1	200	3415	3963	4671
≥11	83	47	31	24	19	25	23	19	12	21	8	10	8	6	5	26	222- 1	367	2299	2457	4574
≥ 7	131	72	45	28	24	21	11	7	3	4	3	2	1	1		3	186- 1	346	1121	1155	4547
≥ 4	118	52	28	14	5	2	1		1								54- 1	221	415	420	4545

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

23 — 42.4N 172.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																10	SEA- 5	10	2873	5412	5421
≥48		1	1	1	2	1		1	1				2	3	1		27	SEA- 2	41	3460	5458	5528
≥41	8	2	4	4	1	5	1	1	3		3	2	2	1	2	58	1440- 1	97	3348	4638	4841
≥34	16	23	14	10	6	9	7	8	7	4	8	8	6	7	4	74	888- 1	211	3640	4170	4736
≥28	47	43	28	19	16	17	17	10	11	13	12	5	10	9	9	61	438- 1	327	3231	3509	4647
≥22	86	60	42	47	22	30	21	11	17	12	11	12	4	7	4	31	246- 1	417	2470	2602	4591
≥17	118	69	59	33	34	17	17	15	7	4	10	6	3	3	2	10	162- 1	407	1674	1748	4550
≥11	117	101	44	23	18	10	4	3	6				1	1			84- 1	328	826	863	4545
≥ 7	131	45	14	5	4	4	2	2									48- 2	207	357	359	4545
≥ 4	68	8	2	2													24- 2	80	98	98	4545

HOURS INTERVAL BETWEEN EVENTS

24 — 41.0N 134.9W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																6	SEA- 5	6	2155	4881	4882
≥48																12	SEA- 4	12	2560	5176	5189
≥41	2	2	2		1	1	2	2			3	1				31	1506- 1	47	3287	5240	5319
≥34	9	2	5	5	3	2	5			4	4	3	1	1	1	50	1506- 1	95	3600	4886	5133
≥28	13	11	14	15	11	5	8	13	9	8	4	4	3	5	5	65	786- 1	193	3413	4187	4810
≥22	43	31	27	23	23	19	20	6	10	7	4	6	4	7	3	54	558- 1	287	2941	3379	4720
≥17	57	49	33	24	25	10	13	9	15	13	11	7	4	3	3	39	288- 1	315	2304	2520	4631
≥11	76	63	31	30	18	17	17	9	7	6	4	3	4	3	1	8	138- 1	297	1265	1314	4559
≥ 7	76	52	27	20	15	14	2	1	3	1						1	126- 1	212	580	589	4546
≥ 4	95	21	12	5	2												30- 2	135	203	204	4545

HOURS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																14	SEA- 5	14	3234	5361	5374
≥41	1		1							1				1	1	26	SEA- 1	31	3591	5166	5217
≥34	3	4	2		1		2	2	3	2		5	2	3	4	67	804- 1	100	3741	4520	4713
≥28	19	9	7	9	10	8	5	11	3	3	4	7	7	5	4	89	666- 1	200	3569	4145	4669
≥22	51	32	38	20	25	10	16	16	18	15	11	8	7	8	5	65	384- 1	345	3146	3441	4585
≥17	83	72	47	47	42	30	28	22	19	15	12	5	2	4	5	24	180- 1	457	2464	2611	4564
≥11	151	98	62	40	27	23	12	9	4	1	3	1	2	1	2	4	168- 1	440	1362	1403	4545
≥ 7	155	97	30	22	11	6	1	1	1								54- 1	324	642	651	4545
≥ 4	124	30	11	2													24- 2	167	225	226	4545

HOURS INTERVAL BETWEEN EVENTS

27 — 36.2N 127.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																9	SEA- 5	9	2557	5068	5081
≥34		1		1	1						1	1	1			20	SEA- 1	26	2891	5100	5169
≥28	9	1	3	1	1				3	1	1		1	1	1	39	1710- 1	62	3236	4999	5188
≥22	20	10	4	7	1	5	4	5	6	4	4	6	5	2	1	72	732- 1	156	3481	4236	4800
≥17	51	17	13	18	15	14	9	5	9	14	4	6	9	5	7	66	504- 1	262	3064	3390	4644
≥11	66	42	36	21	24	16	17	18	4	7	10	11	5	8	4	17	246- 1	306	1803	1925	4562
≥ 7	87	46	34	21	26	14	12	9	4	3	2		2	1	2		120- 1	263	905	962	4545
≥ 4	91	37	25	12	9	2	1	1									48- 1	178	360	378	4545

HOURS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																6	SEA- 5	6	2095	4821	4823
≥48							1									12	SEA- 5	13	2583	5153	5168
≥41		1						1				1				28	1980- 1	31	2833	5011	5070
≥34	3	6	6	6	1	2	4	2	2	3	3	4	1		1	47	1080- 1	91	3297	4645	4848
≥28	26	23	11	8	7	4	6	8	6	4	5	3	2	2	1	64	1182- 1	180	3540	4246	4777
≥22	46	44	20	23	18	8	14	16	9	8	5	7	8	6	7	64	480- 1	303	3155	3437	4619
≥17	87	47	38	32	32	15	27	8	15	7	7	8	5	4	3	41	228- 1	376	2420	2506	4568
≥11	111	82	39	39	25	23	10	7	5	7	4	3	3	1	1	2	156- 1	362	1244	1272	4550
≥ 7	120	77	34	17	5	3	3		2	1							60- 1	262	536	538	4545
≥ 4	91	23	4	6	1												30- 1	125	178	178	4545

HOURS INTERVAL BETWEEN EVENTS

30 — 35.7N 176.1E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48							1									9	SEA- 3	10	2269	4921	4933
≥41	2	2				1		1								18	SEA- 4	25	3065	5302	5340
≥34	10	2	1	3	5	3	1	1	2	3	2	2	1		1	49	1716- 1	86	3733	4777	4950
≥28	14	6	13	11	4	7	7	8	6	5	3	6	6	3	2	65	1032- 1	166	3449	4168	4653
≥22	44	24	21	25	19	18	15	9	10	8	4	9	8	10	4	58	564- 1	286	3124	3535	4581
≥17	75	42	44	37	25	20	13	18	13	9	6	7	12	6	5	36	336- 1	368	2485	2718	4557
≥11	123	104	56	32	23	24	17	8	6	3	6	1		3	2	3	138- 2	411	1366	1418	4547
≥ 7	154	71	38	20	9	7	3	2	1		1						72- 1	306	635	640	4547
≥ 4	126	27	9	2							1						72- 1	165	227	227	4545

HOURS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																8	SEA- 5	8	2604	5162	5167
≥41		1	1				2	1								11	SEA- 3	17	2335	4963	4986
≥34	3	1	1	3		2	2		2	1						27	1722- 1	42	3046	5104	5202
≥28	12	8	7	4	3	5	6	3	2		2		4		2	49	1014- 1	107	3518	4636	4957
≥22	27	16	9	17	10	9	7	3	5	6	5	6	6	1	2	78	558- 1	207	3584	4020	4831
≥17	54	29	25	18	23	20	7	12	10	6	8	10	6	3	7	55	372- 1	293	2787	3108	4674
≥11	81	35	41	39	22	13	17	8	9	7	9	3		1	3	21	234- 1	309	1612	1690	4574
≥ 7	105	68	39	28	12	7	5	1	5	1	2		1	1			84- 1	275	719	740	4552
≥ 4	73	44	10	3	4		1										42- 1	135	230	234	4549

HOURS INTERVAL BETWEEN EVENTS

33 — 34.6N 145.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																6	SEA- 6	6	2208	4859	4860
≥41			2													8	SEA- 7	10	2743	5359	5367
≥34	2	2						1								15	SEA- 3	20	2981	5423	5450
≥28	8	1		1	3	1		3				1	1	1	2	54	1446- 1	76	3610	4712	4854
≥22	23	15	7	5	5	3	4	9	7	3	9	8	6	7	4	76	762- 1	191	3465	4103	4628
≥17	52	32	32	22	10	12	16	17	13	20	16	9	14	4	8	55	360- 1	332	3001	3392	4590
≥11	116	71	54	50	26	37	24	21	12	11	7	5	3	5	2	7	222- 1	451	1955	2033	4554
≥ 7	167	90	61	33	16	11	4	4	2						1		90- 1	389	901	912	4546
≥ 4	143	49	19	7			1	1									48- 1	220	341	344	4545

HOURS INTERVAL BETWEEN EVENTS

35 — 34.2N 163.8E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																8	SEA- 5	8	2377	5081	5090
≥34	2				1		1				1		1	1		23	2148- 1	30	2997	5121	5177
≥28	11	2	4	7	3	3		4	1	2	4	6	1		1	53	1170- 1	102	3382	4453	4673
≥22	40	17	13	25	17	14	10	10	10	10	5	4	10	9	9	63	756- 1	266	3265	3832	4581
≥17	71	39	44	33	33	23	14	20	19	12	8	4	9	4	5	47	330- 1	385	2746	2957	4560
≥11	124	93	57	37	34	23	20	5	9	5	3	4		3	2	7	132- 1	426	1528	1597	4555
≥ 7	136	76	41	21	15	4	3	1	1			2					72- 2	300	656	676	4547
≥ 4	111	33	7	2	3		1										42- 1	157	228	232	4545

HOURS INTERVAL BETWEEN EVENTS

36 — 33.7N 123.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																6	SEA- 6	6	2208	4853	4854
≥41																9	SEA- 4	9	2829	5352	5360
≥34	1						1	1								32	1656- 1	35	3299	5308	5382
≥28	5	2	1		1		3		1		1		4	1	1	59	1302- 1	79	3596	4682	4909
≥22	11	2	1	4	4	4	3	8	7	1	7	2	4	3	5	72	930- 1	138	3348	4100	4650
≥17	42	11	13	11	7	6	14	13	10	6	10	10	11	13	7	62	438- 2	246	3102	3439	4611
≥11	67	39	34	27	30	20	26	9	8	14	13	11	3	4	6	19	180- 1	330	1935	2008	4569
≥ 7	105	59	37	26	21	17	8	4	6	6	2	2	1		2	2	108- 1	298	970	1001	4555
≥ 4	93	47	24	16	11	9	3	3	1	2	1			1	1	1	96- 1	213	562	572	4555

HOURS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																9	SEA- 4	9	2042	4828	4835
≥28	3		1													21	SEA- 1	25	3042	5117	5172
≥22	9	1	3	3	1	1	2	1	2	5	1	1		1	1	51	804- 1	83	3266	4547	4790
≥17	36	15	15	9	9	9	6	7	8	4	5	5	4	2	6	72	666- 1	212	3304	3850	4665
≥11	74	31	21	20	21	19	13	11	9	10	8	9	4	7	2	43	276- 1	310	2300	2452	4586
≥ 7	119	44	47	28	25	19	10	10	9	6	8	4	1	2	1	3	132- 1	327	1229	1274	4548
≥ 4	129	48	26	14	8	7	2	1									48- 1	229	457	469	4545

HOURS INTERVAL BETWEEN EVENTS

39 — 29.9N 177.3W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4565	4566
≥41							1									8	SEA- 6	9	2491	5278	5290
≥34	3					1	1									18	SEA- 2	23	2865	5193	5239
≥28	5	3	1	3	1		2	1				1	1			38	1998- 1	56	3741	4946	5102
≥22	23	13	11	6	5	3	2	5	5	4	4	2	10	3	1	63	1140- 1	160	3402	4166	4700
≥17	44	14	16	19	16	11	13	8	12	3	8	8	8	8	3	58	600- 1	249	3062	3412	4603
≥11	78	55	44	30	21	21	16	12	11	6	9	3	4	5	4	26	240- 1	345	1928	2081	4583
≥ 7	113	71	55	33	15	12	11	2	4	3	1	3	2		1		96- 1	329	992	1034	4552
≥ 4	109	47	20	6	4		1	1									48- 1	188	322	338	4545

HOURS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41														1		6	SEA- 4	7	1869	4595	4597
≥34	1													1		8	SEA- 3	10	2141	4719	4725
≥28	2								2	1				1		18	SEA- 2	24	3202	5417	5463
≥22	10	1	4	3	1	3	1	1		1	1			1		50	SEA- 1	77	3265	4543	4769
≥17	33	12	11	4	5	9	5	7	7	6	6	4	6	2	3	80	678- 1	200	3415	3963	4671
≥11	83	47	31	24	19	25	23	19	12	21	8	10	8	6	5	26	222- 1	367	2299	2457	4574
≥ 7	131	72	45	28	24	21	11	7	3	4	3	2	1	1		3	186- 1	346	1121	1155	4547
≥ 4	118	52	28	14	5	2	1		1								54- 1	221	415	420	4545

HOURS INTERVAL BETWEEN EVENTS

42 — 28.8N 139.2W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T*	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																6	SEA- 5	6	2048	4840	4842
≥28	2	2	1						1							16	SEA- 2	22	2727	4974	5004
≥22	11	3	3	1	2		1	1						1	1	31	1854- 1	55	2970	4708	4807
≥17	46	17	7	3	5	2	3	3	3	3	4	3	5	1	1	67	846- 1	173	3138	4041	4671
≥11	84	40	26	19	15	17	15	13	12	12	9	10	12	5	6	35	438- 1	330	2313	2472	4561
≥ 7	98	53	34	30	14	14	12	11	6	3		2	2	4	2	7	144- 1	292	1101	1139	4545
≥ 4	104	41	28	7	7	4	1	1			2						66- 2	195	384	408	4545

HOURS INTERVAL BETWEEN EVENTS

WIND SPEED INTERVALS (Cont'd)

43 — 28.2N 125.9E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4565	4566
≥41	1															9	SEA- 5	10	2313	4864	4873
≥34	1		2				1					1				27	SEA- 1	32	3469	5303	5378
≥28	13	4	4	2		3	1	1	2	3	1	1		1	1	51	1314- 1	88	3165	4451	4765
≥22	38	15	16	6	8	7	6	7	8	4	7	8	8	2	3	61	1308- 1	204	2957	3711	4641
≥17	102	24	20	12	16	12	16	6	8	6	12	9	5	2	5	45	942- 1	300	2470	2715	4617
≥11	101	34	24	17	29	15	14	4	9	6	3	5	2		2	10	300- 1	275	1200	1230	4558
≥ 7	70	38	18	12	9	10	4	5	2					1	1	1	156- 1	171	494	497	4552
≥ 4	60	16	9	10	1	3	1	1					1			1	132- 1	103	232	232	4545

HOURS INTERVAL BETWEEN EVENTS

44 — 27.9N 150.7E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34			1													7	SEA- 6	8	2268	4884	4889
≥28	1		1	1			1									18	SEA- 3	22	3276	5449	5482
≥22	14	3	1	2	1	1	3	1	1		2	1			1	44	1770- 1	75	3298	4593	4791
≥17	22	13	6	4	9	4	4	8	8	5	2	6	4	3	4	80	852- 1	182	3365	3974	4646
≥11	81	41	35	24	27	21	27	21	11	16	9	7	10	6	2	34	252- 1	372	2423	2606	4566
≥ 7	141	66	66	42	16	19	15	10	7	4	3	5	1	2		1	102- 1	398	1272	1338	4550
≥ 4	159	61	20	15	5	5	2	1	1	1							60- 1	270	497	519	4548

HOURS INTERVAL BETWEEN EVENTS

46 — 26.1N 170.8E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																5	SEA- 5	5	1840	4563	4566
≥28		1										1				12	SEA- 4	14	2899	5256	5287
≥22	14	3	3		1		2	1	1	2			3	1		41	1248- 1	72	3489	4845	5041
≥17	32	11	13	3	6	5	5	8	3	7	3	3	5	5	2	68	624- 1	179	3312	4018	4727
≥11	76	40	27	24	16	24	18	15	15	8	2	12	4	5	4	40	294- 1	330	2297	2448	4564
≥ 7	117	46	45	33	23	8	21	8	3	6	3	2	1	3		8	138- 1	327	1199	1216	4557
≥ 4	112	54	20	17	6	3	2	2	1								54- 1	217	435	440	4545

HOURS INTERVAL BETWEEN EVENTS

47 — 25.0N 119.4W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34	1															5	SEA- 5	6	1841	4565	4566
≥28	1															5	SEA- 5	6	1841	4565	4566
≥22	1															13	SEA- 3	14	2655	5133	5154
≥17	25	9	3	7	4	1	3	2	1	1	4	2	4	1	1	69	972- 1	137	3635	4436	4722
≥11	157	36	49	25	24	15	17	12	7	11	9	5	6	4	9	42	318- 1	428	2496	2617	4556
≥ 7	125	51	23	18	21	12	9	7	5	5	2	4	1	6		7	126- 2	296	1062	1085	4545
≥ 4	86	27	24	7	3	5	4	3	1	2		1		1			84- 1	164	392	398	4545

HOURS INTERVAL BETWEEN EVENTS

49 — 22.6N 128.0E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																7	SEA- 5	7	2127	4714	4716
≥41		2														9	SEA- 5	11	2570	5154	5163
≥34	7															20	SEA- 5	27	3320	5846	5900
≥28	20	3	4	4	2	1	1	1	2	1		1	2	1	2	52	SEA- 1	97	3479	4925	5200
≥22	57	15	17	4	7	11	10	4	7	5	8	6	6	6	3	66	948- 1	232	3207	3691	4706
≥17	104	23	23	13	18	15	14	12	9	6	7	7	3	4	1	44	666- 1	303	2314	2550	4580
≥11	79	26	29	16	15	12	15	4	8	1	1	4	5	3	2	11	312- 1	231	1134	1184	4550
≥ 7	68	31	15	10	11	9	4	2	2	1	3	2		2		2	120- 1	162	517	517	4545
≥ 4	59	17	9	4	1	2			1								54- 1	93	162	162	4545

HOURS INTERVAL BETWEEN EVENTS

50 — 21.7N 162.7W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																6	SEA- 5	6	1991	4585	4586
≥28	2								1							14	SEA- 4	17	3140	5332	5353
≥22	8	4	8	3	1	1				1			1	1	2	2	46	2046- 1	78	3381	4599	4783
≥17	61	22	12	9	7	5	9	4	6	8	2	6	6	5	4	62	876- 1	228	3341	3883	4719
≥11	135	35	26	25	15	21	11	16	9	8	9	7	6	2	3	27	354- 1	355	1921	2062	4573
≥ 7	126	48	27	27	12	8	16	3	3	1	1	3	2	3	1	2	144- 1	283	864	917	4551
≥ 4	106	34	16	8	3	2		2			2						66- 2	173	319	331	4545

HOURS INTERVAL BETWEEN EVENTS

52 — 19.2N 127.8W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																6	SEA- 6	6	2208	4932	4933
≥34	1															7	SEA- 6	8	2511	5092	5100
≥28	3	4		1	2											17	SEA- 1	27	3320	5401	5456
≥22	20	10	3	5		1	3	1	5	2	1	1	1	2		51	1512- 1	106	3613	4658	4964
≥17	109	32	20	17	15	10	15	8	6	3	7	7	9	4	5	72	474- 1	339	3273	3520	4656
≥11	203	43	34	21	12	10	7	11	5	4	11	2	3		2	6	156- 1	374	1155	1179	4551
≥ 7	95	22	15	5	4	1	2	1	2					1			84- 1	148	284	286	4547
≥ 4	33	9	5	1													24- 1	48	70	70	4545

HOURS INTERVAL BETWEEN EVENTS

53 — 18.5N 120.7E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																8	SEA- 5	8	1995	4721	4724
≥48	1	2	1												1	18	SEA- 5	23	3131	5302	5342
≥41	7	3			1	1			1					1	1	30	SEA- 2	45	3229	5017	5130
≥34	30	12	5	5	3	5		1	3	3	2	3	6	2	3	46	SEA- 1	129	3501	4725	5096
≥28	71	21	21	10	10	8	4	4	4	7	5	7	2	3	6	63	984- 1	246	3231	3801	4722
≥22	118	48	28	22	18	10	10	11	6	9	7	7	6	5	4	42	558- 1	351	2490	2700	4601
≥17	153	51	28	24	6	12	15	9	7	5	7	1	6	7	2	21	324- 1	354	1674	1729	4561
≥11	125	31	25	9	8	15	2	3	3	1	4	1	2	3		5	114- 2	237	715	717	4548
≥ 7	73	20	11	9	5	3	2	1	1	2		1			1		90- 1	129	303	303	4545
≥ 4	41	13	5	1		1											36- 1	61	92	92	4545

HOURS INTERVAL BETWEEN EVENTS

55 — 17.6N 138.5E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48	2															8	SEA- 5	10	2227	4806	4811
≥41	1		1													13	SEA- 3	15	2460	4930	4956
≥34	7	1	1				1		1	1		1				21	SEA- 1	34	2738	4844	4925
≥28	13	2	3	1	2		1		2	1	1		3			42	1332- 1	71	3141	4547	4801
≥22	30	10	14	6	7	1	4	7	3	6	4	2	5	3	2	69	1260- 1	173	3425	4015	4702
≥17	85	42	25	10	8	17	12	10	7	10	10	5	5	8	5	54	570- 1	313	2777	3000	4575
≥11	114	54	25	19	20	13	11	10	4	8	4		3	6	6	15	372- 1	312	1458	1534	4554
≥ 7	92	35	33	17	10	8	10	2	1	3		1	1			2	126- 1	215	618	622	4548
≥ 4	69	13	11	6	3	1											36- 1	103	173	173	4545

HOURS INTERVAL BETWEEN EVENTS

56 — 17.6N 111.5W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																6	SEA- 5	6	1933	4659	4660
≥34																6	SEA- 5	6	1933	4659	4660
≥28																7	SEA- 5	7	2267	4993	4997
≥22	2	1	2	1	1			1					1			19	SEA- 2	28	3044	5018	5071
≥17	20	11	10	6	2	8	3	1	1	1	2	1	3	1	3	55	1674- 1	128	3714	4644	4921
≥11	164	57	41	30	18	15	12	16	15	12	10	11	8	9	1	49	372- 1	468	2964	3047	4610
≥ 7	214	87	57	41	18	14	17	9	7	6		1	1	3	2	5	120- 1	482	1394	1416	4569
≥ 4	155	66	20	6	12	5	1	3	1	2					1	2	120- 1	274	572	578	4545

HOURS INTERVAL BETWEEN EVENTS

58 — 14.5N 127.7E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																4	SEA- 4	4	1472	4562	4562
≥48	1															5	SEA- 4	6	1604	4560	4562
≥41	2															6	SEA- 4	8	1760	4555	4562
≥34	4		1	1												13	SEA- 3	19	2364	5076	5111
≥28	6	2	2						1				1	1		29	SEA- 1	42	3038	5226	5350
≥22	21	10	8	3	3	2	1	3	3	2	2	3	4	3	1	57	954- 1	126	3089	4367	4815
≥17	74	19	16	10	10	5	12	7	4	3	9	6	6	1	2	54	822- 1	238	2764	3500	4631
≥11	126	58	32	14	14	22	12	8	6	7	6	4	2	4	8	29	420- 1	352	1914	2025	4568
≥ 7	122	36	39	15	19	10	4	6	8	4	3	1	1	1		5	138- 1	274	879	912	4541
≥ 4	94	36	14	5	6	4											36- 4	156	282	288	4541

HOURS INTERVAL BETWEEN EVENTS

59 — 14.0N 160.6W

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																6	SEA- 5	6	2014	4565	4566
≥41																6	SEA- 5	6	2013	4563	4566
≥34																6	SEA- 5	6	2013	4563	4566
≥28	3														1	12	SEA- 4	16	2791	5152	5167
≥22	22	3	2		2		1	1	2	1	1			1	1	42	SEA- 1	79	3816	5181	5342
≥17	90	25	17	7	13	9	11	2	6	6	12	3	6	5	6	55	882- 1	273	3208	3885	4798
≥11	160	43	42	17	20	13	10	10	5	10	9	2	4	3	2	21	204- 1	371	1608	1776	4568
≥ 7	129	26	10	10	9	7	2	2	2	3		2				1	90- 1	203	455	496	4546
≥ 4	50	14	6			1											36- 1	71	102	110	4545

HOURS INTERVAL BETWEEN EVENTS

61 — 12.0N 156.7E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34	1															6	SEA- 5	7	2071	4797	4801
≥28																8	SEA- 4	8	2110	4811	4824
≥22	12	6	3	1			1					1			1	30	SEA- 2	55	3486	5053	5156
≥17	57	11	13	12	8	7	9	3	5	2	3	2	3	2	1	60	1332- 1	198	3281	4137	4665
≥11	138	43	45	17	16	10	9	10	10	9	3	5	5		6	32	306- 1	356	1941	2164	4555
≥ 7	116	21	24	12	4	6	2	6	5	2	2		1	1	1	9	222- 1	210	737	756	4547
≥ 4	72	10	14	6	2	3	1	1	2								78- 1	112	232	232	4545

HOURS INTERVAL BETWEEN EVENTS

62 — 4.1N 106.7E

WIND SPEED kn	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	To	TH
≥64																5	SEA- 5	5	1840	4566	4566
≥48																5	SEA- 5	5	1840	4566	4566
≥41																5	SEA- 5	5	1840	4566	4566
≥34																6	SEA- 5	6	2175	4901	4903
≥28																7	SEA- 4	7	1885	4611	4617
≥22	2															9	SEA- 4	11	1915	4629	4652
≥17	4	3		1	2	1					1					9	SEA- 4	21	2047	4584	4651
≥11	7	2	5	1	2		2	2	1			2				21	SEA- 4	45	2589	4856	5046
≥ 7	35	27	26	7	7	4	8	3	1	4	3	1	2	2	6	36	SEA- 1	172	2997	4072	4840
≥ 4	100	33	27	16	20	10	8	4	5	3	4	3	3	3	2	31	846- 1	270	1983	2408	4545

HOURS INTERVAL BETWEEN EVENTS

Cont'd)

FALL

44 — 27.9N 150.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34			1														7	SEA- 6	8	2268	4884	4889
≥28	1	1	1				1										18	SEA- 3	22	3276	5449	5482
≥22	14	3	1	2	1	1	3	1	1		2	1				1	44	1770- 1	75	3298	4593	4791
≥17	22	13	6	4	9	4	4	8	8	5	2	6	4	3	4	80	852- 1	182	3365	3974	4646
≥11	81	41	35	24	27	21	27	21	11	16	9	7	10	6	2	34	252- 1	372	2423	2606	4566
≥ 7	141	66	66	42	16	19	15	10	7	4	3	5	1	2		1	102- 1	398	1272	1338	4550
≥ 4	159	61	20	15	5	5	2	1	1	1							60- 1	270	497	519	4548

HOURS INTERVAL BETWEEN EVENTS

45 — 27.8N 145.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	8	SEA- 4	8	2089	4720	4730
≥28			1					1									17	SEA- 2	19	2546	4802	4848
≥22	23	5	6	2	3	4	2		2					1	2		53	1464- 1	103	3476	4557	4840
≥17	52	19	7	6	5	9	8	6	6	3	5	5	4	6	3	67	834- 1	211	3273	3766	4646
≥11	104	31	28	21	16	16	9	11	8	8	11	9	5	3	3	37	276- 1	320	2037	2223	4554
≥ 7	110	45	40	29	15	9	14	8	5	5	2	1	3	2	4	3	102- 2	295	1037	1062	4545
≥ 4	91	42	18	11	3	2	2	1		1	1						66- 1	172	343	346	4545

HOURS INTERVAL BETWEEN EVENTS

47 — 25.0N 119.4W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34	1																5	SEA- 5	6	1841	4565	4566
≥28	1																5	SEA- 5	6	1841	4565	4566
≥22	1																13	SEA- 3	14	2655	5133	5154
≥17	25	9	3	7	4	1	3	2	1	1	4	2	4	1	1	69	972- 1	137	3635	4436	4722
≥11	157	36	49	25	24	15	17	12	7	11	9	5	6	4	9	42	318- 1	428	2496	2617	4556
≥ 7	125	51	23	18	21	12	9	7	5	5	2	4	1	6		1	126- 2	296	1062	1085	4545
≥ 4	86	27	24	7	3	5	4	3	1	2		1		1			84- 1	164	392	398	4545

HOURS INTERVAL BETWEEN EVENTS

48 — 23.5N 151.8W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	5	SEA- 5	5	1840	4566	4566
≥28	2	1							1								11	SEA- 2	15	2425	4974	4996
≥22	7	4	6	2	5	1				3	1		2				39	2040- 1	70	3597	4795	4959
≥17	52	27	16	8	6	9	3	2	7	3	4	2	1	3	6	65	852- 1	214	3174	3880	4656
≥11	129	44	27	13	10	13	16	13	7	8	7	4	4	5	3	32	390- 1	335	1927	2064	4567
≥ 7	100	29	24	16	18	11	4	5	6	4	3	2	1	3		4	234- 1	230	822	862	4550
≥ 4	71	26	12	10	5	6	2			1	2						66- 2	135	306	315	4545

HOURS INTERVAL BETWEEN EVENTS

50 — 21.7N 162.7W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	6	SEA- 5	6	1991	4585	4586
≥28	2								1								14	SEA- 4	17	3140	5332	5353
≥22	8	4	8	3	1	1			1			1	1	2	2	46	2046- 1	78	3381	4599	4783
≥17	61	22	12	9	7	5	9	4	6	8	2	6	6	5	4	62	876- 1	228	3341	3883	4719
≥11	135	35	26	25	15	21	11	16	9	8	9	7	6	2	3	27	354- 1	355	1921	2062	4573
≥ 7	126	48	27	27	12	8	16	3	3	1	3	2	3	1	1	2	144- 1	283	864	917	4551
≥ 4	106	34	16	8	3	2		2			2						66- 2	173	319	331	4545

HOURS INTERVAL BETWEEN EVENTS

51 — 20.5N 177.1W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	7	SEA- 5	7	2369	5095	5099
≥28	2																14	SEA- 5	16	3565	5972	5997
≥22	12	4	4		4	3	1			2	1	1					40	SEA- 1	72	3907	5097	5309
≥17	49	17	10	10	8	3	6	3	1	2	4	2	4	1			67	948- 1	187	3212	3898	4725
≥11	110	35	26	25	17	17	15	9	7	3	10	6	9	3	6	26	366- 1	324	1921	2109	4615
≥ 7	97	39	26	16	10	6	6	4	6	5	1	2		2		3	102- 2	223	694	742	4552
≥ 4	71	29	12	2	3	1	2										42- 2	120	208	220	4545

HOURS INTERVAL BETWEEN EVENTS

53 — 18.5N 120.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																8	SEA- 5	8	1995	4721	4724
≥48	1	2	1												1	1	18	SEA- 5	23	3131	5302	5342
≥41	7	3				1	1		1					1	1		30	SEA- 2	45	3229	5017	5130
≥34	30	12	5	5	3	5		1	3	3	2	3	6	2	3	46	SEA- 1	129	3501	4725	5096
≥28	71	21	21	10	10	8	4	4	4	7	5	7	2	3	6	63	984- 1	246	3231	3801	4722
≥22	118	48	28	22	18	10	10	11	6	9	7	7	6	5	4	42	558- 1	351	2490	2700	4601
≥17	153	51	28	24	6	12	15	9	7	5	7	1	6	7	2	21	324- 1	354	1674	1729	4561
≥11	129	31	25	9	8	15	2	3	3	1	4	1	2	3		5	114- 2	237	715	717	4548
≥ 7	73	20	11	9	5	3	2	1	1	2		1			1		90- 1	129	303	303	4545
≥ 4	41	13	5	1		1											36- 1	61	92	92	4545

HOURS INTERVAL BETWEEN EVENTS

54 — 16.2N 166.6E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48		1															6	SEA- 6	7	2210	4754	4757
≥41	2																7	SEA- 6	9	2555	5097	5109
≥34	2	1															12	SEA- 4	15	2533	4990	5022
≥28	2	5			1												22	SEA- 1	30	2721	5002	5085
≥22	33	9	4	7	3	3	4	2	2		2	5	1	2			52	1608- 1	129	3711	4768	5159
≥17	84	25	26	13	13	5	4	4	13	2	6	5	4	3	7	52	1032- 1	266	3003	3593	4801
≥11	104	37	29	13	20	16	6	4	6	6	5	5	3	5	2	20	240- 1	281	1447	1575	4568
≥ 7	72	26	27	13	13	11	4	3		2	1		2	1		1	102- 1	176	528	546	4550
≥ 4	59	19	6	2	1												30- 1	87	128	133	4545

HOURS INTERVAL BETWEEN EVENTS

56 — 17.6N 111.5W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	6	SEA- 5	6	1933	4659	4660
≥34																	6	SEA- 5	6	1933	4659	4660
≥28																	7	SEA- 5	7	2267	4993	4997
≥22	2	1	2	1	1			1						1			19	SEA- 2	28	3044	5018	5071
≥17	20	11	10	6	2	8	3	1	1	1	2	1	3	1	1	3	55	1674- 1	128	3714	4644	4921
≥11	164	57	41	30	18	15	12	16	15	12	10	11	8	9	1	49	372- 1	468	2964	3047	4610
≥ 7	214	87	57	41	18	14	17	9	7	6		1	1	3	2	5	120- 1	482	1394	1416	4569
≥ 4	155	66	20	6	12	5	1	3	1	2					1	2	120- 1	274	572	578	4545

HOURS INTERVAL BETWEEN EVENTS

57 — 14.9N 147.9E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34	2																10	SEA- 5	12	2552	4979	4997
≥28	6		2	1		1		1			1	1	2				29	SEA- 2	44	2861	4636	4715
≥22	36	8	4	3	9	6	7	4	3	6	4	2	3	2	2	2	53	1170- 1	152	3308	4572	4893
≥17	121	24	33	16	21	13	13	4	11	3	8	2	9	5	4	53	876- 1	340	3112	3588	4624
≥11	209	41	55	25	30	13	20	5	6	6	5	7	7	3	2	17	222- 1	451	1747	1814	4550
≥ 7	161	52	30	6	10	11	4	6	3	1	5				1		90- 1	290	678	687	4546
≥ 4	68	16	10	6	1	1											36- 1	102	165	167	4545

HOURS INTERVAL BETWEEN EVENTS

59 — 14.0N 160.6W

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	6	SEA- 5	6	2014	4565	4566
≥41																	6	SEA- 5	6	2013	4563	4566
≥34																	6	SEA- 5	6	2013	4563	4566
≥28	3																12	SEA- 4	16	2791	5152	5167
≥22	22	3	2		2		1	1	2	1	1					1	42	SEA- 1	79	3816	5181	5342
≥17	90	25	17	7	13	9	11	2	6	6	12	3	6	5	6	55	882- 1	273	3208	3885	4798
≥11	180	43	42	17	20	13	10	10	5	10	9	2	4	3	2	21	204- 1	371	1608	1776	4568
≥ 7	129	26	10	10	9	7	2	2	2	3		2			1		90- 1	203	455	496	4546
≥ 4	50	14	6			1											36- 1	71	102	110	4545

HOURS INTERVAL BETWEEN EVENTS

60 — 12.2N 112.6E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41	2	1	1										1				7	SEA- 4	12	2239	4965	4975
≥34	3	1										1					11	SEA- 4	16	2226	4745	4795
≥28	5	2	3		1	1	3		1	1				1			25	SEA- 2	43	3045	5328	5477
≥22	39	15	17	5	3	1	6	2	2	1	3	2	5	1			46	1356- 1	148	2912	4075	4871
≥17	74	24	23	18	10	9	3	6	10	8	2	2	4	5	2	39	1356- 1	239	2486	3203	4560
≥11	129	46	26	5	10	10	7	7	6	7	6	2	2	4	3	24	396- 1	294	1622	1868	4545
≥ 7	111	33	17	12	12	9	3	2	5	1	2	3	2	1		12	228- 1	225	889	906	4545
≥ 4	76	19	16	10	5	7	1		2		1		2	2	1	1	132- 1	143	396	403	4545

HOURS INTERVAL BETWEEN EVENTS

62 — 4.1N 106.7E

WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	6	SEA- 5	6	2175	4901	4903
≥28																	7	SEA- 4	7	1885	4611	4617
≥22	2																9	SEA- 4	11	1915	4629	4652
≥17	4	3		1	2	1					1						9	SEA- 4	21	2047	4594	4651
≥11	7	2	5	1	2		2	2	1		2						21	SEA- 4	45	2586	4856	5046
≥ 7	35	27	26	7	7	4	8	3	1	4	3	1	2	2	6	36	SEA- 1	172	2997	4072	4840
≥ 4	100	33	27	16	20	10	6	4	5	3	4	3	3	3	2	31	846- 1	270	1983	2408	4545

HOURS INTERVAL BETWEEN EVENTS

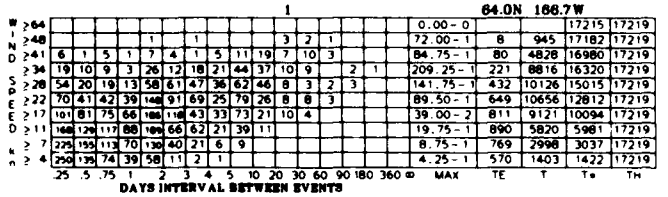
63 — 2.1N 123.6E

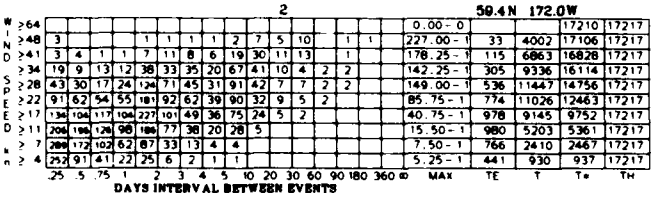
WIND SPEED	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96+	MAX	TE	T	T∞	TH
≥64																	5	SEA- 5	5	1840	4566	4566
≥48																	5	SEA- 5	5	1840	4566	4566
≥41																	5	SEA- 5	5	1840	4566	4566
≥34																	5	SEA- 5	5	1840	4566	4566
≥28																	6	SEA- 5	6	1989	4715	4716
≥22																	6	SEA- 5	6	1989	4715	4716
≥17																	6	SEA- 5	6	1989	4715	4716
≥11	4		1		1												10	SEA- 5	16	2172	4844	4864
≥ 7	3	1	10				2	1	2	2	3		2				16	SEA- 4	44	2586	5079	5180
≥ 4	60	23	39	11	8	4	8	3	4	3	5	5	1	1	2	23	SEA- 1	200	2367	4467	4845

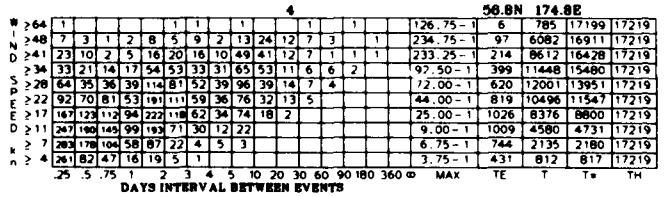
HOURS INTERVAL BETWEEN EVENTS

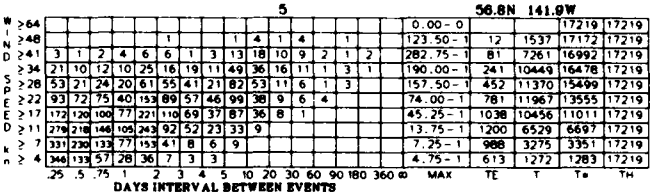
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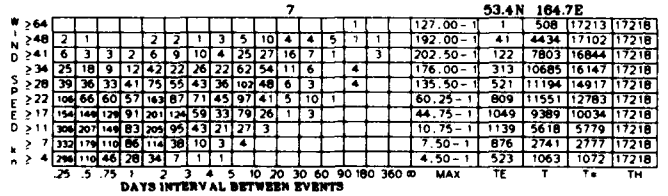
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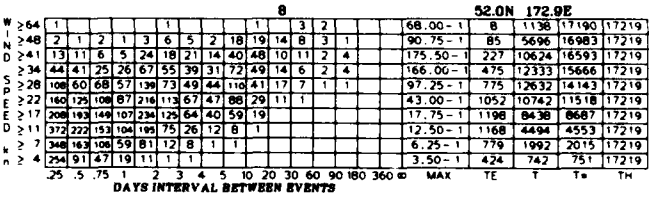

1
64.0N 166.7W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17215 17219
72.00- 1 8 945 17182 17219
84.75- 1 80 4828 16980 17219
209.25- 1 221 8816 16320 17219
141.75- 1 432 10126 15015 17219
89.50- 1 649 10656 12812 17219
39.00- 2 811 9121 10094 17219
19.75- 1 890 5820 5981 17219
8.75- 1 769 2998 3037 17219
4.25- 1 570 1403 1422 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

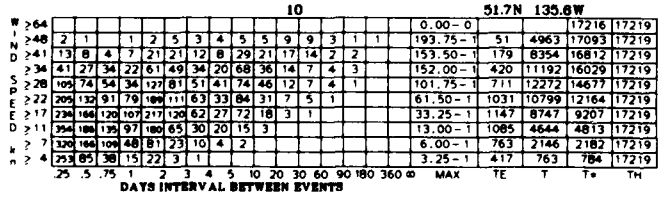

2
59.4N 172.0W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17210 17217
227.00- 1 33 4002 17106 17217
178.25- 1 115 6863 16828 17217
142.25- 1 305 9336 16114 17217
149.00- 1 536 11447 14756 17217
85.75- 1 774 11026 12463 17217
40.75- 1 978 9145 9752 17217
15.50- 1 980 5203 5361 17217
7.50- 1 766 2410 2467 17217
5.25- 1 441 930 937 17217
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

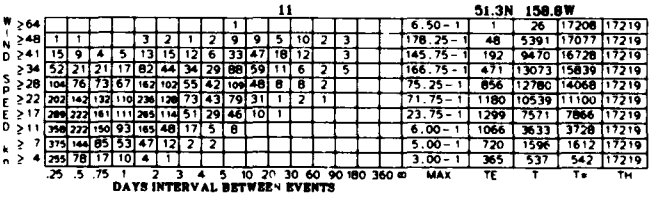

4
56.8N 174.8E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
126.75- 1 6 785 17199 17219
234.75- 1 97 6082 16911 17219
233.25- 1 214 8612 16428 17219
97.50- 1 399 11448 15480 17219
72.00- 1 620 12001 13951 17219
44.00- 1 819 10496 11547 17219
25.00- 1 1026 8376 8800 17219
9.00- 1 1009 4580 4731 17219
6.75- 1 744 2135 2180 17219
3.75- 1 431 812 817 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

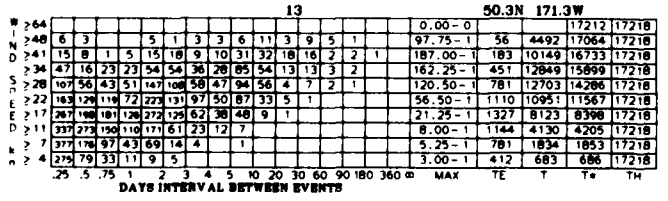

5
56.8N 141.9W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17219 17219
123.50- 1 12 1537 17172 17219
282.75- 1 81 7261 16992 17219
190.00- 1 241 10449 16478 17219
157.50- 1 452 11370 15499 17219
74.00- 1 781 11967 13555 17219
45.25- 1 1038 10456 11011 17219
13.75- 1 1200 6529 6697 17219
7.25- 1 988 3275 3351 17219
4.75- 1 613 1272 1283 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

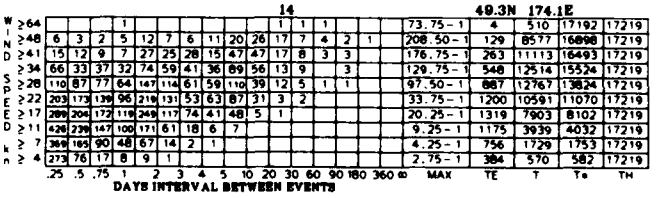

7
53.4N 164.7E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
127.00- 1 1 508 17213 17218
192.00- 1 41 4434 17102 17218
202.50- 1 122 7803 16844 17218
176.00- 1 313 10685 16147 17218
135.50- 1 521 11194 14917 17218
60.25- 1 809 11551 12783 17218
44.75- 1 1049 9389 10034 17218
10.75- 1 1139 5618 5779 17218
7.50- 1 876 2741 2777 17218
4.50- 1 523 1063 1072 17218
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

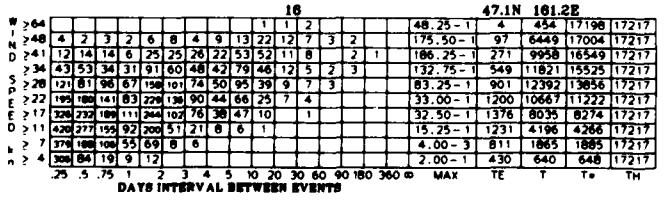

8
52.0N 172.9E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
68.00- 1 8 1138 17190 17219
90.75- 1 85 5696 16983 17219
175.50- 1 227 10624 16593 17219
166.00- 1 475 12333 15666 17219
97.25- 1 775 12632 14143 17219
43.00- 1 1052 10742 11518 17219
17.75- 1 1198 8438 8687 17219
12.50- 1 1168 4494 4553 17219
6.25- 1 779 1992 2015 17219
3.50- 1 424 742 751 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

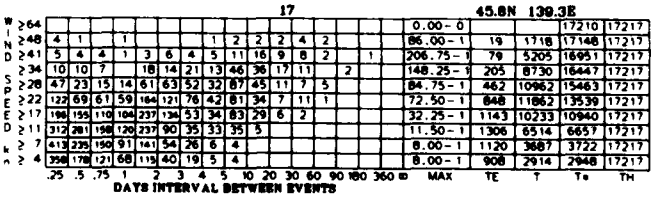

10
51.7N 135.6W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17216 17219
193.75- 1 51 4963 17093 17219
153.50- 1 179 8354 16812 17219
152.00- 1 420 11192 16029 17219
101.75- 1 711 12272 14677 17219
61.50- 1 1031 10799 12164 17219
33.25- 1 1147 8747 9207 17219
13.00- 1 1085 4644 4813 17219
6.00- 1 763 2146 2182 17219
3.25- 1 417 763 784 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

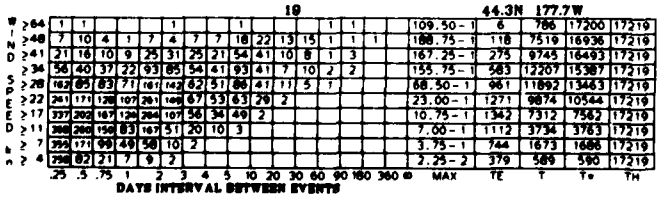

11
51.3N 158.8W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
6.50- 1 1 26 17208 17219
178.25- 1 48 5391 17077 17219
145.75- 1 192 9470 16728 17219
166.75- 1 471 13073 15839 17219
75.25- 1 856 12780 14068 17219
71.75- 1 1180 10539 11100 17219
23.75- 1 1299 7571 7866 17219
6.00- 1 1066 3633 3728 17219
5.00- 1 720 1596 1612 17219
3.00- 1 365 537 542 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

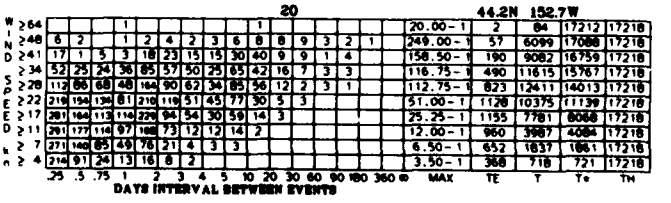

13
50.3N 171.3W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17212 17218
97.75- 1 56 4492 17064 17218
187.00- 1 183 10149 16733 17218
162.25- 1 451 12849 15899 17218
120.50- 1 781 12703 14286 17218
56.50- 1 1110 10951 11567 17218
21.25- 1 1327 8123 8398 17218
8.00- 1 1144 4130 4205 17218
5.25- 1 781 1834 1853 17218
3.00- 1 412 683 686 17218
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS


14
49.3N 174.1E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
73.75- 1 4 510 17192 17219
208.50- 1 129 8577 16898 17219
176.75- 1 263 11113 16493 17219
120.75- 1 548 12514 15524 17219
97.50- 1 887 12767 13824 17219
33.75- 1 1200 10591 11070 17219
20.25- 1 1319 7903 8102 17219
9.25- 1 1175 3939 4032 17219
4.25- 1 756 1729 1753 17219
2.75- 1 384 570 582 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

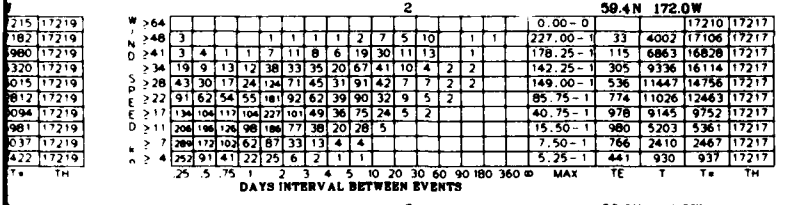

16
47.1N 161.2E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
48.25- 1 4 454 17198 17217
175.50- 1 97 6449 17004 17217
186.25- 1 271 9958 16549 17217
132.75- 1 549 11821 15525 17217
83.25- 1 901 12392 13856 17217
33.00- 1 1200 10667 11222 17217
32.50- 1 1376 8035 8274 17217
15.25- 1 1231 4196 4266 17217
4.00- 3 811 1865 1885 17217
2.00- 1 430 640 648 17217
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

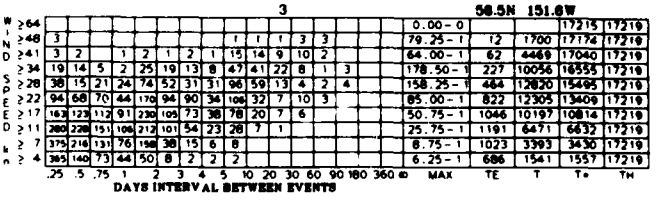

17
45.8N 139.3E
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
0.00- 0 17210 17217
86.00- 1 19 1718 17148 17217
206.75- 1 79 5205 16951 17217
148.25- 1 205 8730 16447 17217
84.75- 1 462 10962 15463 17217
72.50- 1 848 11862 13539 17217
32.25- 1 1143 10233 10940 17217
11.50- 1 1306 6514 6657 17217
8.00- 1 1120 3687 3722 17217
8.00- 1 908 2914 2948 17217
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

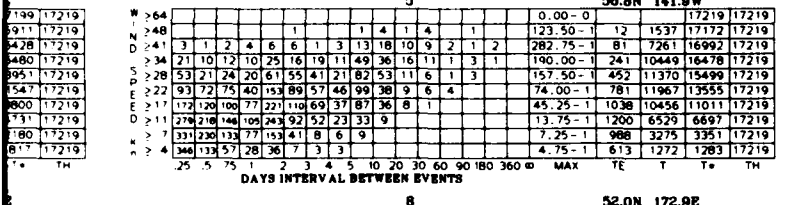

19
44.3N 177.7W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
109.50- 1 6 786 17200 17219
188.75- 1 118 7519 16936 17219
167.25- 1 275 9745 16493 17219
155.75- 1 583 12207 15387 17219
88.50- 1 981 11892 13463 17219
23.00- 1 1271 9874 10544 17219
10.75- 1 1342 7312 7562 17219
7.00- 1 1112 3734 3763 17219
3.75- 1 744 1673 1686 17219
2.25- 2 379 586 590 17219
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

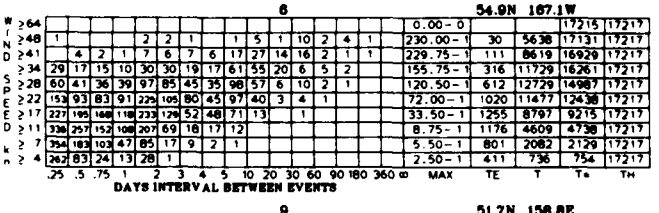

20
44.2N 152.7W
WIND SPEED kn
≥64 ≥48 ≥41 ≥34 ≥28 ≥22 ≥17 ≥11 ≥7 ≥4
20.00- 1 2 84 17212 17218
249.00- 1 57 6099 17088 17218
158.50- 1 190 9082 16759 17218
116.75- 1 490 11615 15767 17218
112.75- 1 823 12411 14013 17218
51.00- 1 1128 10375 11139 17218
25.25- 1 1155 7781 8068 17218
12.00- 1 960 3987 4084 17218
6.50- 1 652 1837 1861 17218
3.50- 1 368 718 721 17218
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH
DAYS INTERVAL BETWEEN EVENTS

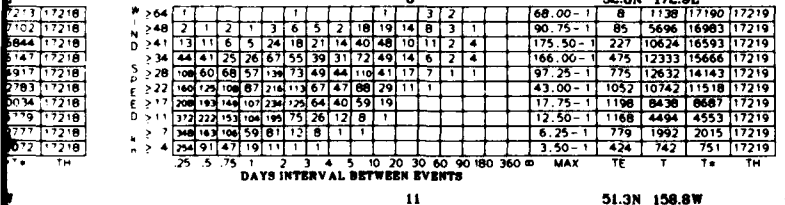
WIND SPEED INTERVALS

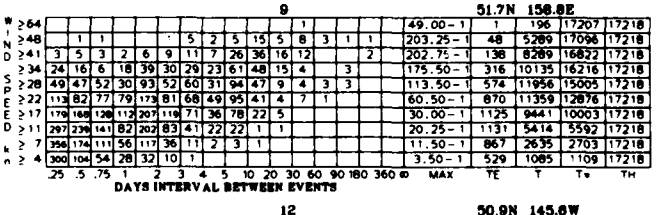


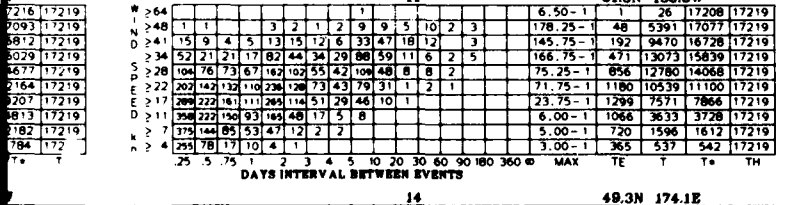


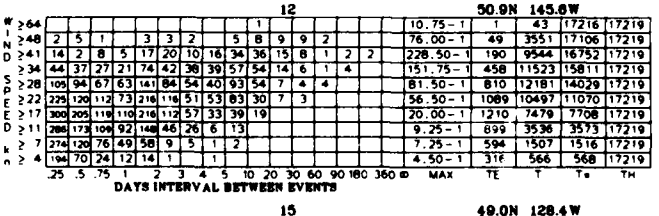


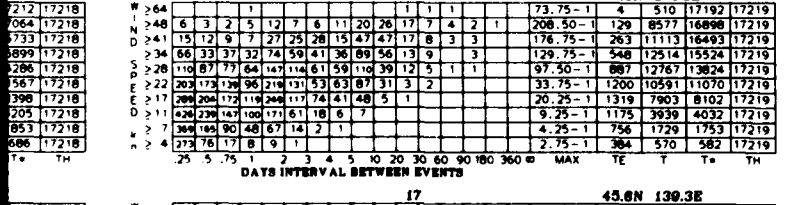


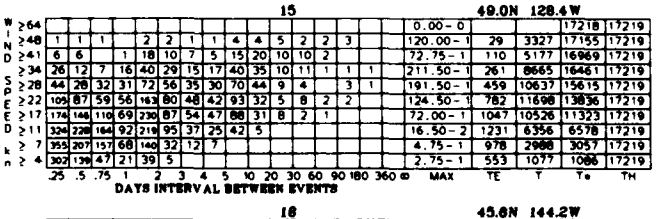


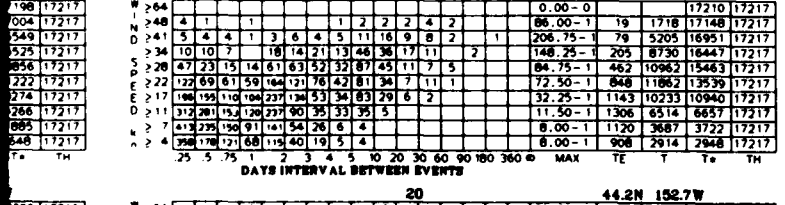


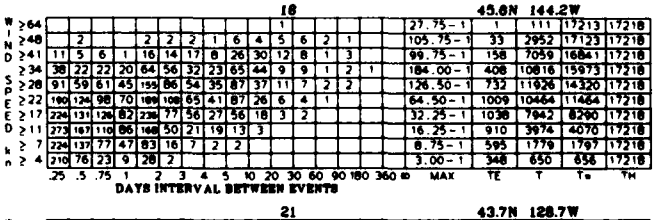


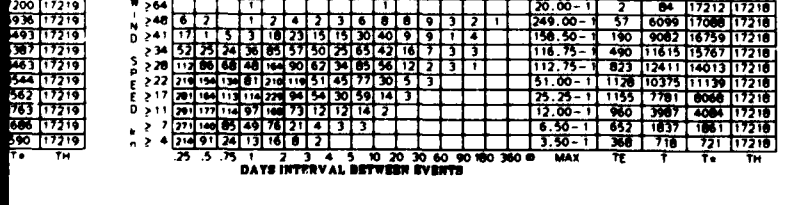


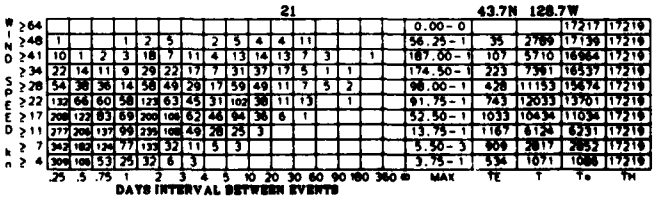




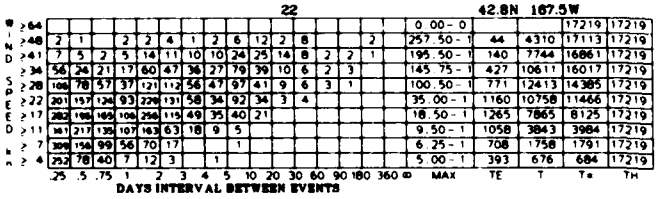








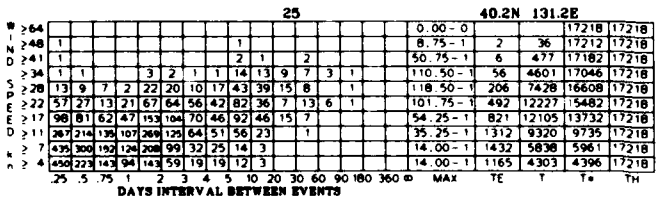
WIND SPEED INTERVALS (Cont'd)



22 42.8N 167.5W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17219	17219
≥48	2	1		2	2	4	1	2	6	12	2	8				2	257.50 - 1	44	4310	17113	17219
≥41	7	5	2	5	14	11	10	10	24	25	14	8	2	2	1		195.50 - 1	140	7744	16861	17219
≥34	56	26	21	17	60	47	36	27	79	39	10	6	2	3			145.75 - 1	427	10611	16017	17219
≥28	108	78	57	37	121	112	56	47	97	41	9	6	3	1			100.50 - 1	771	12413	14385	17219
≥22	201	157	124	93	226	131	58	34	92	34	3	4					35.00 - 1	1160	10758	11466	17219
≥17	282	195	169	106	256	115	49	35	40	21							18.50 - 1	1265	7865	8125	17219
≥11	361	217	135	107	163	63	18	9	5								9.50 - 1	1058	3843	3984	17219
≥ 7	399	158	99	56	70	17			1								6.25 - 1	708	1758	1791	17219
≥ 4	252	78	40	7	12	3		1									5.00 - 1	393	676	684	17219

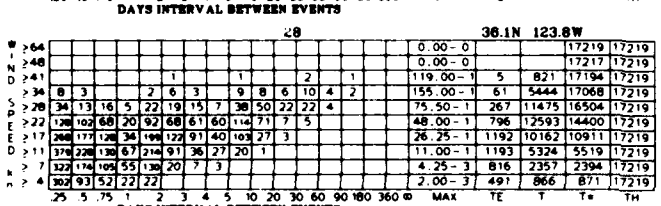
DAYS INTERVAL BETWEEN EVENTS



23 42.4N 172.1E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64											1	1	1				69.75 - 1	4	585	17195	17218
≥48	4	3	3	1	8	8	5	9	17	15	6	9		1	2		225.75 - 1	91	5944	16990	17218
≥41	25	10	12	8	21	25	19	18	42	38	8	9	2	1	1		183.25 - 1	239	8565	16630	17218
≥34	40	43	36	29	72	62	47	39	83	46	11	6	3	2			102.25 - 1	519	11635	15685	17218
≥28	109	80	90	53	162	95	76	41	102	40	8	7	1	1			124.50 - 1	865	12585	14096	17218
≥22	221	152	152	103	229	133	79	37	87	29	5	2					33.25 - 1	1229	10674	11424	17218
≥17	309	227	160	129	276	101	65	38	53	11							17.25 - 1	1369	8172	8478	17218
≥11	414	287	163	108	180	59	26	8	8								8.25 - 1	1253	4306	4432	17218
≥ 7	442	197	98	51	72	10	3	1	1								7.25 - 1	875	1950	1971	17218
≥ 4	306	85	21	15	12	1											2.25 - 1	440	681	690	17218

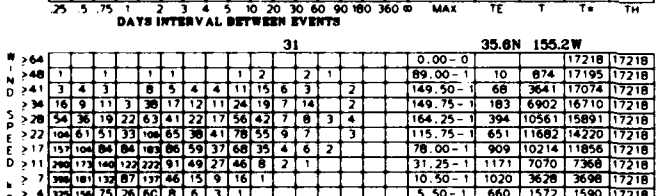
DAYS INTERVAL BETWEEN EVENTS



25 40.2N 131.2E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17218	17218
≥48	1							1									8.75 - 1	2	36	17212	17218
≥41	1							2	1		2						50.75 - 1	6	477	17182	17218
≥34	1	1			3	2	1	1	14	13	9	7	3	1			110.50 - 1	56	4601	17046	17218
≥28	13	9	7	2	22	20	10	17	43	39	15	8		1			118.50 - 1	206	7428	16608	17218
≥22	57	27	13	21	67	64	56	42	82	36	7	13	6	1			101.75 - 1	492	12227	15482	17218
≥17	98	81	62	47	153	104	70	46	92	46	15	7					54.25 - 1	821	12105	13732	17218
≥11	267	214	135	107	269	125	64	51	56	23		1					35.25 - 1	1312	9320	9735	17218
≥ 7	435	300	192	124	208	99	32	25	14	3							14.00 - 1	1432	5838	5961	17218
≥ 4	650	223	143	94	143	59	19	19	12	3							14.00 - 1	1165	4303	4396	17218

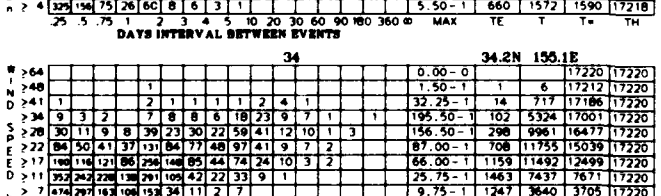
DAYS INTERVAL BETWEEN EVENTS



26 39.5N 153.8E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17216	17220
≥48	2	1		1	2			1	6	8	7	6		2	1		265.75 - 1	37	4554	17141	17220
≥41	4		4	5	3	3	7	8	16	20	11	9	2	1	1		193.50 - 1	94	6707	16986	17220
≥34	17	11	8	9	26	29	29	19	58	58	14	9	1	3			151.75 - 1	291	10698	16505	17220
≥28	63	34	33	29	98	71	74	43	98	43	7	6	3	3			133.50 - 1	605	12704	15462	17220
≥22	134	91	116	82	232	134	70	49	95	25	7	7	1				64.75 - 1	1043	11999	13473	17220
≥17	243	234	177	138	324	138	48	41	78	13	5	1					39.00 - 1	1440	10130	10696	17220
≥11	497	331	199	130	220	66	39	18	23	2	1						21.25 - 1	1526	5942	6084	17220
≥ 7	527	297	121	79	121	18	8	2	3								5.50 - 1	1176	2905	2929	17220
≥ 4	424	131	60	15	12	1		1									3.75 - 1	644	1024	1035	17220

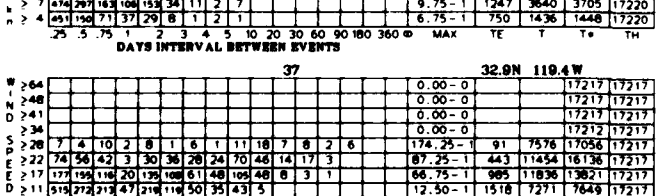
DAYS INTERVAL BETWEEN EVENTS



28 36.1N 123.8W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17219	17219
≥48																	0.00 - 0			17217	17219
≥41						1			1			2		1			119.00 - 1	5	821	17194	17219
≥34	8	3			2	6	3		9	8	6	10	4	2			155.00 - 1	61	5444	17068	17219
≥28	34	13	16	5	22	19	15	7	38	50	22	22	4				75.50 - 1	267	11475	16504	17219
≥22	128	102	68	20	92	68	61	60	114	71	7	5					48.00 - 1	796	12593	14400	17219
≥17	268	177	128	36	198	122	91	40	103	27	3						26.25 - 1	1192	10162	10911	17219
≥11	379	228	138	67	214	91	36	27	20	1							11.00 - 1	1193	5324	5519	17219
≥ 7	323	174	105	55	130	20	7	3									4.25 - 3	816	2357	2394	17219
≥ 4	302	93	52	22	22												2.00 - 3	491	866	871	17219

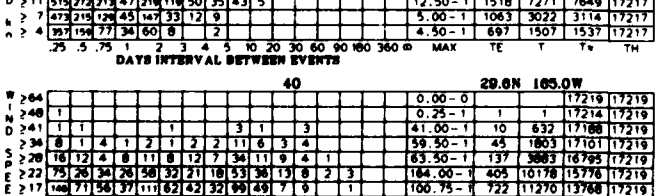
DAYS INTERVAL BETWEEN EVENTS



29 35.9N 171.0W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17216	17220
≥48	2				2	2		2	2	6	2	4					52.00 - 1	22	1389	17163	17220
≥41	4	5	2	2	8	5	2	5	9	19	9	5		1			130.00 - 1	76	3909	17034	17220
≥34	18	18	17	10	32	22	15	11	34	32	9	9	3	1			140.00 - 1	231	7619	16632	17220
≥28	66	54	31	27	65	54	26	26	56	40	15	9	2				78.00 - 1	471	9448	15682	17220
≥22	137	97	50	54	153	68	51	31	89	41	13	4	4				70.25 - 1	792	11216	13866	17220
≥17	212	145	101	79	221	100	53	42	91	26	6	3					39.25 - 1	1079	10156	11271	17220
≥11	341	222	148	100	237	82	43	27	36	7							19.50 - 1	1243	6440	6619	17220
≥ 7	412	217	141	79	116	32	16	9	4								7.25 - 1	1026	3090	3136	17220
≥ 4	356	116	50	33	29	5	3		2								6.25 - 1	594	1187	1198	17220

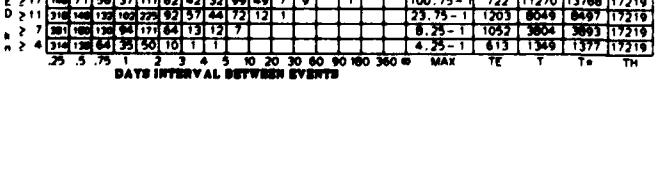
DAYS INTERVAL BETWEEN EVENTS



31 35.6N 155.2W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17218	17218
≥48	1		1		1	1			1	2		2	1				89.00 - 1	10	874	17195	17218
≥41	3	4	3		8	5	4	4	11	15	6	3		2			149.50 - 1	68	3641	17074	17218
≥34	16	9	11	3	38	17	12	11	24	19	7	14		2			149.75 - 1	183	6902	16710	17218
≥28	54	36	19	22	63	41	22	17	56	42	7	8	3	4			164.25 - 1	394	10561	15891	17218
≥22	104	61	51	33	108	65	38	41	78	55	9	7		3			115.75 - 1	651	11682	14220	17218
≥17	157	104	84	84	183	86	59	37	68	35	4	6	2				78.00 - 1	909	10214	11856	17218
≥11	290	173	140	122	222	91	49	27	46	8	2	1					31.25 - 1	1171	7070	7368	17218
≥ 7	398	181	132	87	137	46	15	9	16	1							10.50 - 1	1020	3628	3698	17218
≥ 4	329	156	75	26	60	8	6	3	1								5.50 - 1	660	1572	1590	17218

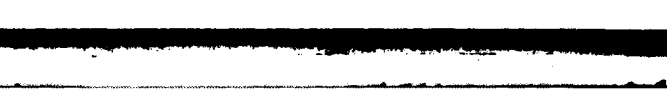
DAYS INTERVAL BETWEEN EVENTS



32 35.4N 142.0W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17219	17219
≥48						1					1						68.00 - 1	3	391	17207	17219
≥41	4	1	1	1	4	1	2		1	4	4	2	2				70.25 - 1	27	1571	17153	17219
≥34	16	8	4	7	16	9	3	5	14	12	9	9	1				69.25 - 1	113	4272	16905	17219
≥28	36	24	21	16	43	16	10	9	36	28	14	8	3	2	1		187.50 - 1	267	9001	16288	17219
≥22	79	35	31	37	71	45	35	20	77	47	10	8	1	3			138.75 - 1	499	11147	14929	17219
≥17	128	81	65	41	144	76	52	30	70	45	11	6	1	1			103.25 - 1	751	10913	12893	17219
≥11	247	134	95	83	183	108	50	31	78	18		1					39.25 - 1	1028	7875	8441	17219
≥ 7	326	180	125	85	150	75	33	10	17	2	1						21.00 - 1	1004	4382	4505	17219
≥ 4	318	143	72	52	70	17	7	4	2								6.25 - 1	685	1847	1895	17219

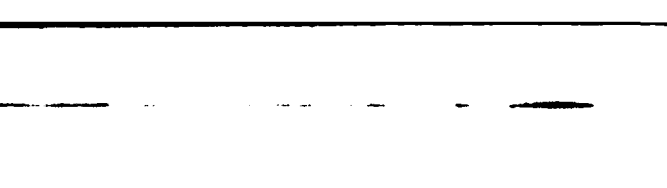
DAYS INTERVAL BETWEEN EVENTS



34 34.2N 155.1E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17220	17220
≥48				1													1.50 - 1	1	6	17212	17220
≥41	1				2	1	1	1	1	2	4	1					32.25 - 1	14	717	17186	17220
≥34	9	3	2		7	8	8	6	18	23	9	7	1		1		195.50 - 1	102	5324	17001	17220
≥28	30	11	9	8	39	23	30	22	59	41	12	10	1	3			156.50 - 1	298	9961	16477	17220
≥22	84	50	41	37	131	84	77	48	97	41	9	7	2				87.00 - 1	708	11755	15039	17220
≥17	190	116	121	86	256	148	85	44	74	24	10	3	2				66.00 - 1	1159	11492	12499	17220
≥11	352	242	228	138	291	105	42	22	33	9	1						25.75 - 1	1463	7437	7671	17220
≥ 7	474	297	163	108	153	34	11	2	7								9.75 - 1	1247	3640	3705	17220
≥ 4	451	150	71	37	29	8	1	2	1								6.75 - 1	750	1436	1448	17220

DAYS INTERVAL BETWEEN EVENTS



35 34.2N 163.8E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17220	17220
≥48									1			1					57.00 - 1	3	301	17203	17220
≥41				2	2	2	1	1	4	4	4	1					39.25 - 1	21	959	17167	17220
≥34	9	4	4	1	15	12	11	7	22	29	5	6	1	3			151.00 - 1	129	6260	16924	17220
≥28	37	20	14	22	50	45	30	20	55	42	10	10	5				79.75 - 1	360	9783	16275	17220
≥22	96	70	75	62	167	84	89	37	78	35	14	8	2	1			91.25 - 1	818	12110	14559	17220
≥17	203	141	166	88	241	139	65	47	77	26	9	3					42.75 - 1	1183	10822	11825	17220
≥11	372	257	190	107	273	74	52	20	36	8							16.00 - 1	1389	6754	6965	17220
≥ 7	452	238	151	85	134	30	10	6	6								8.50 - 1	1112	3223	3273	17220
≥ 4	411	131	60	27	29	9											2.75 - 1	667	1225	1236	17220

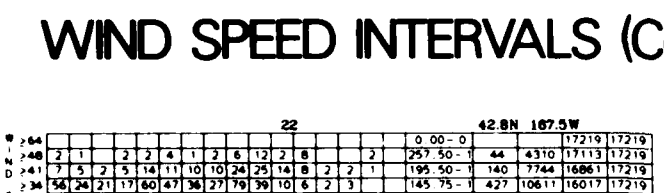
DAYS INTERVAL BETWEEN EVENTS



37 32.9N 119.4W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17217	17217
≥48																	0.00 - 0			17217	17217
≥41																	0.00 - 0			17217	17217
≥34																	0.00 - 0			17212	17217
≥28	7	4	10	2	8	1	6	1	11	18	7	8	2	6			174.25 - 1	91	7576	17056	17217
≥22	74	56	42	3	30	36	28	24	70	46	14	17	3				87.25 - 1	443	11454	16136	17217
≥17	177	194	118	20	139	108	61	48	106	48	8	3	1				66.75 - 1	985	11836	13821	17217
≥11	319	272	213	47	218	118	50	35	43	5							12.50 - 1	1518	7271	7649	17217
≥ 7	473	219	128	45	147	33	12	9									5.00 - 1	1063	3022	3114	17217
≥ 4	357	158	77	34	60	8		2									4.50 - 1	697	1507	1537	17217

DAYS INTERVAL BETWEEN EVENTS



38 31.5N 127.7W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17219	17219
≥48																	0.00 - 0			17218	17219
≥41										1	1						17.75 - 1	2	102	17212	17219
≥34									3	2	2	2		1			106.50 - 1	11	1236	17182	17219
≥28	11		2	1	3	4	1	5	9	10	8	12	3				77.00 - 1	69	4891	17014	17219
≥22	42	15	10	8	28	28	15	11	50	48	30	13	1				68.25 - 1	299	10622	16266	17219
≥17	156	65	48	31	103	79	48	48	129	68	15	2					45.75 - 1	783	12517	14089	17219
≥11	322	138	93	79	223	132	55	40	74	10							13.25 - 1	1166	7677	8325	17219
≥ 7	341	162	138	86	188	57	29	7	5								7.75 - 1	1013	3820	3940	17219
≥ 4	332	132	74	43	50	9	2	2									4.25 - 2	644	1455	1486	17219

DAYS INTERVAL BETWEEN EVENTS

40 29.6N 165.0W

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17219	17219
≥48	1																0.25 - 1	1	1	17214	17219
≥41	1	1			1				3	1		3					41.00 - 1	10	632	17188	17219
≥34	8	1	4	1	2	1	2	2	11	6	3	4					59.50 - 1	45	1803	17101	17219
≥28	16	12	4	8	11	8	12	7	34	11	9	4	1				63.50 - 1	137	3883	16795	17219
≥22	75	26	34	26	58	32	21	18	53	36	13	8	2	3			184.00 - 1	405	10178	15776	17219
≥17	148	71	56	37	111	62	42	32	99	49	7	9		1			100.75 - 1	722	11270	13768	17219
≥11	318	148	122	102	229	92	57	44	72	12	1						23.75 - 1	1203	8048	8497	17219
≥ 7	381	180	138	94	171	64	13	12	7								8.25 - 1	1052	3804	3893	17219
≥ 4	314	138	64	35	50	10	1	1									4.25 - 1	613	1349	1377	17219

DAYS INTERVAL BETWEEN EVENTS

41 29.4N 134.9E

WIND SPEED knots	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0			17220	17220
≥48																	0.00 - 0			17214	17220
≥41											2			1			287.25 - 1	3	1604	17203	17220
≥34	1	2	1	1				1	1	5	2			1			287.00 - 1	16	2920	17173	17220
≥28	8	5	3	7	5	8	4	2	5	10	8	14	3	7	1		286.75 - 1	80	9480	16987	17220
≥22	36	18	12	8	22	18	10	16	59	60	28	15	2	2			111.50 - 1	306	12624	16263	17220
≥17	126	48	42	27	105	82	65	55	113	78	9	5					52.75 - 1	754	12947	14438	17220
≥11	278	159	122	97	317	160	80	36	56	11							17.50 - 1	1317	8902	9336	17220
≥ 7	410	260	169	110	232	64	19	12	11	2							10.50 - 1	1269	4722	4821	17220
≥ 4	373	197	90	49	65	12	5		1								7.50 - 1	792	1832	1857	17220

DAYS INTERVAL BETWEEN EVENTS

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ANNUAL

23 — 42.4N 172.1E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64											1	1	1				69.75 - 1	4		585	17195	17218
≥48	4	3	3	1	8	8	5	9	17	15	6	9			1	2	225.75 - 1	91		5944	16990	17218
≥41	25	10	12	8	21	25	19	18	42	38	8	9	2	1	1		183.25 - 1	239		8565	16630	17218
≥34	40	43	36	29	72	62	47	39	83	46	11	6	3	2			102.25 - 1	519		11635	15685	17218
≥28	109	80	90	53	162	95	76	41	107	40	8	7	1	1			124.50 - 1	865		12585	14096	17218
≥22	221	152	152	103	229	133	79	37	87	29	5	2					33.25 - 1	1229		10674	11424	17218
≥17	309	227	180	129	276	101	65	38	53	11							17.25 - 1	1369		8172	8478	17218
≥11	414	287	163	108	180	59	26	8	8								8.25 - 1	1253		4306	4432	17218
≥ 7	442	197	98	51	72	10	3	1	1								7.25 - 1	875		1950	1971	17218
≥ 4	306	85	21	15	12	1											2.25 - 1	440		681	690	17218

DAYS INTERVAL BETWEEN EVENTS

24 — 41.0N 134.9W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17218	17219
≥48	1				1				4	1	2	3					57.75 - 1	12		978	17187	17219
≥41	6	2	3			10	5	3	4	12	8	11	8	2			81.50 - 1	74		4225	17047	17219
≥34	19	8	16	10	30	23	11	7	21	40	14	4	1		1		218.00 - 1	205		6822	16636	17219
≥28	54	31	34	25	77	40	29	24	57	45	15	4		3			152.00 - 1	438		9931	15713	17219
≥22	125	75	52	62	151	69	40	29	67	44	8	8	3	1			126.25 - 1	734		11261	13790	17219
≥17	188	125	92	77	158	99	51	34	78	40	5	5					56.50 - 1	952		10138	11212	17219
≥11	261	158	107	91	214	87	57	29	36	8	1						29.00 - 1	1050		6331	6617	17219
≥ 7	269	168	115	68	146	40	13	5	7	1							11.75 - 1	832		3024	3124	17219
≥ 4	309	88	61	39	39	6	3										4.00 - 3	545		1163	1204	17219

DAYS INTERVAL BETWEEN EVENTS

26 — 39.5N 153.8E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17216	17220
≥48	2	1		1	2			1	6	8	7	6			2	1	265.75 - 1	37		4554	17141	17220
≥41	4		4	5	3	3	7	8	16	20	11	9	2	1	1		193.50 - 1	94		6707	16986	17220
≥34	17	11	8	9	26	29	29	19	58	58	14	9	1	3			151.75 - 1	291		10698	16505	17220
≥28	63	34	33	29	98	71	74	43	98	43	7	6	3	3			133.50 - 1	605		12704	15462	17220
≥22	134	71	116	82	232	134	70	49	95	25	7	7	1				64.75 - 1	1043		11999	13473	17220
≥17	243	234	177	138	326	138	48	41	78	13	5	1					39.00 - 1	1440		10130	10696	17220
≥11	497	331	199	130	220	66	39	18	23	2	1						21.25 - 1	1526		5942	6084	17220
≥ 7	527	297	121	79	121	18	8	2	3								5.50 - 1	1176		2905	2929	17220
≥ 4	424	131	60	15	12	1	1										3.75 - 1	644		1024	1035	17220

DAYS INTERVAL BETWEEN EVENTS

27 — 38.2N 127.4W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219	17219
≥48																	0.00 - 0				17216	17219
≥41	1							1		1	3						43.25 - 1	6		571	17183	17219
≥34	2	1	2	1	7	5	2		10	5	7	9	4				68.75 - 1	55		4048	17042	17219
≥28	29	6	8	9	13	16	13	7	31	32	15	18	4	2			98.00 - 1	203		9597	16569	17219
≥22	76	42	21	21	57	54	37	45	94	84	12	10					60.00 - 1	553		12834	14890	17219
≥17	191	69	60	44	161	115	80	48	138	31	5						29.00 - 1	937		10936	11640	17219
≥11	275	145	95	91	208	109	52	25	32	3							17.25 - 1	1035		5875	6109	17219
≥ 7	242	141	100	61	123	36	14	8	3								6.50 - 1	728		2613	2725	17219
≥ 4	223	106	43	33	39	4	4										3.75 - 1	452		1015	1041	17219

DAYS INTERVAL BETWEEN EVENTS

29 — 35.9N 171.0W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17216	17220
≥48	2				2	2		2	2	6	2	4					52.00 - 1	22		1389	17163	17220
≥41	4	5	2	2	8	5	2	5	9	19	9	5		1			130.00 - 1	76		3909	17034	17220
≥34	18	18	17	10	32	22	15	11	34	32	9	9	3	1			140.00 - 1	231		7619	16632	17220
≥28	66	54	31	27	65	54	26	26	56	40	15	9	2				78.00 - 1	471		9448	15682	17220
≥22	137	97	50	54	153	68	51	31	89	41	13	4	4				70.25 - 1	792		11216	13866	17220
≥17	212	165	101	79	221	100	53	42	91	26	6	3					39.25 - 1	1079		10156	11271	17220
≥11	341	222	148	100	237	82	43	27	36	7							19.50 - 1	1243		6440	6619	17220
≥ 7	412	217	141	79	116	32	16	9	4								7.25 - 1	1026		3090	3136	17220
≥ 4	356	116	50	33	29	5	3		2								6.25 - 1	594		1187	1198	17220

DAYS INTERVAL BETWEEN EVENTS

30 — 35.7N 176.1E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219	17220
≥48					2	2		1	1	2	2	3	1				82.00 - 1	14		1326	17186	17220
≥41	2	4	1	1	8	5	5	3	8	10	8	5	1				78.75 - 1	61		2930	17086	17220
≥34	24	13	8	7	29	18	16	14	32	30	9	10	1		1		183.25 - 1	212		7111	16728	17220
≥28	49	34	36	33	81	48	36	23	68	43	8	10	1	2			159.50 - 1	472		10432	15865	17220
≥22	136	94	79	74	186	76	64	32	79	35	10	6	2				82.00 - 1	847		10984	13969	17220
≥17	253	138	109	92	202	114	74	35	78	25	9	4					53.75 - 1	1131		10523	11365	17220
≥11	352	252	158	109	249	96	38	22	39	4							17.75 - 1	1317		6456	6553	17220
≥ 7	427	241	142	88	138	20	14	5	5								8.75 - 1	1078		3154	3167	17220
≥ 4	398	163	55	22	28	3	4	2									4.75 - 1	653		1227	1231	17220

DAYS INTERVAL BETWEEN EVENTS

32 — 35.4N 142.0W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219	17219
≥48											1		1				68.00 - 1	3		391	17207	17219
≥41	4	1	1	1	4	1	2		1	4	4	2	2				70.25 - 1	27		1571	17153	17219
≥34	16	8	4	7	16	9	3	5	14	12	9	9	1				69.25 - 1	113		4272	16905	17219
≥28	36	24	21	16	43	16	10	9	36	28	14	8	3	2	1		187.50 - 1	267		9001	16288	17219
≥22	79	35	31	37	71	45	35	20	77	47	10	8	1	3			138.75 - 1	499		11147	14929	17219
≥17	128	81	65	41	144	76	52	30	70	45	11	6	1	1			103.25 - 1	751		10913	12893	17219
≥11	241	134	95	83	183	108	50	31	78	18		1					39.25 - 1	1028		7875	8441	17219
≥ 7	326	180	125	85	150	75	33	10	17	2	1						21.00 - 1	1004		4382	4505	17219
≥ 4	318	143	72	52	70	17	7	4	2								6.25 - 1	685		1847	1895	17219

DAYS INTERVAL BETWEEN EVENTS

33 — 34.6N 145.9E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220	17220
≥48					1								1				67.00 - 1	2		273	17212	17220
≥41	3		2	1		1				2	3			1			93.00 - 1	13		815	17187	17220
≥34	8	3	3	1	2	4	2	4	9	12	6	7	1	1			91.00 - 1	63		3553	17069	17220
≥28	20	10	4	4	21	17	25	17	50	46	8	17	3	1			123.75 - 1	243		10098	16668	17220
≥22	70	38	36	24	108	83	53	37	108	64	11	7	1	1			103.50 - 1	639		12730	15377	17220
≥17	163	108	88	83	221	165	93	59	96	31	8	3					52.75 - 1	1118		12044	13039	17220
≥11	362	241	164	167	323	120	41	26	41	5	1						21.75 - 1	1521		7909	8109	17220
≥ 7	508	324	175	105	166	41	12	5	7								8.50 - 1	1341		3946	3992	17220
≥ 4	465	190	85	34	35	7	1	1									4.25 - 1	818		1563	1575	17220

DAYS INTERVAL BETWEEN EVENTS

35 — 34.2N 163.8E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220	17220
≥48					1					1							57.00 - 1	3		301	17203	17220
≥41				2	2	2	1	1	4	4	4	1					39.25 - 1	21		959	17167	17220
≥34	9	4	4	1	15	12	11	7	22	29	5	6	1	3			151.00 - 1	129		6260	16924	17220
≥28	37	20	14	22	50	45	30	20	55	42	10	10	5				79.75 - 1	360		9783	16275	17220
≥22	95	70	75	62	167	84	89	37	78	35	14	8	2	1			91.25 - 1	818		12110	14559	17220
≥17	203	161	144	88	241	139	65	47	77	26	9	3					42.75 - 1	1183		10822	11825	17220
≥11	372	257	190	107	273	74	52	20	36	8							16.00 - 1	1389		6754	6965	17220
≥ 7	452	238	151	85	136	30	10	6	6								8.50 - 1	1112		3223	3273	17220
≥ 4	411	131	60	27	29	9											2.75 - 1	667		1225	1236	17220

DAYS INTERVAL BETWEEN EVENTS

36 — 33.7N 123.9E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17218	17218
≥48																	0.00 - 0				17216	17218
≥41												1	1	2			67.00 - 1	4	840		17198	17218
≥34	5		1	1	2		2	4	9	19	7	9	1				69.00 - 1	60		4115	17058	17218
≥28	17	5	2	1	11	11	11	17	42	42	16	4		2			117.25 - 1	181		7442	16662	17218
≥22	49	14	14	13	62	50	48	43	90	40	5	11	4				89.25 - 1	443		10793	15562	17218
≥17	120	56	55	33	156	108	94	51	81	47	6	11					43.50 - 2	814		12119	13451	17218
≥11	287	155	116	90	273	143	67	34	61	14							19.75 - 1	1238		8430	8761	17218
≥ 7	386	214	138	108	211	75	20	18	11	1							12.25 - 1	1160		4613	4727	17218
≥ 4	354	185	97	68	124	35	16	8	5	1							12.25 - 1	893		2956	2998	17218

DAYS INTERVAL BETWEEN EVENTS

38 — 31.5N 127.7W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219	17219
≥48																	0.00 - 0				17218	17219
≥41										1	1						17.75 - 1	2		102	17212	17219
≥34					1				3	2	2	2		1			106.50 - 1	11		1236	17182	17219
≥28	11		2	1	3	4	1	5	9	10	8	12	3				77.00 - 1	69		4891	17014	17219
≥22	42	15	10	8	28	28	15	11	50	48	30	13	1				68.25 - 1	299		10622	16266	17219
≥17	156	65	48	31	103	79	48	48	120	68	15	2					45.75 - 1	783		12517	14089	17219
≥11	322	138	93	79	222	132	55	40	74	10							13.25 - 1	1166		7977	8325	17219
≥ 7	341	162	138	86	188	57	29	7	5								7.75 - 1	1013		3820	3940	17219
≥ 4	332	132	74	43	50	9	2	2									4.25 - 2	644		1455	1486	17219

DAYS INTERVAL BETWEEN EVENTS

39 — 29.9N 177.3W

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220	17220
≥48																	0.00 - 0				17217	17220
≥41				1					1	1							11.50 - 1	3	77		17199	17220
≥34	8	1	2	1	7	4	4	1	6	1	7	7	1				116.75 - 1	50		2764	17085	17220
≥28	21	12	5	8	22	12	12	4	14	18	11	9	3	2			136.25 - 1	153		6597	16743	17220
≥22	62	34	37	18	48	28	33	22	56	35	11	11	4	2			169.25 - 1	401		10486	15733	17220
≥17	145	59	44	50	123	68	53	37	77	43	16	11	1				67.75 - 1	727		11791	13757	17220
≥11	319	173	129	109	225	122	69	37	63	11	1						21.00 - 1	1250		8262	8801	17220
≥ 7	378	230	171	101	158	57	25	9	13								9.00 - 1	1142		4147	4331	17220
≥ 4	414	145	83	42	56	8		1									4.50 - 1	749		1545	1586	17220

DAYS INTERVAL BETWEEN EVENTS

41 — 29.4N 134.9E

WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17220	17220
≥48																	0.00 - 0				17214	17220
≥41											2				1		287.25 - 1	3		1604	17203	17220
≥34	1	2	1	1				1	1		1	5	2		1		287.00 - 1	16		2920	17173	17220
≥28	8	5	3	1	5	6	4	2	5	10	6	14	3	7	1		286.75 - 1	80		9480	16987	17220
≥22	36	18	12	8	22	18	10	16	59	60	28	15	2	2			111.50 - 1	306		12624	16263	17220
≥17	126	46	42	27	105	82	65	55	113	79	9	5					52.75 - 1	754		12947	14438	17220
≥11	279	159	122	97	317	166	80	36	54	11							17.50 - 1	1317		8902	9336	17220
≥ 7	410	240	169	119	232	64	19	12	11	2							10.50 - 1	1269		4722	4821	17220
≥ 4	373	197	90	49	85	12	5		1								7.50 - 1	792		1832	1857	17220

DAYS INTERVAL BETWEEN EVENTS

42 — 28.8N 139.2W

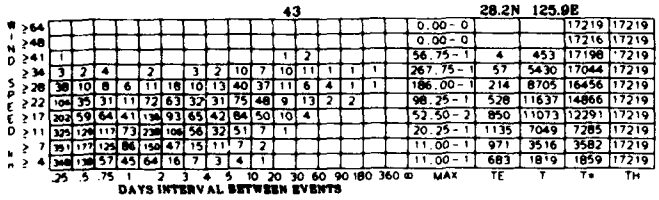
WIND SPEED (knots)	.25	.5	.75	1	2	3	4	5	10	20	30	60	90	180	360	∞	MAX	TE	T	Te	TH
≥64																	0.00 - 0				17219	17219
≥48																	0.00 - 0				17217	17219
≥41																	0.00 - 0				17218	17219
≥34				1		2		1					1				52.00 - 1	5	240		17187	17219
≥28	7	4	5		3	6	2	2	5	5	6	8	1				76.75 - 1	54		3048	17070	17219
≥22	40	12	8	3	17	16	9	4	23	32	10	11	2	2			156.50 - 1	189		7321	16585	17219
≥17	131	49	27	11	69	50	42	38	76	62	14	14	1				66.25 - 1	584		12123	14877	17219
≥11	287	140	95	76	188	125	75	41	72	12	2						21.25 - 1	1189		8386	8948	17219
≥ 7	382	191	108	68	169	67	23	15	12								6.50 - 3	972		3854	3957	17219
≥ 4	304	122	90	52	64	10	2	1	1								5.25 - 1	626		1502	1522	17219

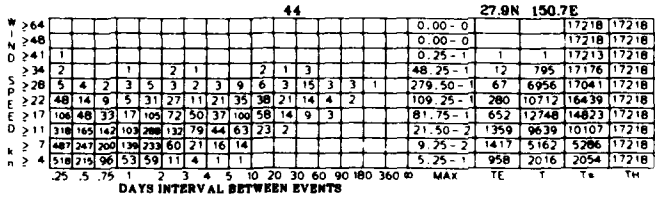
DAYS INTERVAL BETWEEN EVENTS

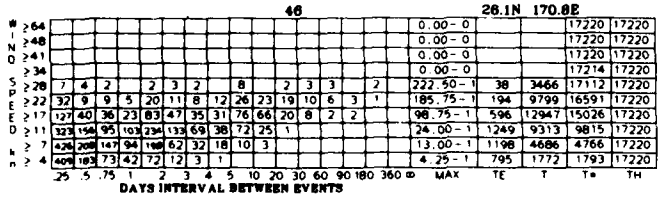
2

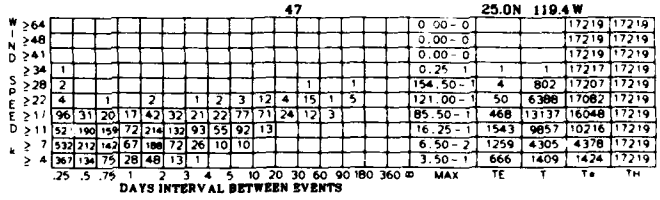
ANNUAL

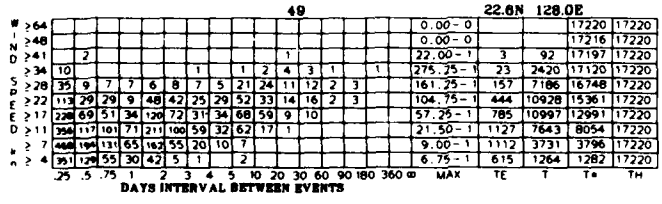
WIND SP

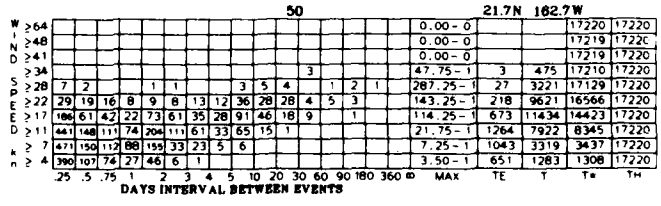


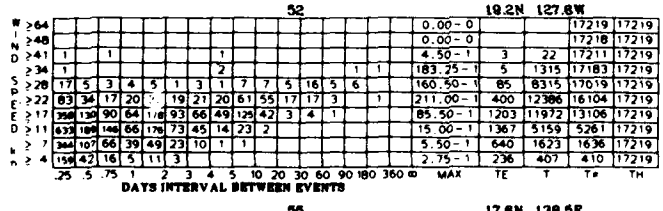


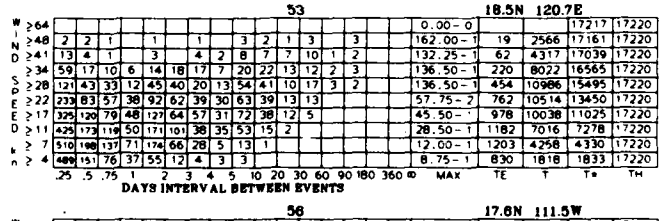


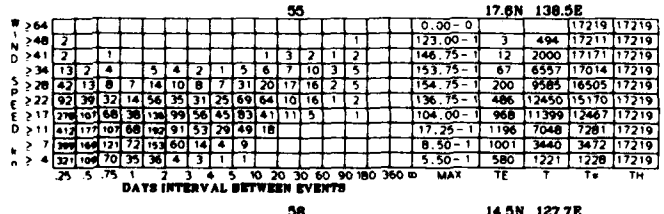


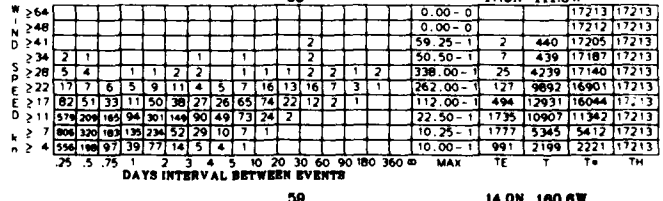


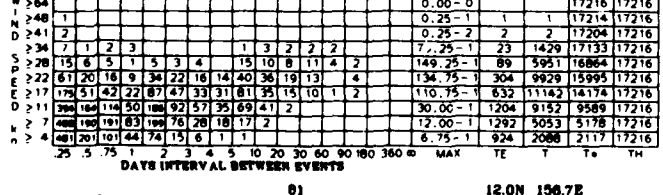


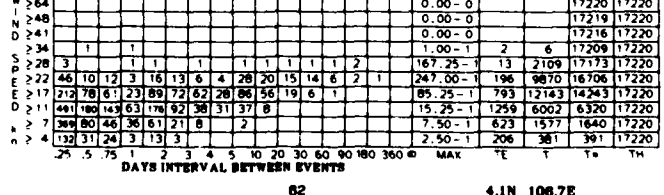


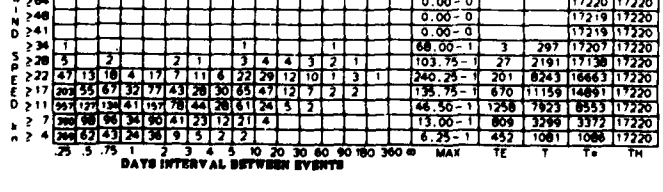


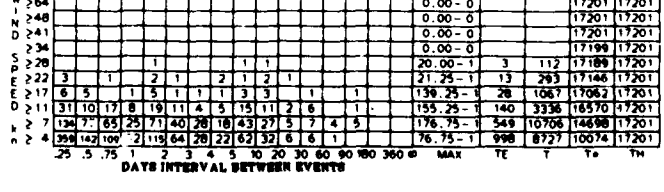






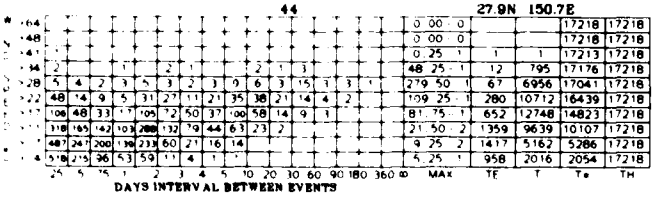






WIND SPEED INTERVALS (Cont'd)

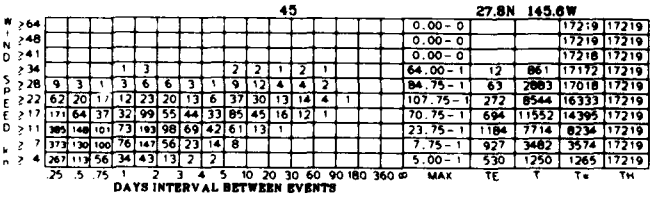
44 27.9N 150.7E



MAX	TE	T	Te	TH
0.00 - 0			17218	17218
0.00 - 0			17218	17218
0.25 - 1	1	1	17213	17218
48.25 - 1	12	795	17176	17218
279.50 - 1	67	6956	17041	17218
109.25 - 1	280	10712	16439	17218
81.75 - 1	652	12748	14823	17218
21.50 - 2	1359	9639	10107	17218
9.25 - 2	1417	5162	5286	17218
5.25 - 1	958	2016	2054	17218

DAYS INTERVAL BETWEEN EVENTS

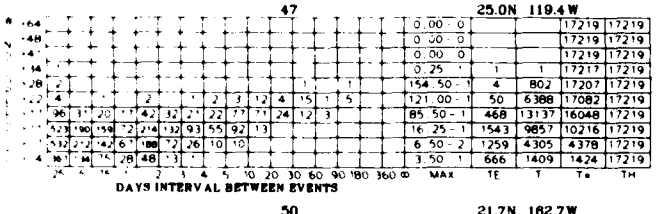
45 27.8N 145.6W



MAX	TE	T	Te	TH
0.00 - 0			17219	17219
0.00 - 0			17219	17219
0.00 - 0			17218	17219
64.00 - 1	12	861	17172	17219
84.75 - 1	63	2883	17018	17219
107.75 - 1	272	8544	16333	17219
70.75 - 1	694	11552	14395	17219
23.75 - 1	1184	7714	8234	17219
7.75 - 1	927	3482	3574	17219
5.00 - 1	530	1250	1265	17219

DAYS INTERVAL BETWEEN EVENTS

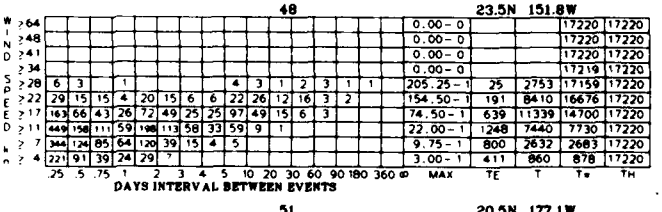
47 25.0N 119.4W



MAX	TE	T	Te	TH
0.00 - 0			17219	17219
0.00 - 0			17219	17219
0.00 - 0			17219	17219
0.25 - 1	1	1	17217	17219
154.50 - 1	4	802	17207	17219
121.00 - 1	50	6388	17082	17219
85.50 - 1	468	13137	16048	17219
16.25 - 1	1543	9857	10216	17219
6.50 - 2	1259	4305	4378	17219
3.50 - 1	666	1409	1424	17219

DAYS INTERVAL BETWEEN EVENTS

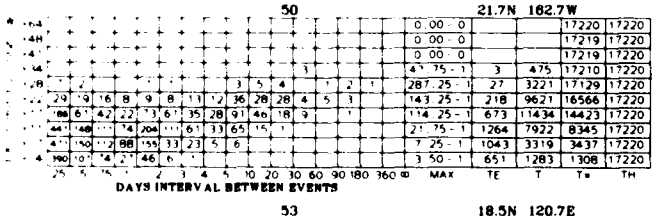
48 23.5N 151.8W



MAX	TE	T	Te	TH
0.00 - 0			17220	17220
0.00 - 0			17220	17220
0.00 - 0			17220	17220
0.00 - 0			17219	17220
205.25 - 1	25	2753	17159	17220
154.50 - 1	191	8410	16676	17220
74.50 - 1	639	11339	14700	17220
22.00 - 1	1248	7440	7730	17220
9.75 - 1	800	2632	2683	17220
3.00 - 1	411	860	878	17220

DAYS INTERVAL BETWEEN EVENTS

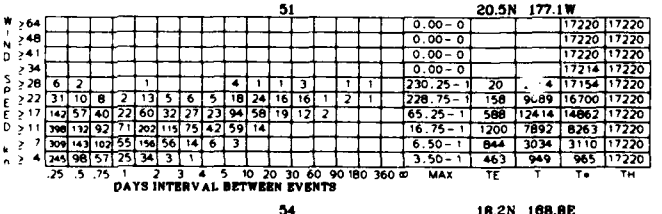
50 21.7N 162.7W



MAX	TE	T	Te	TH
0.00 - 0			17220	17220
0.00 - 0			17219	17220
0.00 - 0			17219	17220
47.75 - 1	3	475	17210	17220
287.25 - 1	27	3221	17129	17220
143.25 - 1	218	9621	16566	17220
114.25 - 1	673	11434	14423	17220
21.75 - 1	1264	7922	8345	17220
7.25 - 1	1043	3319	3437	17220
3.50 - 1	651	1283	1308	17220

DAYS INTERVAL BETWEEN EVENTS

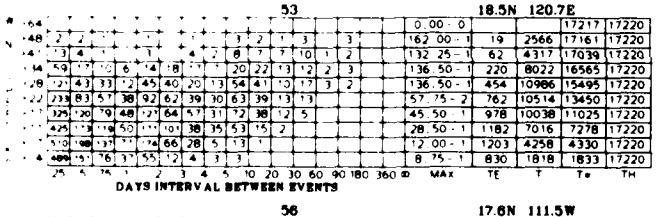
51 20.5N 177.1W



MAX	TE	T	Te	TH
0.00 - 0			17220	17220
0.00 - 0			17220	17220
0.00 - 0			17220	17220
0.00 - 0			17214	17220
230.25 - 1	20	4	17154	17220
228.75 - 1	158	9089	16700	17220
65.25 - 1	588	12414	14862	17220
16.75 - 1	1200	7892	8263	17220
6.50 - 1	844	3034	3110	17220
3.50 - 1	463	949	965	17220

DAYS INTERVAL BETWEEN EVENTS

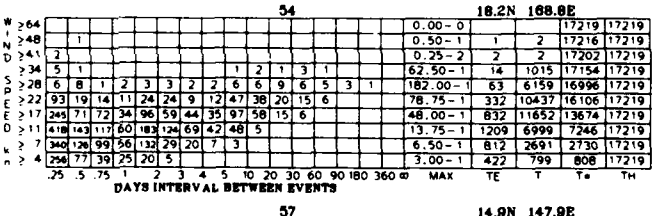
53 18.5N 120.7E



MAX	TE	T	Te	TH
0.00 - 0			17217	17220
162.00 - 1	19	2566	17161	17220
132.25 - 1	62	4317	17039	17220
136.50 - 1	220	8022	16565	17220
136.50 - 1	454	10986	15495	17220
57.75 - 2	762	10514	13450	17220
45.50 - 1	978	10038	11025	17220
28.50 - 1	1182	7016	7278	17220
12.00 - 1	1203	4258	4330	17220
8.75 - 1	830	1818	1833	17220

DAYS INTERVAL BETWEEN EVENTS

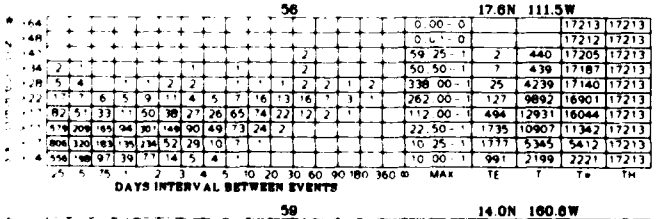
54 18.2N 168.8E



MAX	TE	T	Te	TH
0.00 - 0			17219	17219
0.50 - 1	1	2	17216	17219
0.25 - 2	2	2	17202	17219
62.50 - 1	14	1015	17154	17219
182.00 - 1	63	6159	16996	17219
78.75 - 1	332	10437	16106	17219
48.00 - 1	832	11652	13674	17219
13.75 - 1	1209	6999	7246	17219
6.50 - 1	812	2691	2730	17219
3.00 - 1	422	799	808	17219

DAYS INTERVAL BETWEEN EVENTS

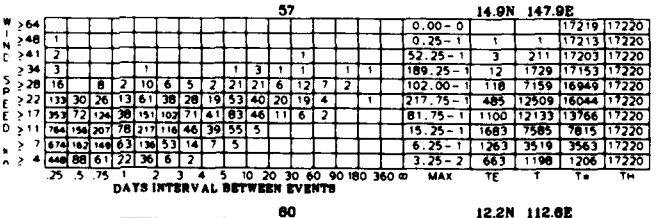
56 17.6N 111.5W



MAX	TE	T	Te	TH
0.00 - 0			17213	17213
0.00 - 0			17212	17213
59.25 - 1	2	440	17205	17213
50.50 - 1	7	439	17187	17213
338.00 - 1	25	4239	17140	17213
262.00 - 1	127	9892	16901	17213
112.00 - 1	494	12931	16044	17213
22.50 - 1	1735	10907	11342	17213
10.25 - 1	1777	5345	5412	17213
10.00 - 1	991	2199	2221	17213

DAYS INTERVAL BETWEEN EVENTS

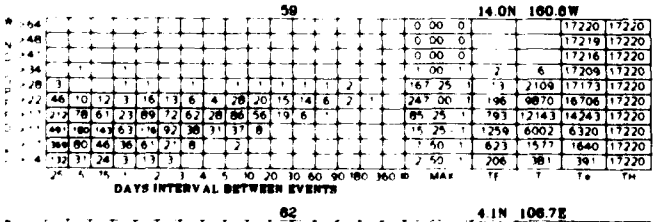
57 14.9N 147.9E



MAX	TE	T	Te	TH
0.00 - 0			17219	17220
0.25 - 1	1	1	17213	17220
52.25 - 1	3	211	17203	17220
189.25 - 1	12	1729	17153	17220
102.00 - 1	118	7159	16949	17220
217.75 - 1	485	12509	16044	17220
81.75 - 1	1100	12133	13766	17220
15.25 - 1	1683	7585	7815	17220
6.25 - 1	1263	3519	3563	17220
3.25 - 2	663	1198	1206	17220

DAYS INTERVAL BETWEEN EVENTS

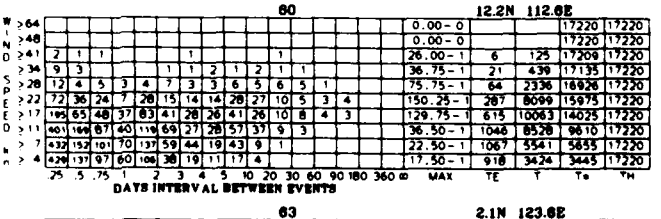
59 14.0N 160.8W



MAX	TE	T	Te	TH
0.00 - 0			17220	17220
0.00 - 0			17219	17220
0.00 - 0			17216	17220
1.00 - 1	2	6	17209	17220
167.25 - 1	13	2109	17173	17220
249.00 - 1	196	9870	16706	17220
89.25 - 1	793	12143	14243	17220
15.25 - 1	1259	6002	6320	17220
7.50 - 1	623	1577	1640	17220
2.50 - 1	206	381	391	17220

DAYS INTERVAL BETWEEN EVENTS

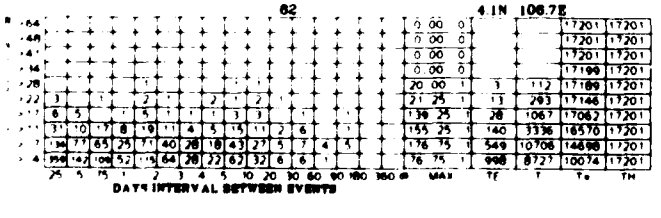
60 12.2N 112.6E



MAX	TE	T	Te	TH
0.00 - 0			17220	17220
0.00 - 0			17220	17220
26.00 - 1	6	125	17209	17220
36.75 - 1	21	439	17135	17220
75.75 - 1	64	2336	16926	17220
150.25 - 1	287	8099	15975	17220
129.75 - 1	615	10063	14025	17220
36.50 - 1	1046	8528	9810	17220
22.50 - 1	1067	5541	5855	17220
17.50 - 1	918	3424	3445	17220

DAYS INTERVAL BETWEEN EVENTS

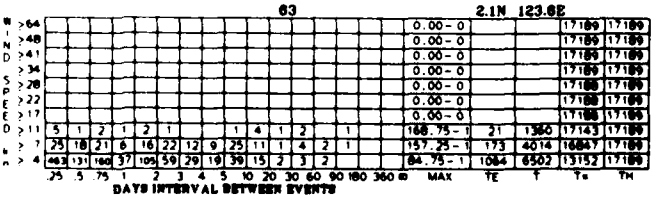
62 4.1N 106.7E



MAX	TE	T	Te	TH
0.00 - 0			17201	17201
0.00 - 0			17201	17201
0.00 - 0			17201	17201
0.00 - 0			17199	17201
20.00 - 1	3	112	17189	17201
21.25 - 1	13	293	17146	17201
139.25 - 1	28	1067	17062	17201
155.25 - 1	140	3336	16570	17201
176.75 - 1	549	10706	14698	17201
76.75 - 1	998	8727	10074	17201

DAYS INTERVAL BETWEEN EVENTS

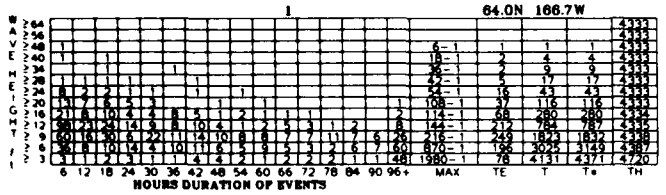
63 2.1N 123.8E

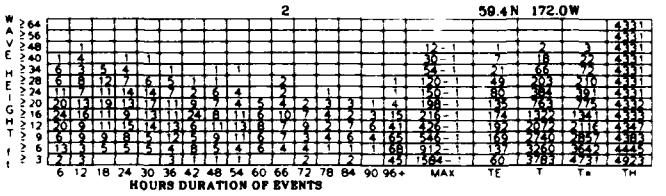


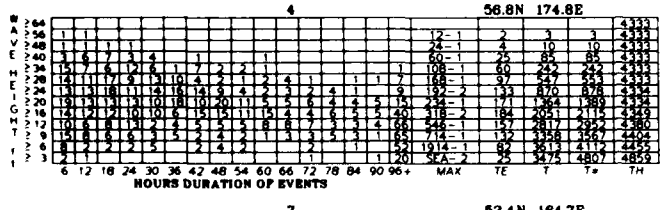
MAX	TE	T	Te	TH
0.00 - 0			17189	17189
0.00 - 0			17189	17189
0.00 - 0			17189	17189
0.00 - 0			17189	17189
0.00 - 0			17189	17189
0.00 - 0			17189	17189
0.00 - 0			17189	17189
188.75 - 1	21	1360	17143	17189
157.25 - 1	173	4014	16847	17189
84.75 - 1	1084	6502	13152	17189

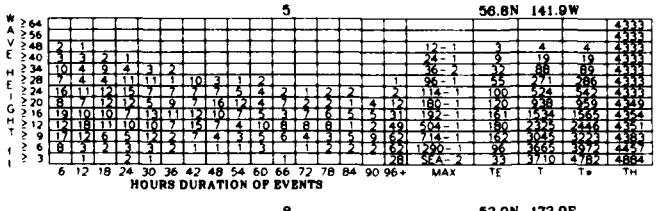
DAYS INTERVAL BETWEEN EVENTS

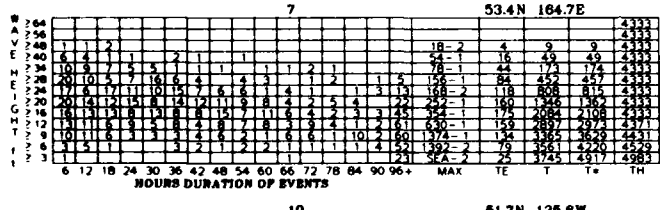
WAVE HEIGHT DURATIONS

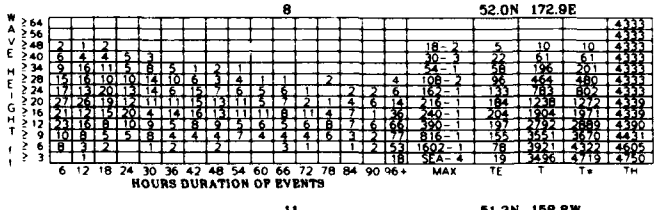


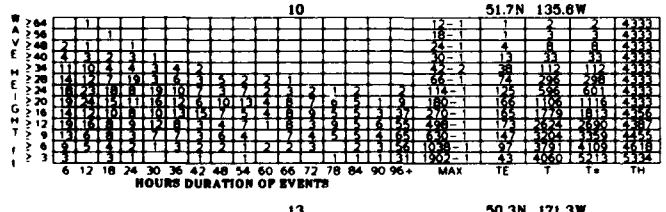


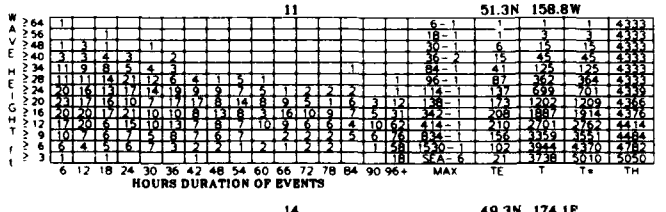


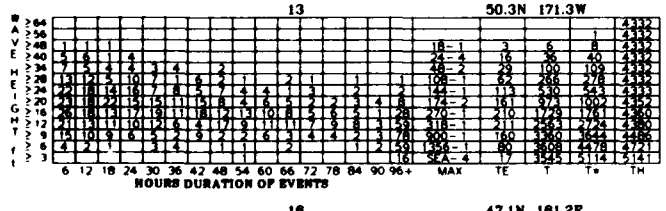


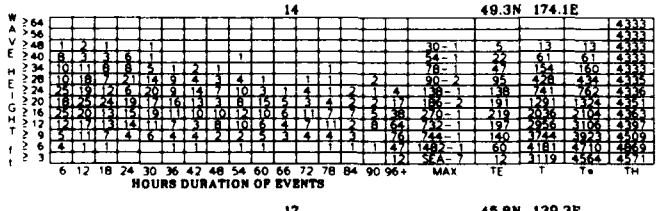


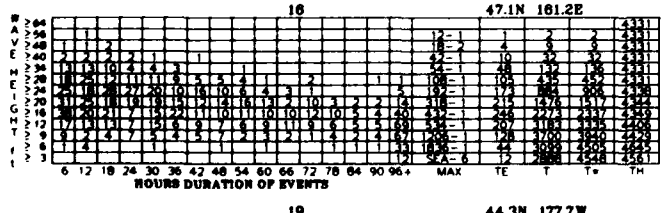


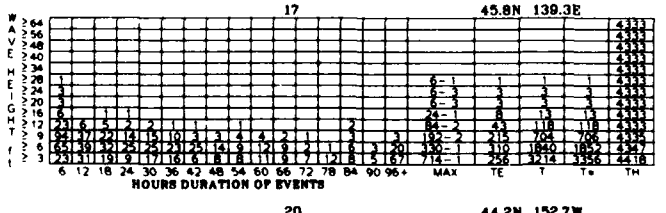


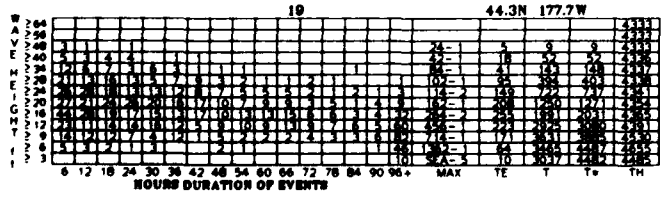


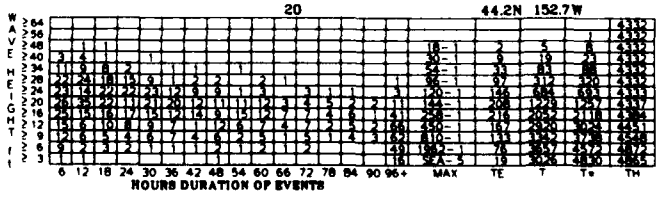




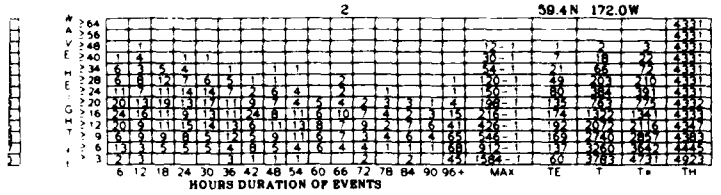


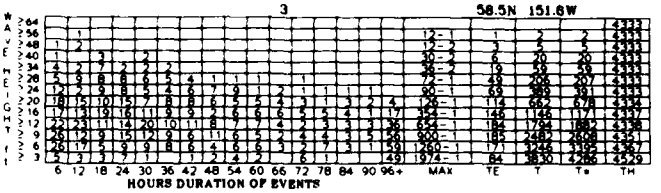


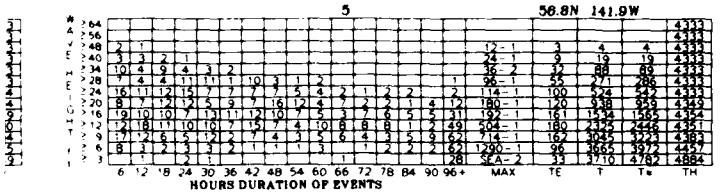


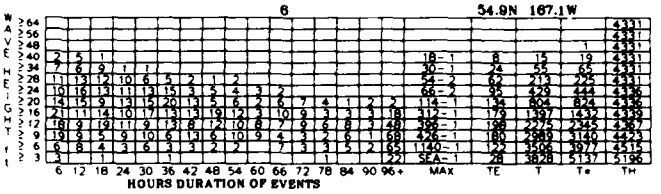


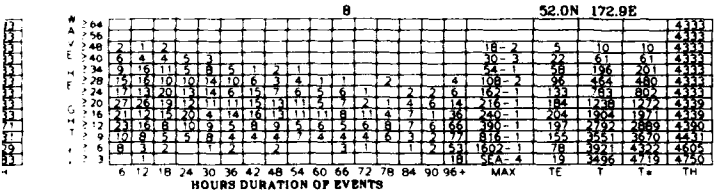
WINTER

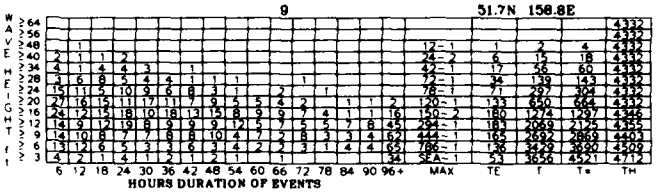

2
59.4N 172.0W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

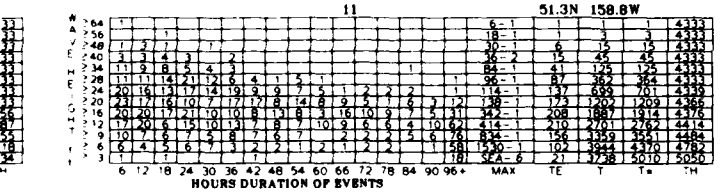

3
58.5N 151.6W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

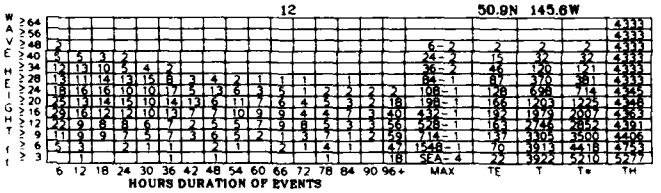

5
56.8N 141.9W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

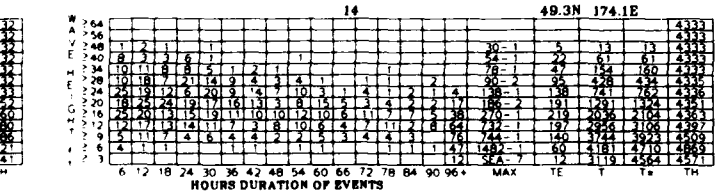

6
54.9N 167.1W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

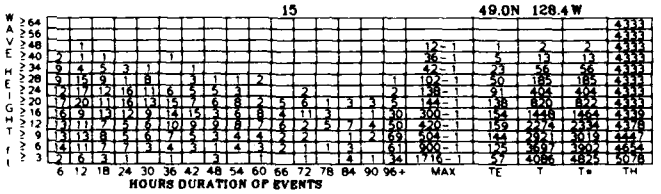

8
52.0N 172.9E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

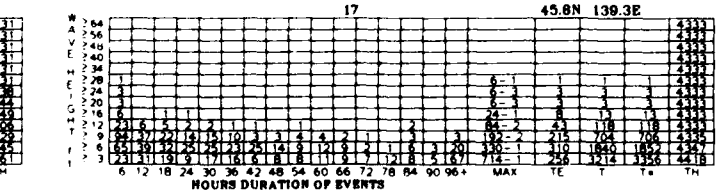

9
51.7N 158.8E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

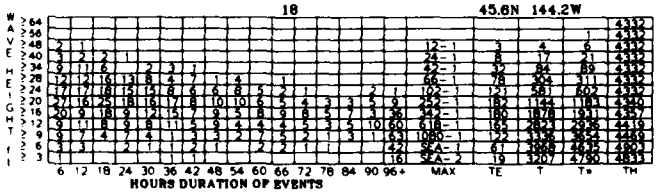

11
51.3N 158.8W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

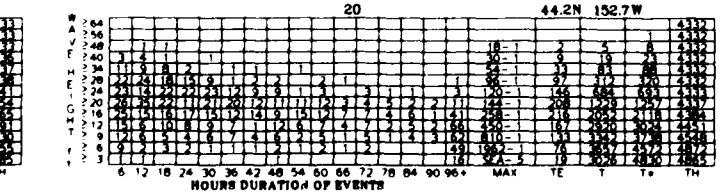

12
50.9N 145.6W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

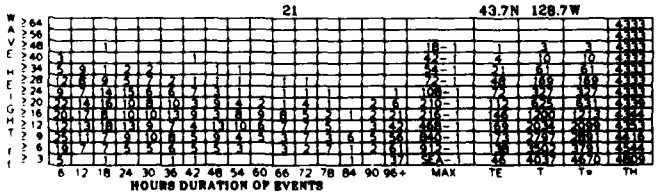

14
49.3N 174.1E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH


15
49.0N 128.4W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH


17
45.8N 139.3E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH


18
45.6N 144.2W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

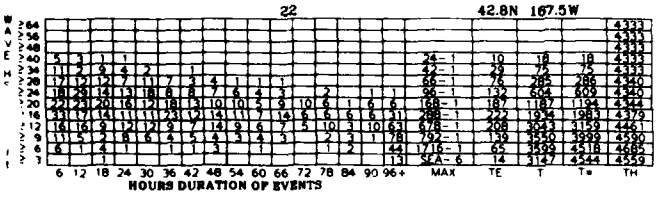

20
44.2N 152.7W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

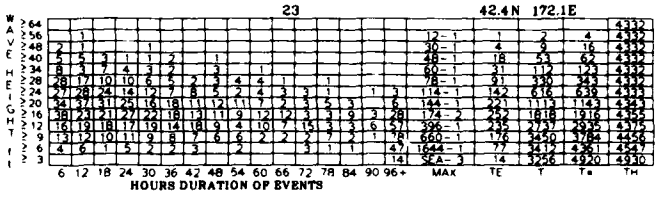

21
43.7N 128.7W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
MAX TE T Te TH

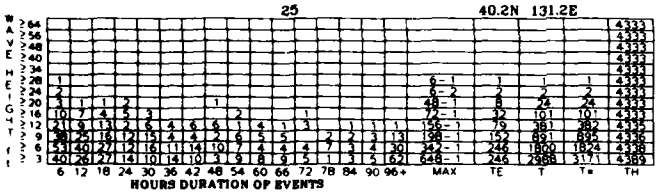
2

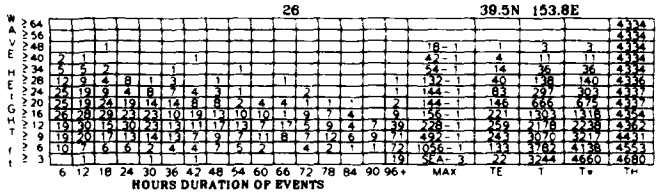
WINTER

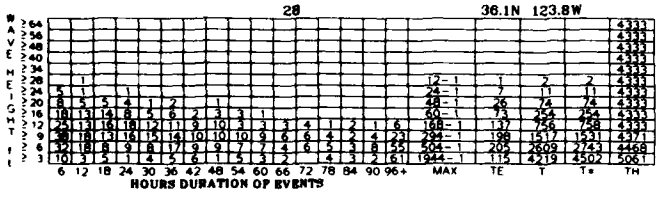
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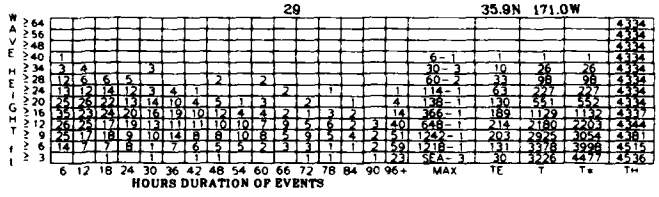


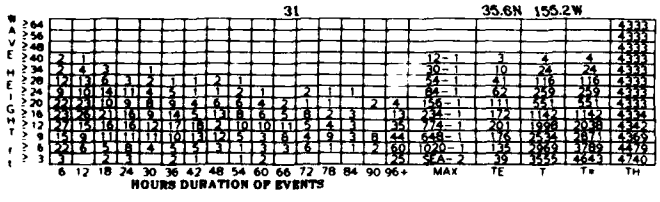


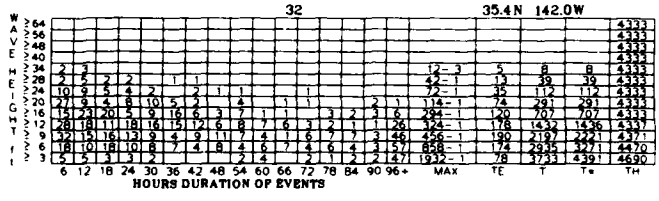


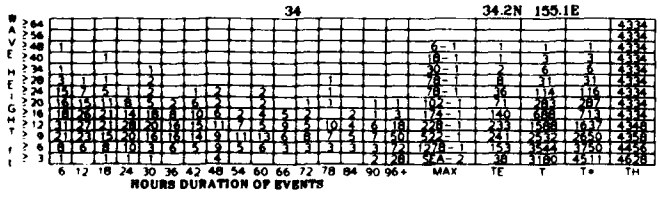


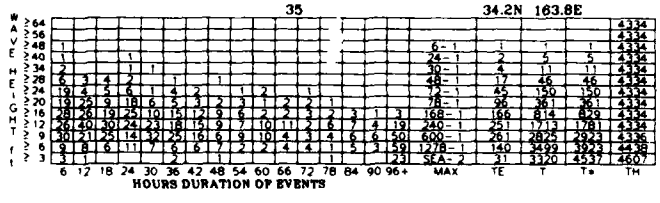


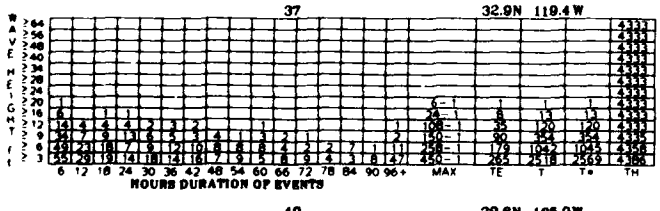


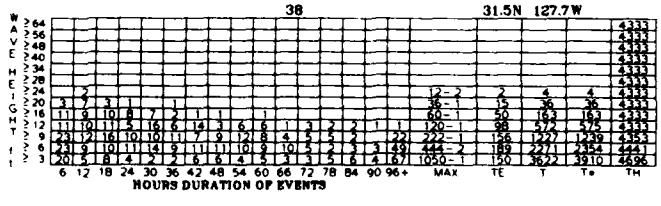


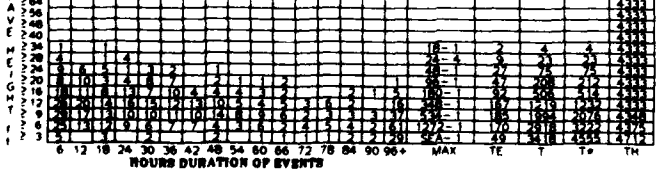


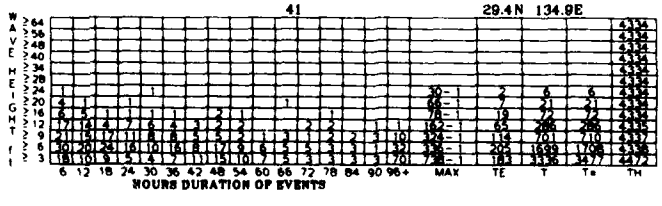




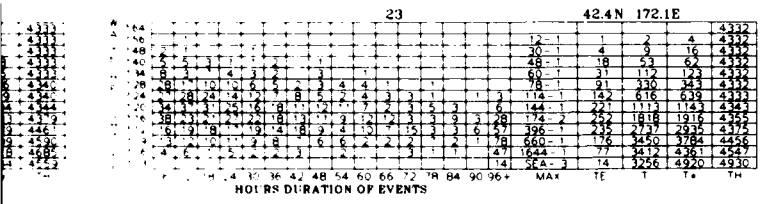


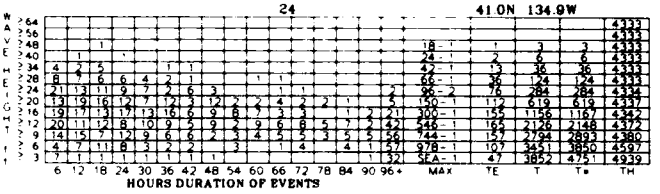


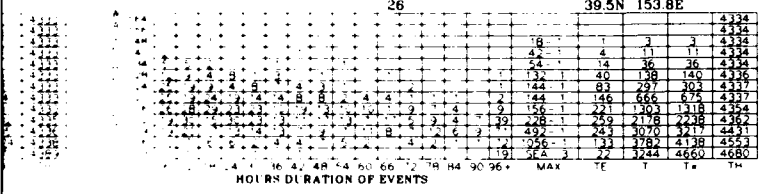


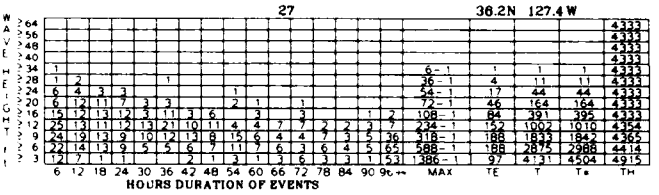


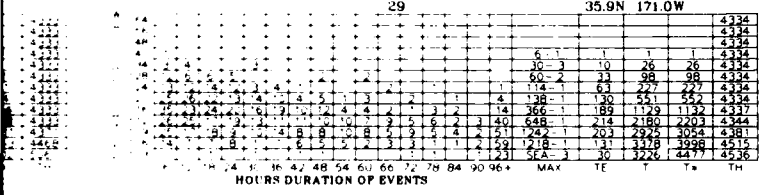
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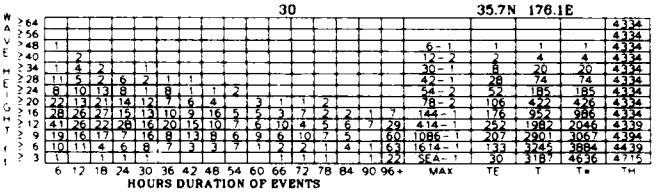


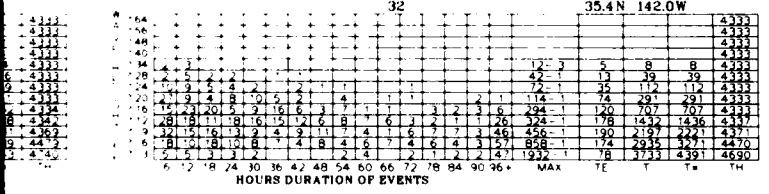


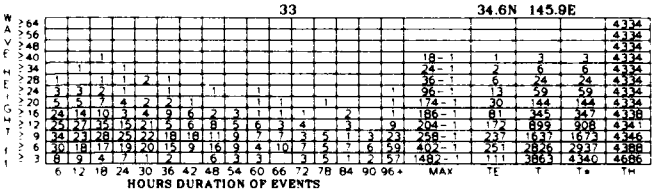


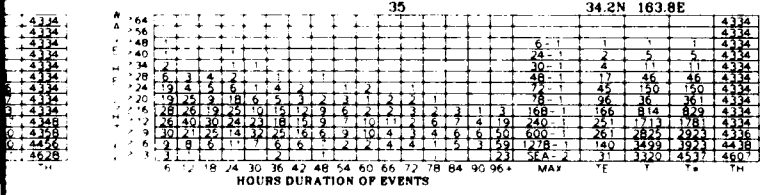


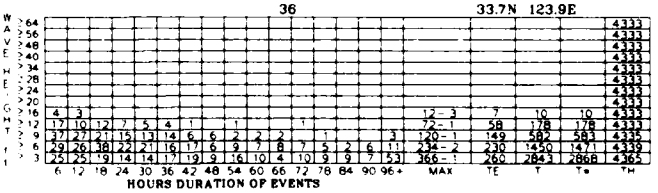


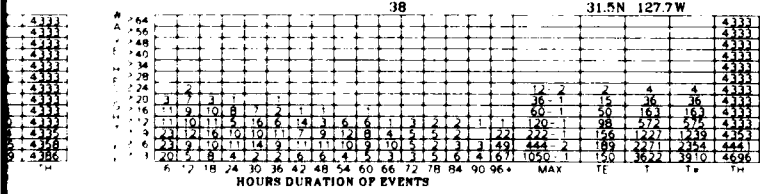


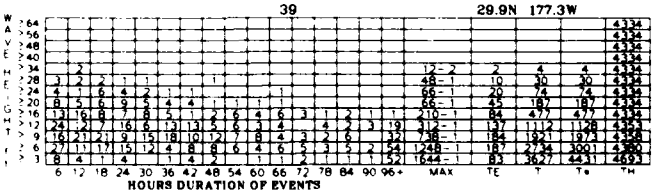


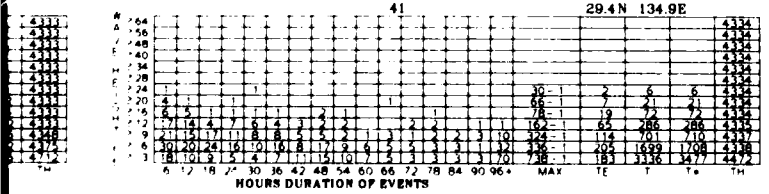


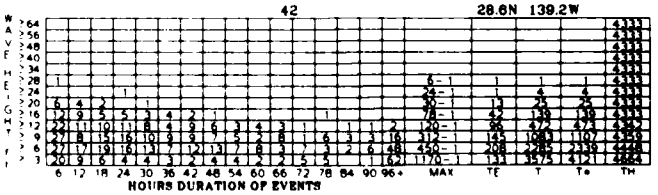




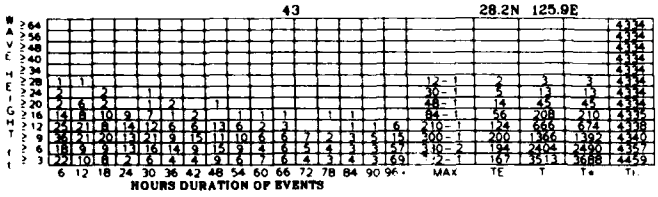


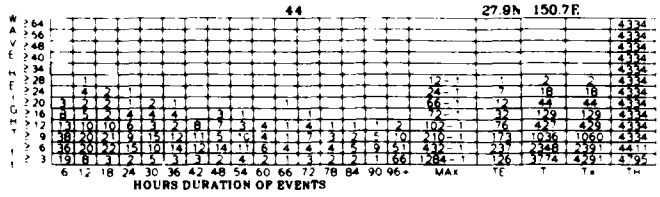


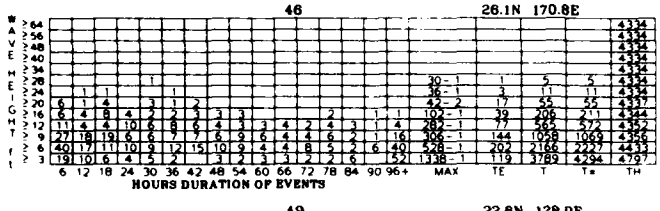


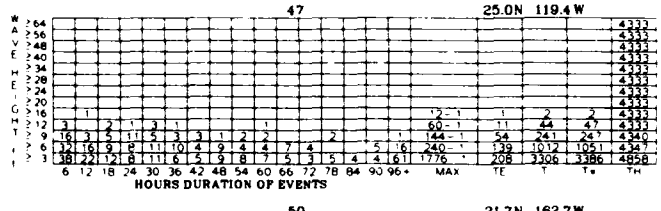


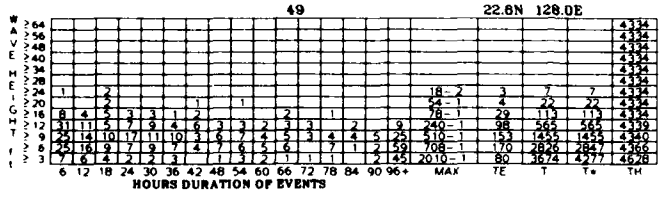
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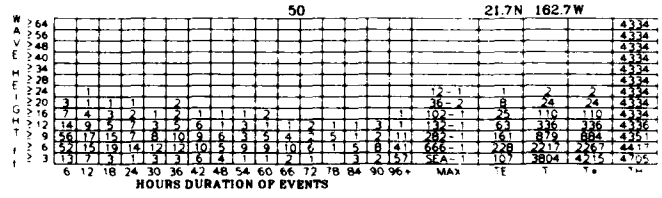


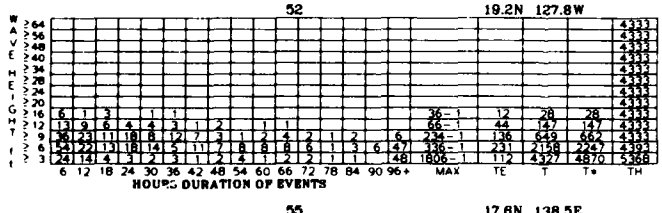


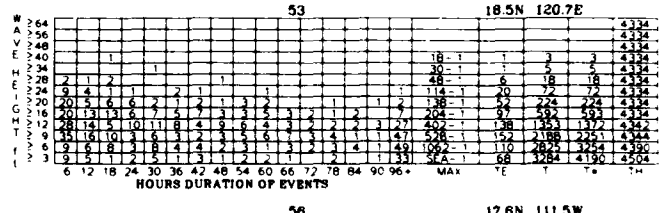


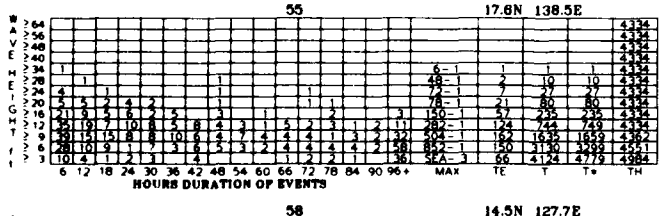


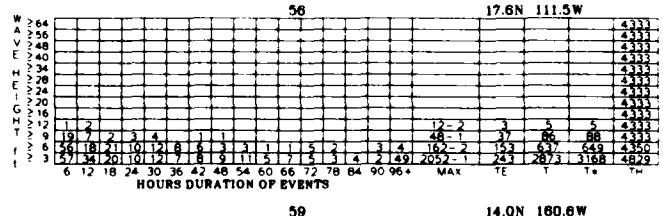


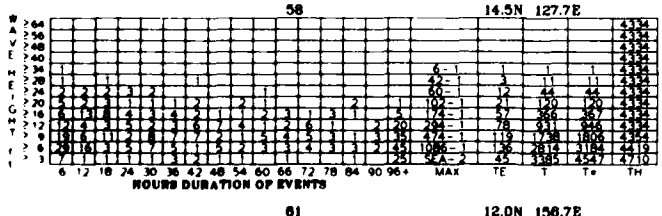


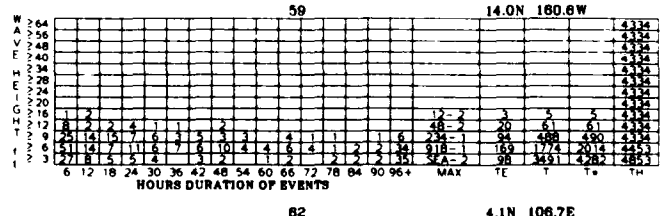


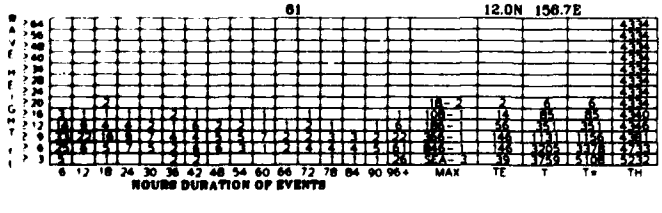


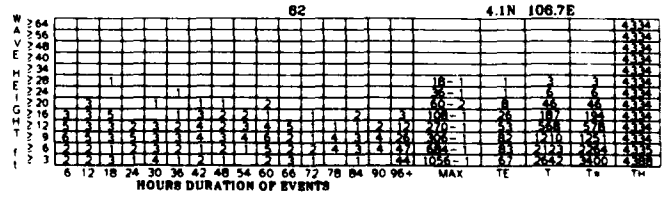






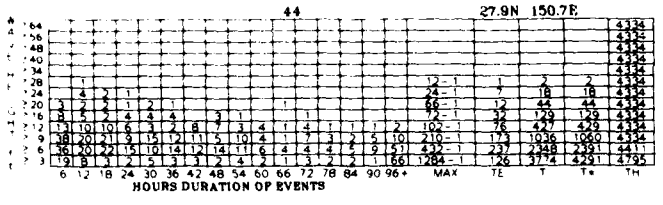


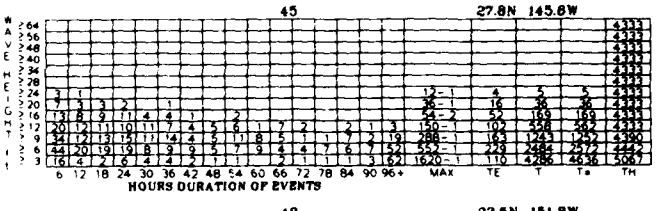


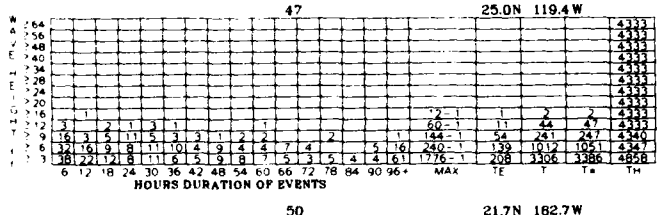


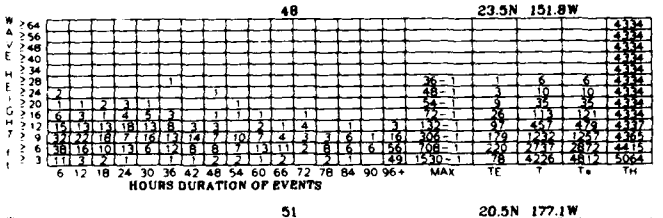
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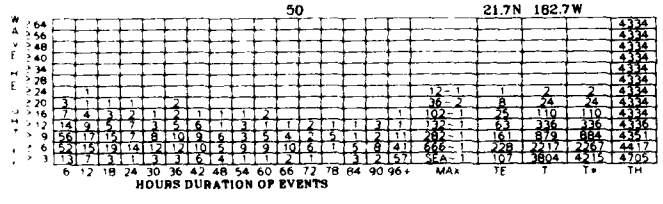
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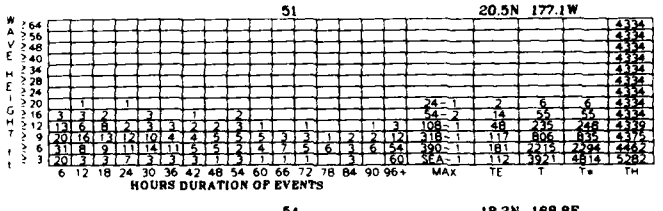


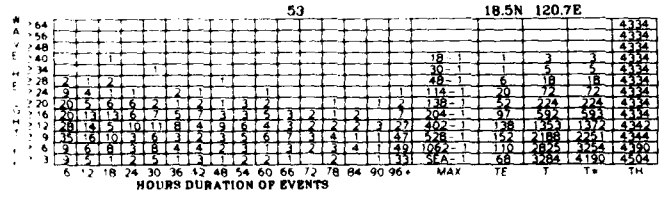


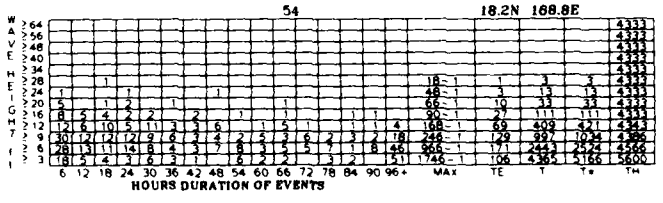


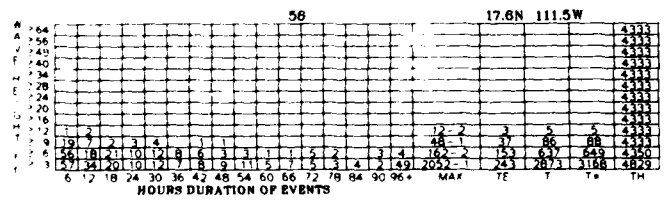


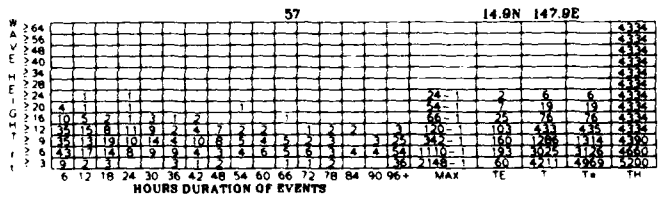


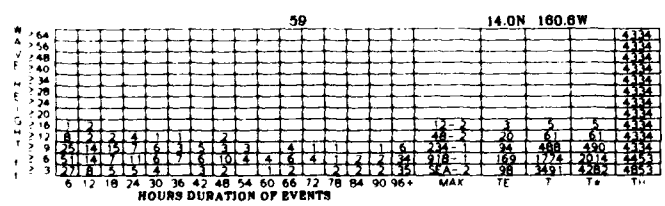


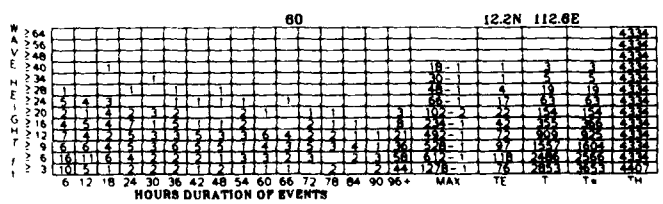


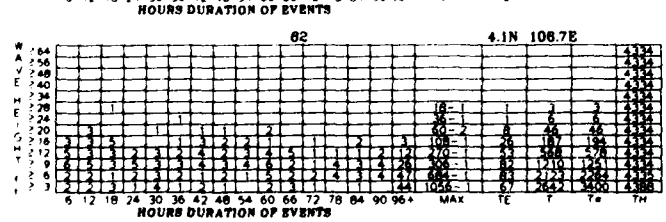


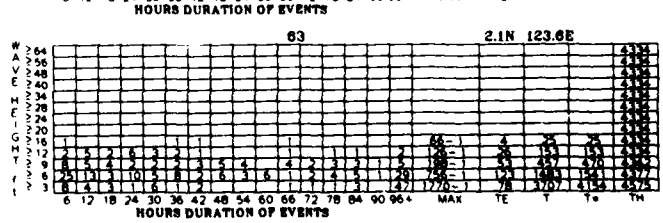




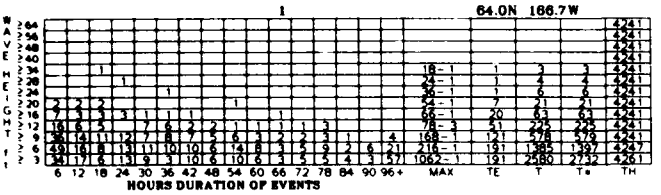


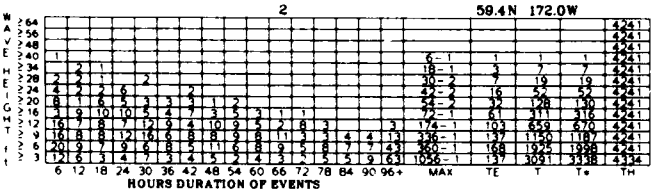


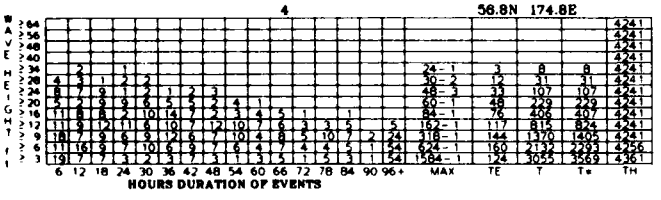


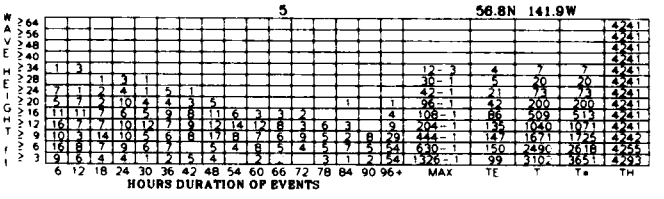


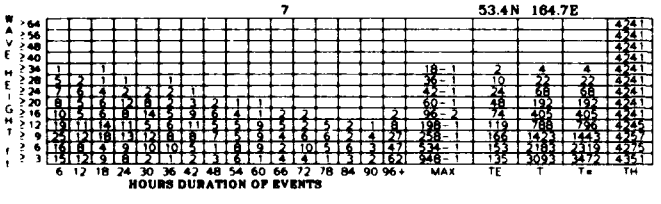
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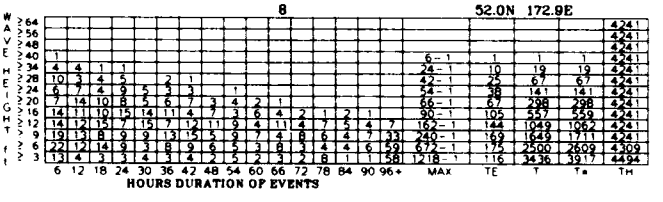

1
64.0N 166.7W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Ts TH

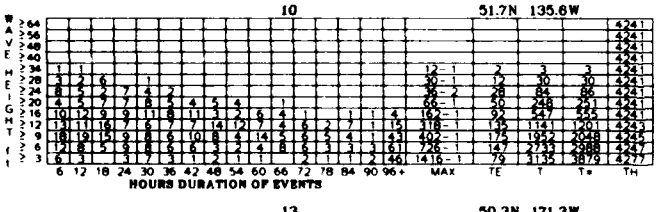

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59.4N 172.0W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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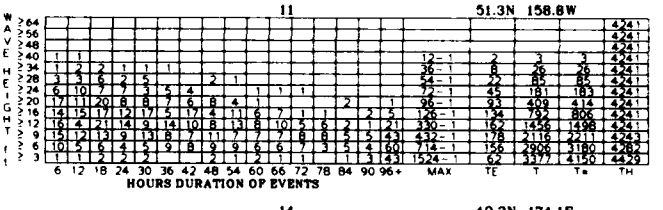

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56.8N 174.8E
WAVE HEIGHT ft
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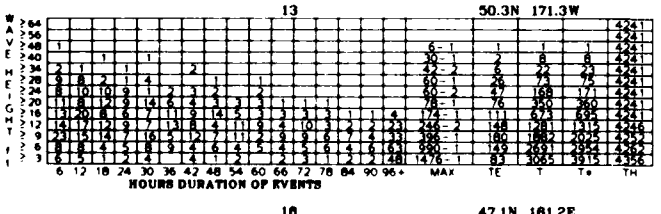

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56.8N 141.9W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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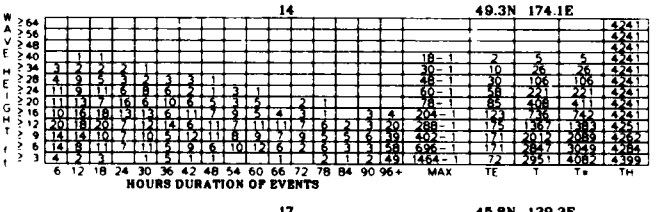

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53.4N 164.7E
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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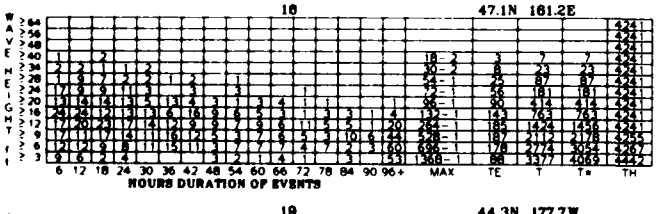

8
52.0N 172.9E
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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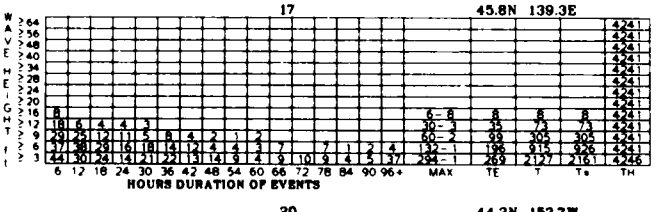

10
51.7N 135.6W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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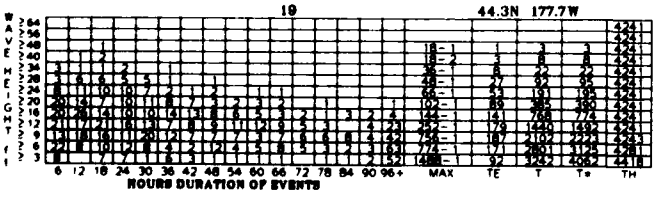

11
51.3N 158.8W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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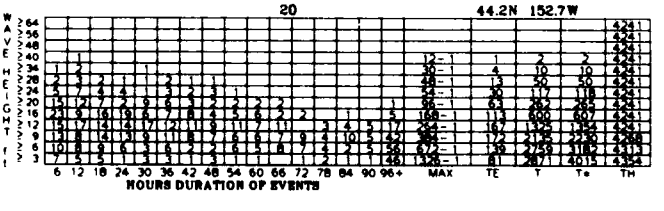

13
50.3N 171.3W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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14
49.3N 174.1E
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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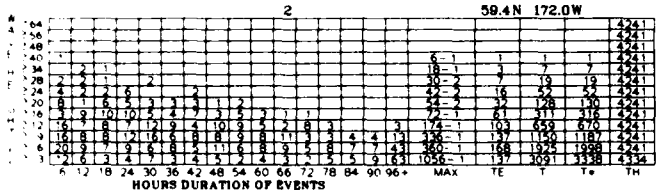

16
47.1N 161.2E
WAVE HEIGHT ft
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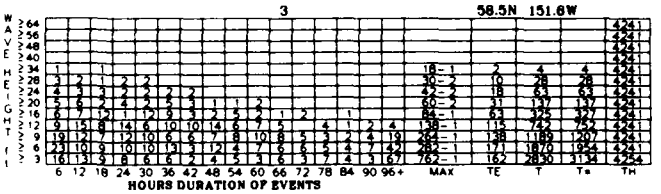

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45.8N 139.3E
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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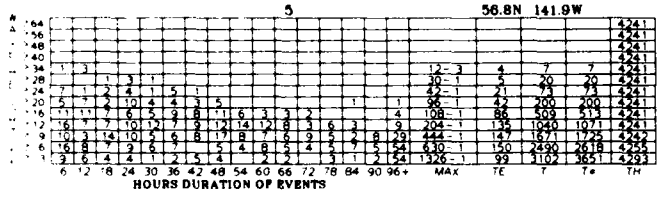

19
44.3N 177.7W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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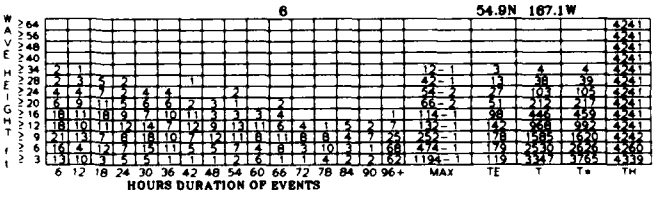

20
44.2N 152.7W
WAVE HEIGHT ft
HOURS DURATION OF EVENTS
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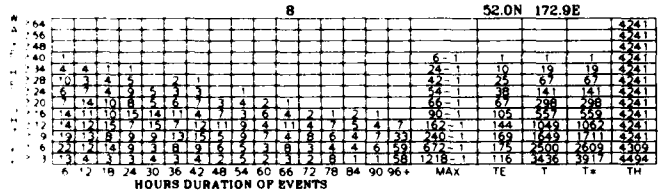
WAVE HEIGHT DURATIONS

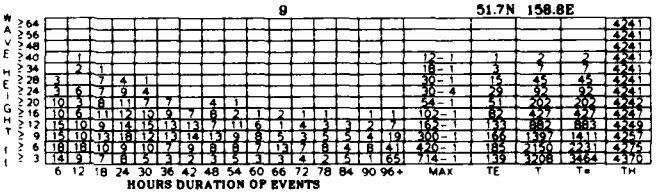


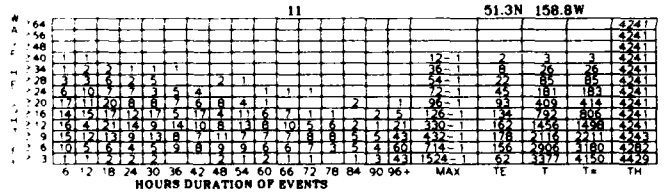


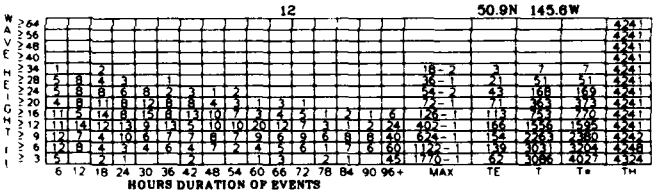


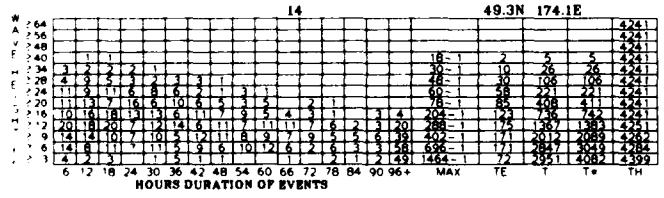


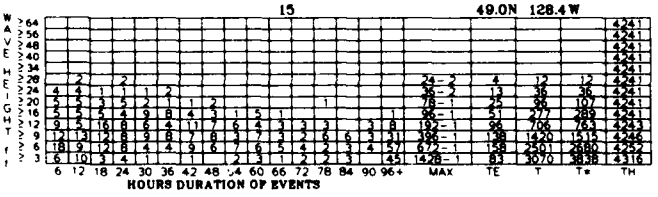


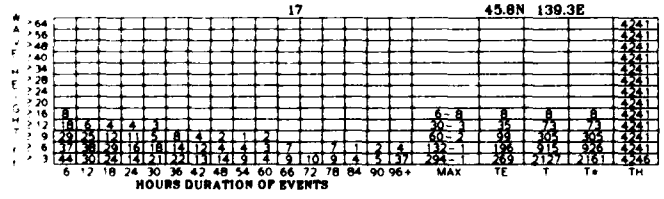


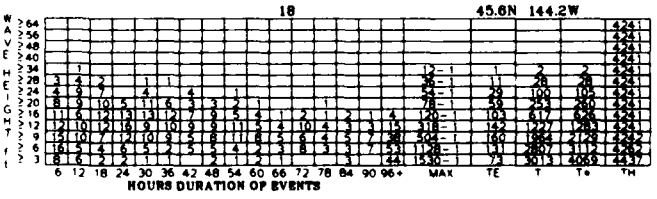


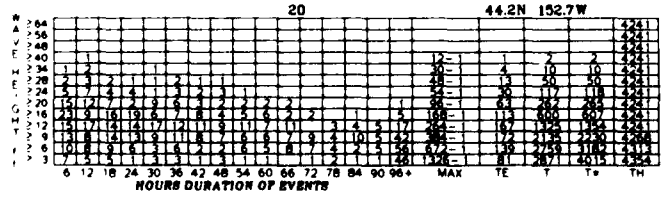


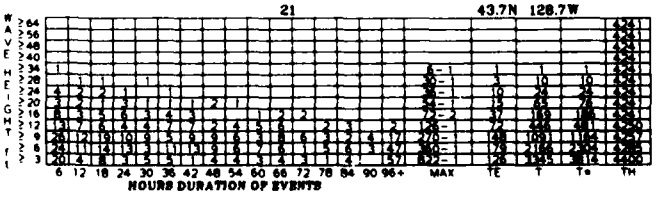




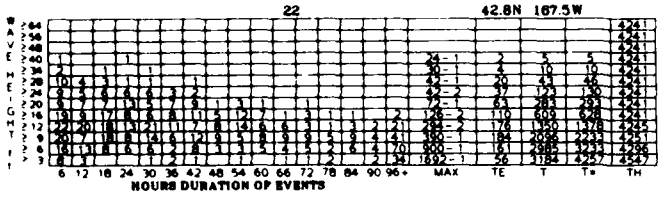


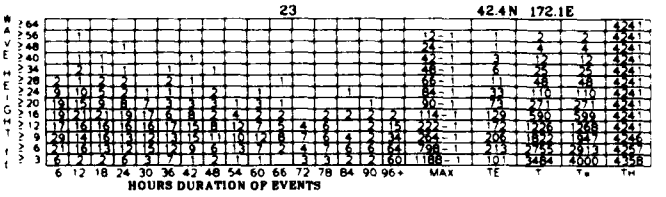


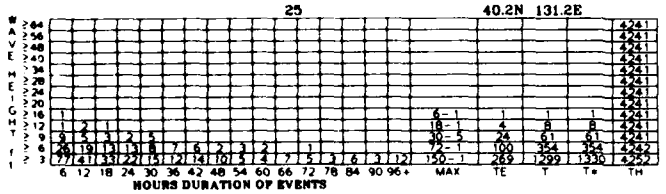


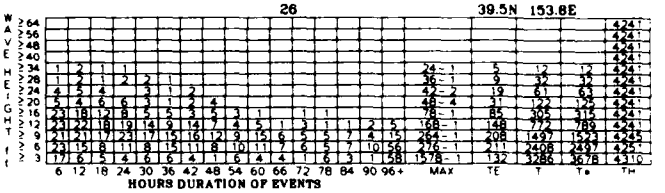


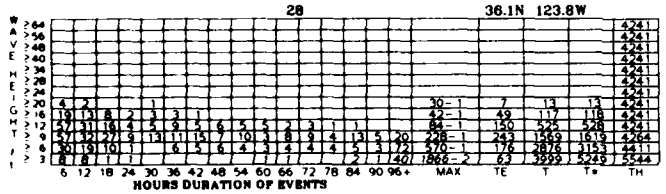
WAVE HEIGHT DURATIONS (Cont'd)

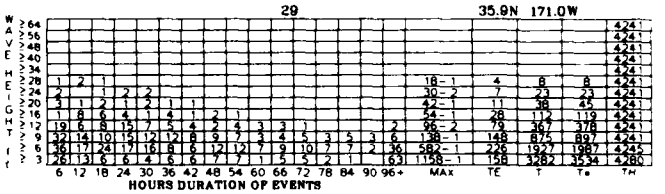


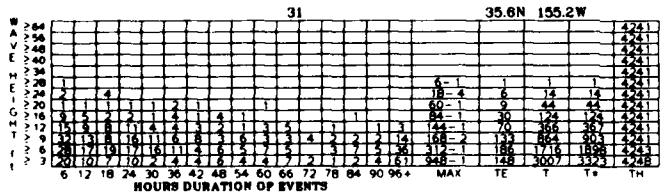


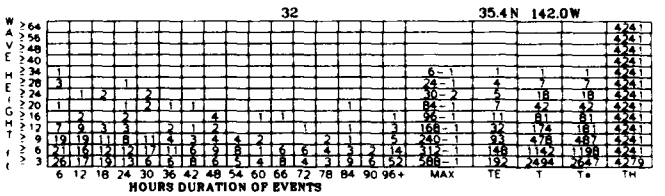


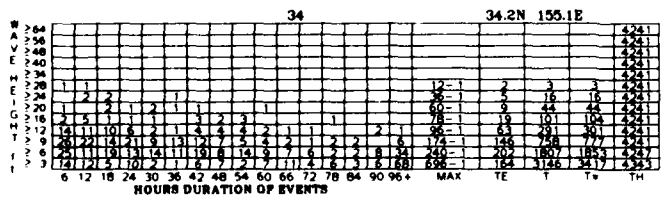


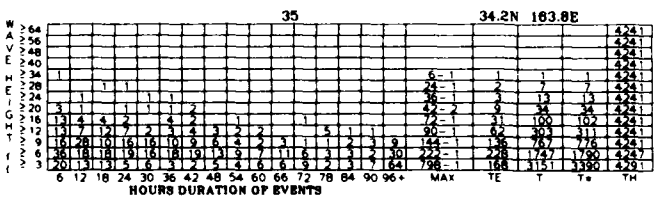


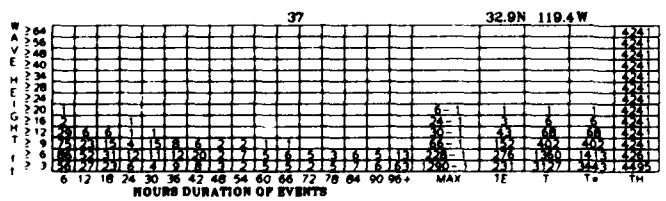


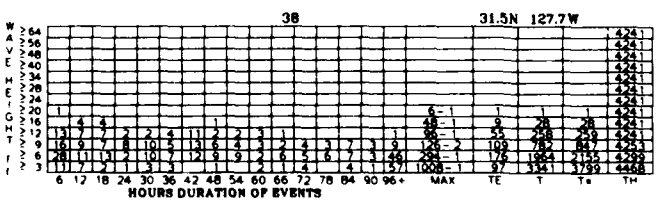


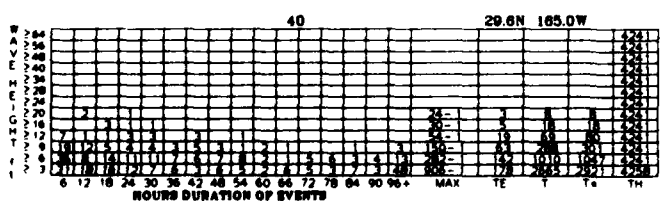


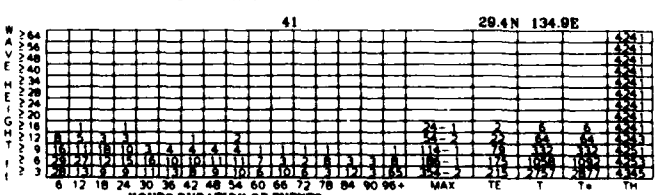






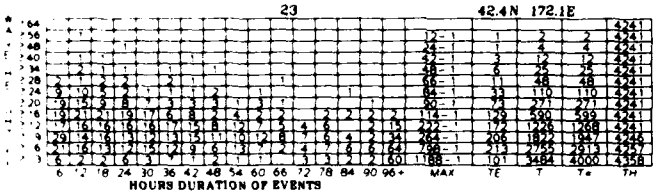


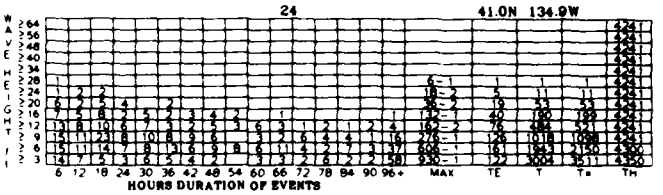


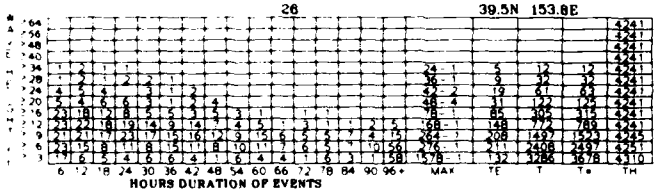


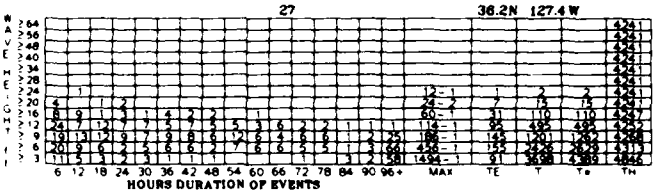
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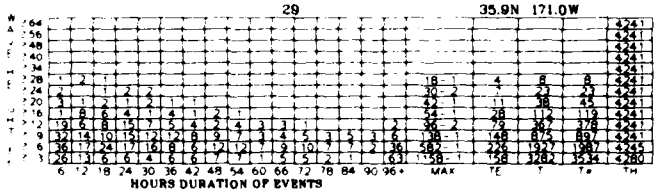
SPRING

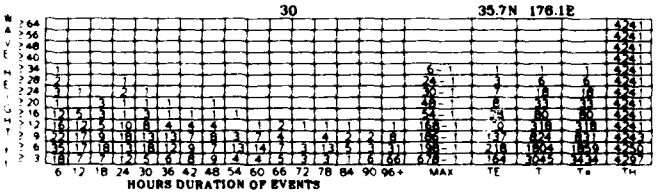


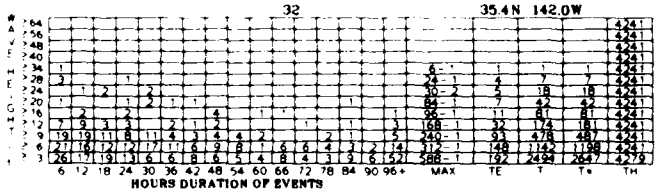


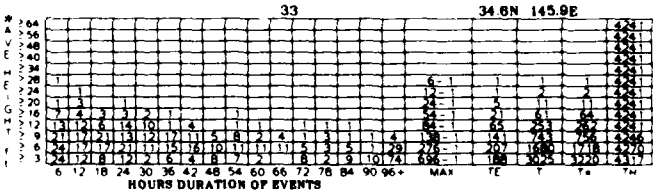


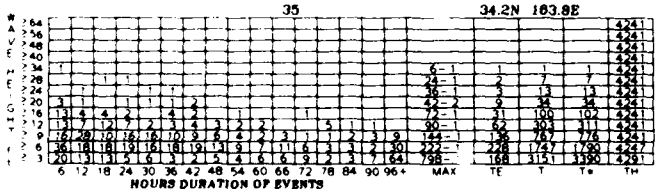


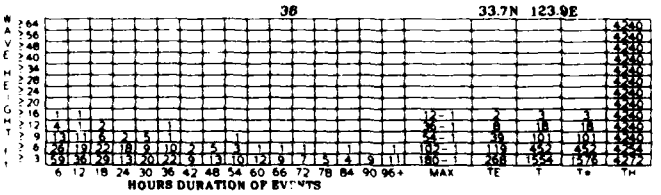


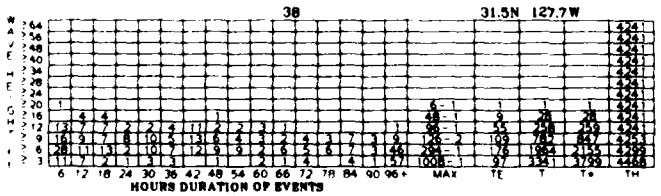


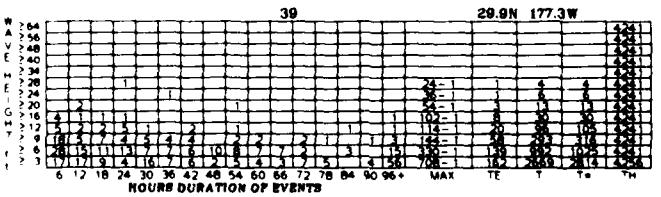


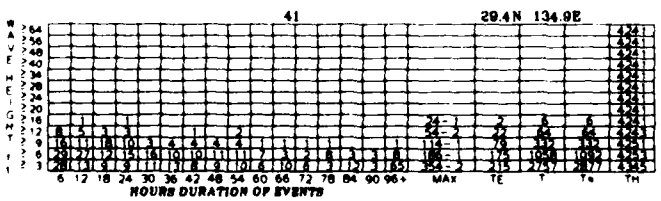


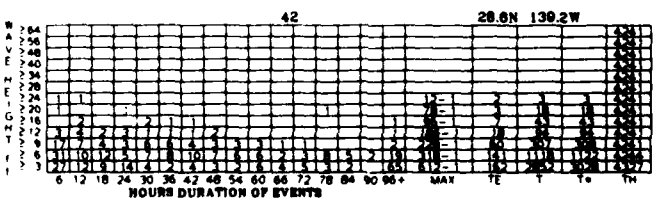






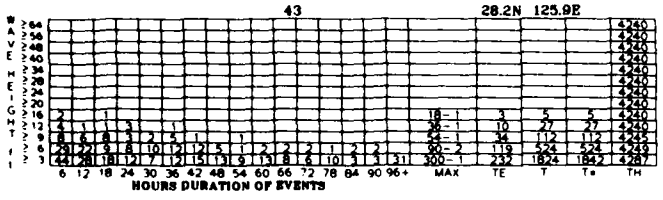


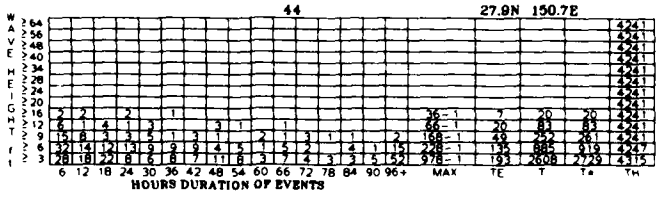


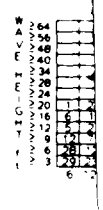


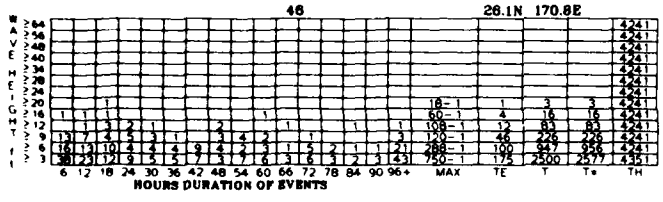
SPRING

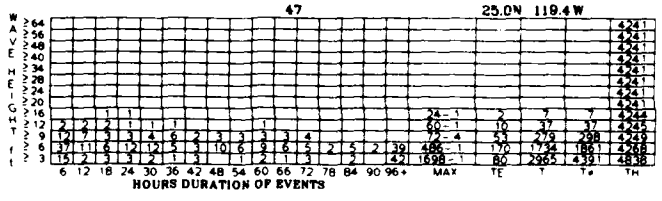
WAVE HEIGH

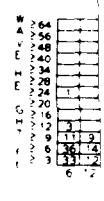


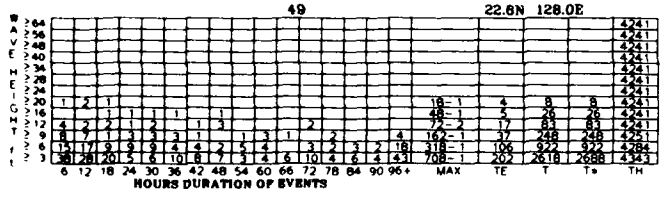


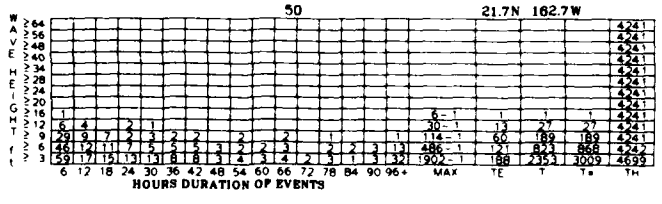


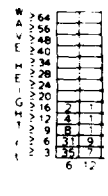


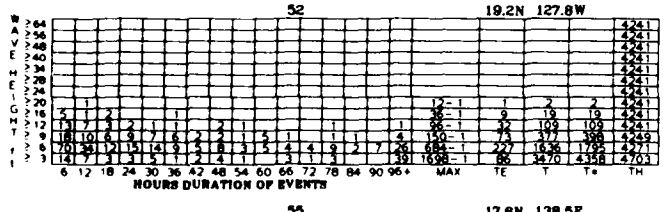


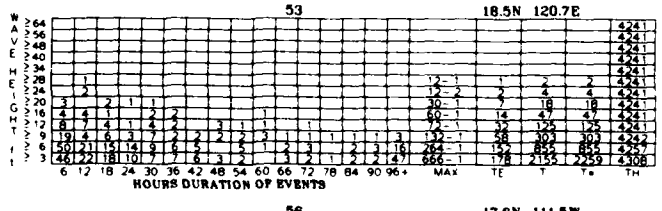


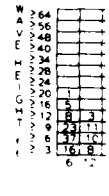


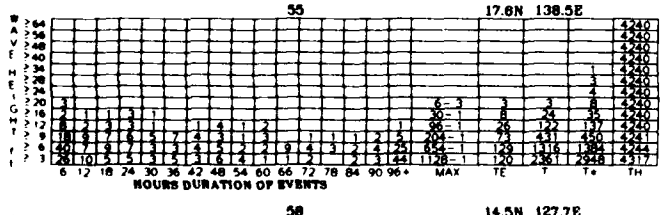


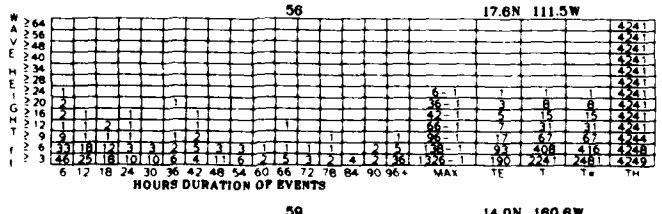


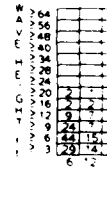


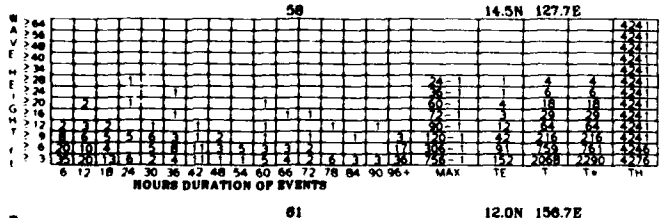


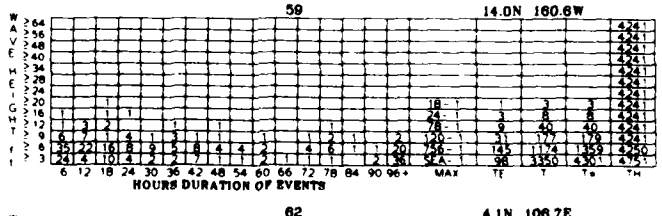


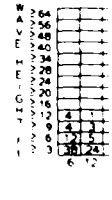


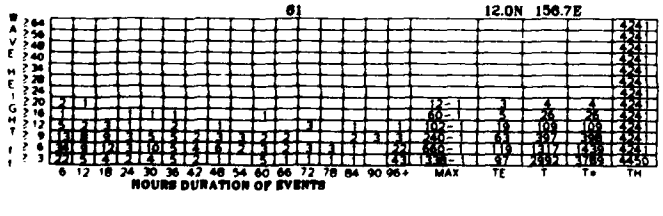


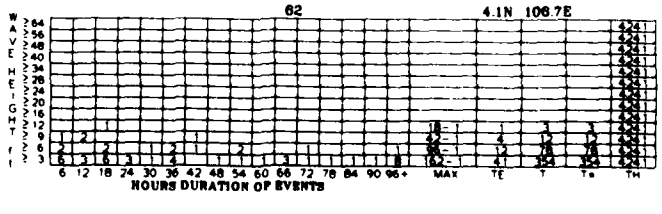


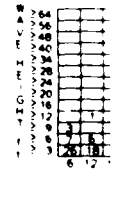




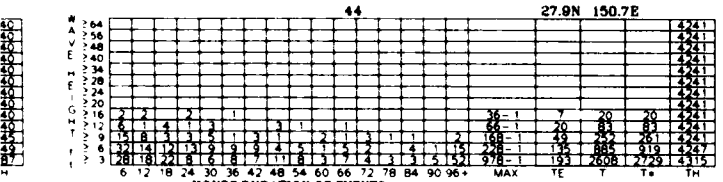


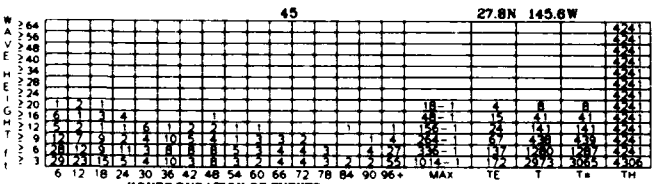


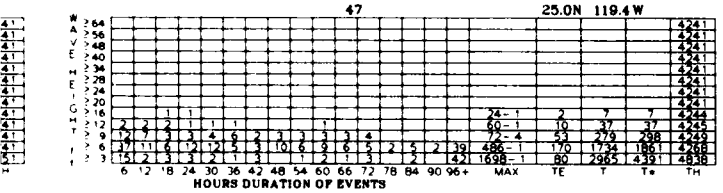


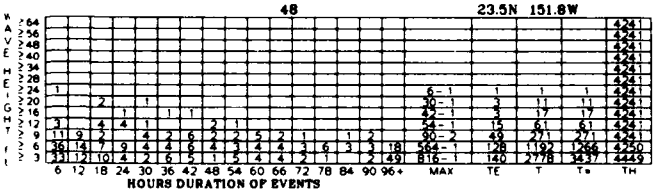


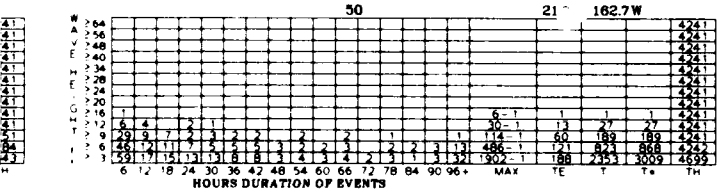
WAVE HEIGHT DURATIONS (Cont'd)

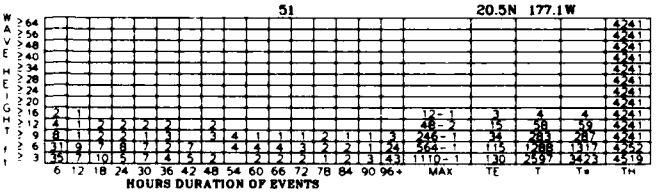


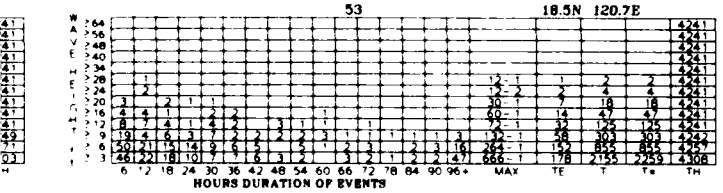


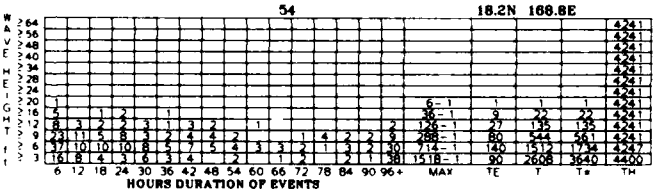


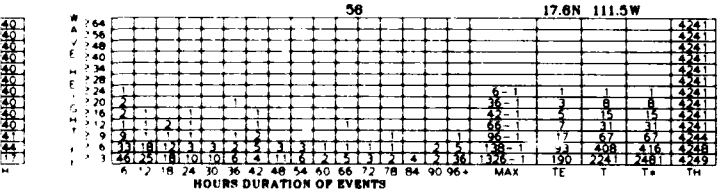


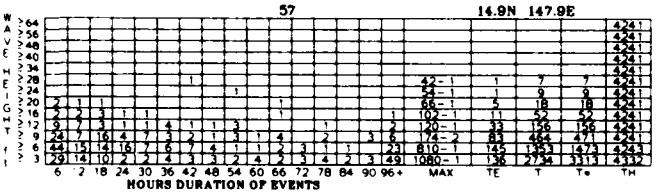


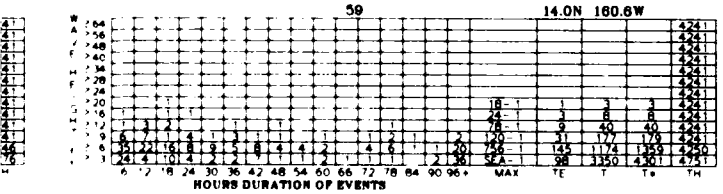


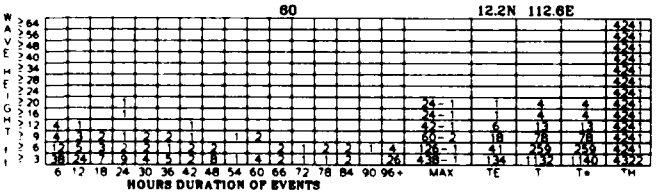


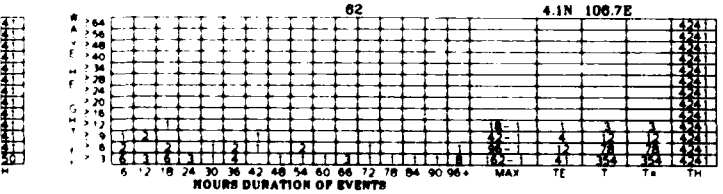


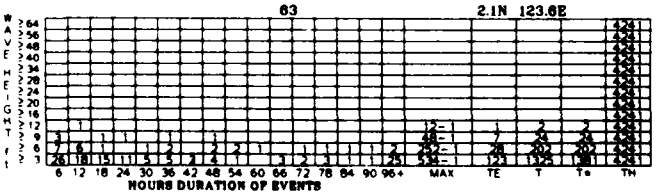




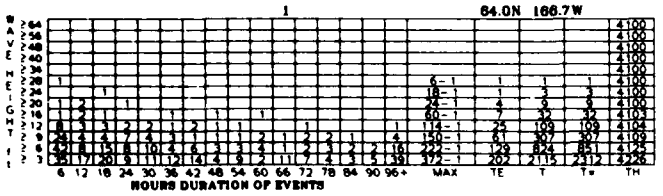


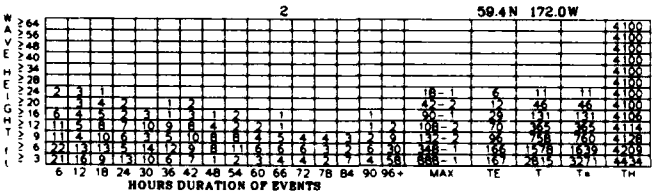


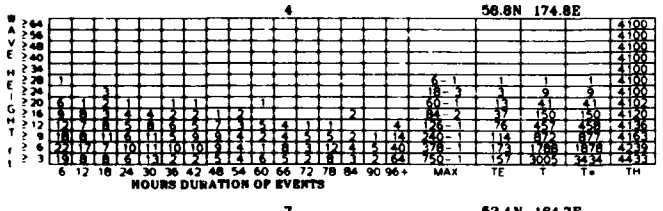


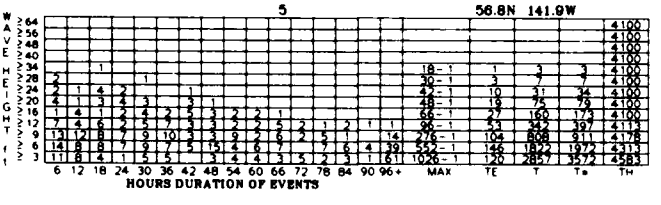


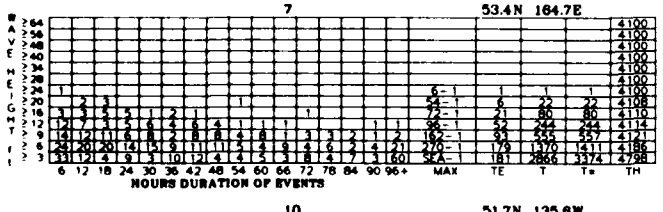
WAVE HEIGHT DURATIONS

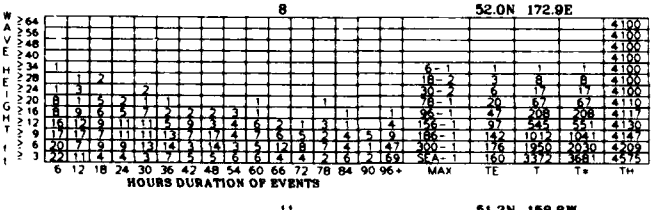


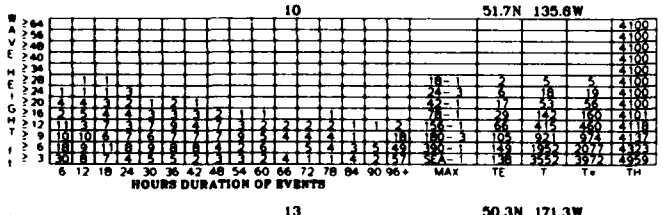


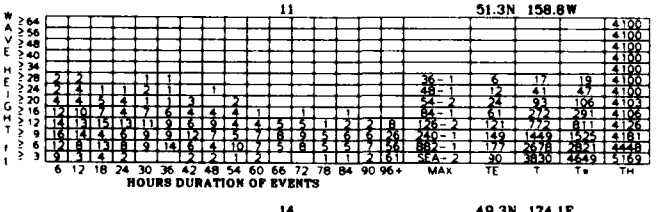


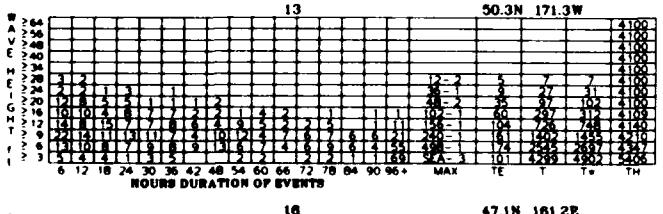


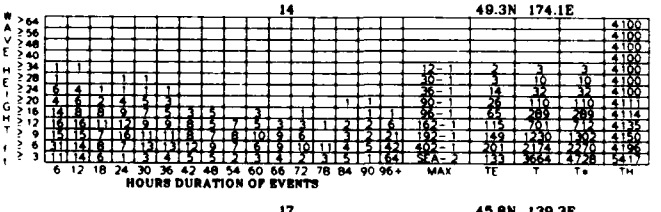


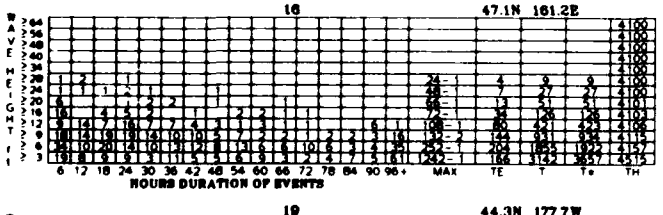


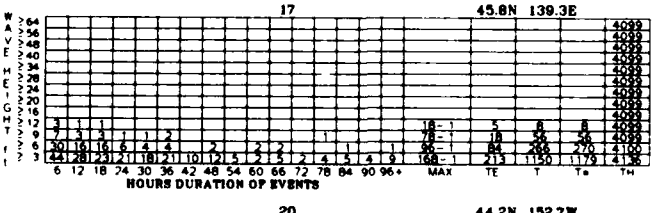


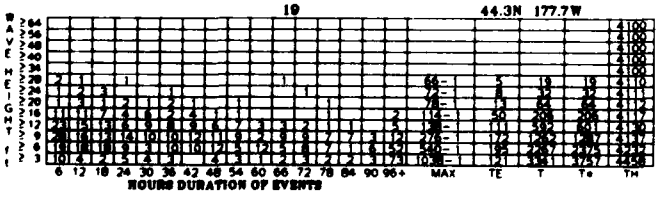


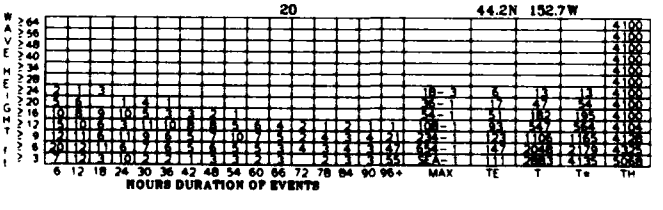




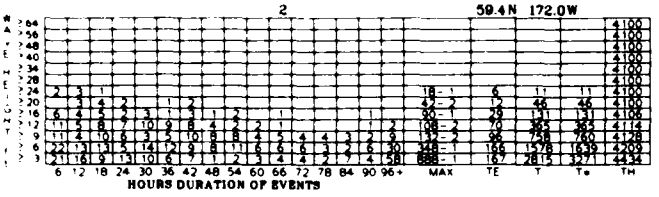


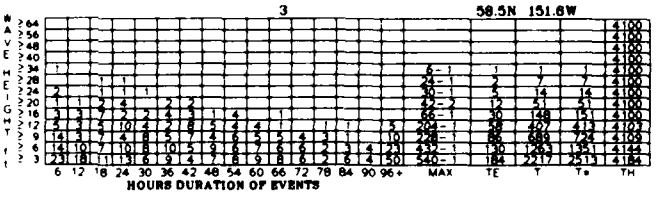


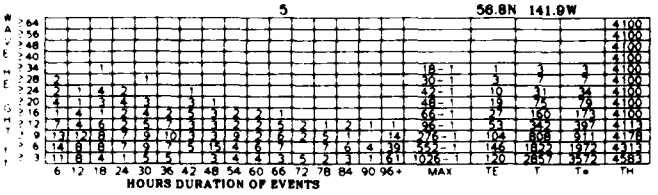


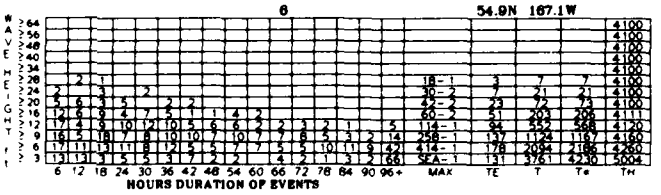


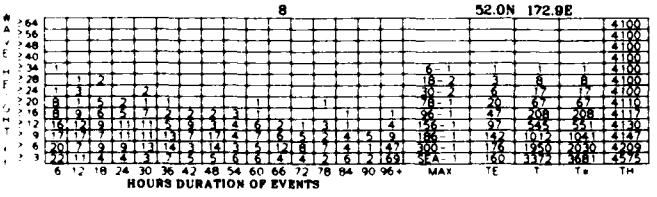
SUMMER

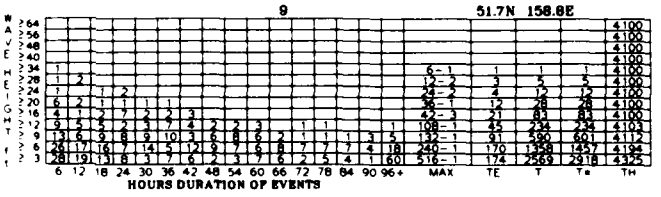

2
59.4N 172.0W
HOURS DURATION OF EVENTS

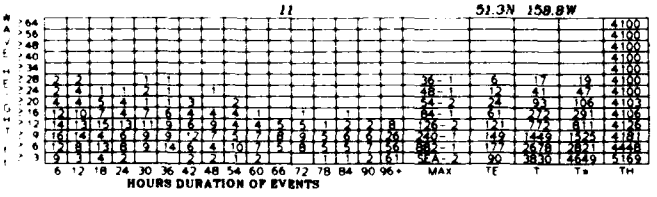

3
58.5N 151.6W
HOURS DURATION OF EVENTS

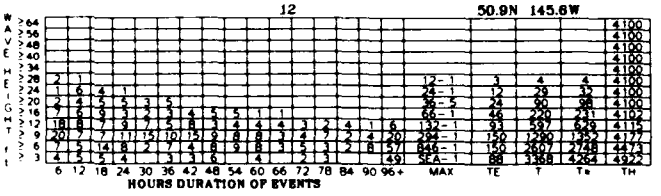

5
56.8N 141.9W
HOURS DURATION OF EVENTS

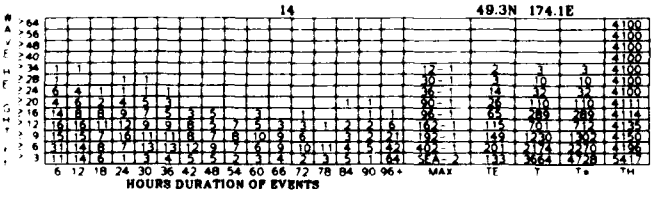

6
54.9N 167.1W
HOURS DURATION OF EVENTS

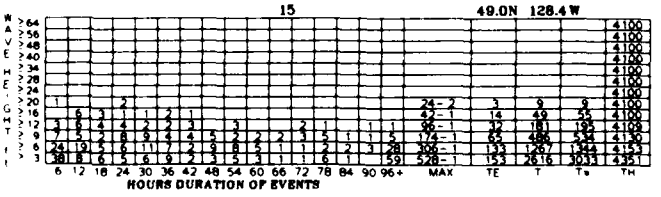

8
52.0N 172.9E
HOURS DURATION OF EVENTS

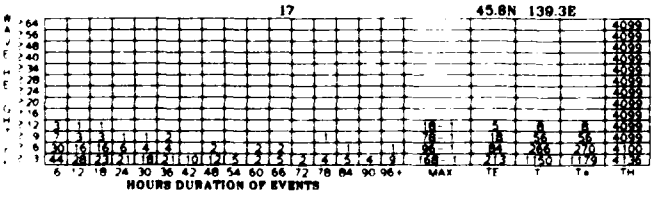

9
51.7N 158.8E
HOURS DURATION OF EVENTS

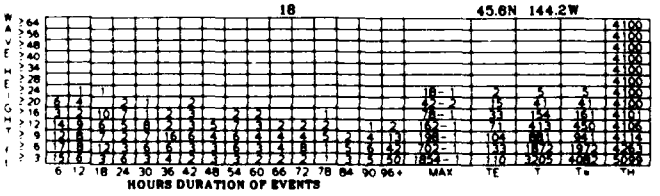

11
51.3N 159.8W
HOURS DURATION OF EVENTS

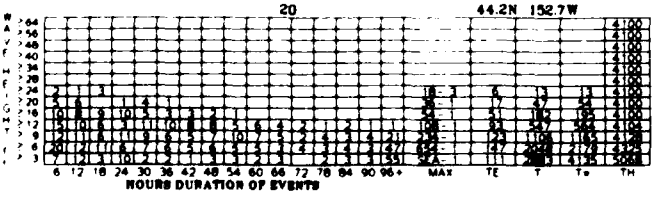

12
50.9N 145.6W
HOURS DURATION OF EVENTS

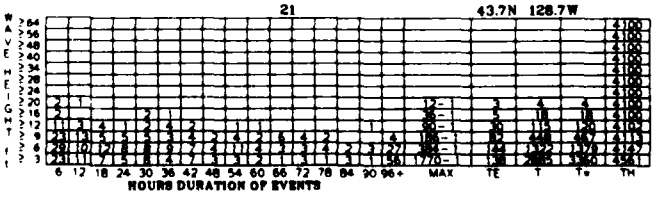

14
49.3N 174.1E
HOURS DURATION OF EVENTS


15
49.0N 128.4W
HOURS DURATION OF EVENTS


17
45.8N 139.3E
HOURS DURATION OF EVENTS

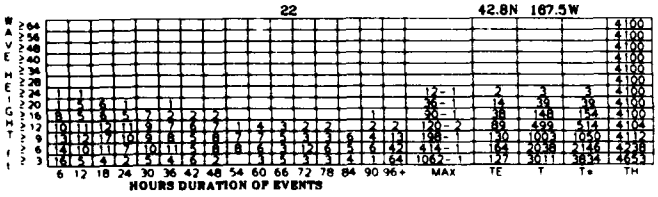

18
45.6N 144.2W
HOURS DURATION OF EVENTS

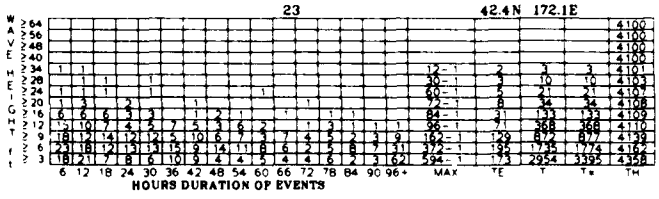

20
44.2N 152.7W
HOURS DURATION OF EVENTS

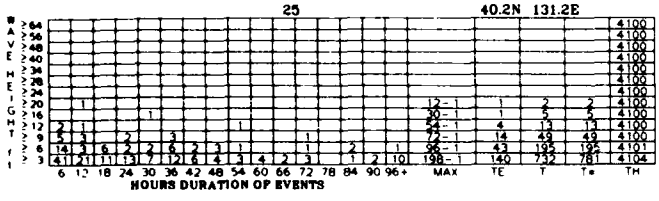

21
43.7N 128.7W
HOURS DURATION OF EVENTS

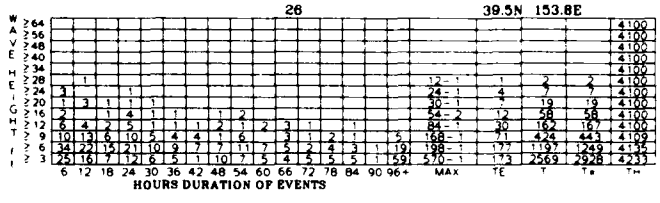
SUMMER

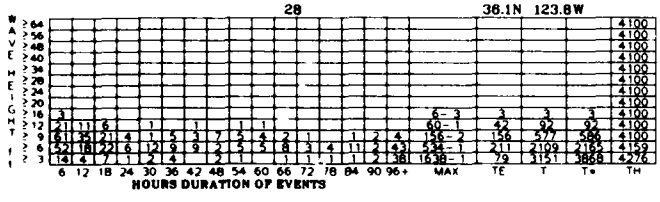
WAVE HEIGH

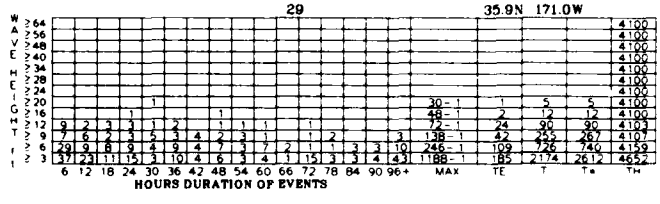


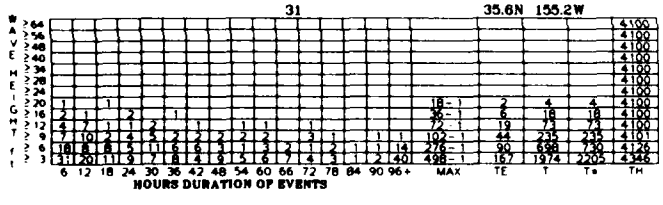


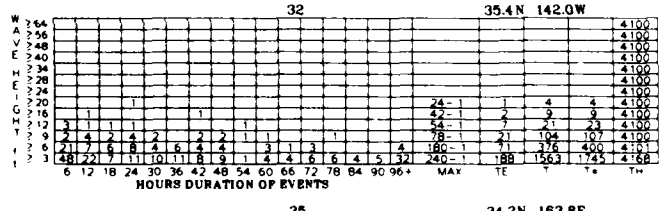


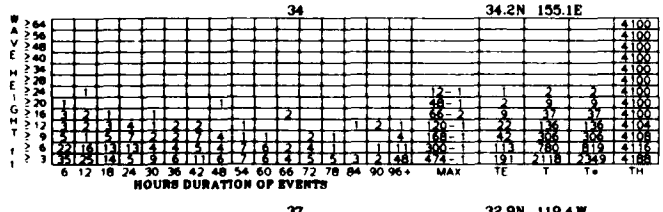


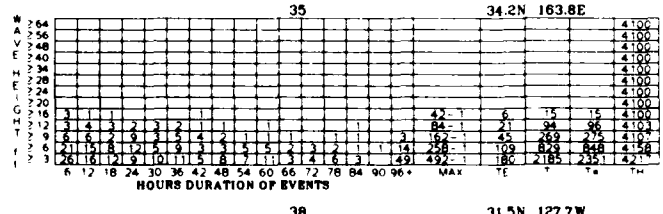


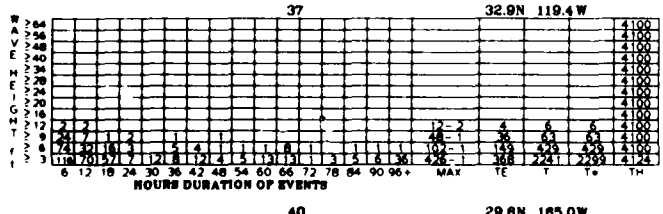


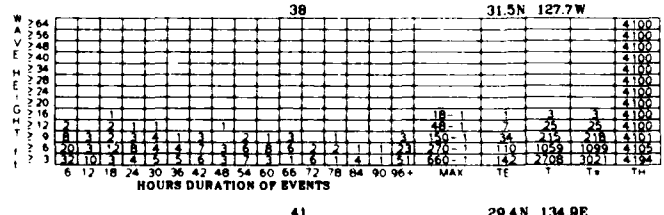


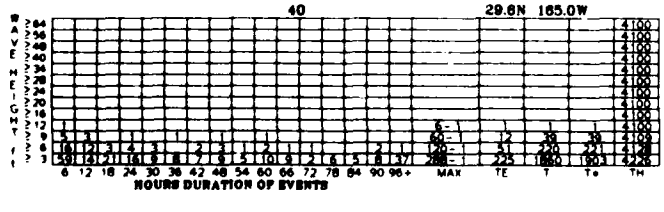


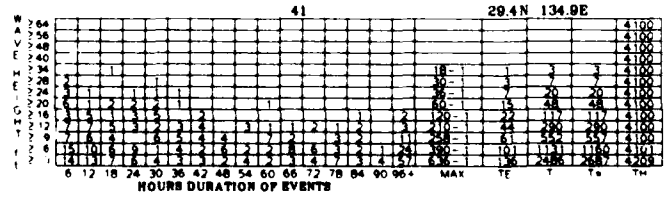




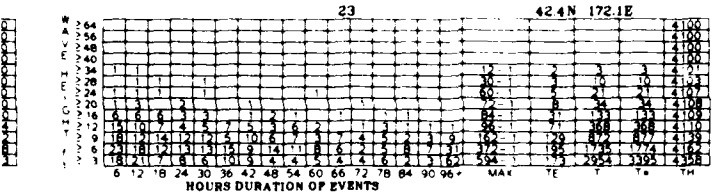


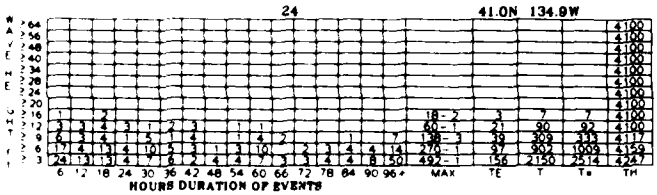


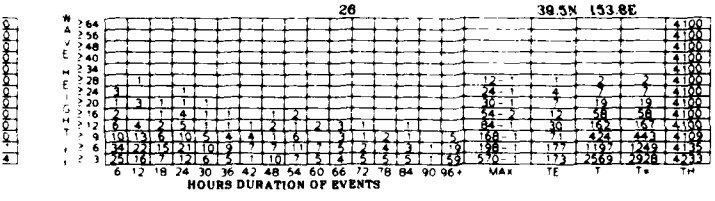


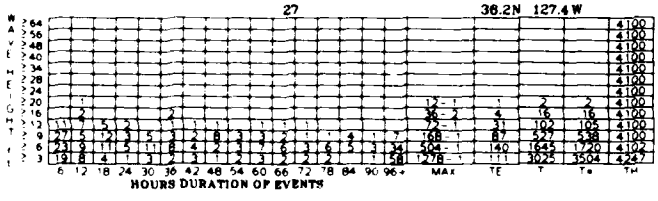


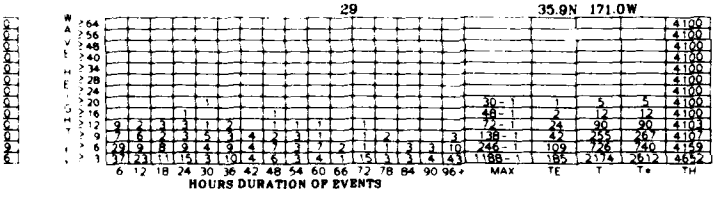
WAVE HEIGHT DURATIONS (Cont'd)

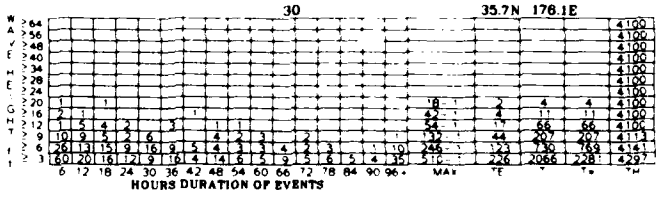


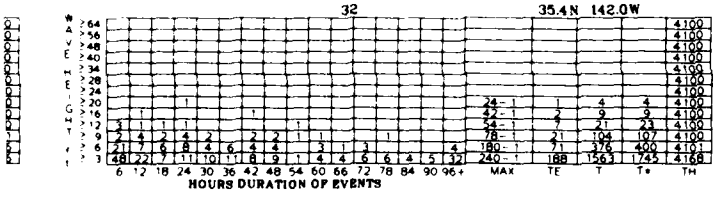


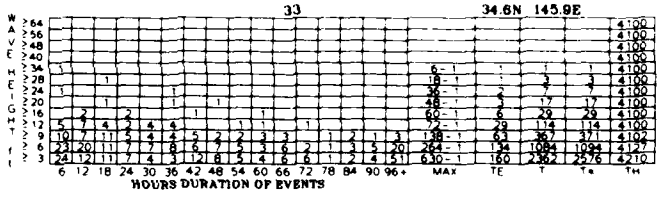


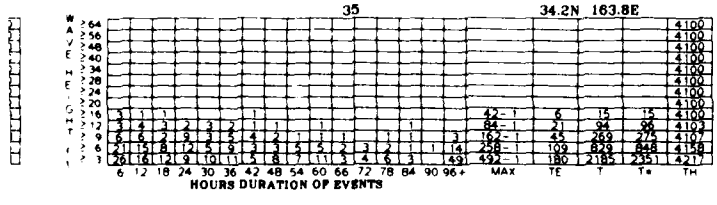


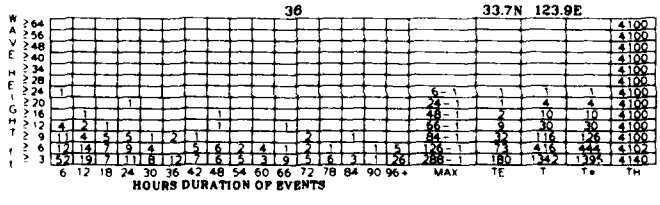


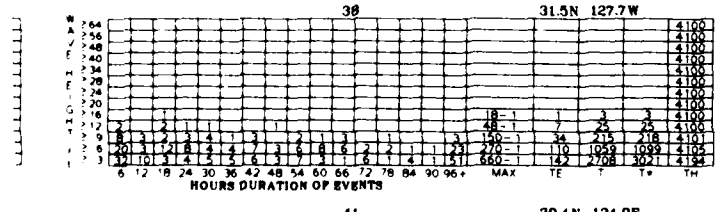


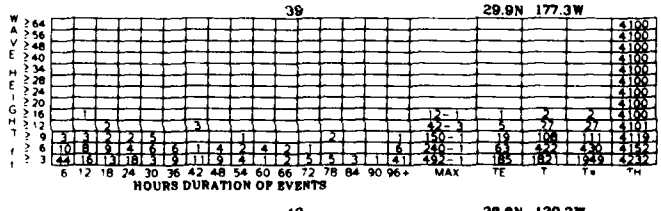


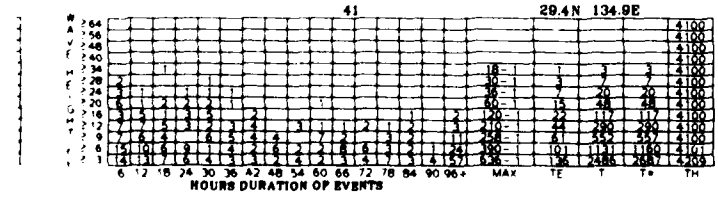


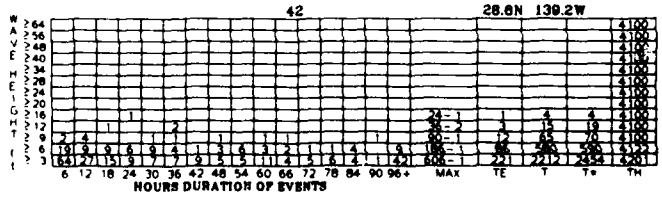




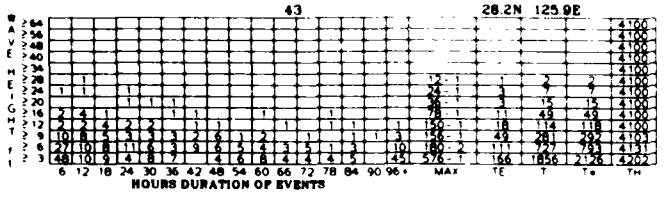


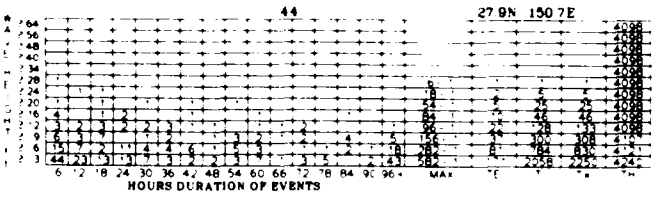


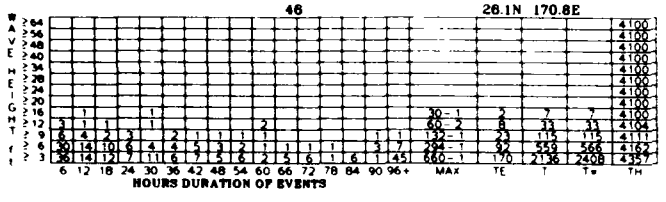


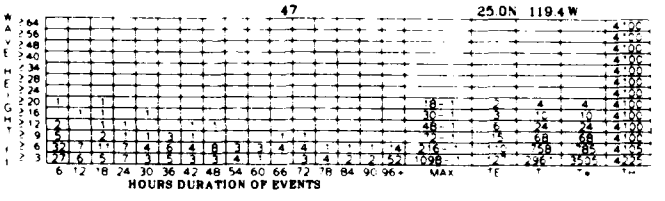


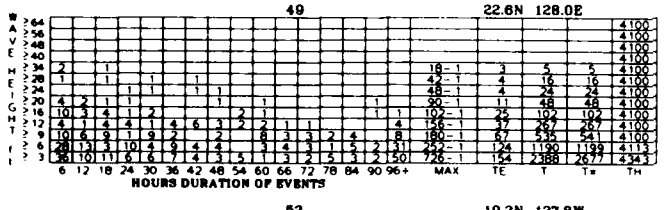
WAVE HEIGHT DURATIONS (Cont'd)

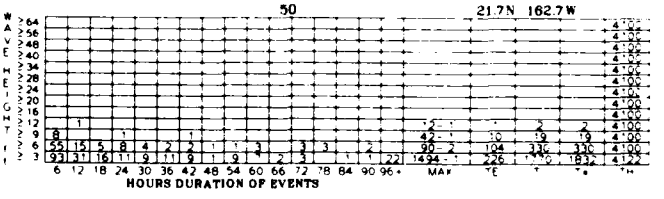


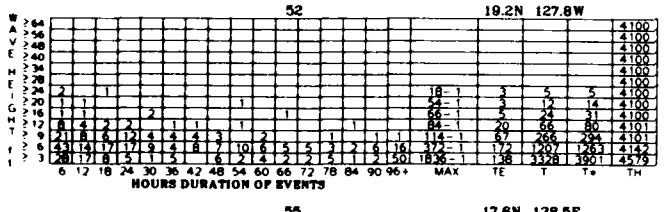


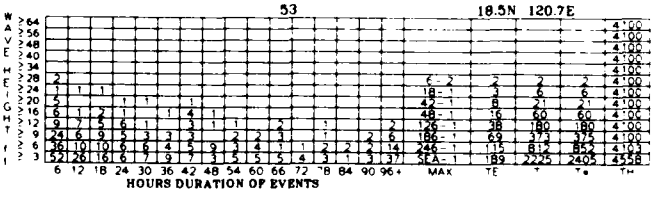


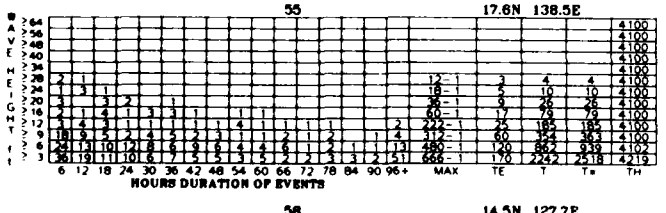


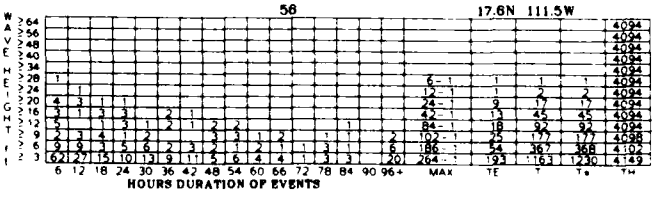


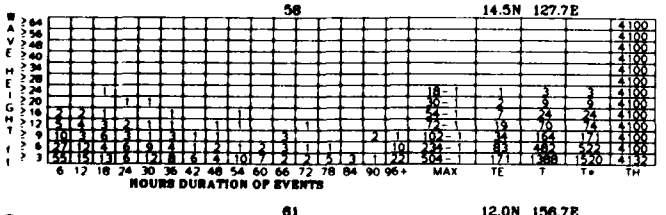


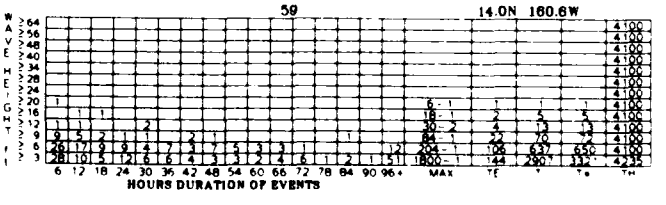


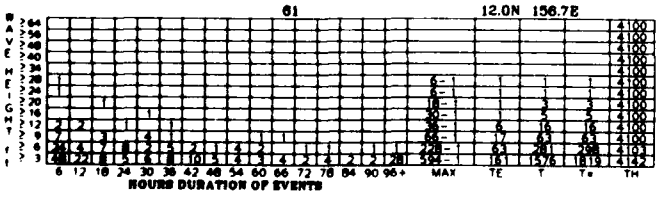


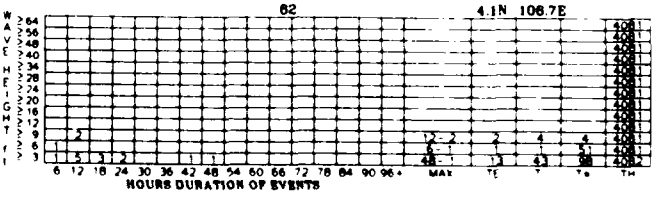


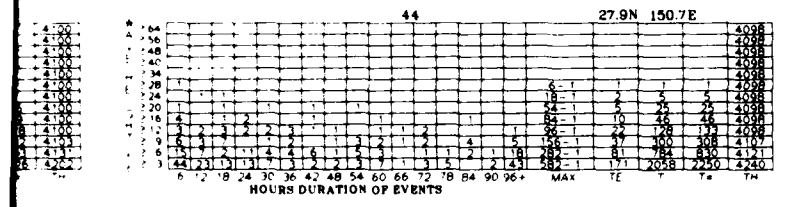


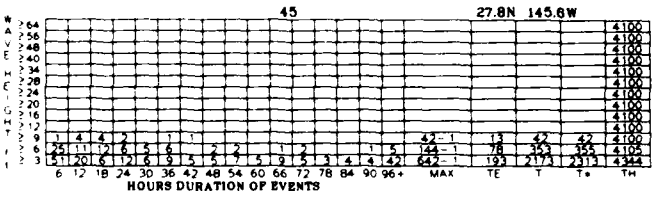


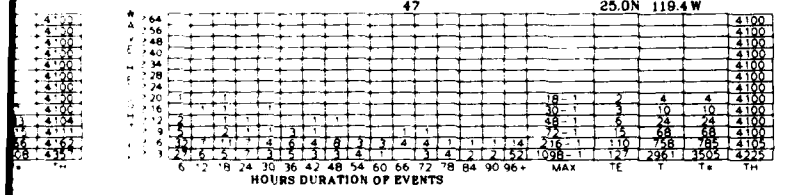


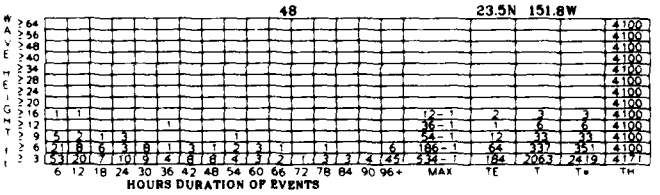


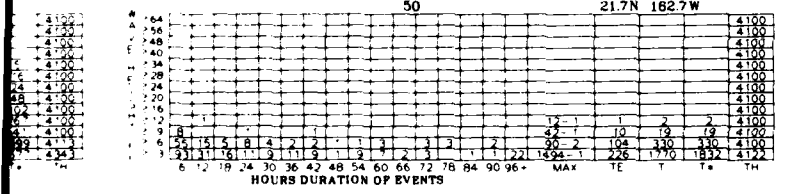


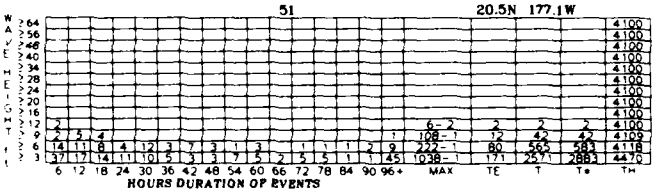

44
27.9N 150.7E
HOURS DURATION OF EVENTS

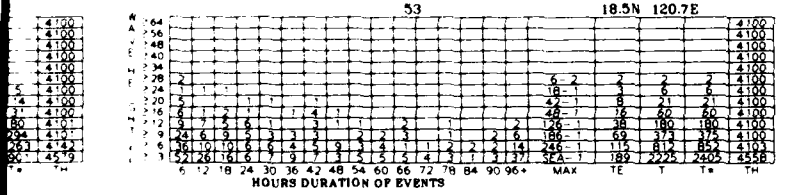

45
27.8N 145.6W
HOURS DURATION OF EVENTS

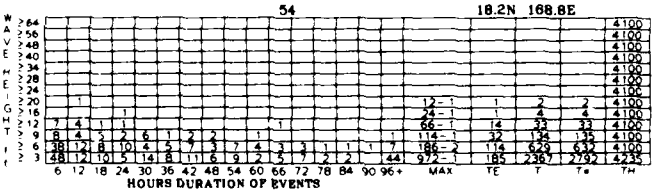

47
25.0N 119.4W
HOURS DURATION OF EVENTS

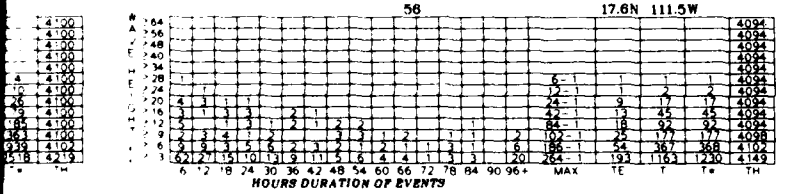

48
23.5N 151.8W
HOURS DURATION OF EVENTS

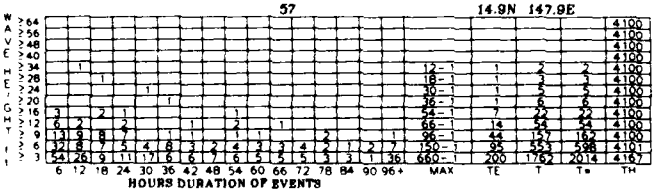

50
21.7N 162.7W
HOURS DURATION OF EVENTS

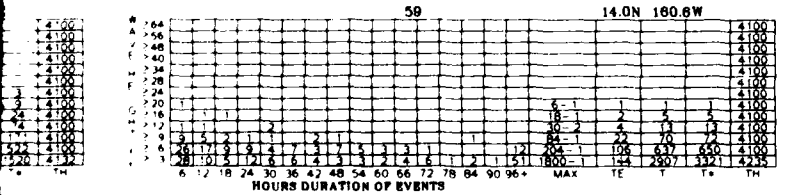

51
20.5N 177.1W
HOURS DURATION OF EVENTS

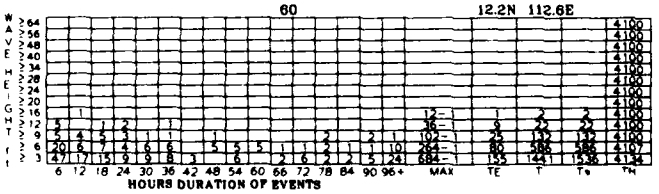

53
18.5N 120.7E
HOURS DURATION OF EVENTS

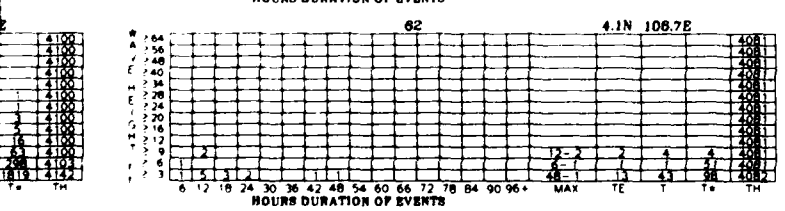

54
18.2N 168.8E
HOURS DURATION OF EVENTS

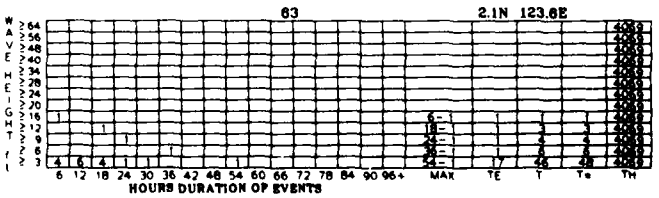

56
17.6N 111.5W
HOURS DURATION OF EVENTS


57
14.9N 147.9E
HOURS DURATION OF EVENTS

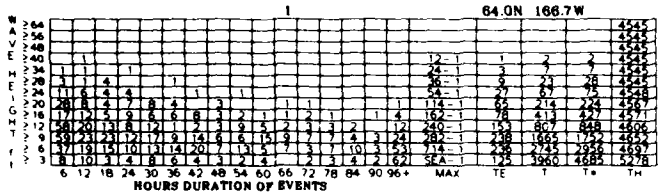

59
14.0N 160.6W
HOURS DURATION OF EVENTS

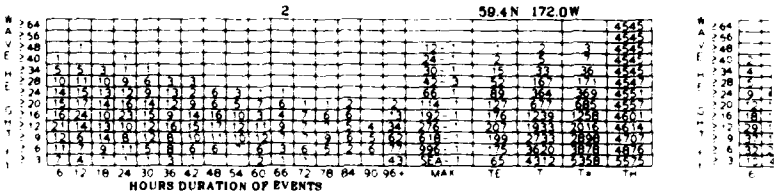

60
12.2N 112.6E
HOURS DURATION OF EVENTS

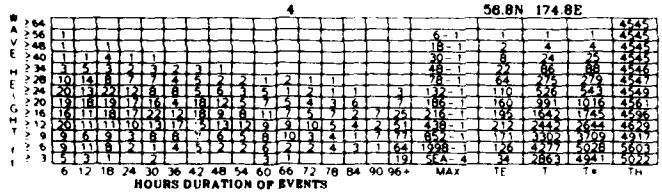

62
4.1N 106.7E
HOURS DURATION OF EVENTS

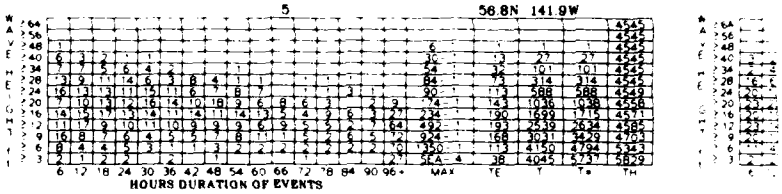

63
2.1N 123.6E
HOURS DURATION OF EVENTS

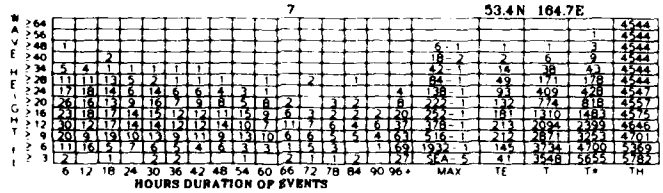
FALL

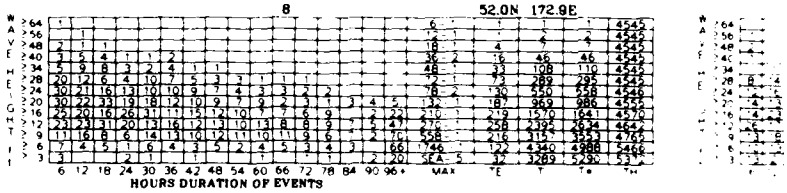

1
64.0N 166.7W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH

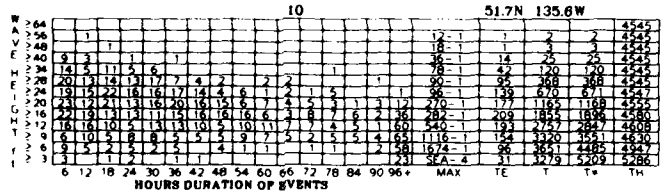

2
59.4N 172.0W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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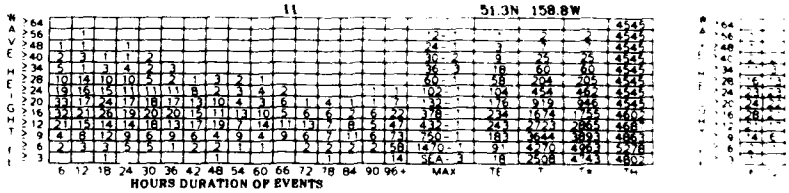

4
56.8N 174.8E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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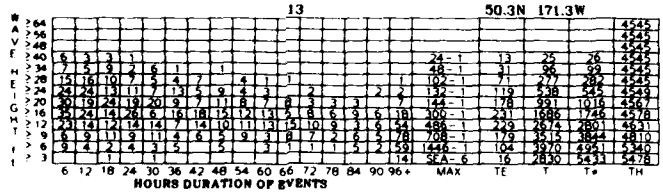

5
56.8N 141.9W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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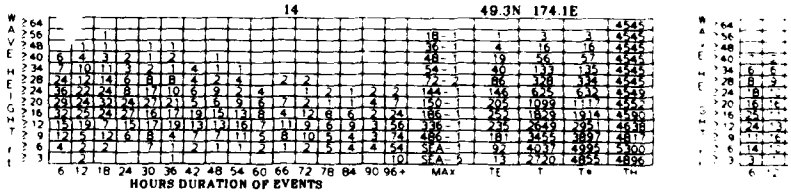

7
53.4N 164.7E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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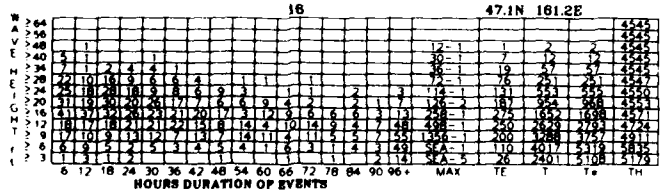

8
52.0N 172.9E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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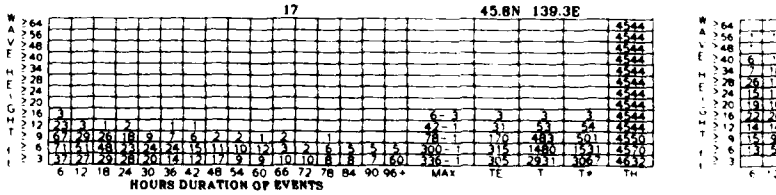

10
51.7N 135.6W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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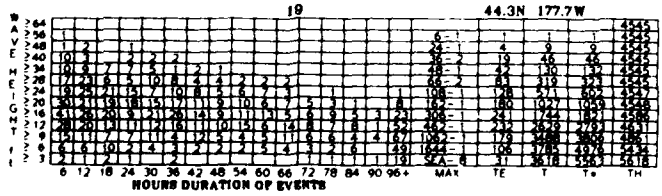

11
51.3N 158.8W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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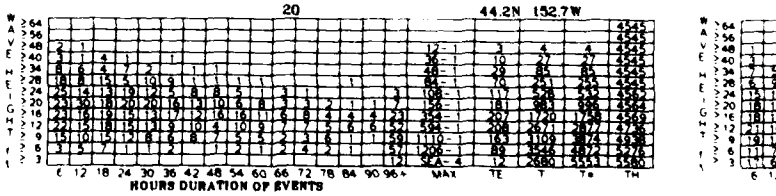

13
50.3N 171.3W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH


14
49.3N 174.1E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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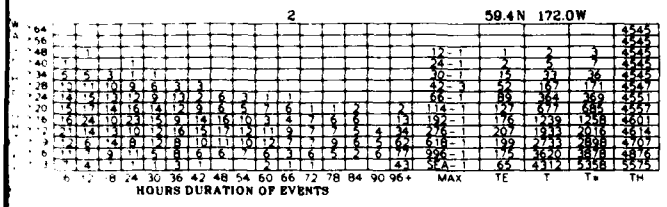

16
47.1N 161.2E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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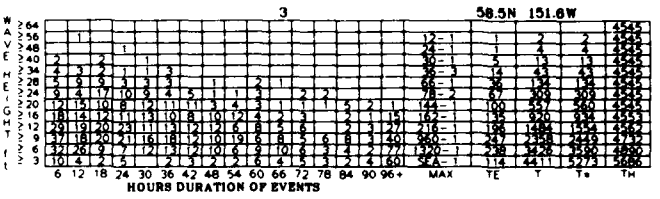

17
45.8N 139.3E
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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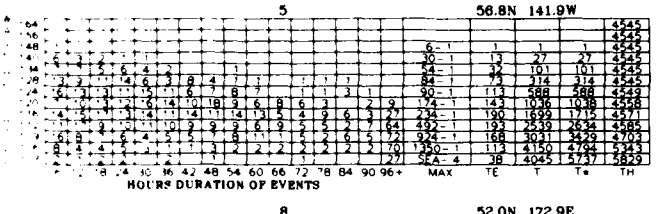

19
44.3N 177.7W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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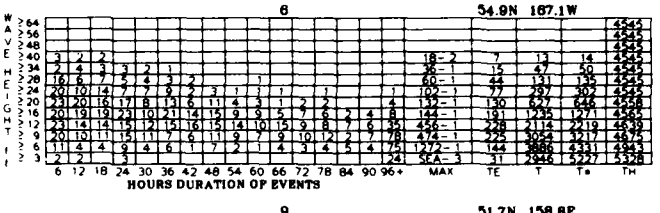

20
44.2N 152.7W
WAVE HEIGHT (ft)
HOURS DURATION OF EVENTS
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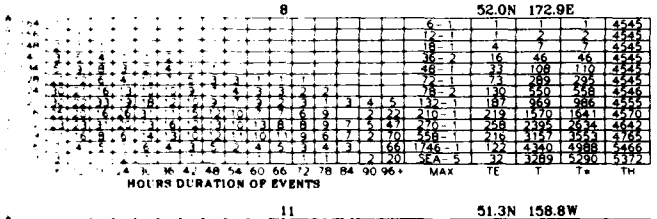
WAVE HEIGHT DURATIONS

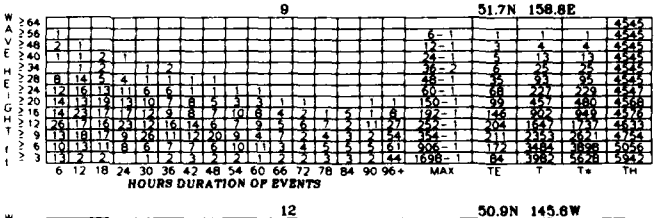


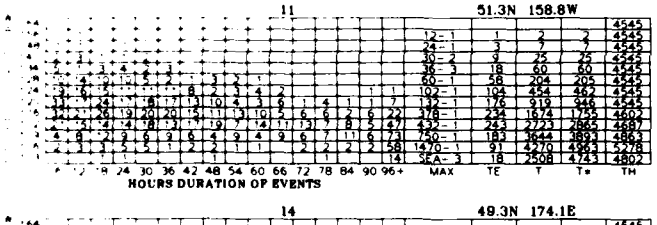


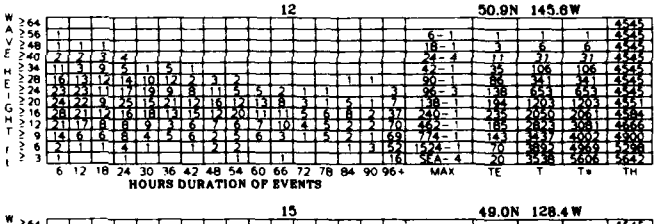


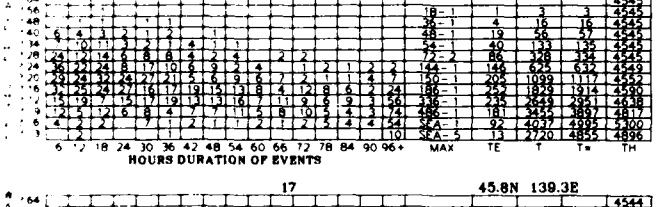


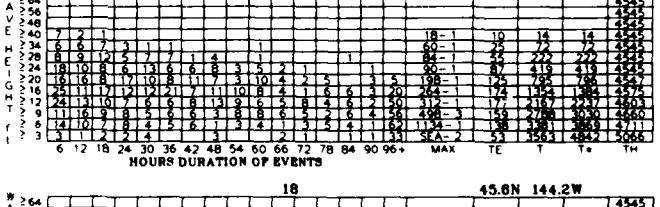


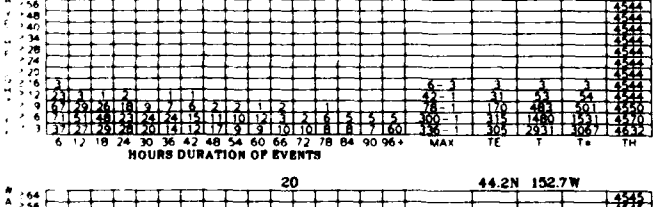


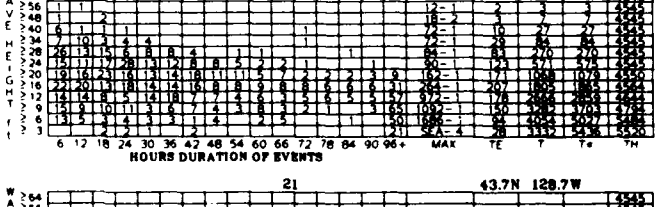


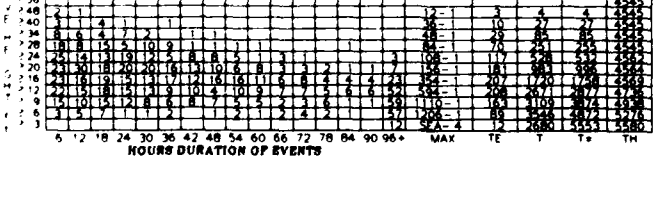


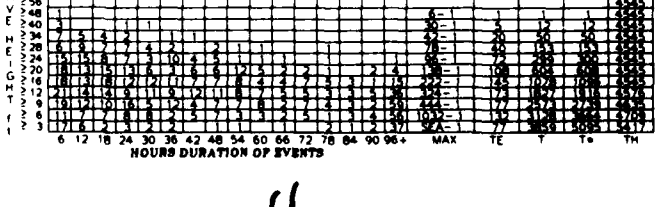




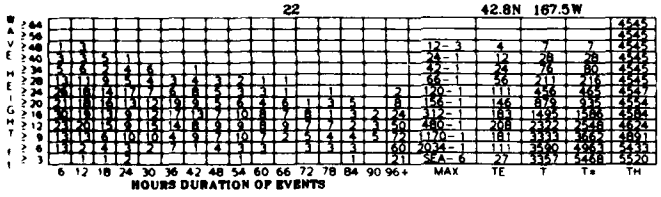


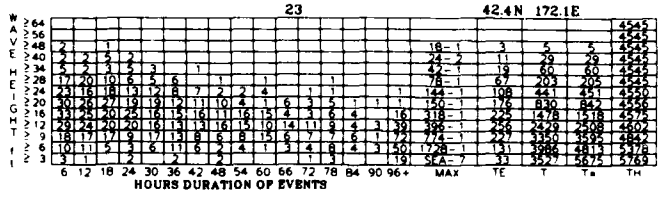


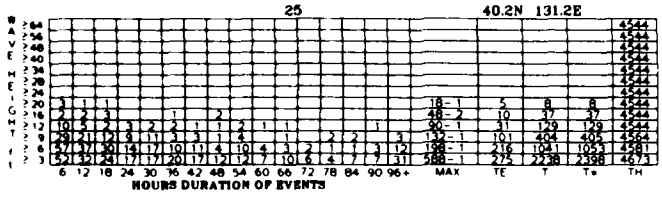


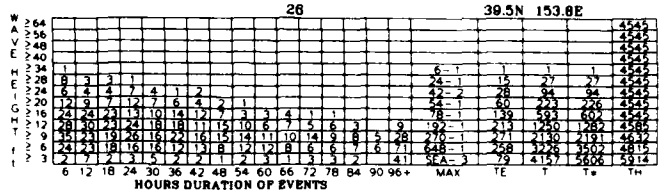


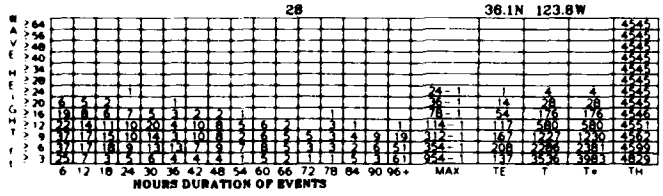
WAVE HEIGHT DURATIONS (Cont'd)

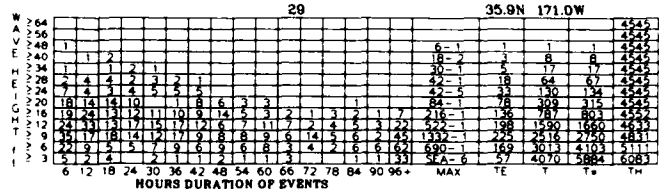


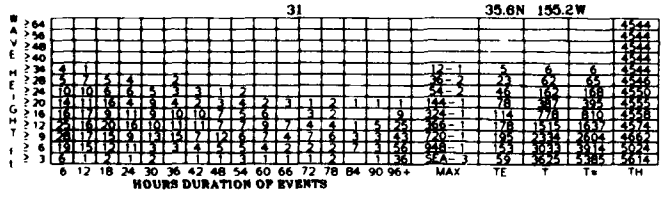


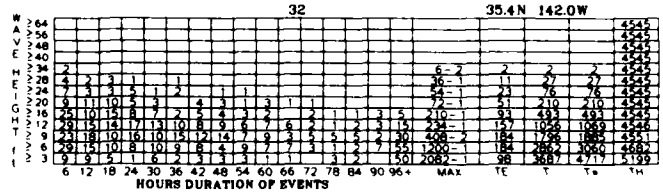


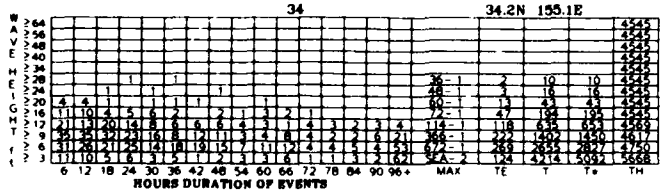


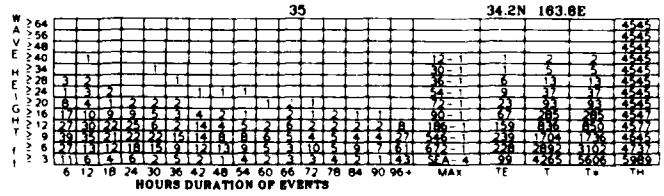


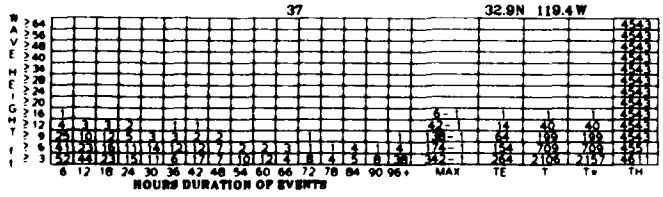


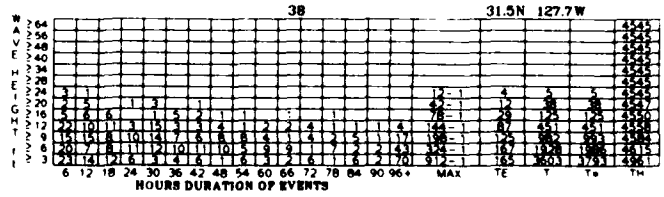


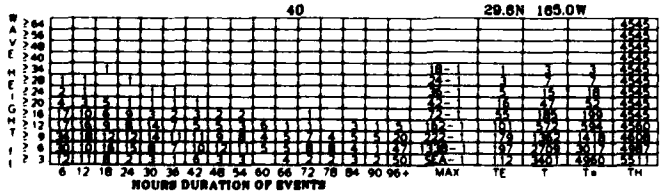


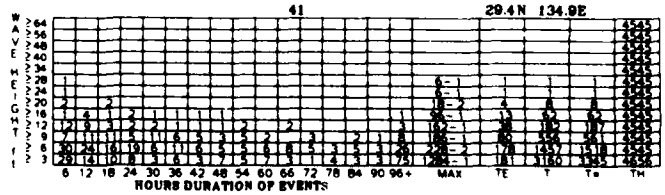






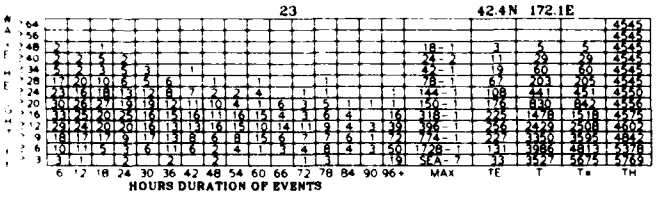


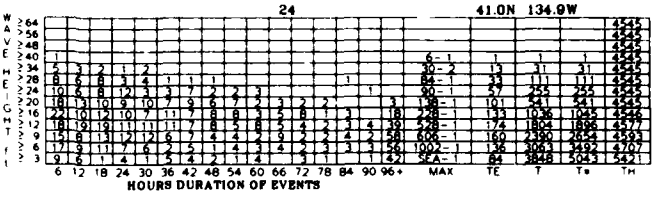


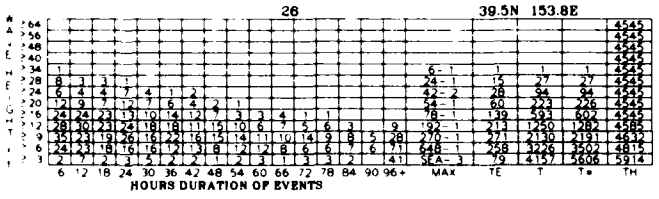


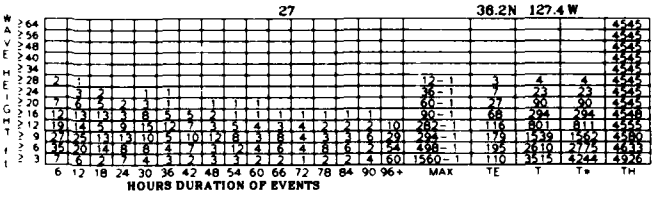
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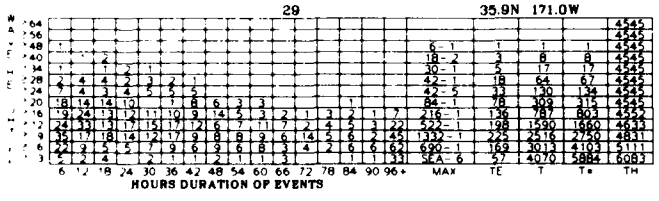
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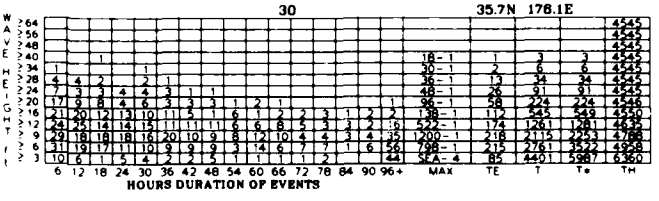

23
42.4N 172.1E
HOURS DURATION OF EVENTS

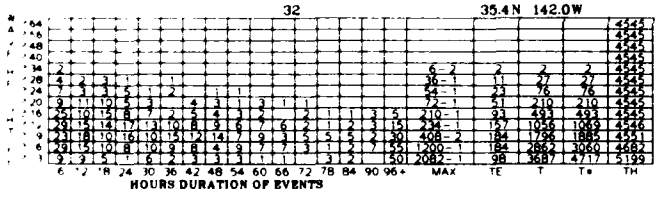

24
41.0N 134.9W
HOURS DURATION OF EVENTS

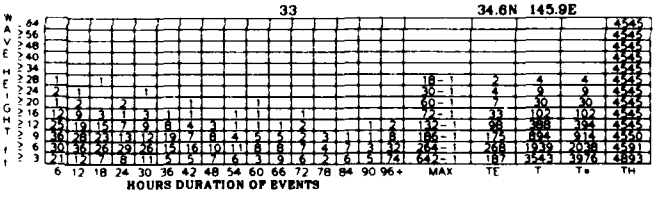

26
39.5N 153.8E
HOURS DURATION OF EVENTS

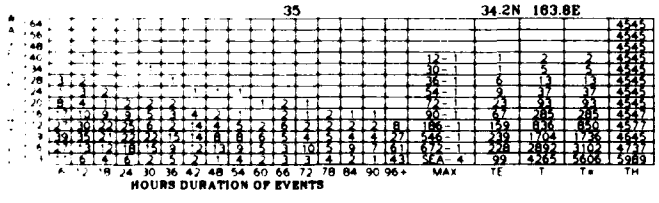

27
36.2N 127.4W
HOURS DURATION OF EVENTS

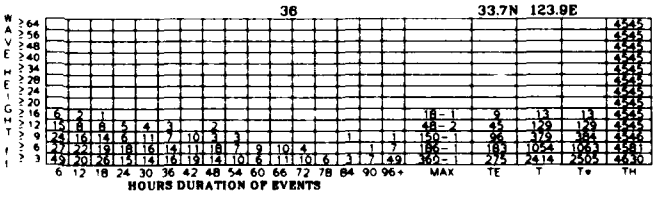

29
35.9N 171.0W
HOURS DURATION OF EVENTS

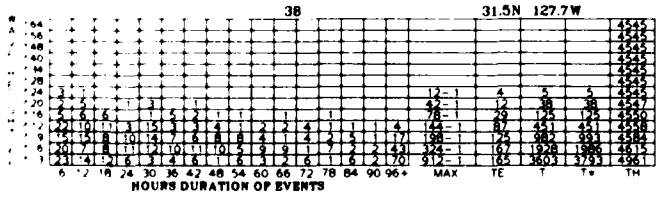

30
35.7N 176.1E
HOURS DURATION OF EVENTS

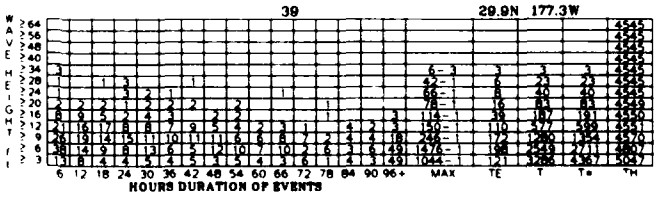

32
35.4N 142.0W
HOURS DURATION OF EVENTS

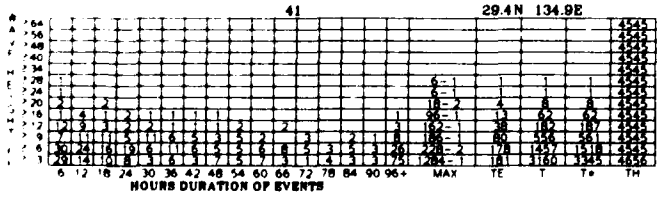

33
34.6N 145.9E
HOURS DURATION OF EVENTS

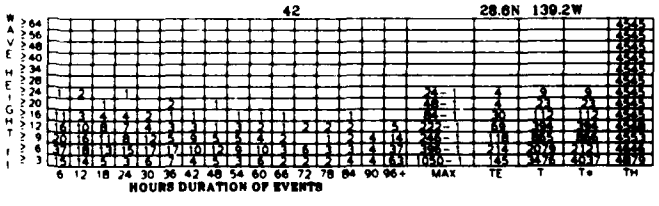

35
34.2N 163.8E
HOURS DURATION OF EVENTS


36
33.7N 123.9E
HOURS DURATION OF EVENTS


38
31.5N 127.7W
HOURS DURATION OF EVENTS


39
29.9N 177.3W
HOURS DURATION OF EVENTS

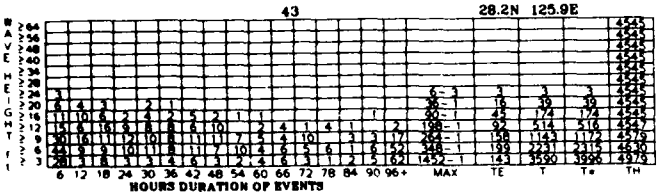

41
29.4N 134.9E
HOURS DURATION OF EVENTS

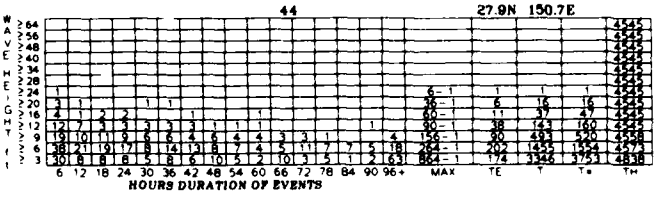

42
28.6N 139.2W
HOURS DURATION OF EVENTS

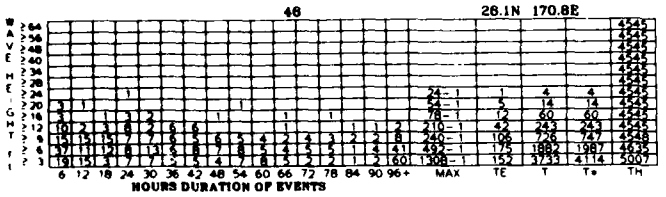
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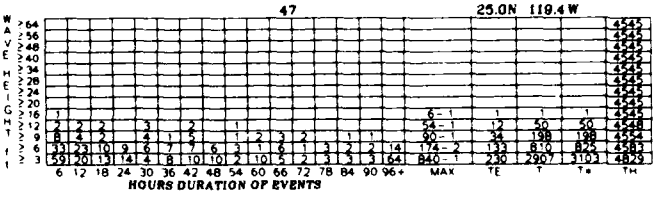
FALL

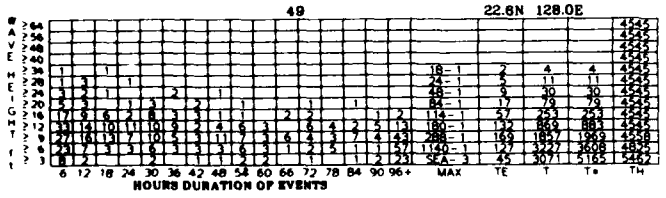
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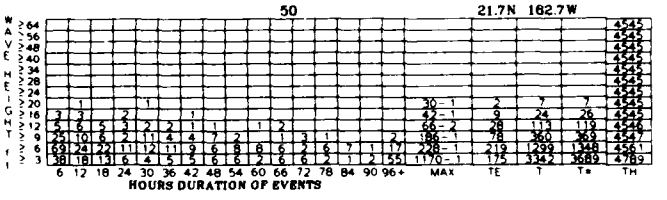


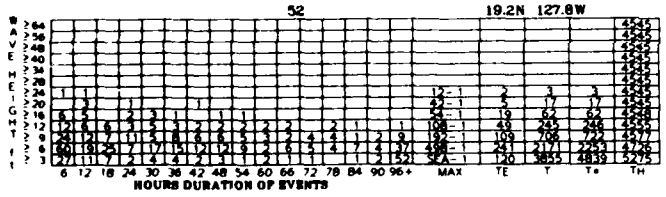


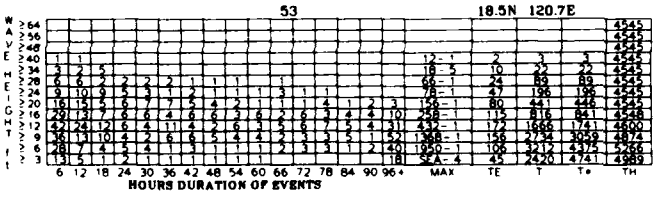


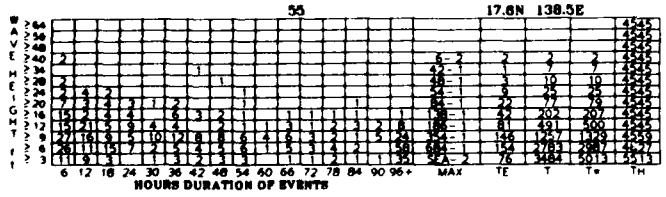


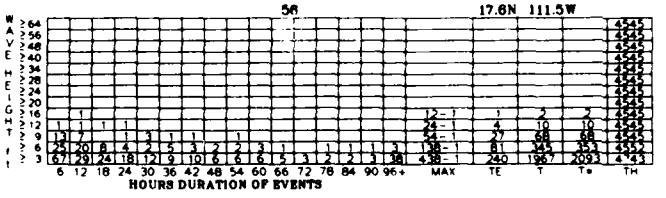


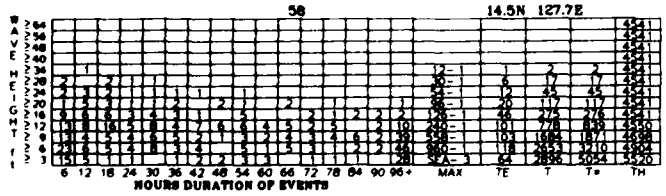


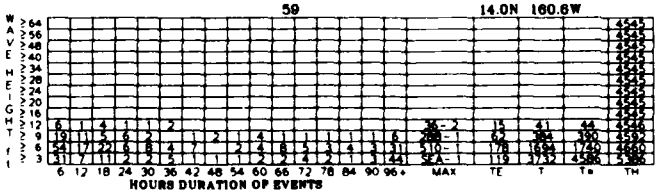


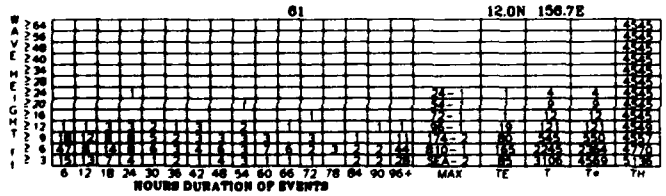


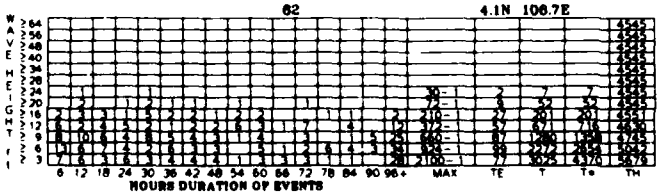






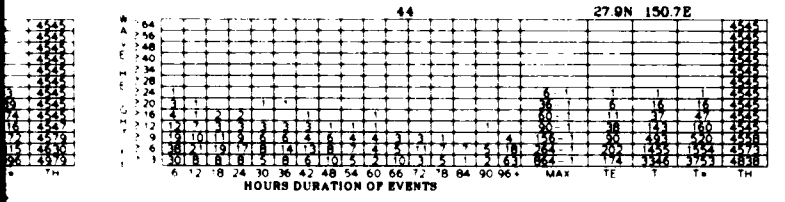


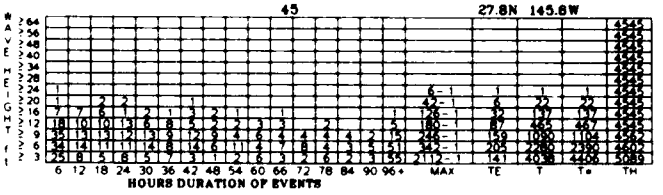


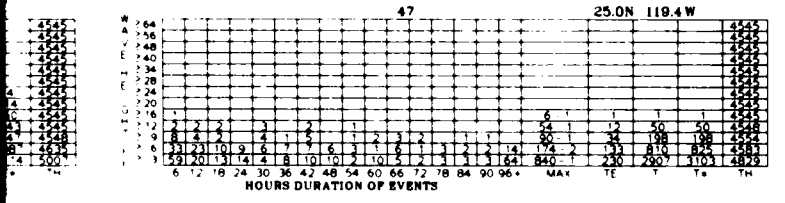


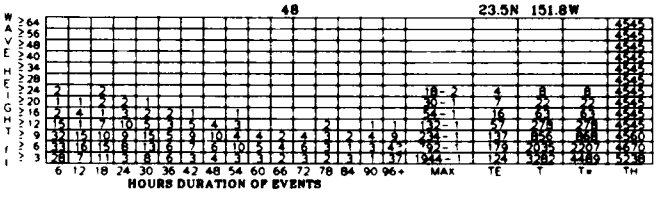
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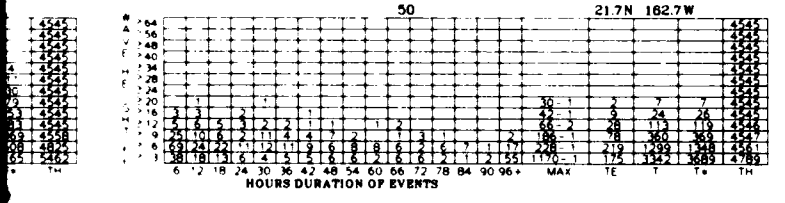
WAVE HEIGHT DURATIONS (Cont'd)

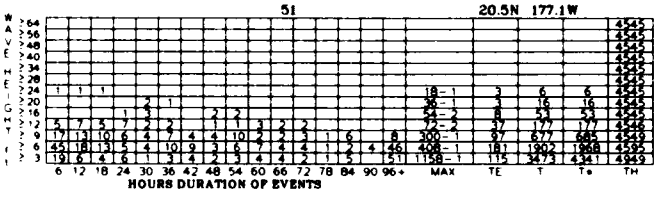


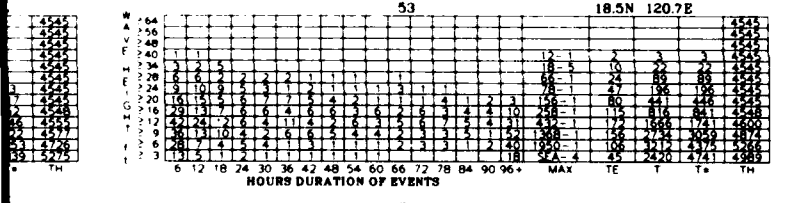


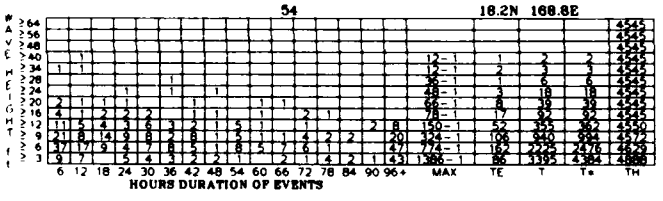


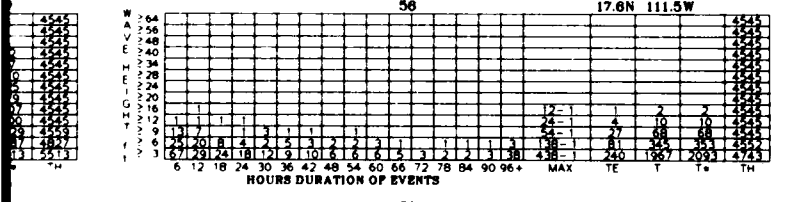


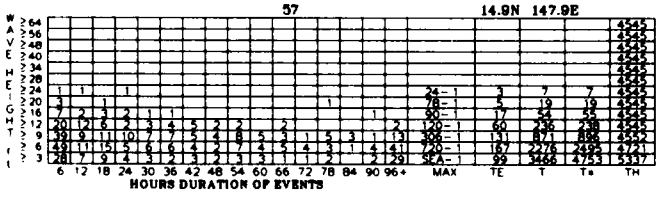


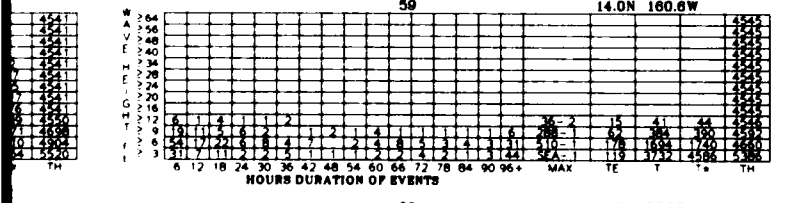


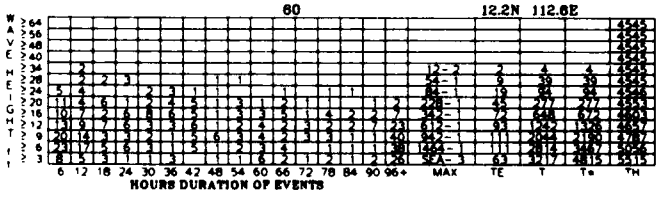


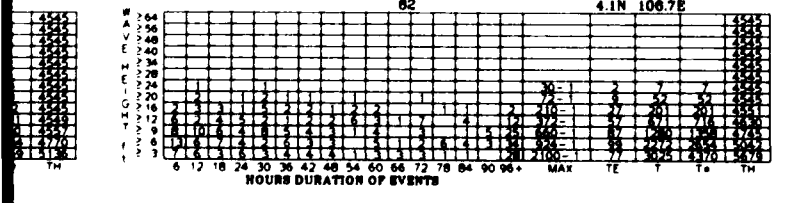


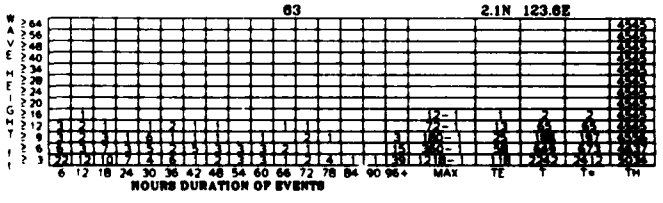




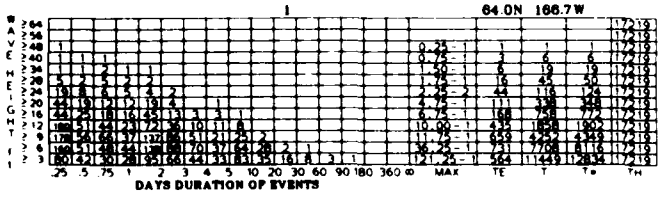


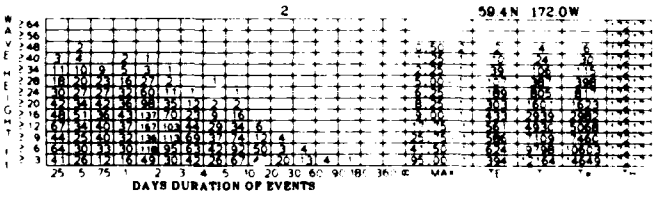


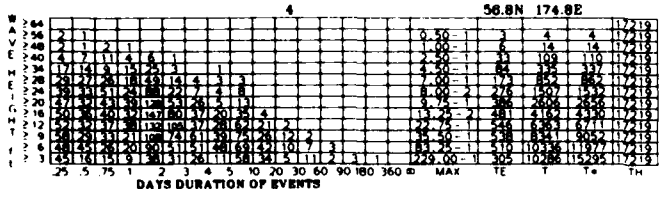


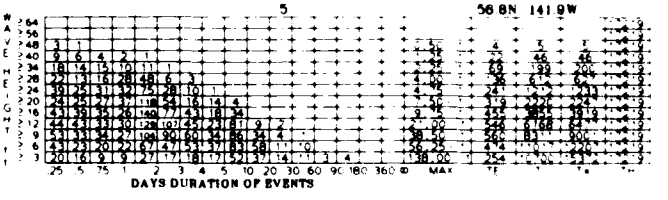


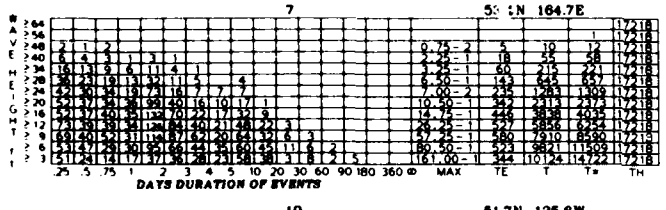
WAVE HEIGHT DURATIONS

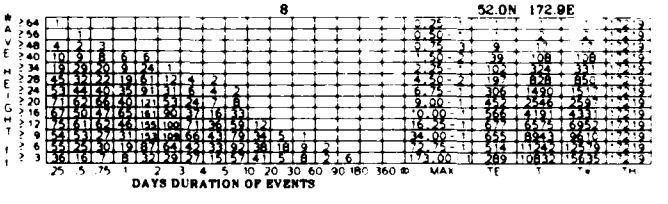


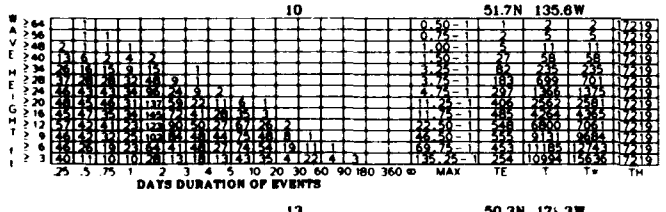


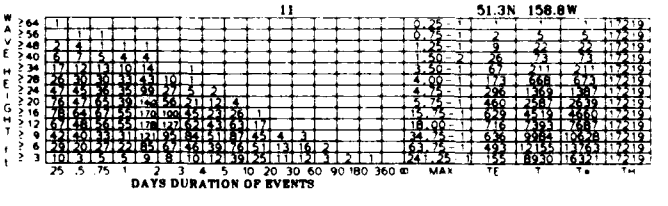


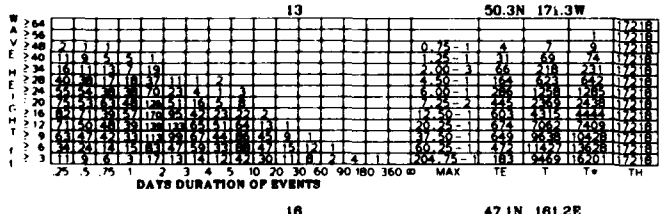


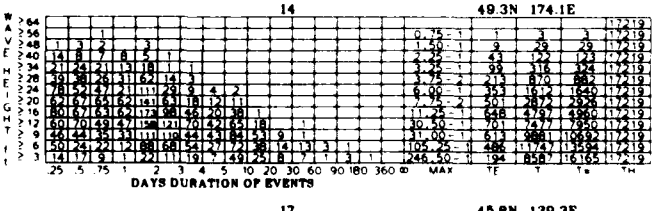


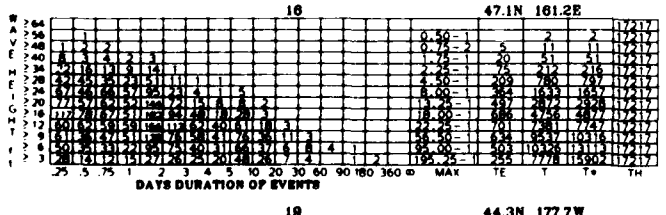


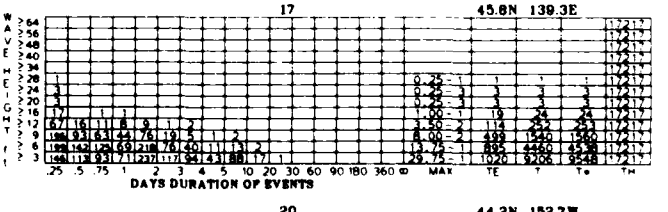


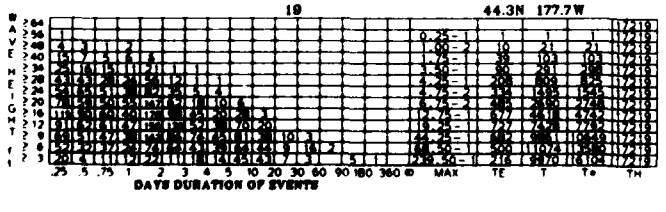


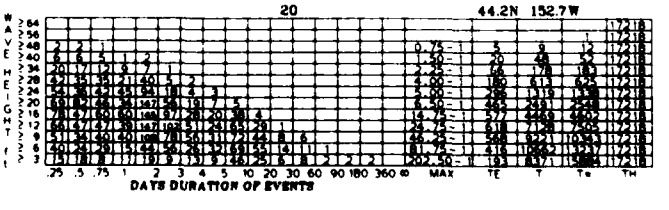


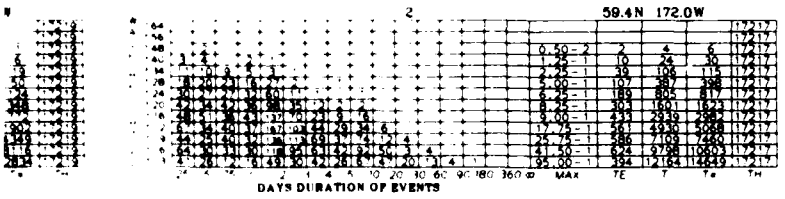


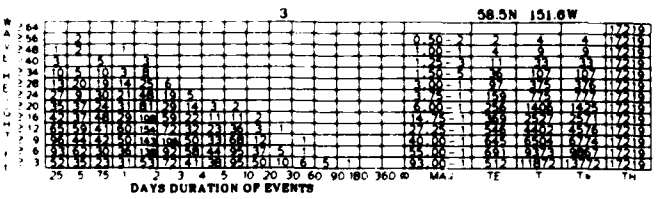


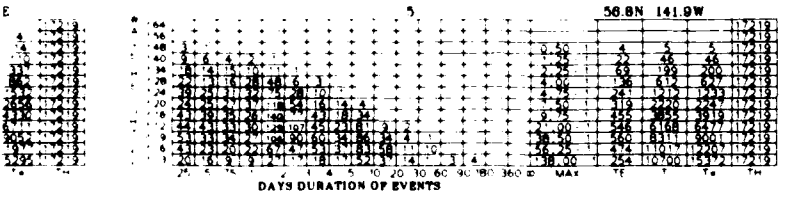


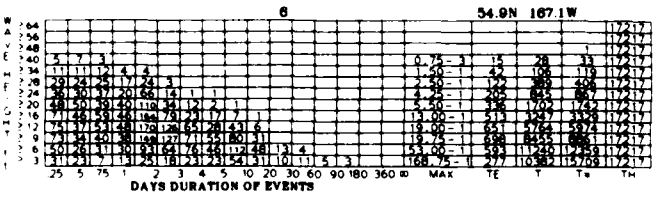


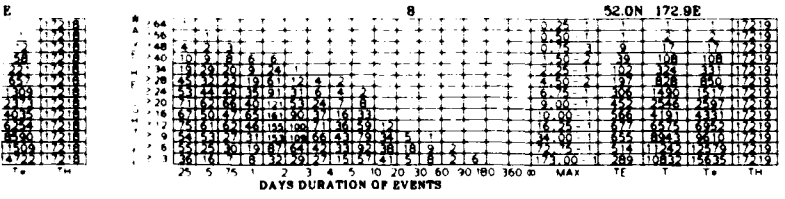


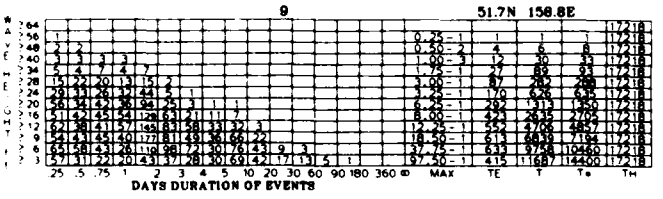

2
59.4N 172.0W
DAYS DURATION OF EVENTS

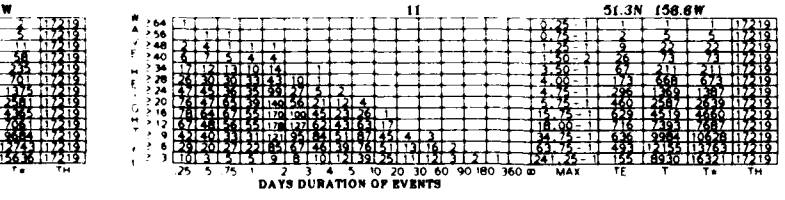

3
58.5N 151.6W
DAYS DURATION OF EVENTS

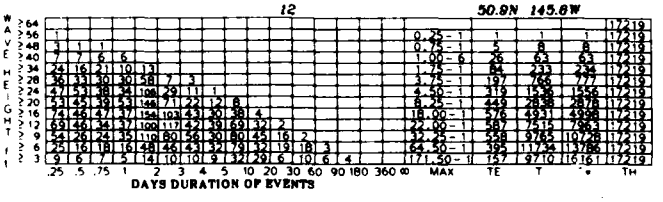

5
56.8N 141.9W
DAYS DURATION OF EVENTS

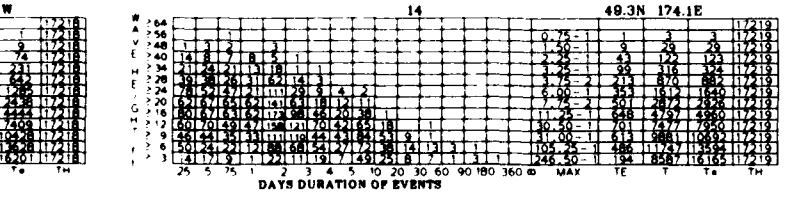

6
54.9N 167.1W
DAYS DURATION OF EVENTS

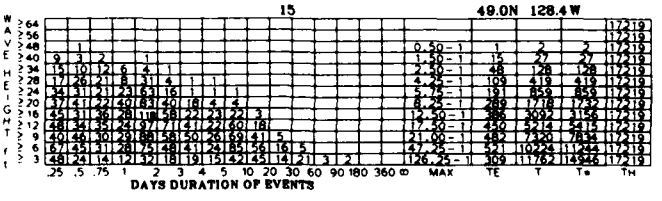

8
52.0N 172.9E
DAYS DURATION OF EVENTS

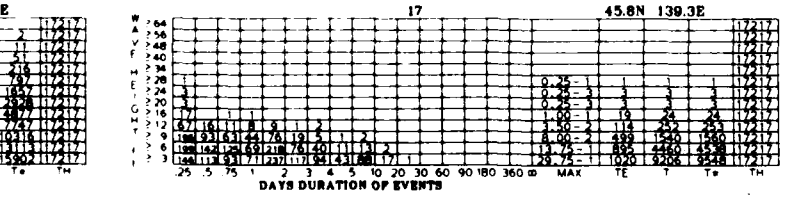

9
51.7N 156.8E
DAYS DURATION OF EVENTS

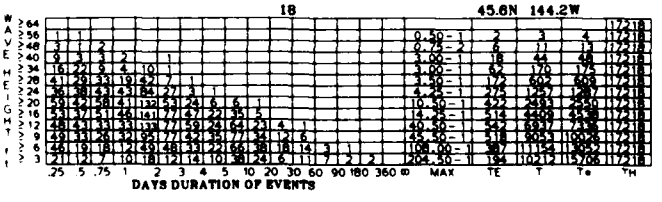

11
51.3N 156.6W
DAYS DURATION OF EVENTS

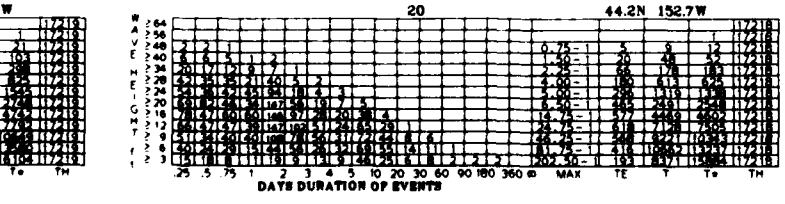

12
50.9N 145.6W
DAYS DURATION OF EVENTS

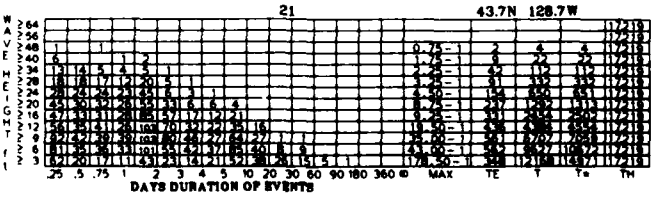

14
49.3N 174.1E
DAYS DURATION OF EVENTS


15
49.0N 128.4W
DAYS DURATION OF EVENTS


17
45.8N 139.3E
DAYS DURATION OF EVENTS

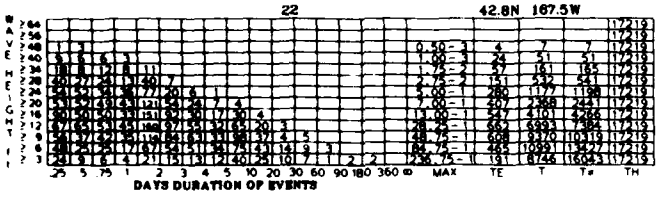

18
45.8N 144.2W
DAYS DURATION OF EVENTS

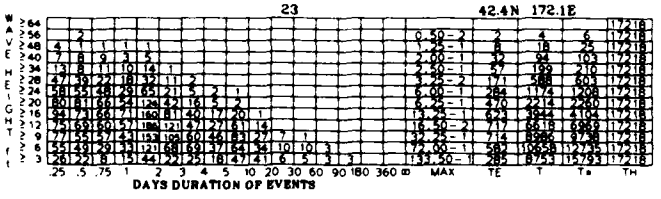

20
44.2N 152.7W
DAYS DURATION OF EVENTS

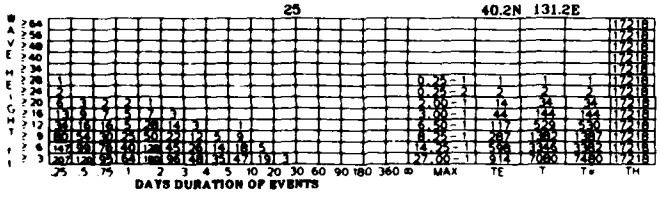

21
43.7N 128.7W
DAYS DURATION OF EVENTS

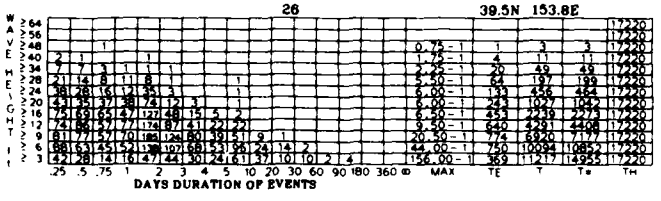
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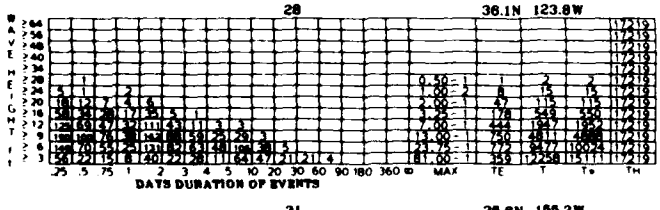
ANNUAL WAVE HEIGHT

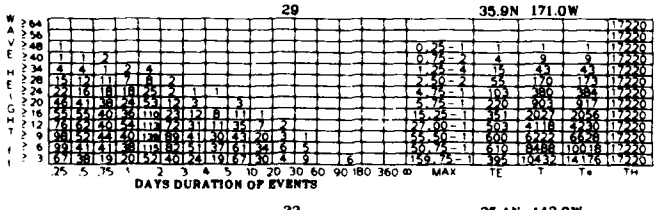


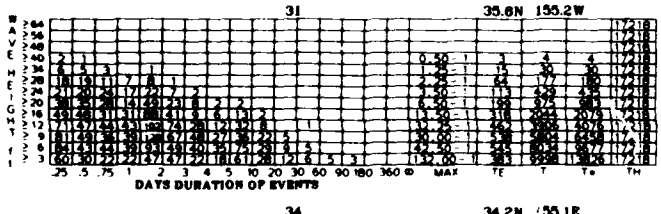


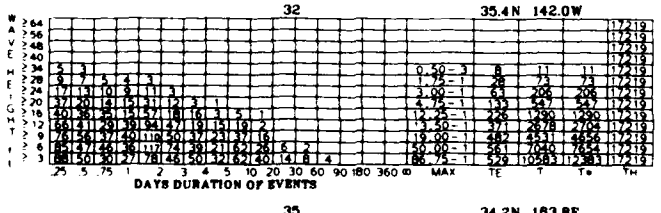


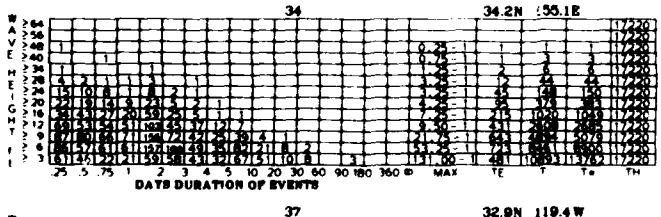


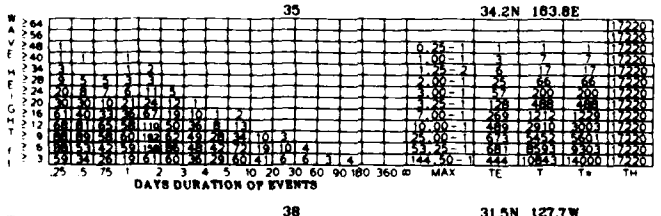


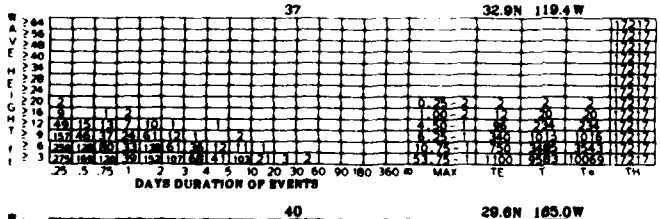


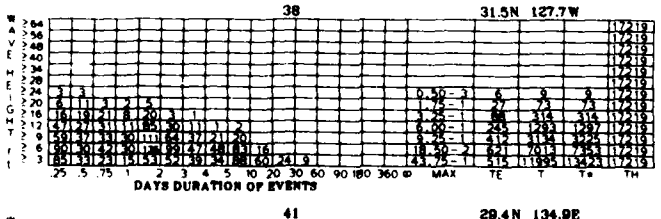


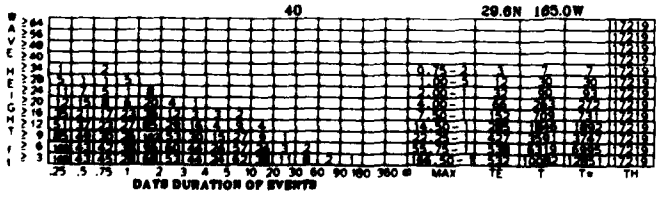


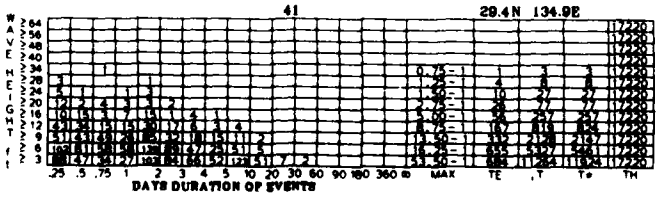






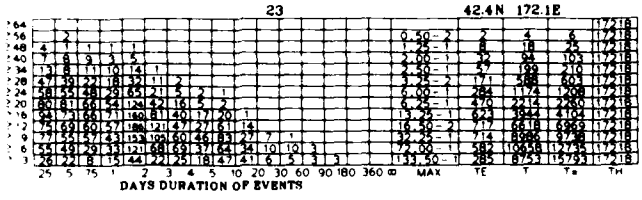




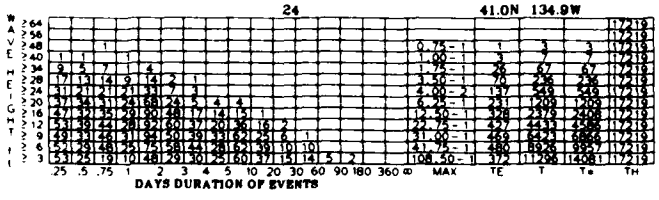


WAVE HEIGHT DURATIONS (Cont'd)

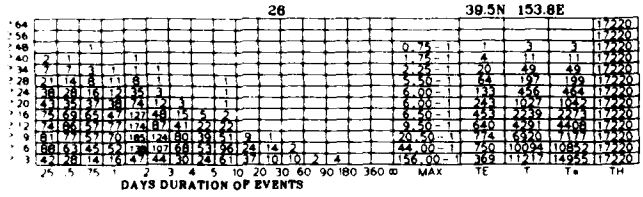
23 42.4N 172.1E



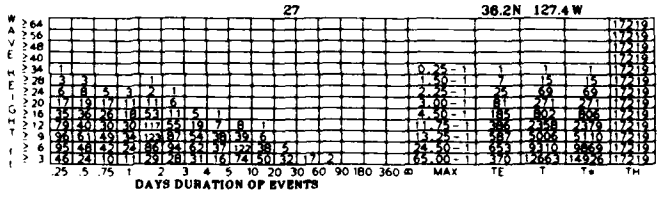
24 41.0N 134.9W



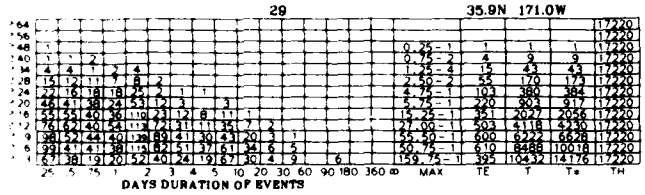
26 39.5N 153.8E



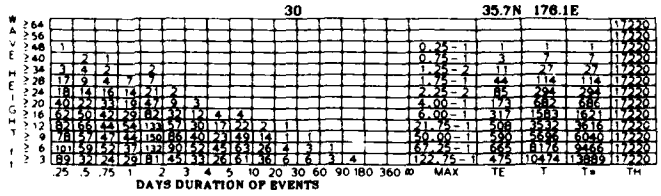
27 36.2N 127.4W



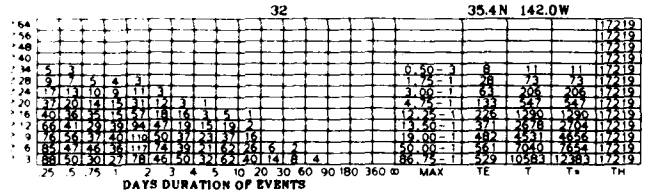
29 35.9N 171.0W



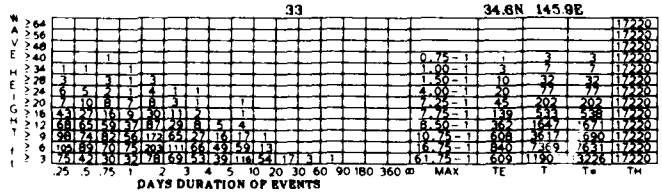
30 35.7N 176.1E



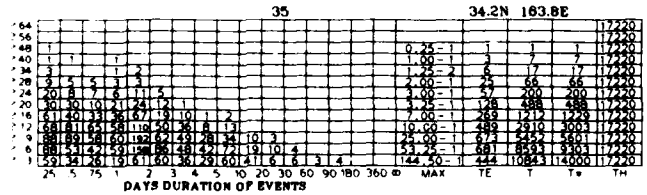
32 35.4N 142.0W



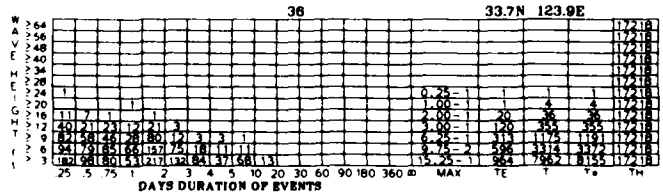
33 34.6N 145.9E



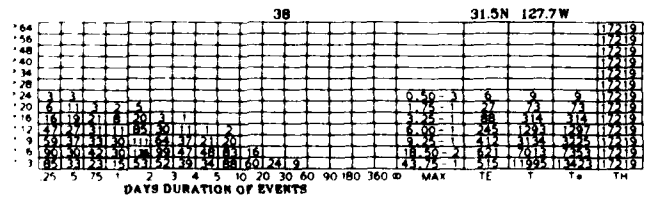
35 34.2N 163.8E



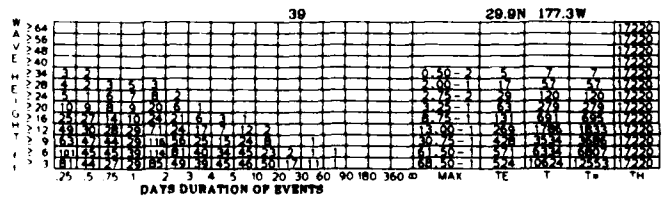
36 33.7N 123.9E



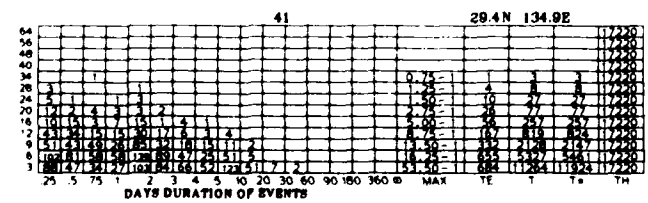
38 31.5N 127.7W



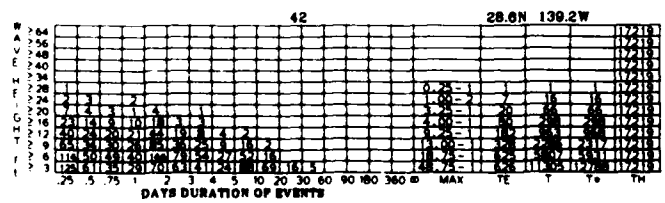
39 29.9N 177.3W



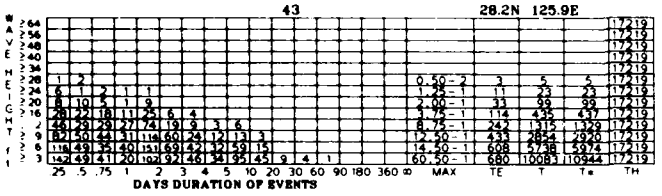
41 29.4N 134.9E

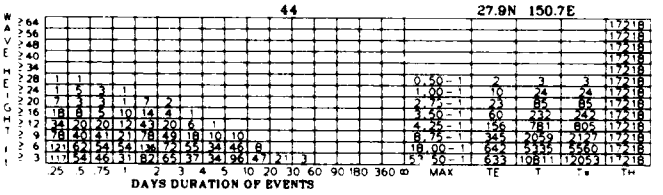


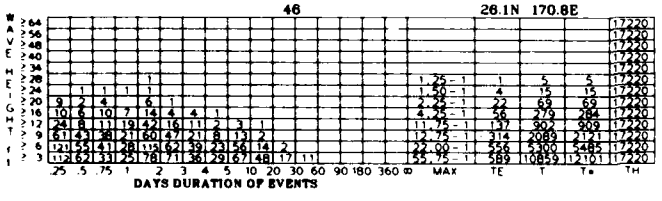
42 28.6N 139.2W

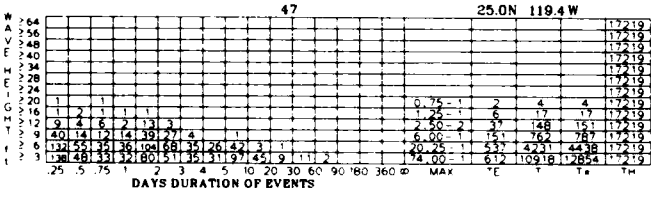


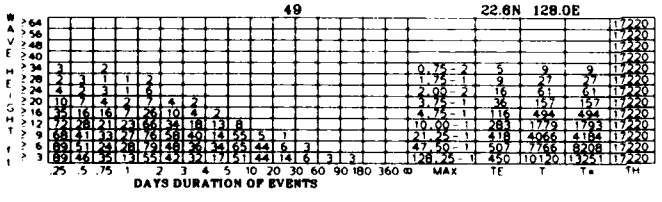
WAVE HEIGHT DURATIONS (Cont'd)

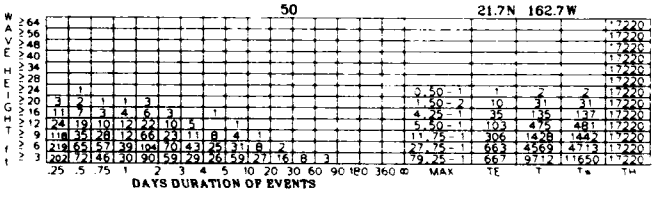


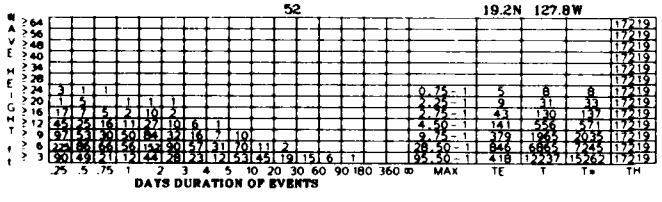


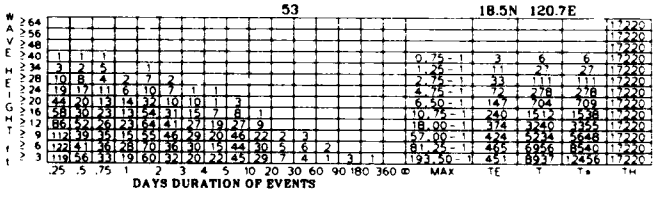


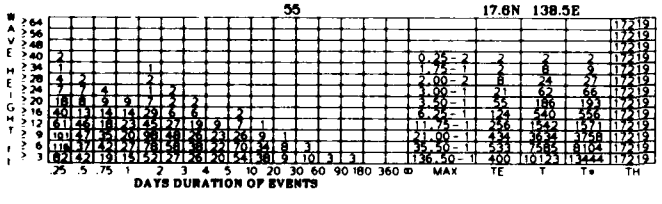


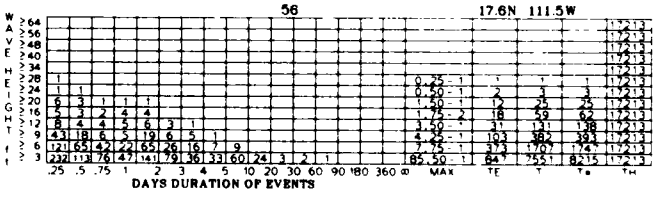


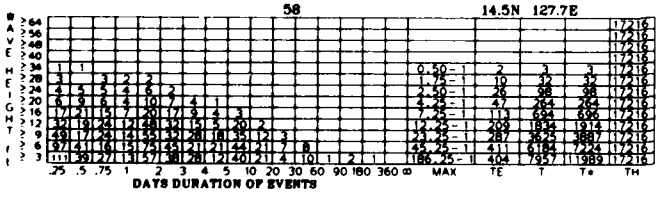


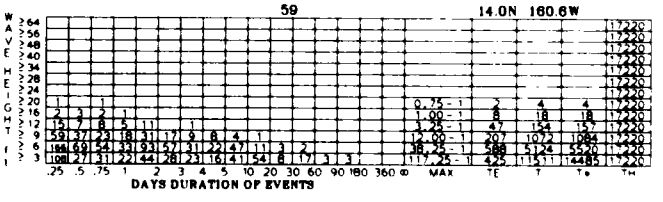


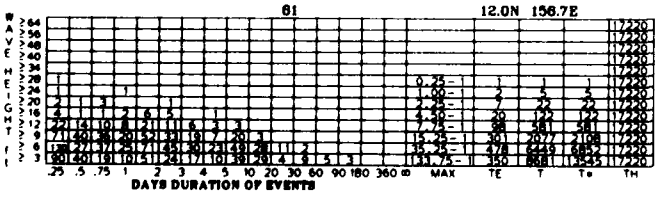


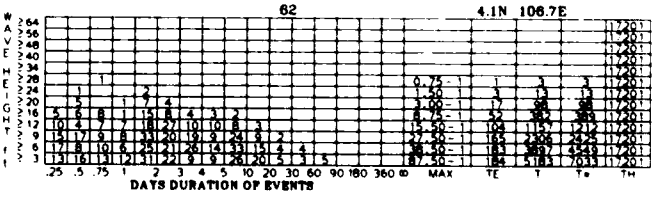






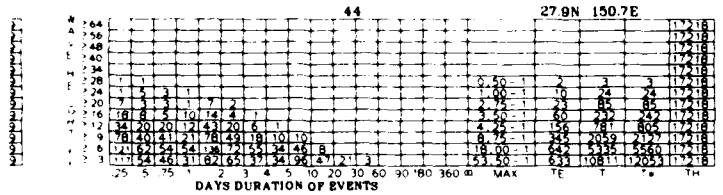


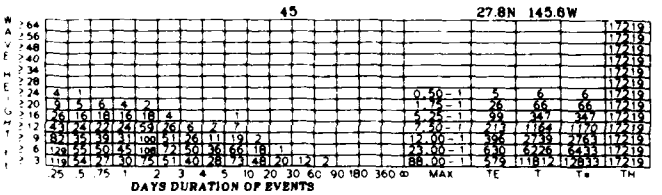


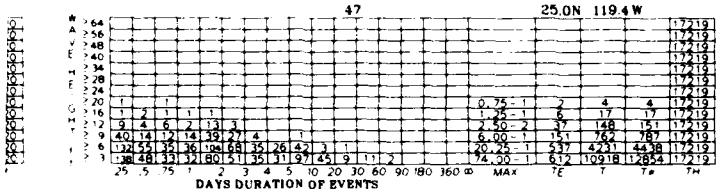


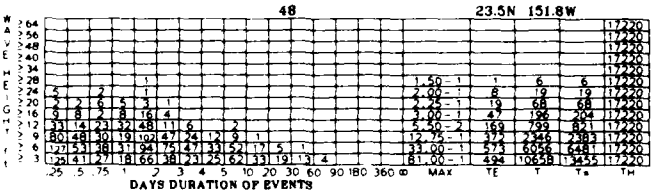
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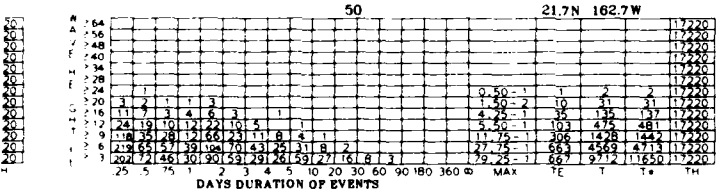
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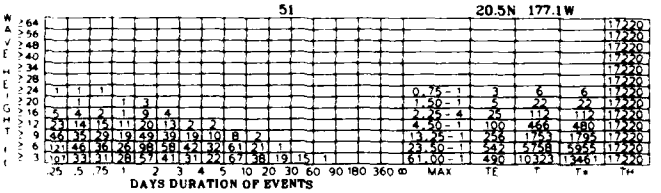


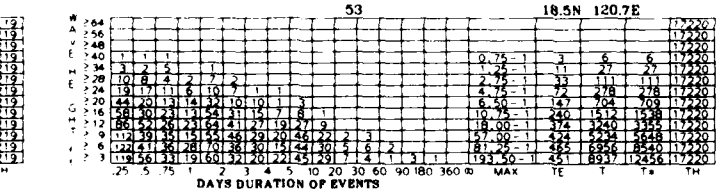


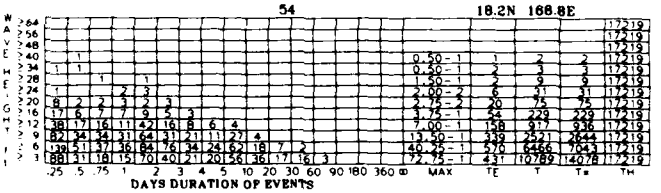


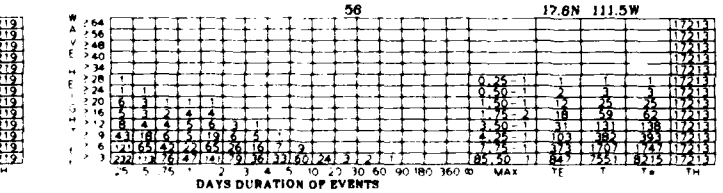


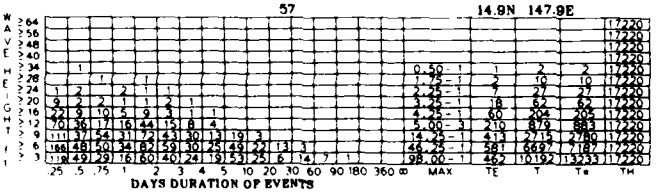


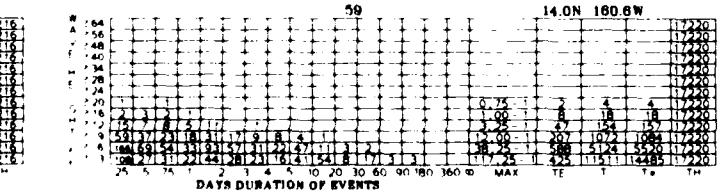


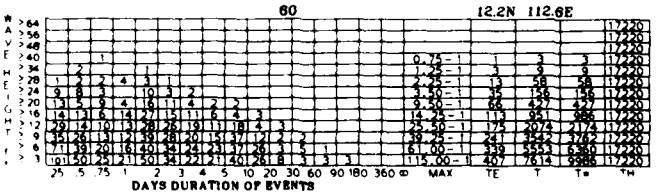


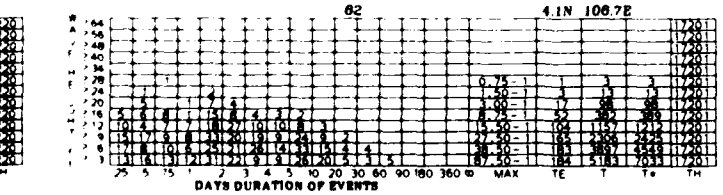


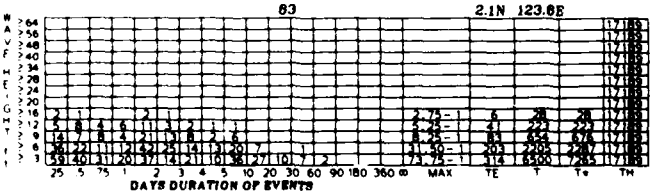






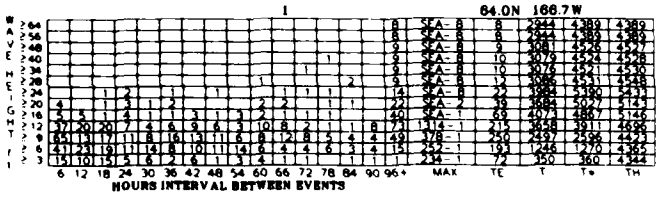


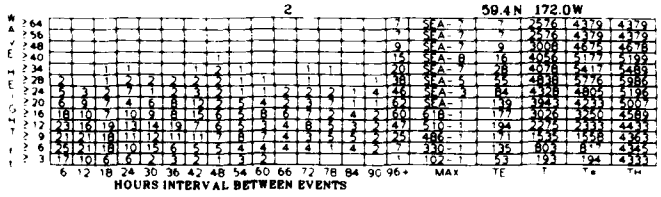


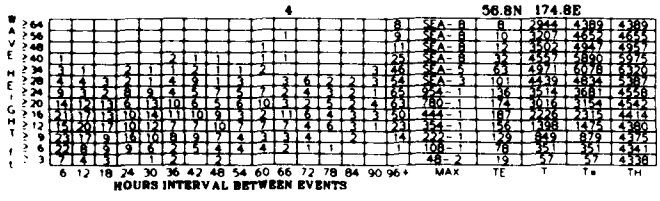


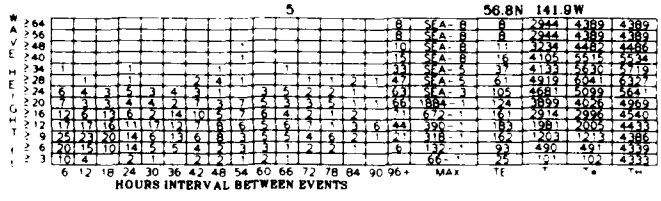
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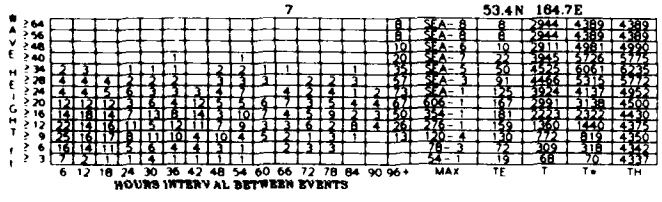
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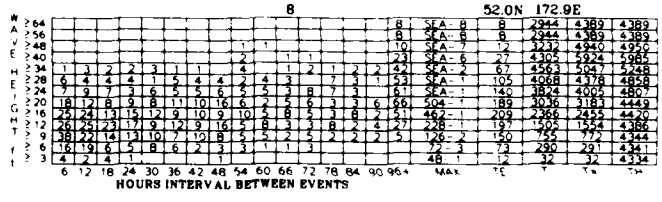

1
64.0N 166.7W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T∘ TH

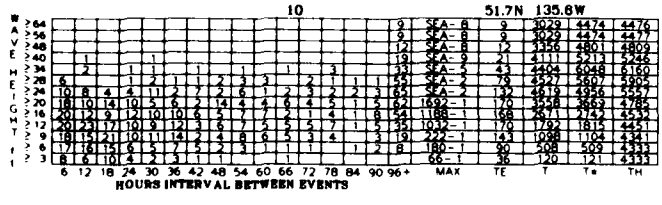

2
59.4N 172.0W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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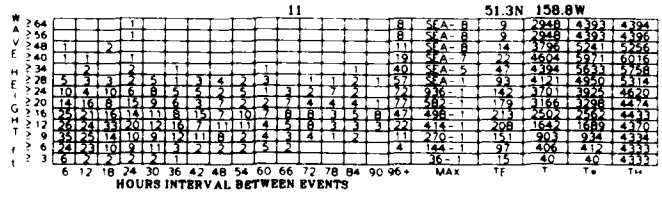

4
56.8N 174.8E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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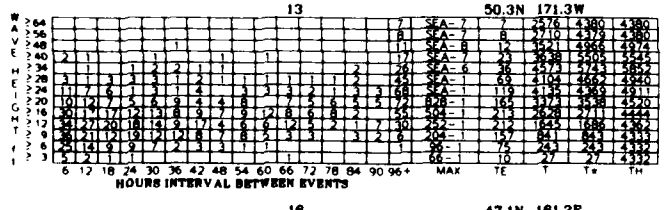

5
56.8N 141.9W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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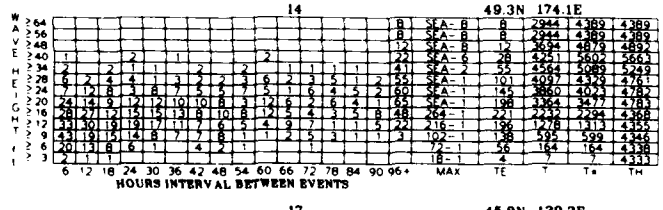

7
53.4N 164.7E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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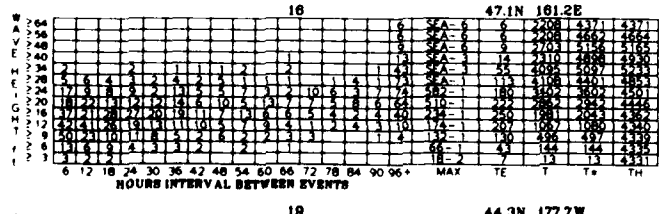

8
52.0N 172.9E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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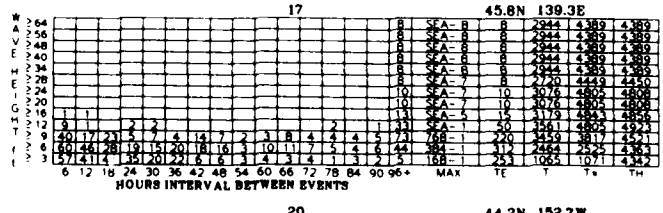

10
51.7N 135.6W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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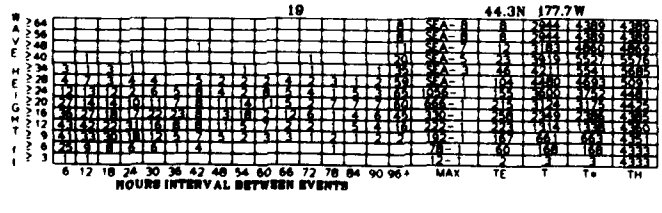

11
51.3N 158.8W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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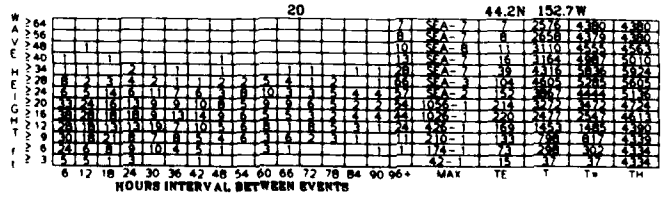

13
50.3N 171.3W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T∘ TH


14
49.3N 174.1E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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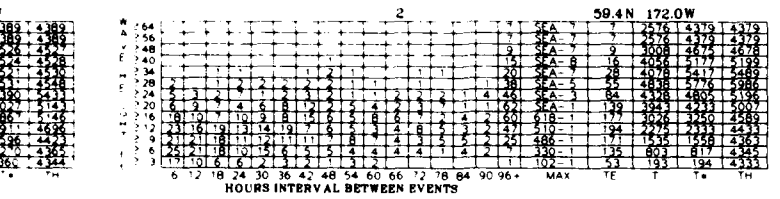

16
47.1N 161.2E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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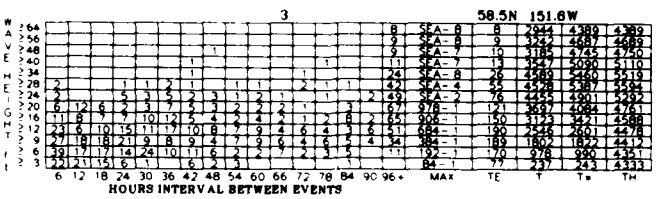

17
45.8N 139.3E
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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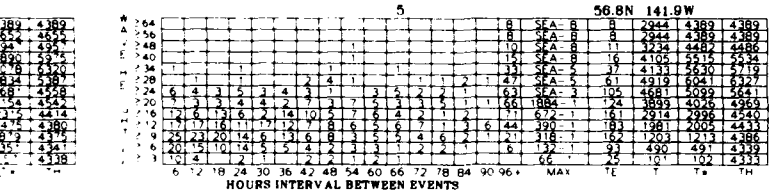

19
44.3N 177.7W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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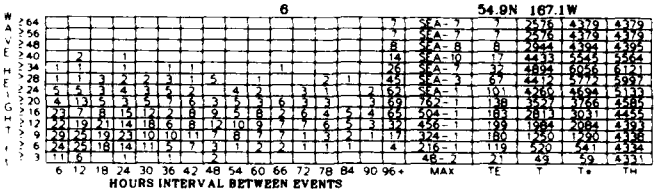

20
44.2N 152.7W
WAVE HEIGHT ft
HOURS INTERVAL BETWEEN EVENTS
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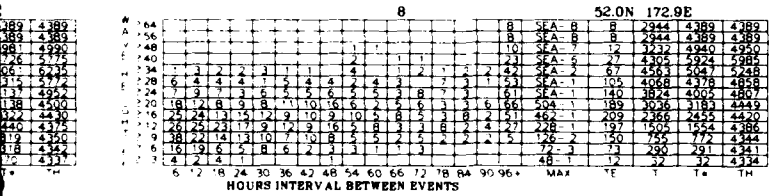
WAVE HEIGHT INTERVALS

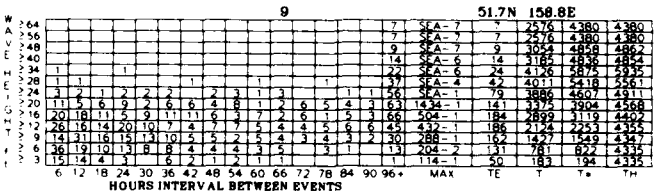


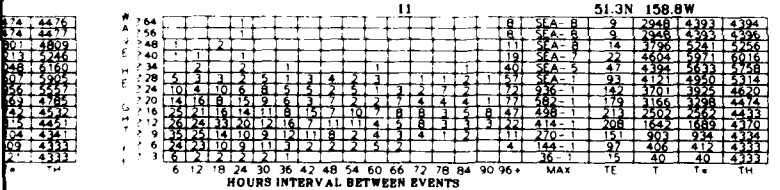


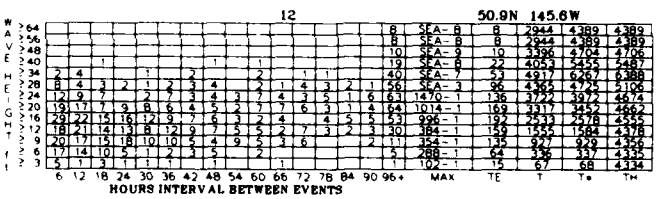


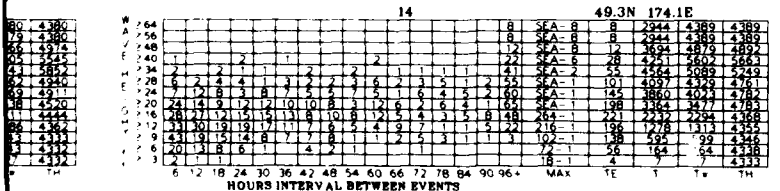


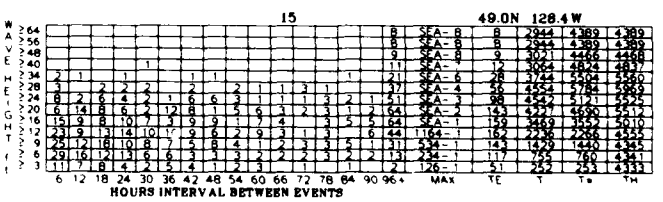


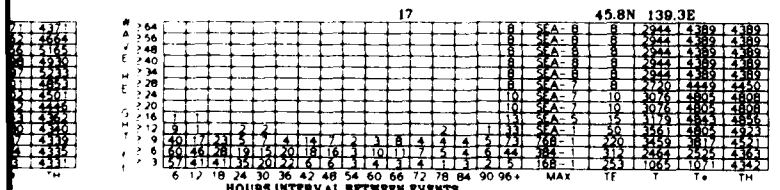


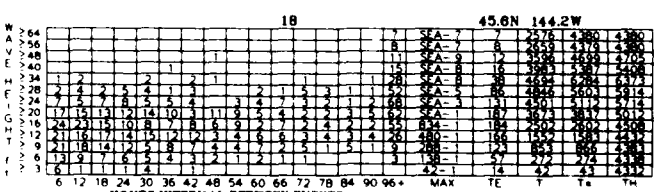


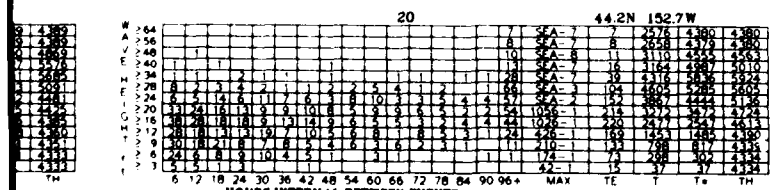


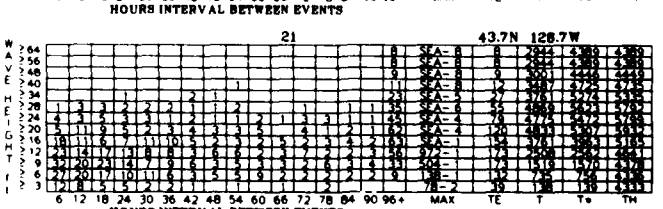




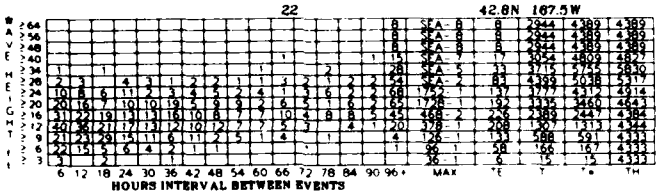


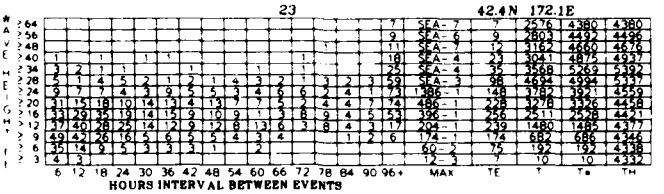


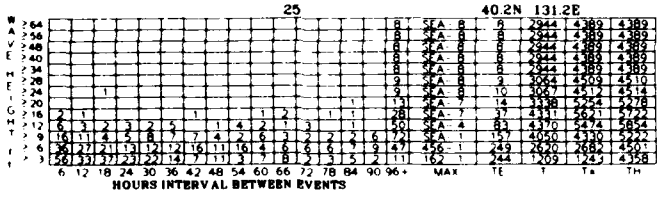


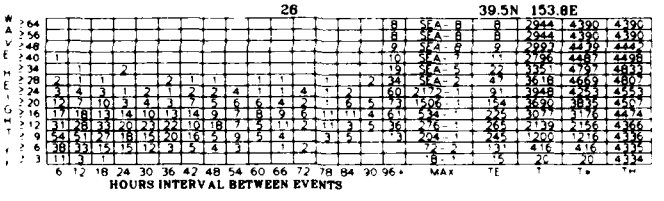


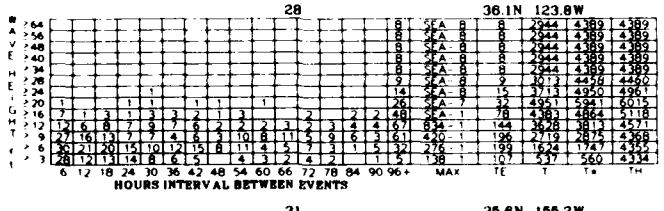
WAVE HEIGHT INTERVALS (Cont'd)

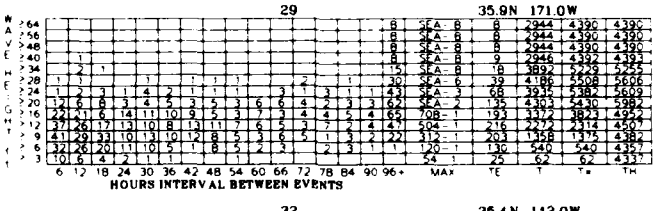


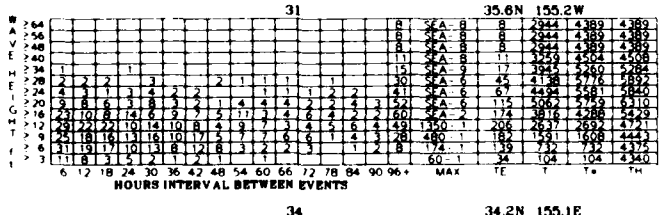


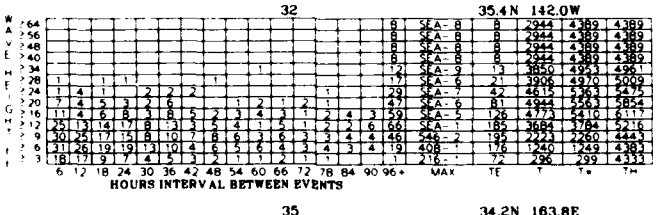


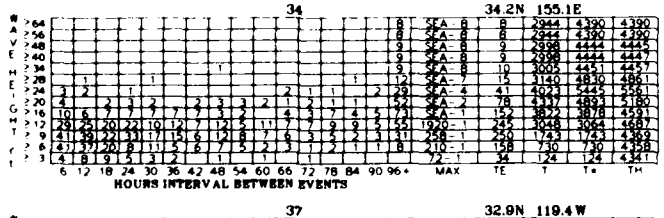


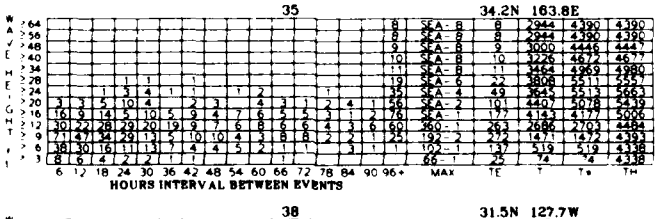


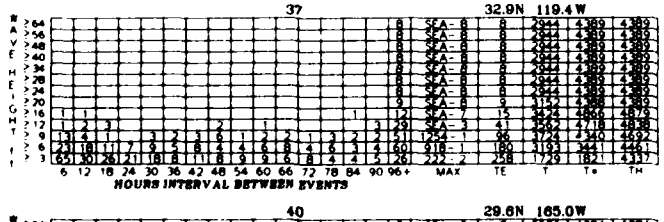


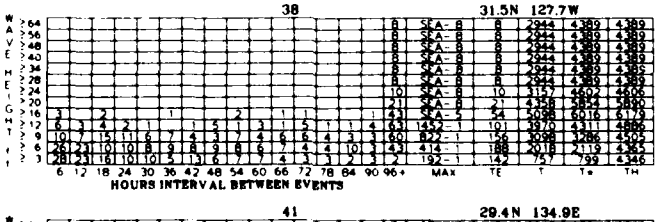


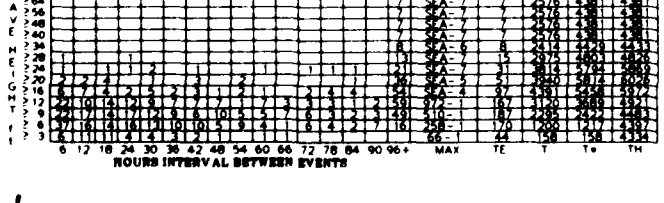


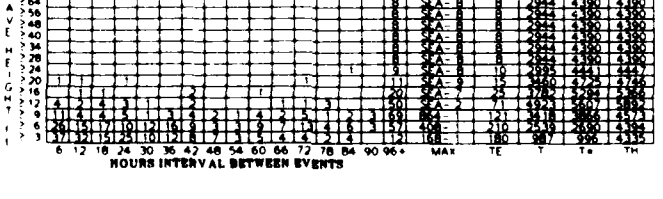








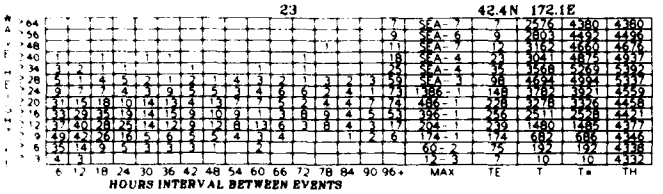




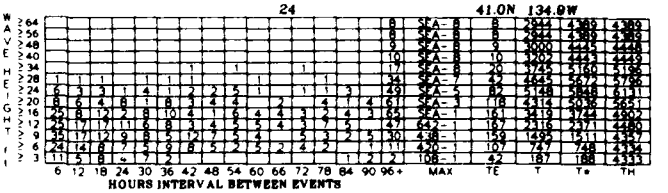
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WINTER

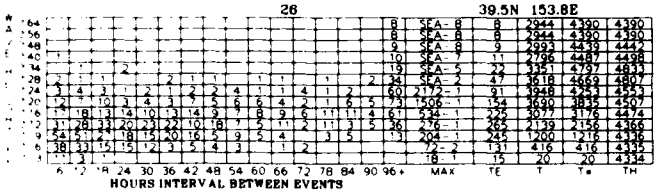
23 — 42.4N 172.1E



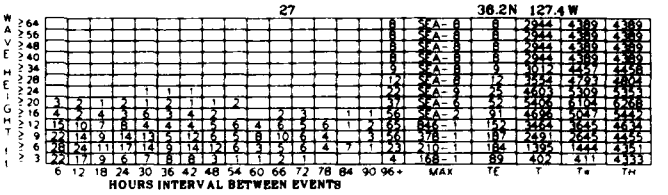
24 — 41.0N 134.9W



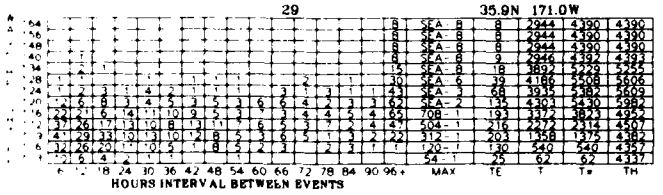
26 — 39.5N 153.8E



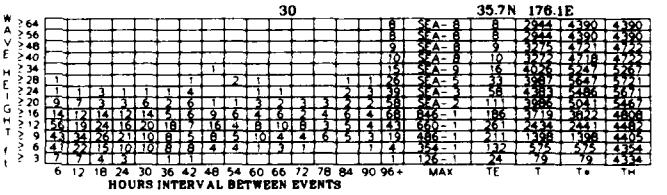
27 — 36.2N 127.4W



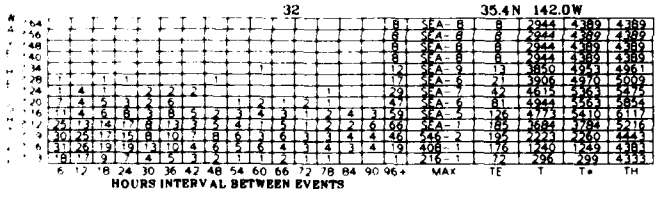
29 — 35.9N 171.0W



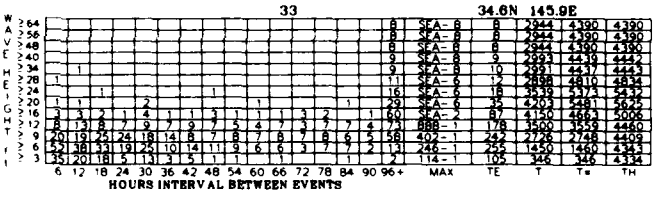
30 — 35.7N 176.1E



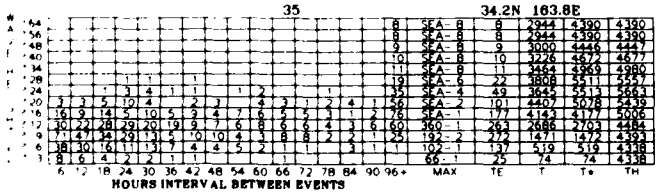
32 — 35.4N 142.0W



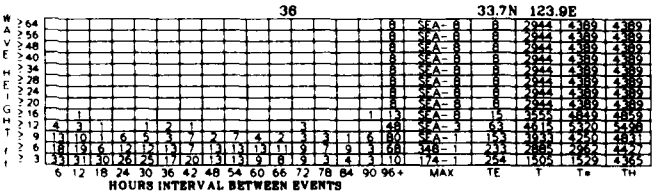
33 — 34.6N 145.9E



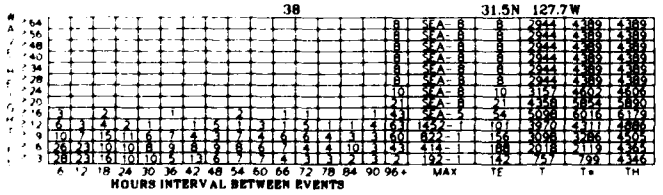
35 — 34.2N 163.8E



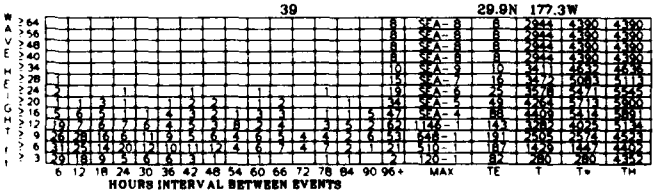
36 — 33.7N 123.9E



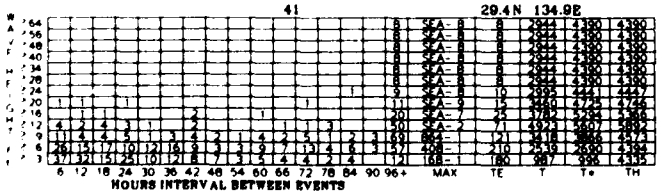
38 — 31.5N 127.7W



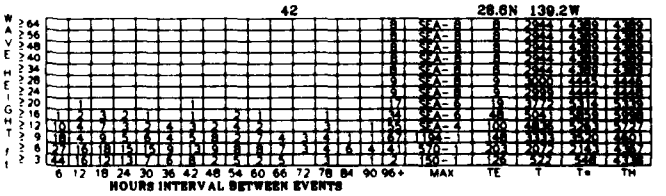
39 — 29.9N 177.3W



41 — 29.4N 134.9E

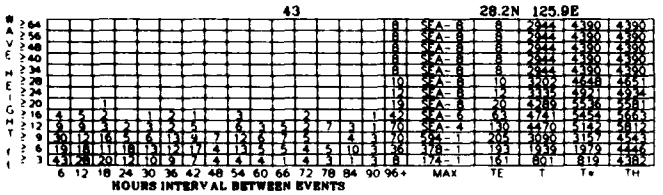


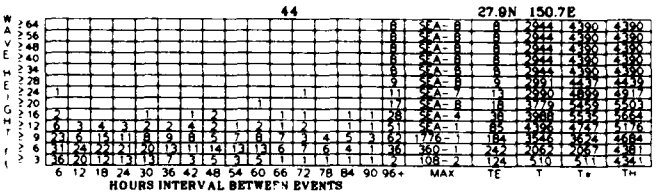
42 — 28.6N 139.2W

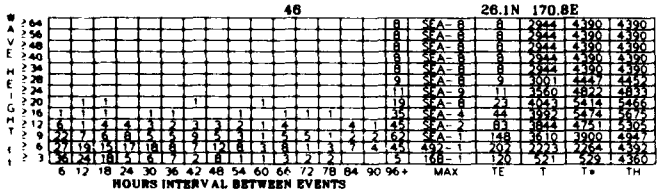


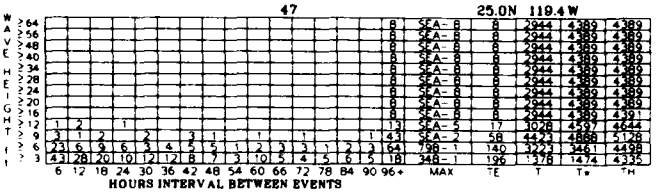
HOURS INTERVAL BETWEEN EVENTS

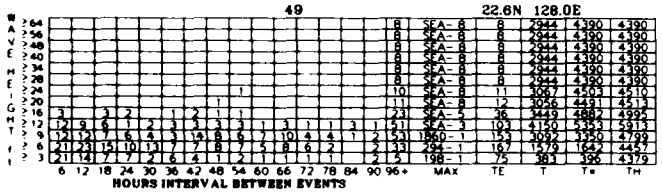
WINTER

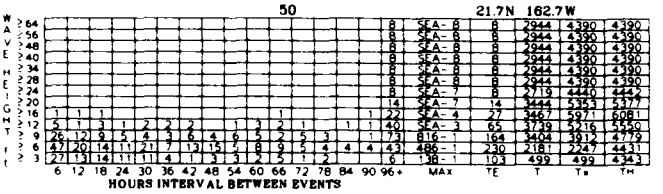

43
28.2N 125.9E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

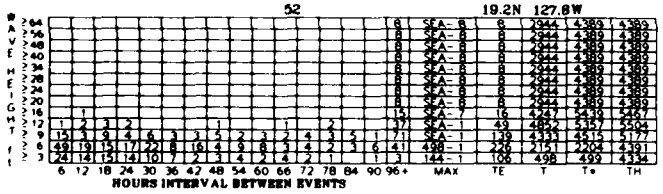

44
27.9N 150.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

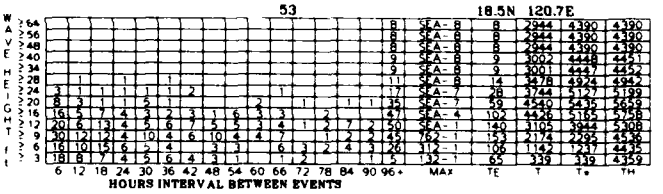

46
26.1N 170.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

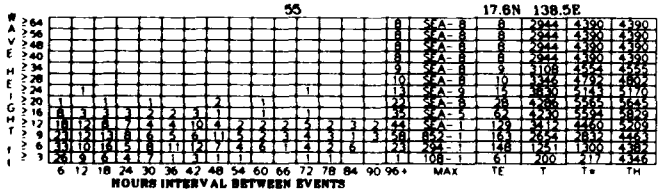

47
25.0N 119.4W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

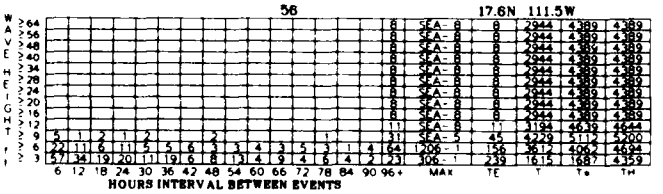

49
22.6N 128.0E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

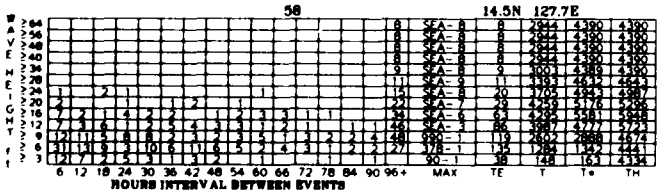

50
21.7N 162.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

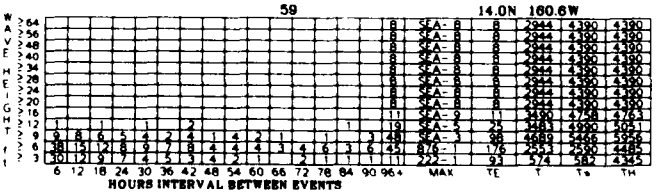

52
19.2N 127.8W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

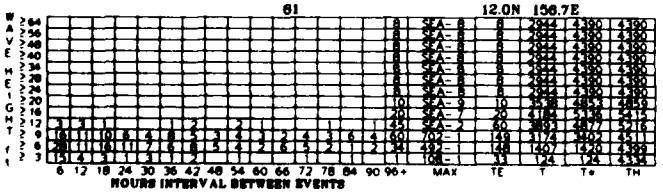

53
18.5N 120.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

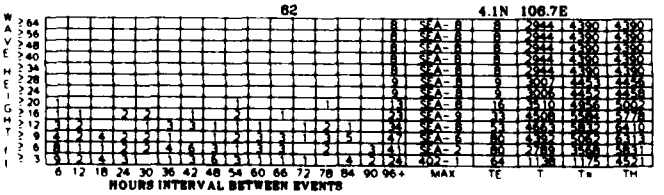

55
17.6N 138.5E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS


56
17.6N 111.5W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

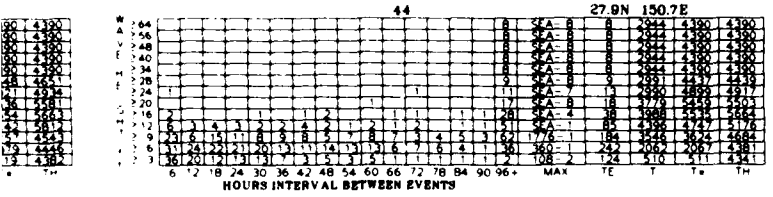

58
14.5N 127.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

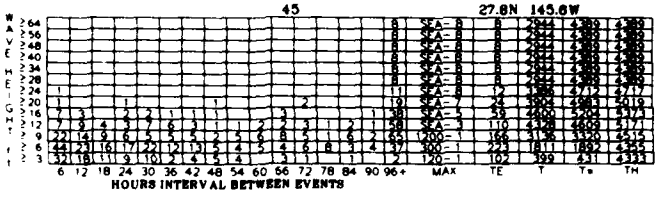

59
14.0N 160.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

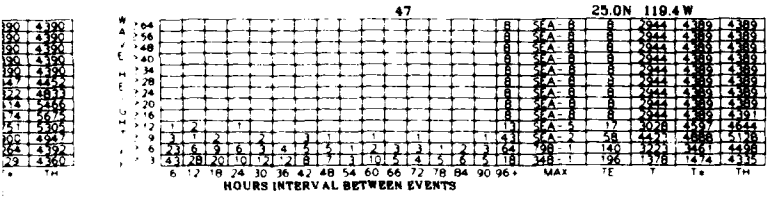

61
12.0N 156.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

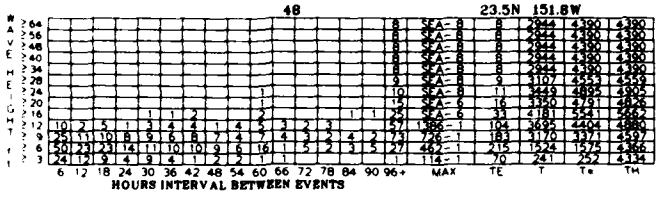

62
4.1N 106.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

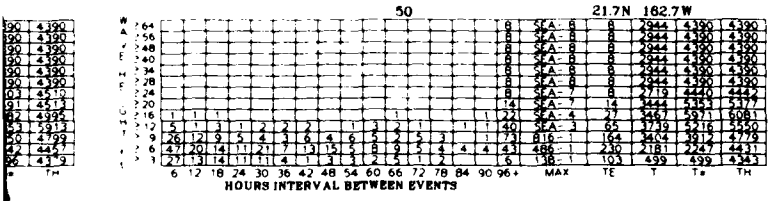
WAVE HEIGHT INTERVALS (Cont'd)

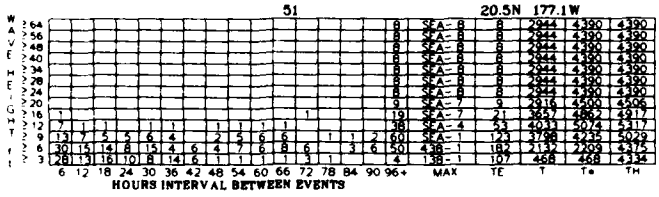


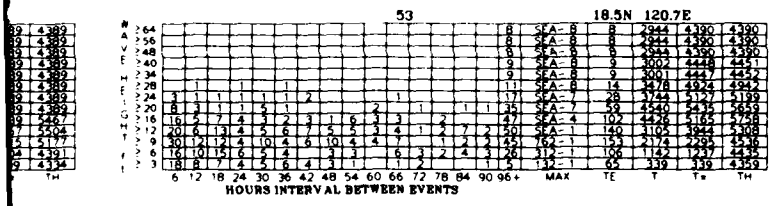


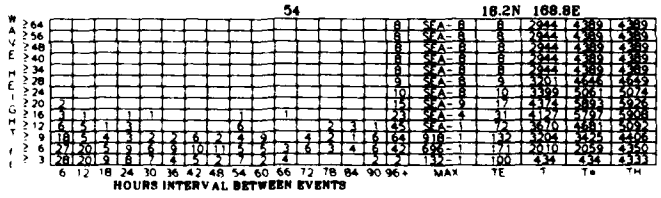


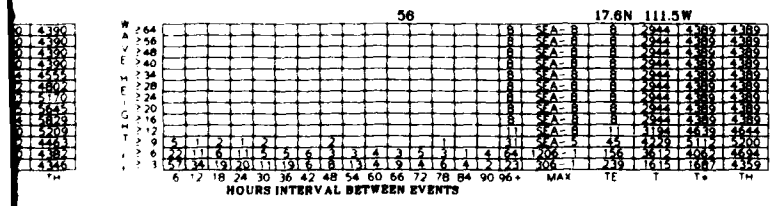


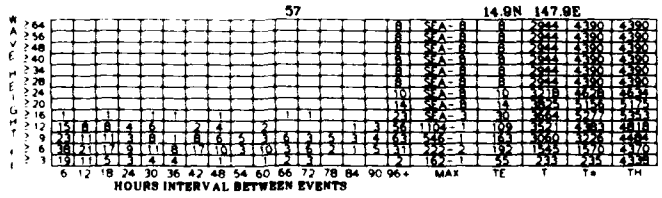


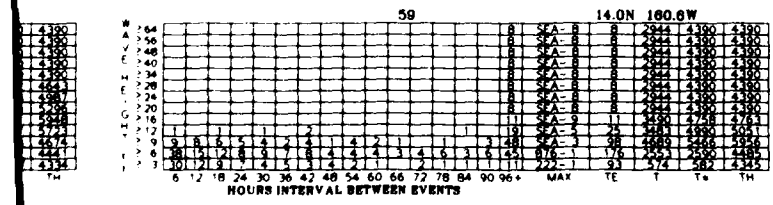


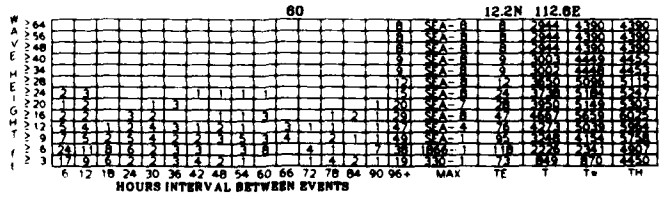


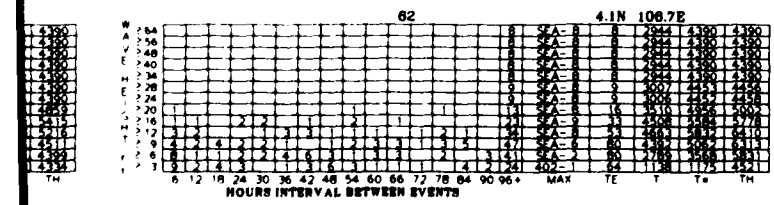


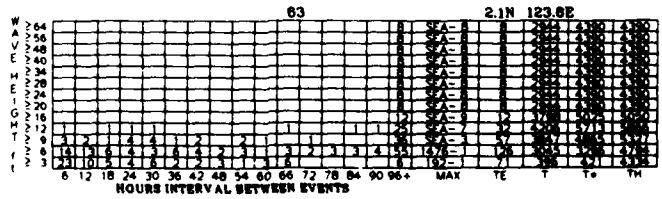




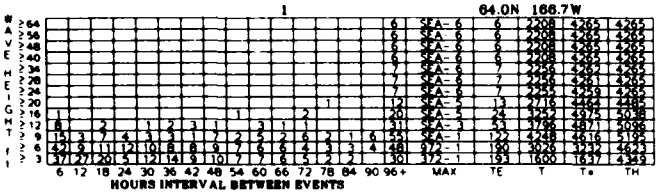


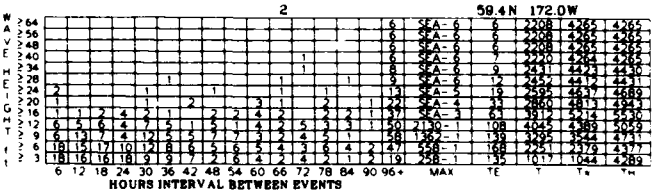


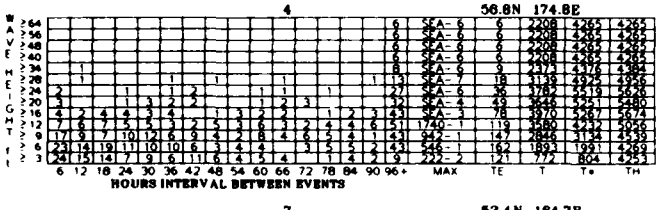


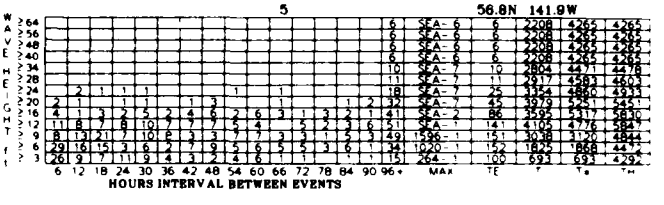


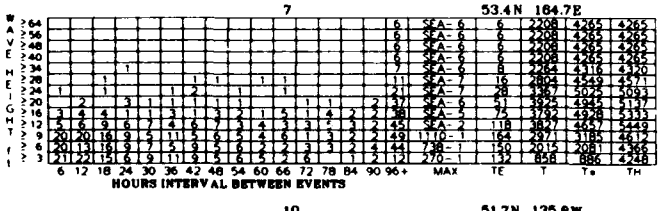
WAVE HEIGHT INTERVALS

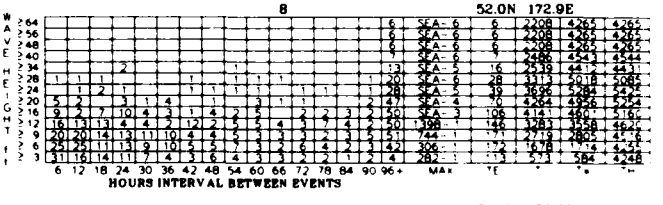


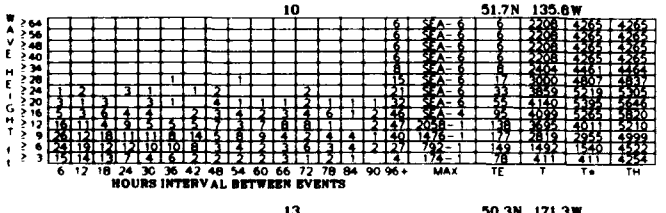


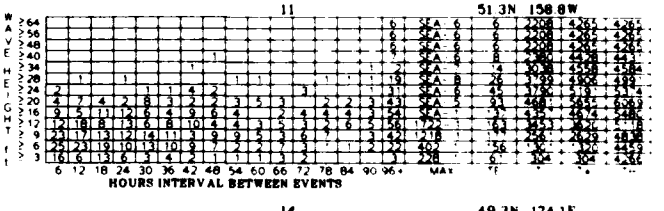


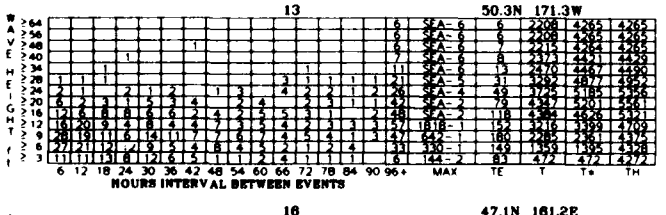


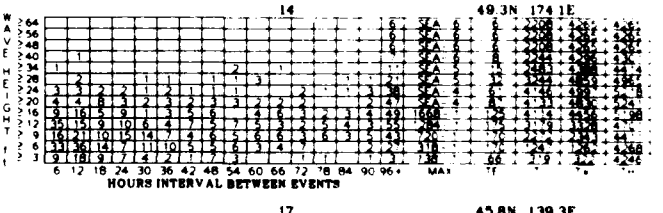


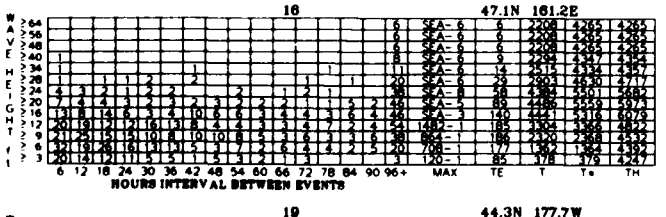


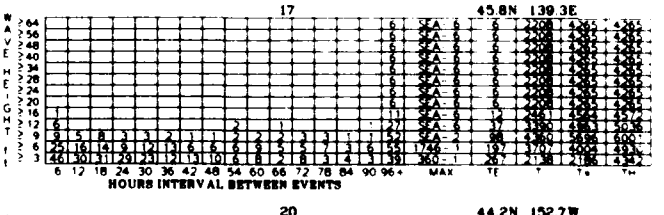


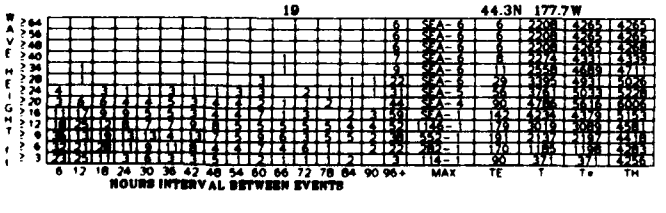


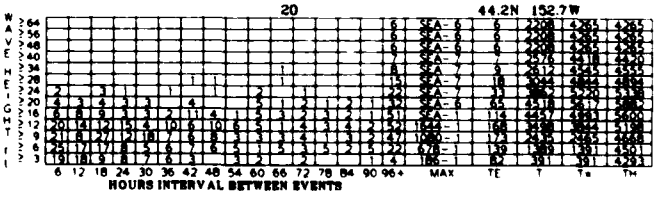




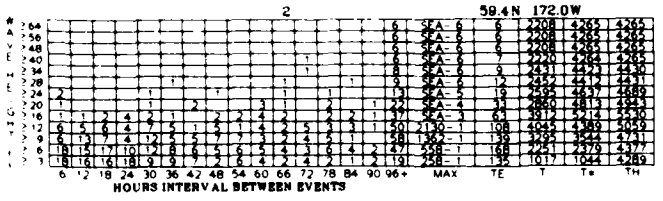


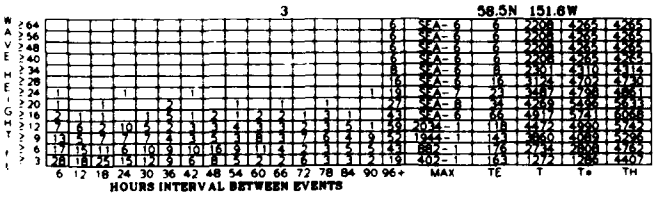


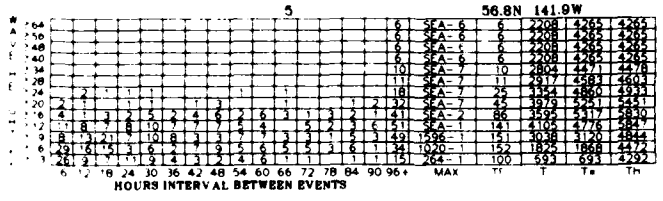


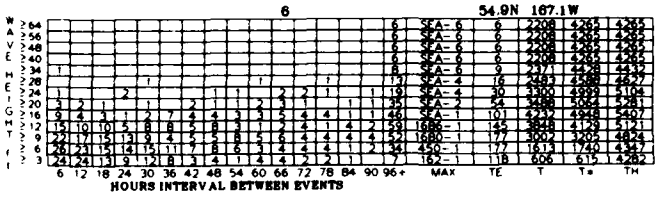


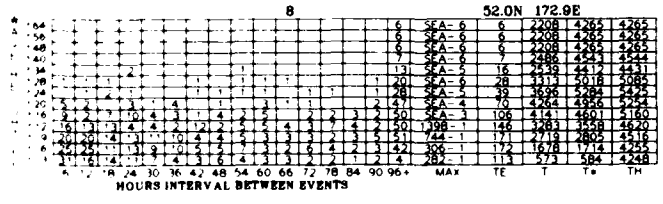
SPRING

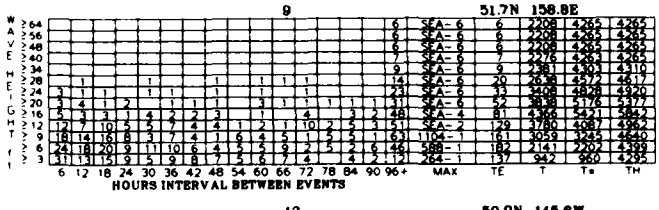

2
59.4N 172.0W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

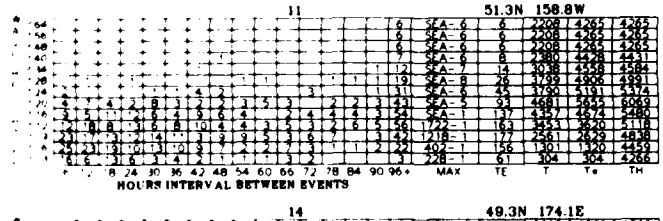

3
58.5N 151.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

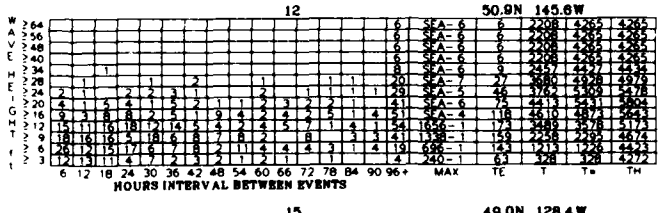

5
56.8N 141.9W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

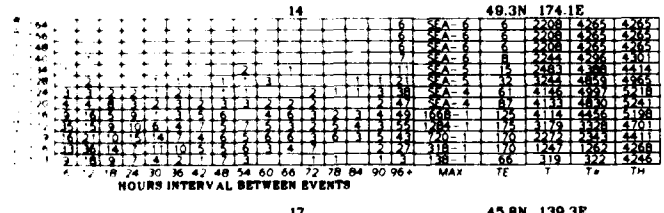

6
54.9N 167.1W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

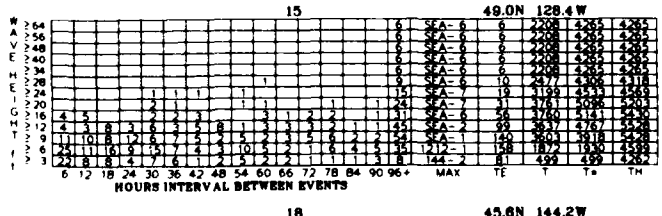

8
52.0N 172.9E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

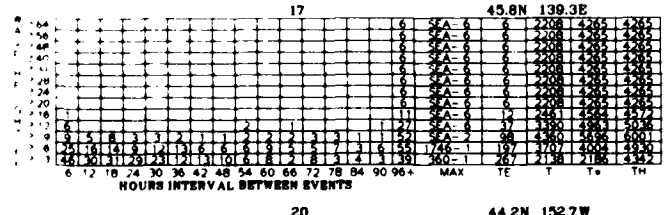

9
51.7N 156.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

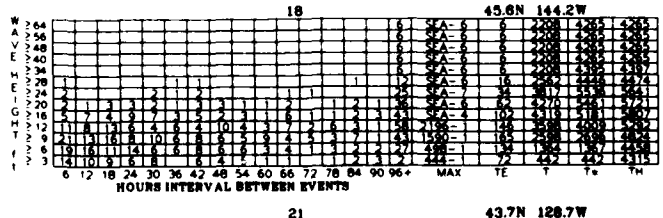

11
51.3N 138.8W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

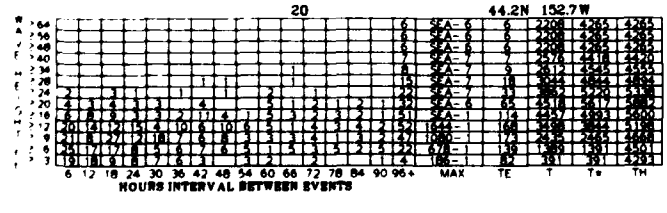

12
50.9N 145.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

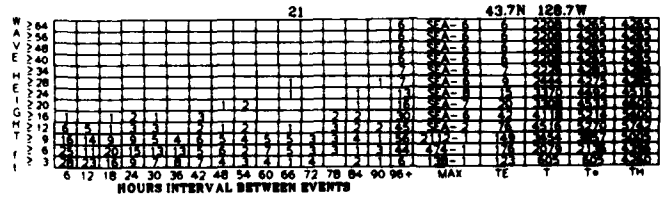

14
49.3N 174.1E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


15
49.0N 128.4W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

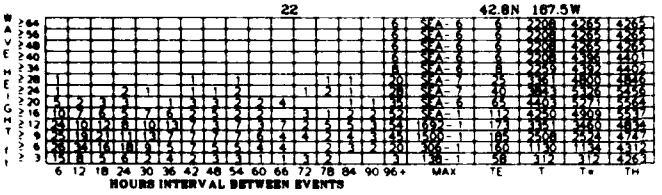

17
45.8N 139.3E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

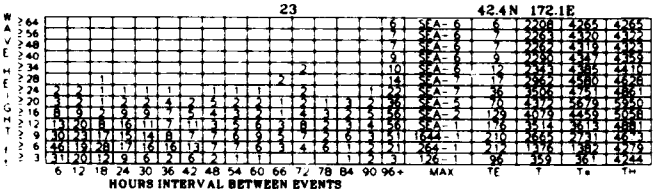

18
45.6N 144.2W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

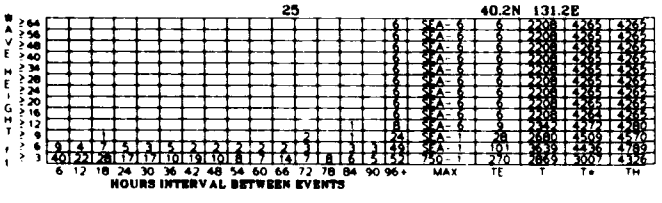

20
44.2N 152.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

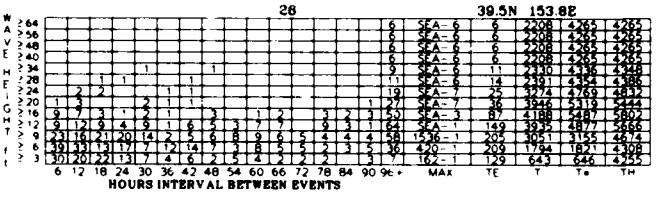

21
43.7N 128.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

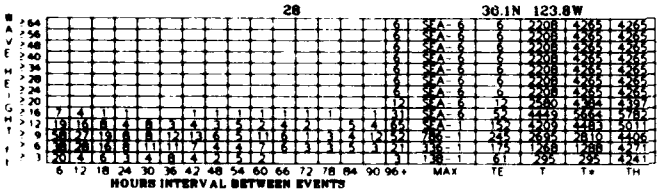
SPRING

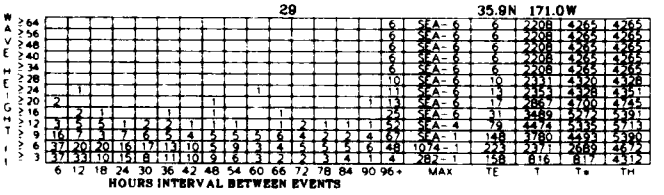

22
42.8N 167.5W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

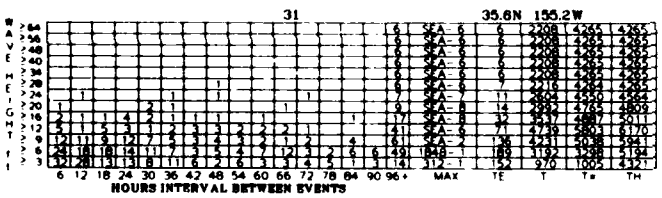

23
42.4N 172.1E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

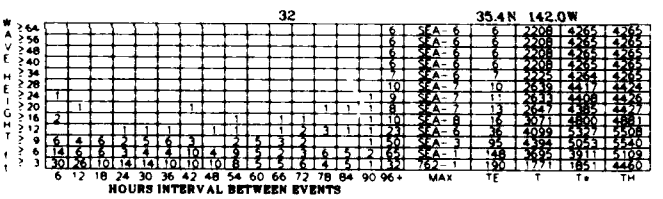

25
40.2N 131.2E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

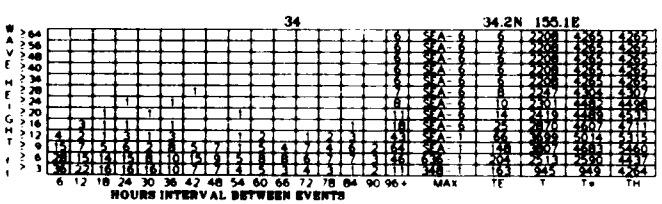

26
39.5N 153.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

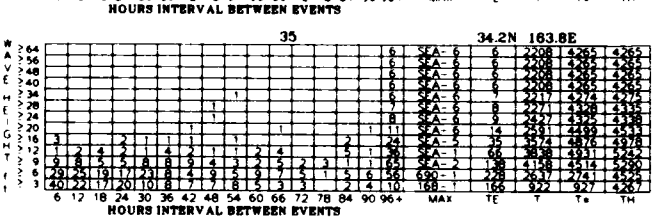

28
38.1N 123.8W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

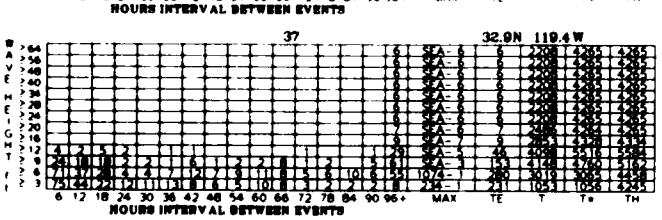

29
35.9N 171.0W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

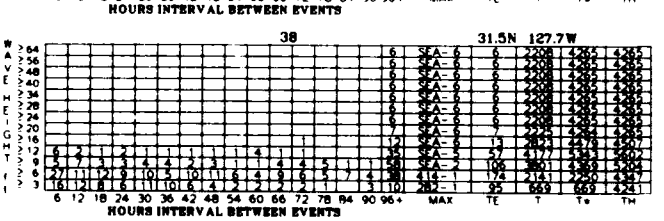

31
35.6N 155.2W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

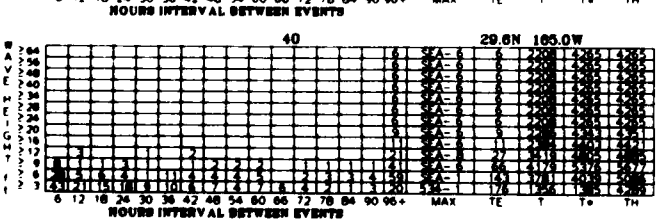

32
35.4N 142.0W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

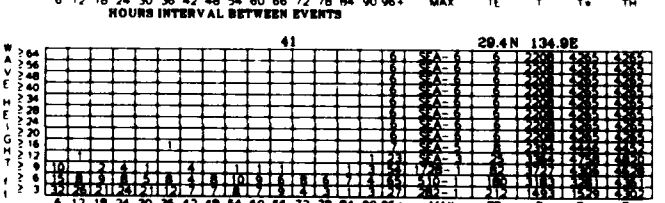

34
34.2N 155.1E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH


35
34.2N 163.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

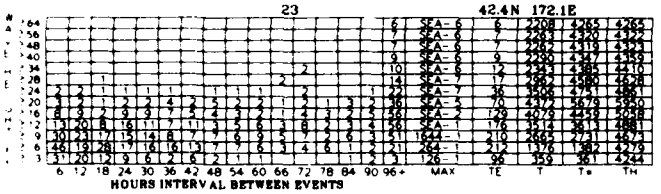

37
32.9N 119.4W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

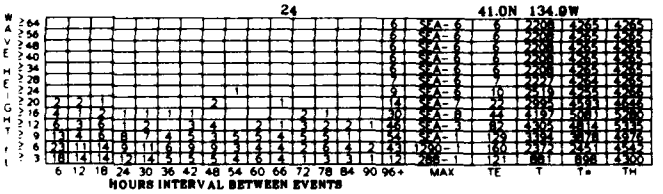

38
31.5N 127.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

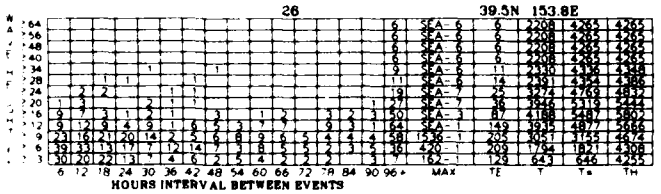

40
29.6N 165.0W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

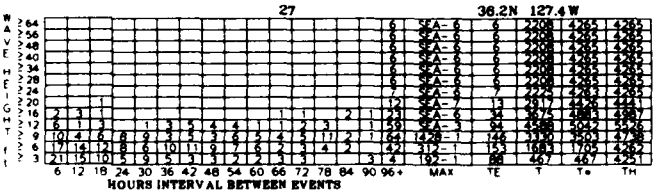

41
29.4N 134.9E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS
MAX
TE
T
Te
TH

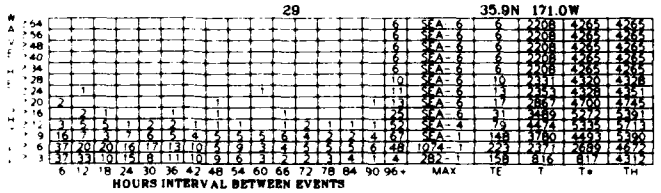
WAVE HEIGHT INTERVALS (Cont'd)

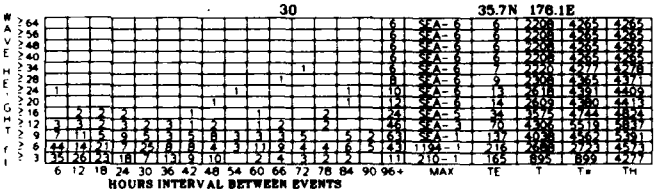


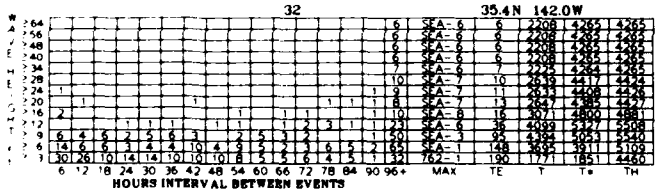


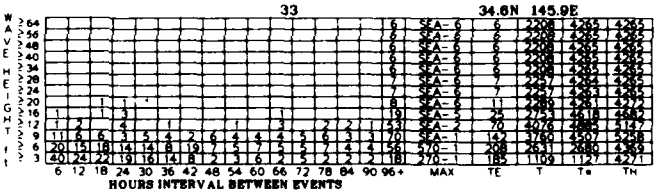


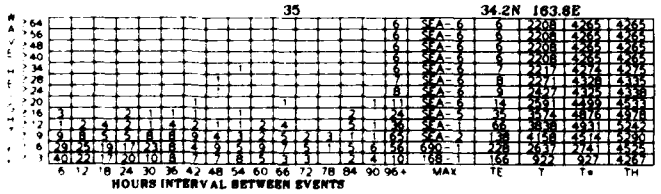


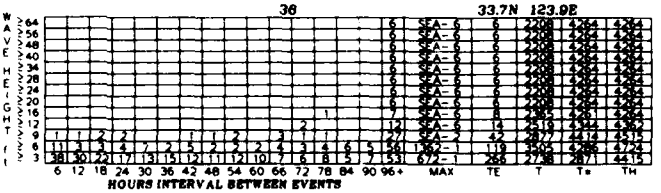


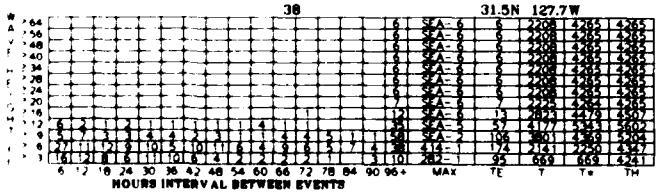


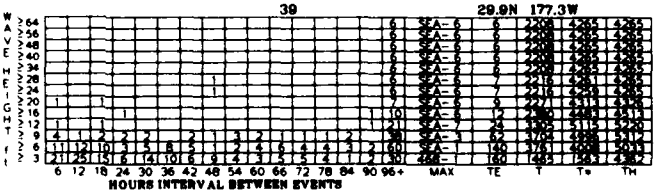


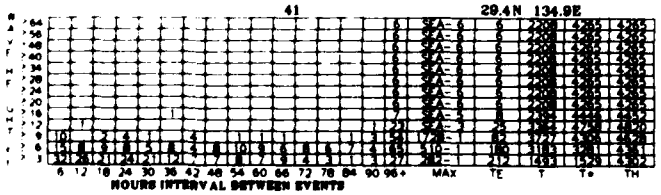


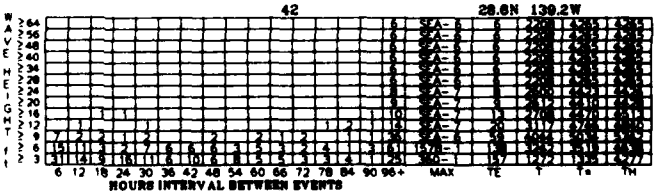




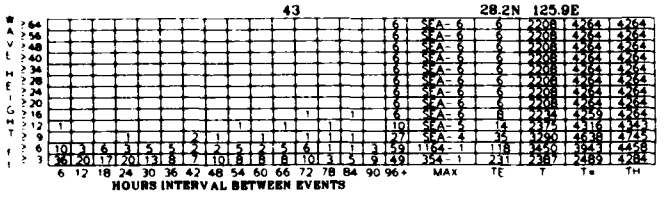


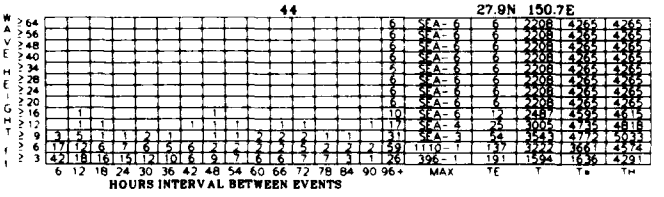


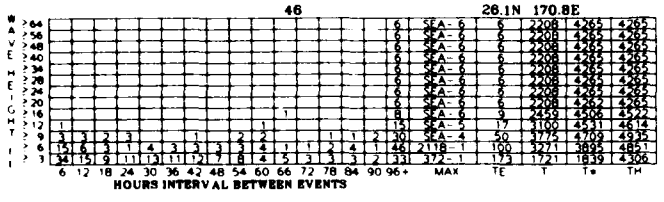


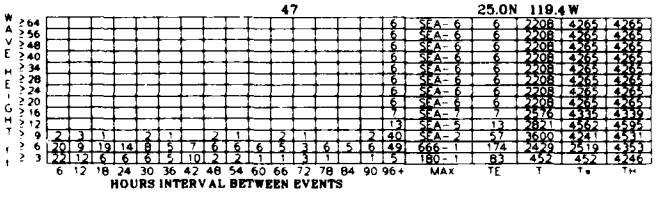


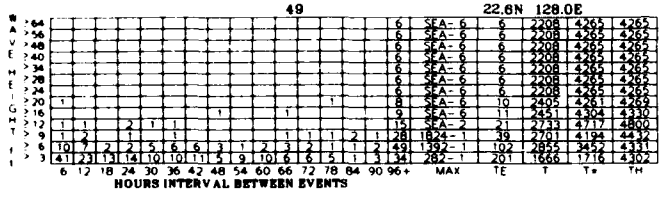
WAVE HEIGHT INTERVALS (Cont'd)

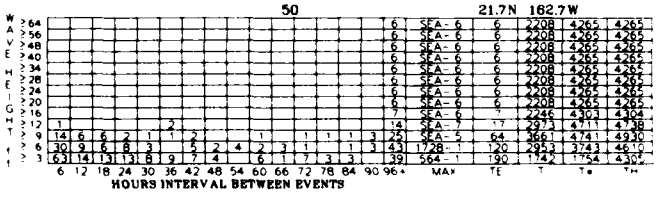


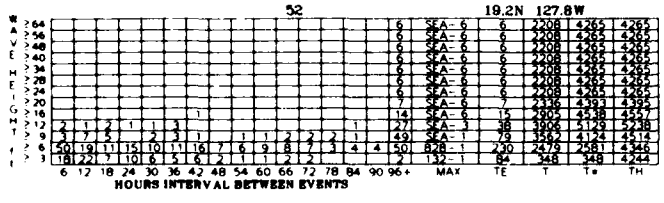


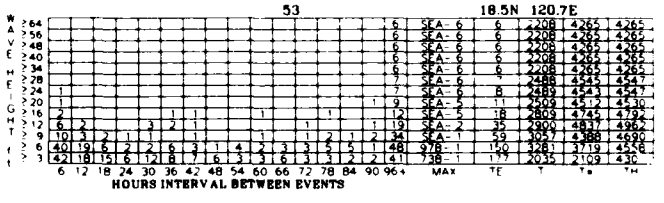


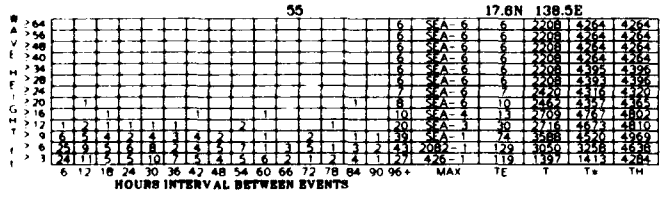


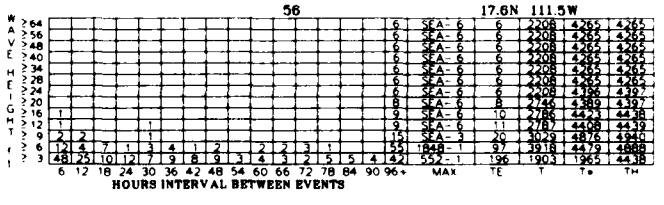


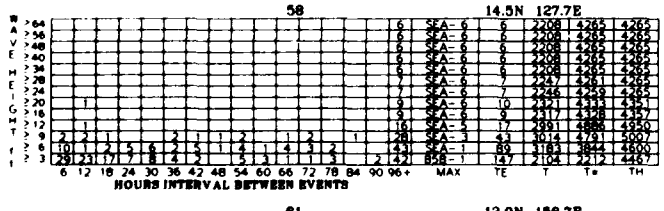


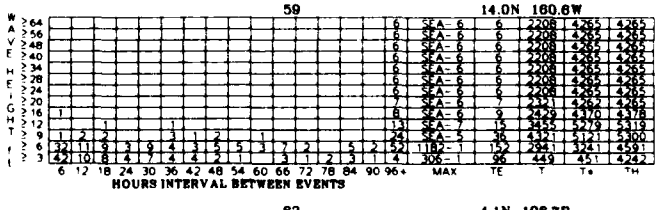


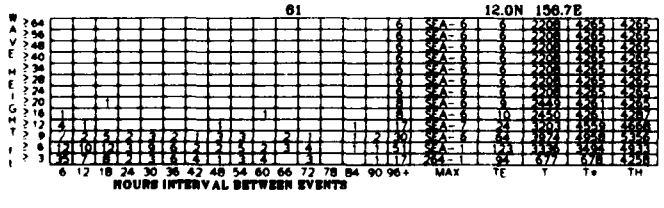


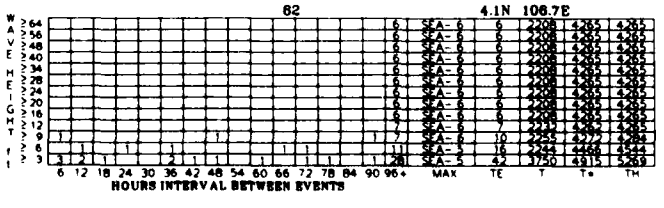


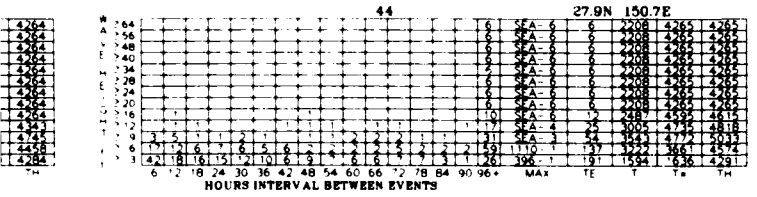


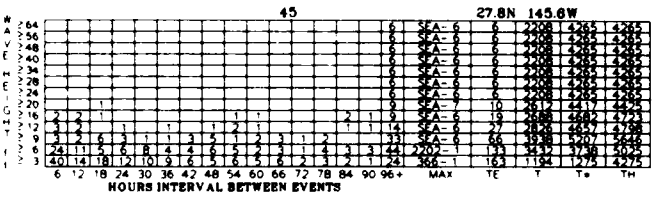


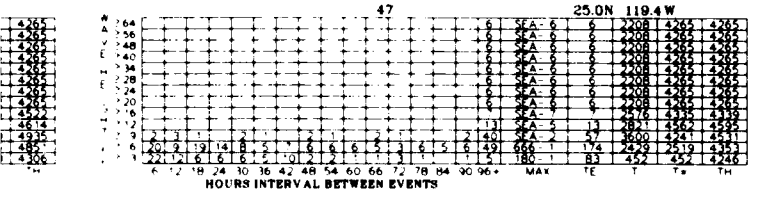


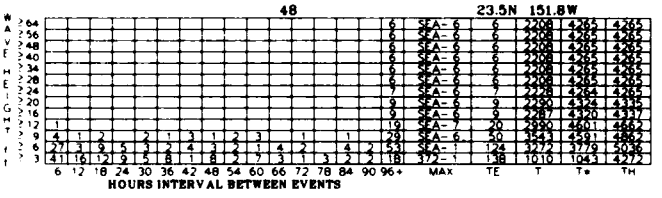


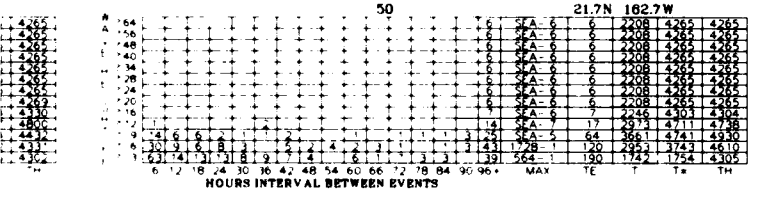


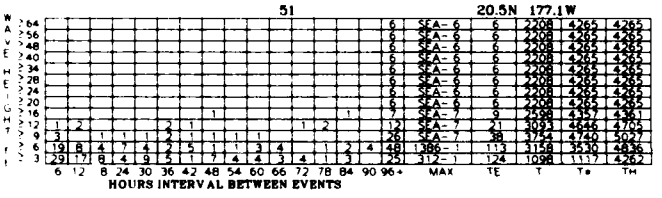

44
27.9N 150.7E
HOURS INTERVAL BETWEEN EVENTS

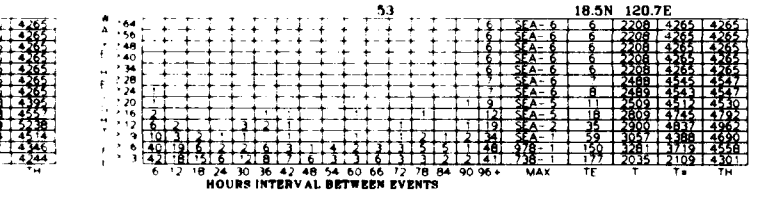

45
27.8N 145.6W
HOURS INTERVAL BETWEEN EVENTS

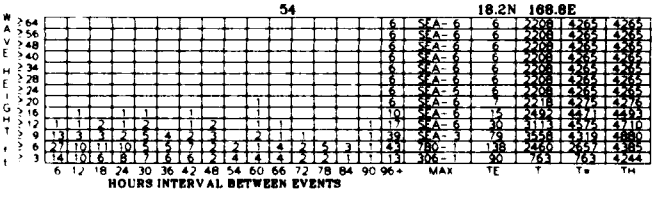

47
25.0N 119.4W
HOURS INTERVAL BETWEEN EVENTS

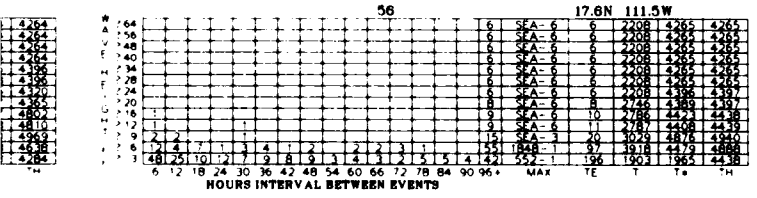

48
23.5N 151.8W
HOURS INTERVAL BETWEEN EVENTS

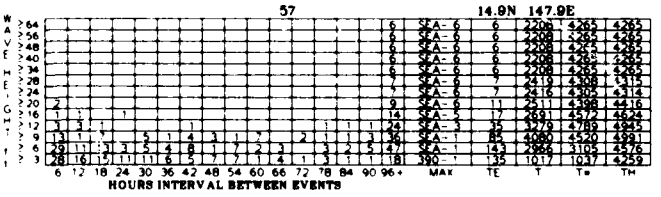

50
21.7N 162.7W
HOURS INTERVAL BETWEEN EVENTS

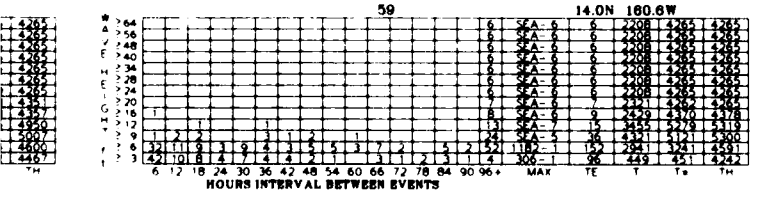

51
20.5N 177.1W
HOURS INTERVAL BETWEEN EVENTS

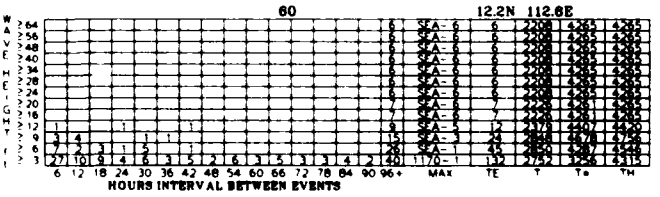

53
18.5N 120.7E
HOURS INTERVAL BETWEEN EVENTS

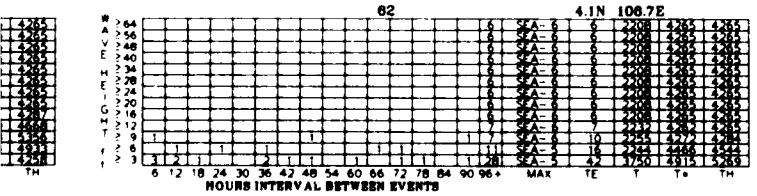

54
18.2N 168.8E
HOURS INTERVAL BETWEEN EVENTS

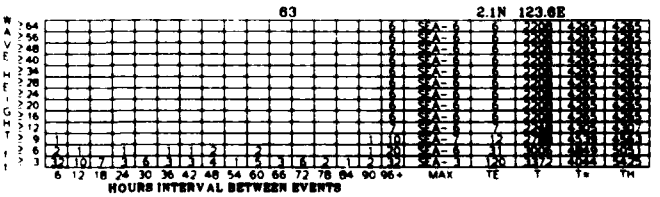

56
17.6N 111.5W
HOURS INTERVAL BETWEEN EVENTS


57
14.9N 147.9E
HOURS INTERVAL BETWEEN EVENTS

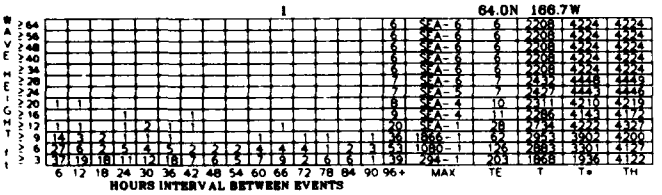

59
14.0N 160.6W
HOURS INTERVAL BETWEEN EVENTS

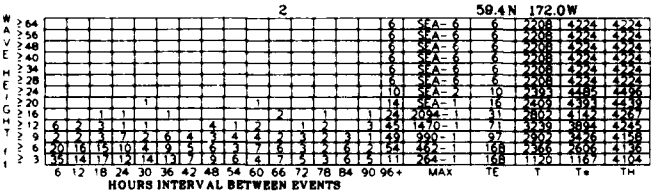

60
12.2N 112.6E
HOURS INTERVAL BETWEEN EVENTS

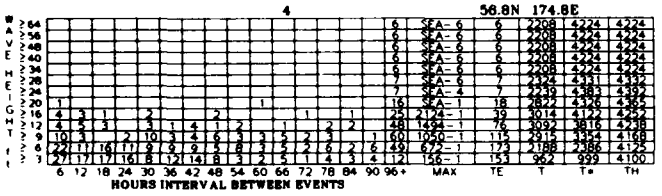

62
4.1N 106.7E
HOURS INTERVAL BETWEEN EVENTS

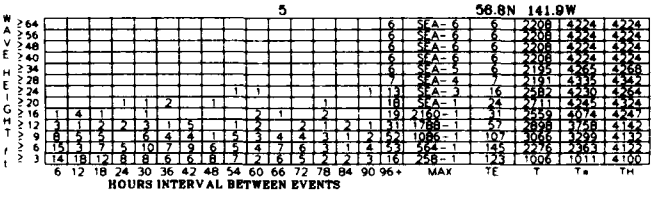

63
2.1N 123.6E
HOURS INTERVAL BETWEEN EVENTS

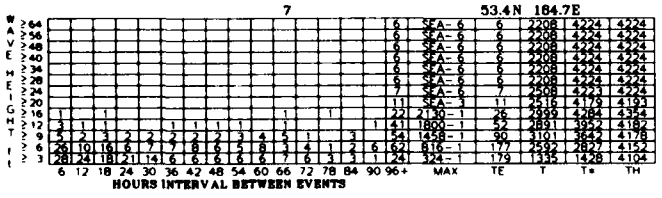
SUMMER

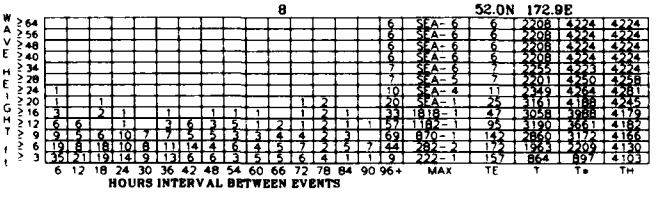

1
64.0N 166.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

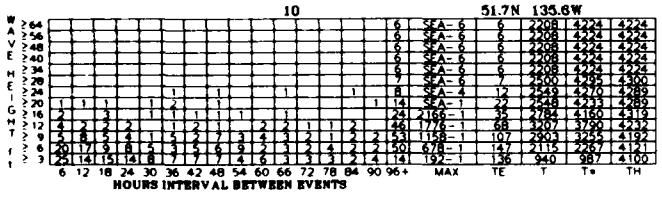

2
59.4N 172.0W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

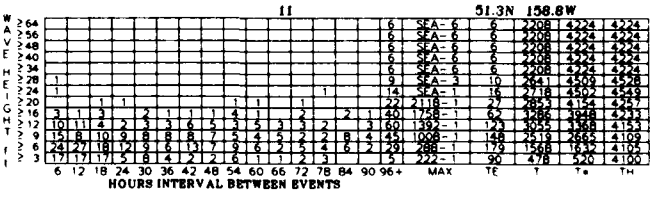

4
56.8N 174.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

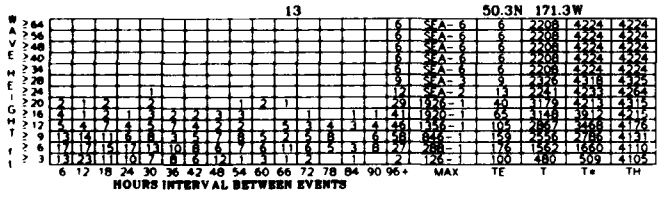

5
56.8N 141.9W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

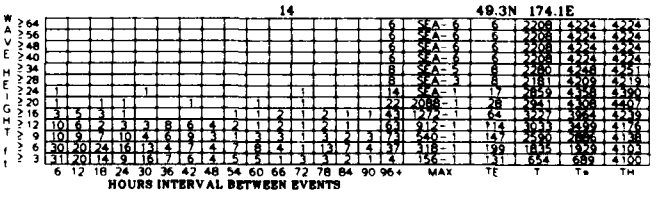

7
53.4N 164.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

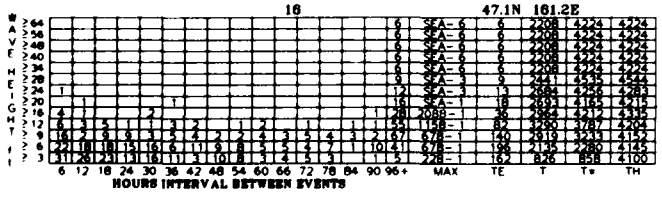

8
52.0N 172.9E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

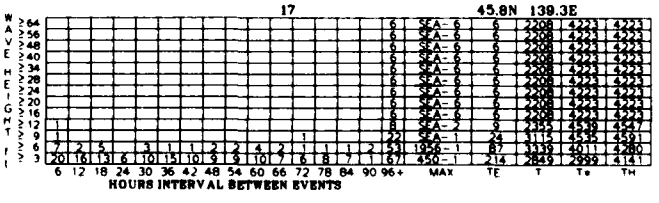

10
51.7N 135.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

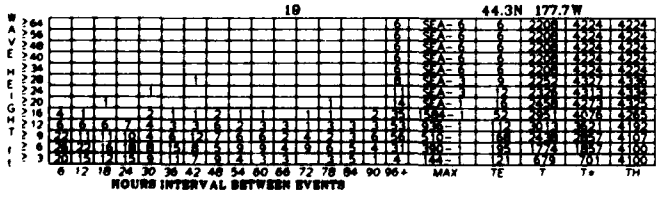

11
51.3N 158.8W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

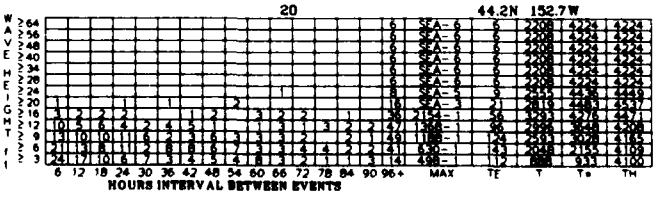

13
50.3N 171.3W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS


14
49.3N 174.1E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

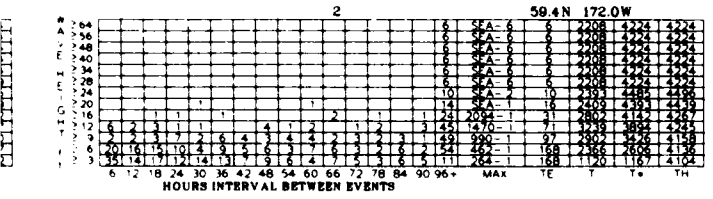

16
47.1N 161.2E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

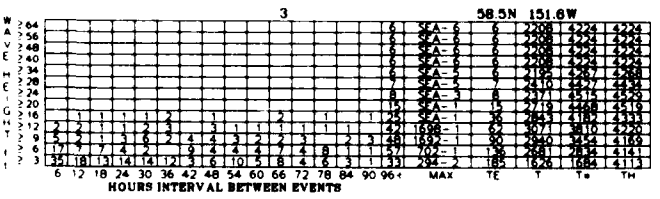

17
45.8N 139.3E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

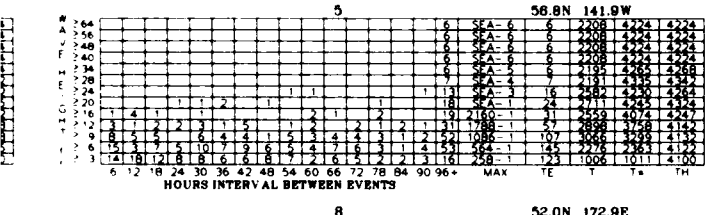

19
44.3N 177.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

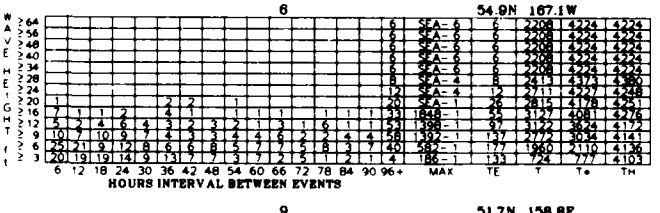

20
44.2N 152.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

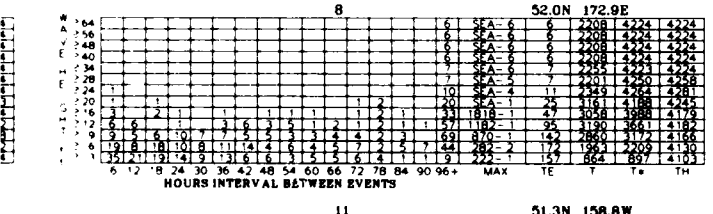
WAVE HEIGHT INTERVALS

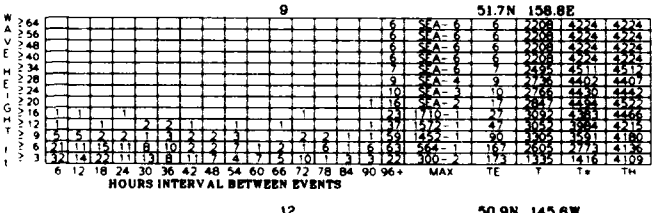


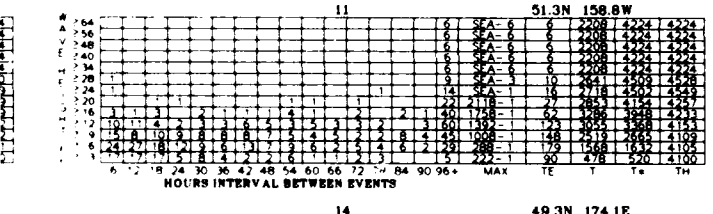


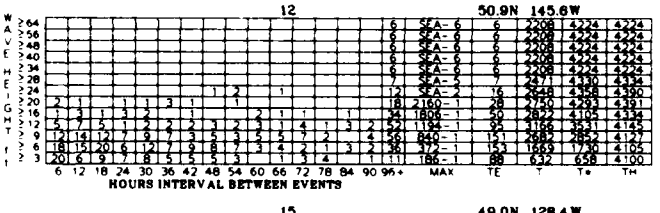


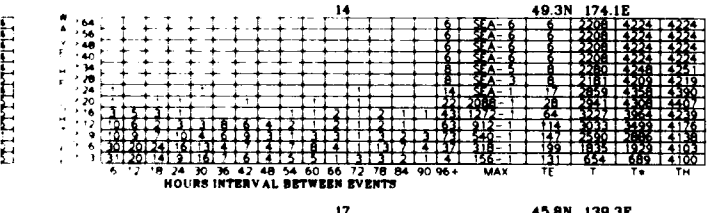


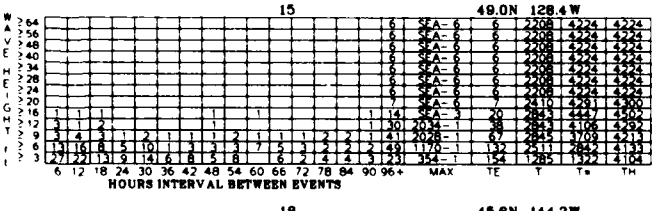


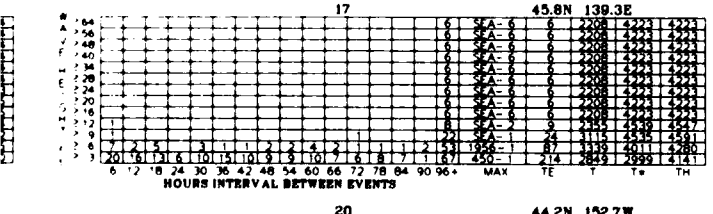


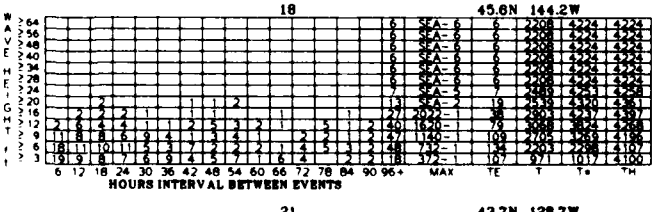


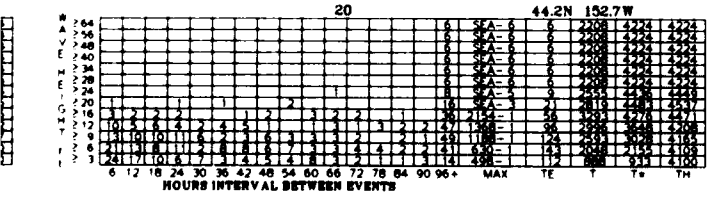


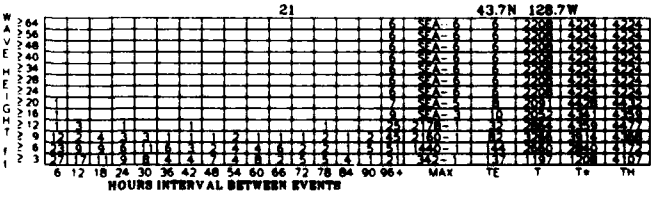




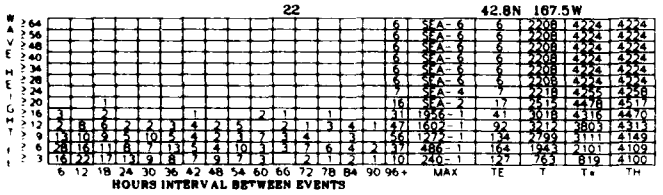


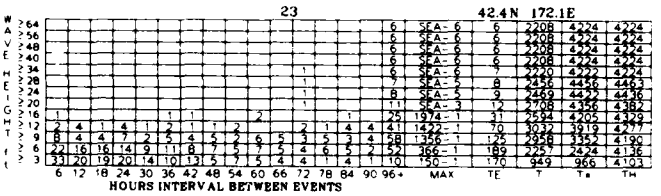


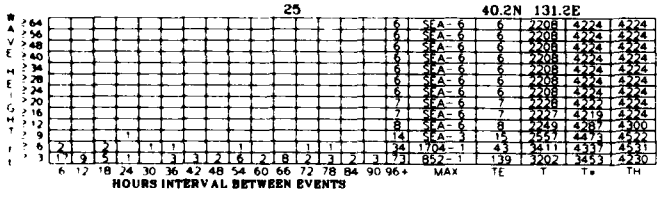


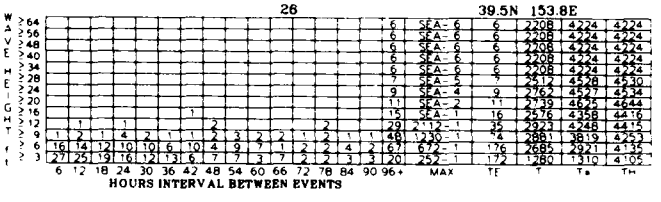


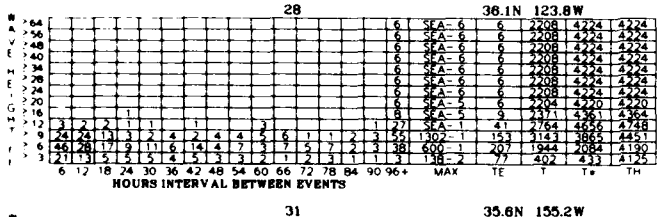
WAVE HEIGHT INTERVALS (Cont'd)

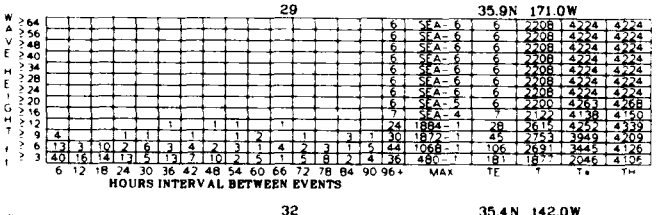


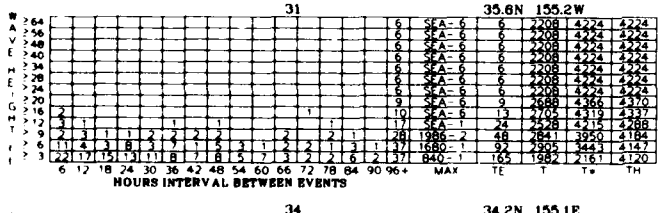


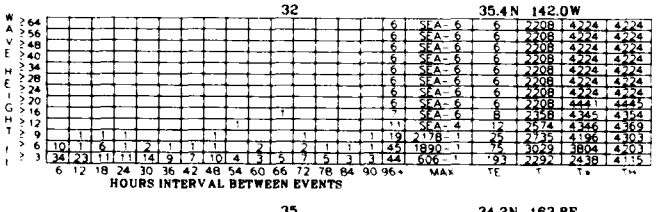


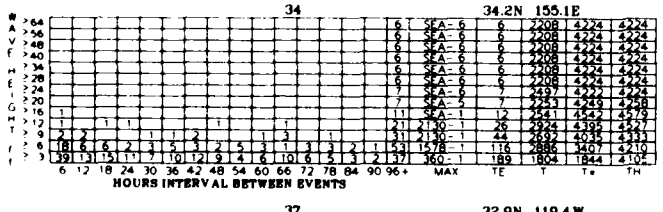


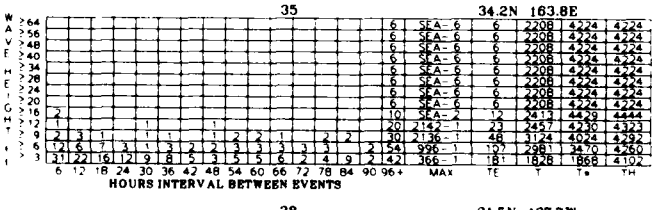


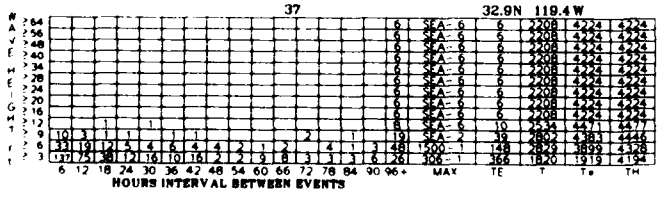


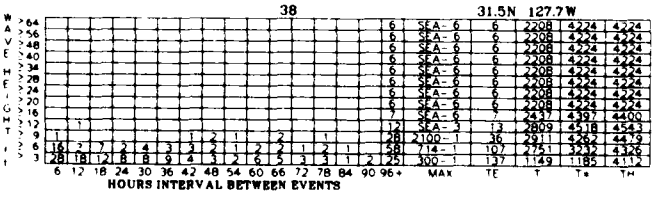


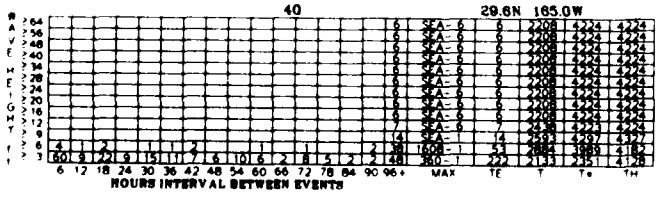


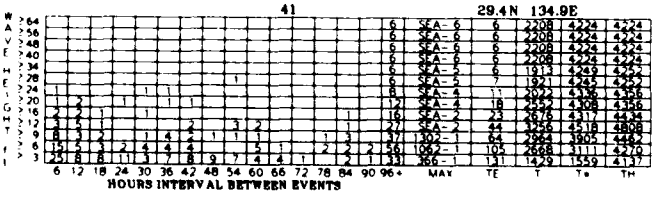






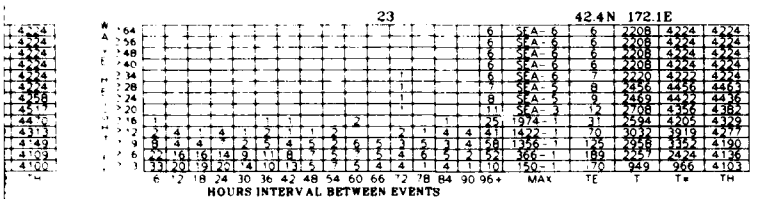


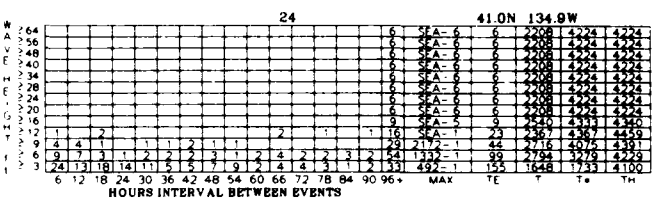


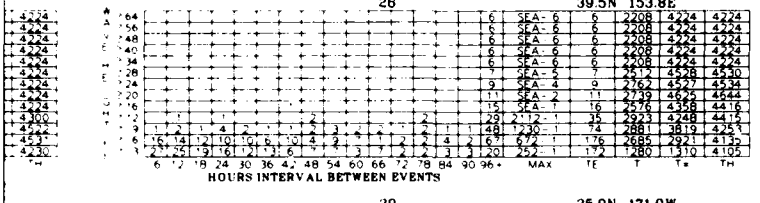


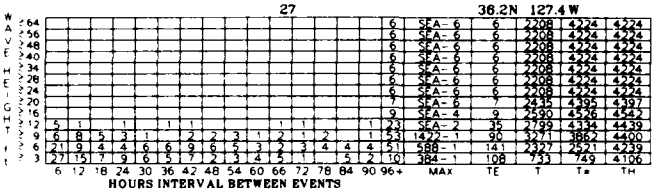
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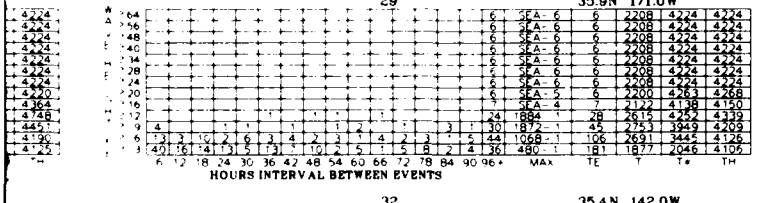
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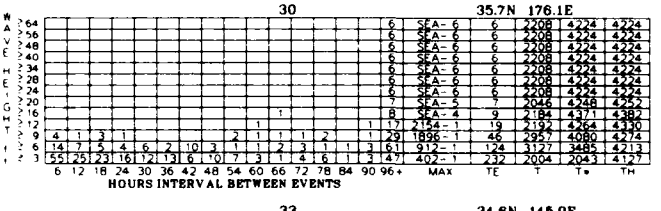


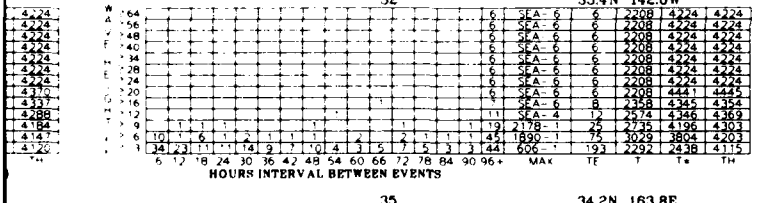


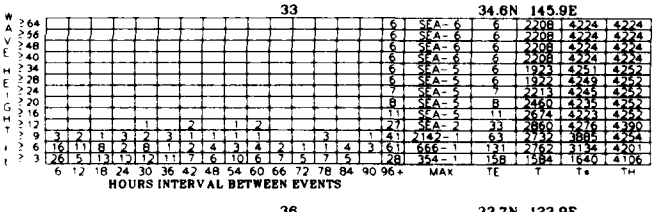


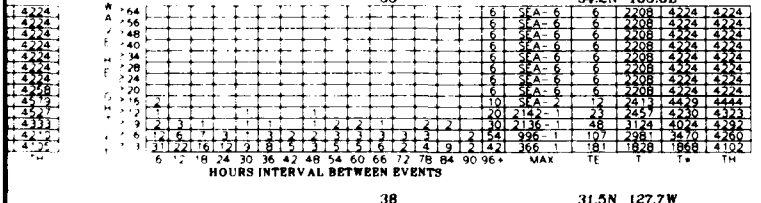


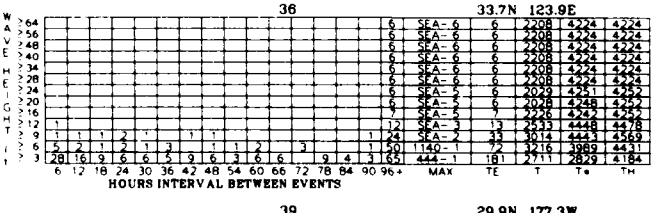


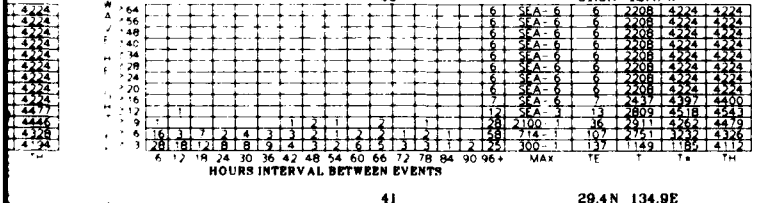


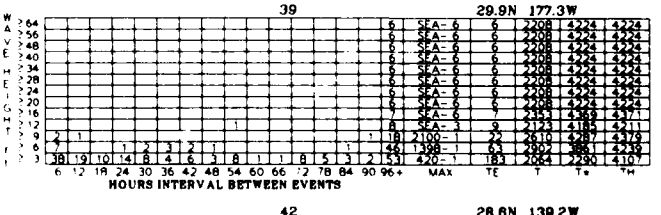


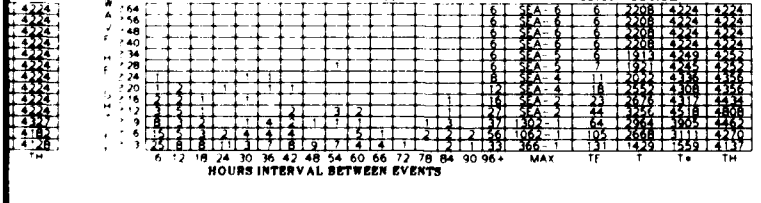


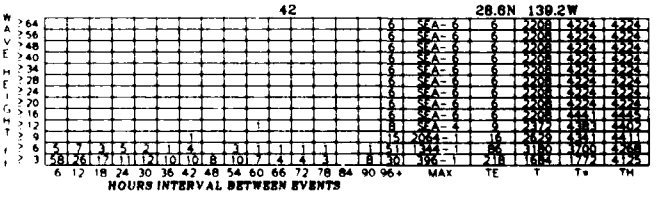






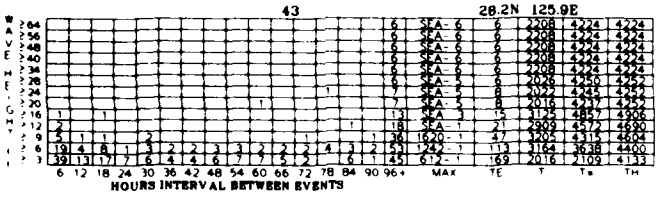


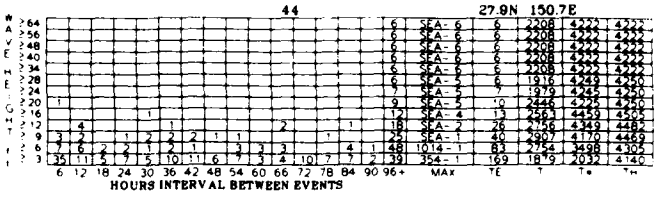


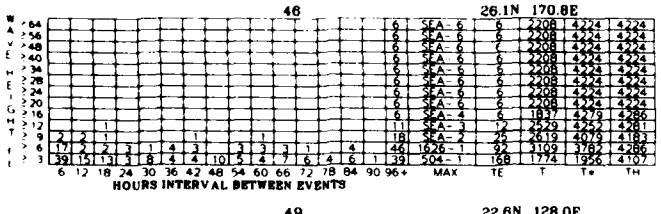


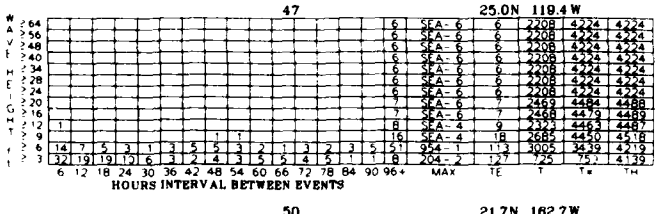
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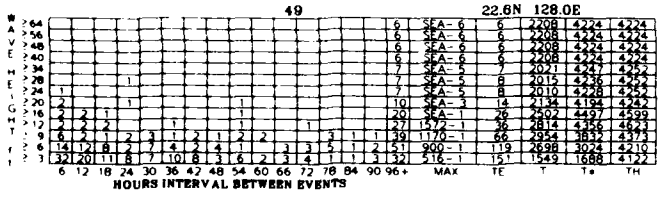
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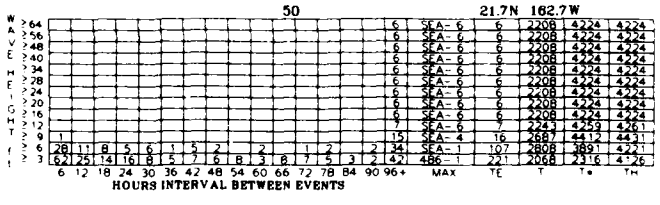


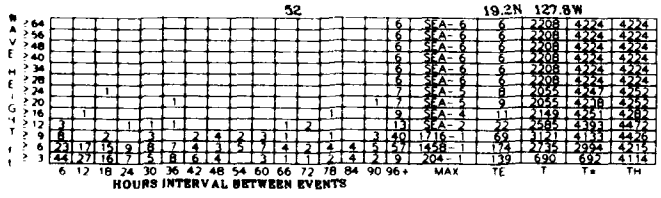


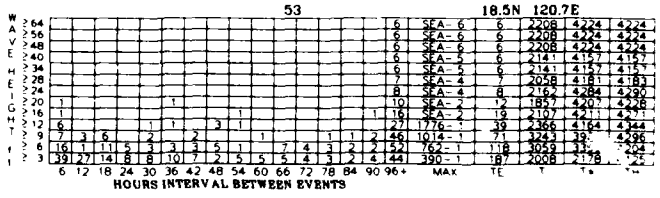


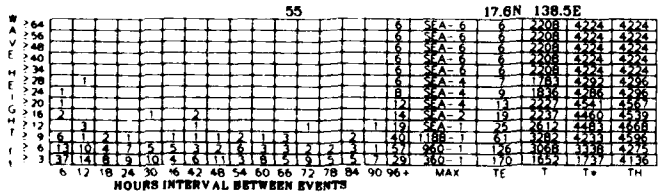


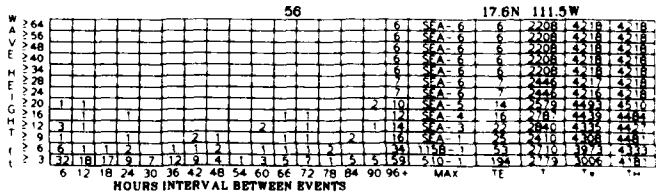


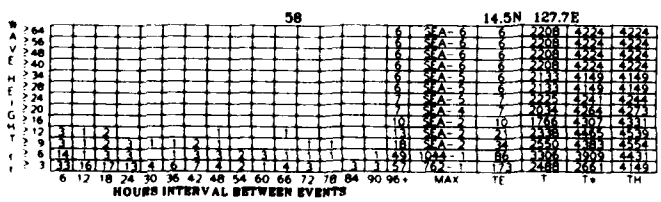


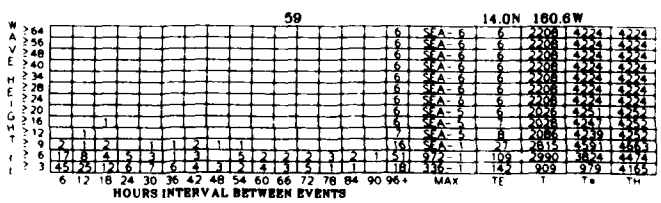


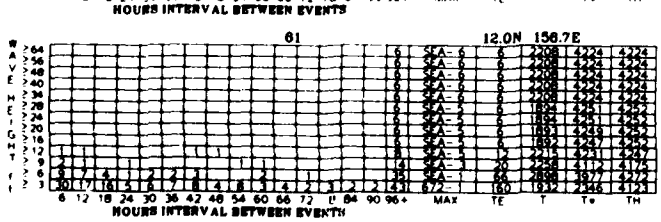


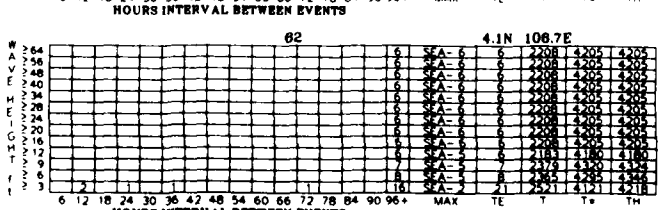




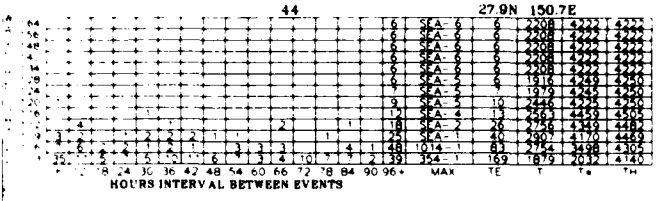


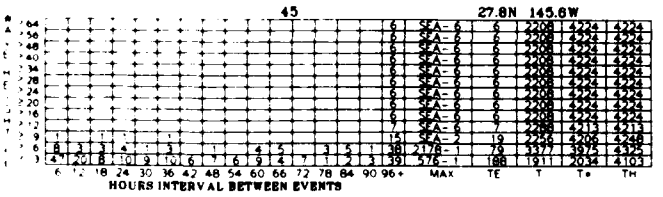


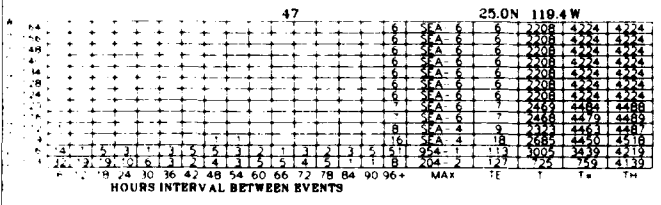


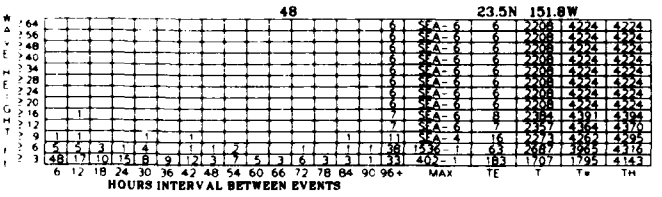


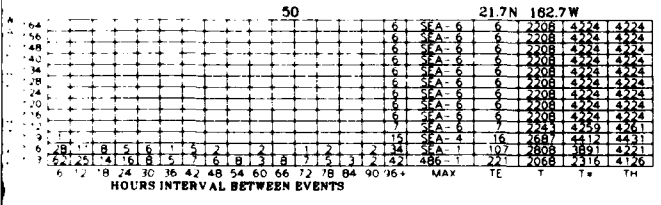
WAVE HEIGHT INTERVALS (Cont'd)

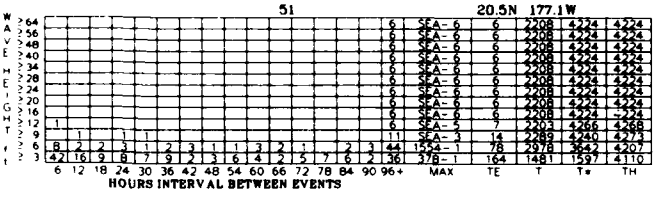


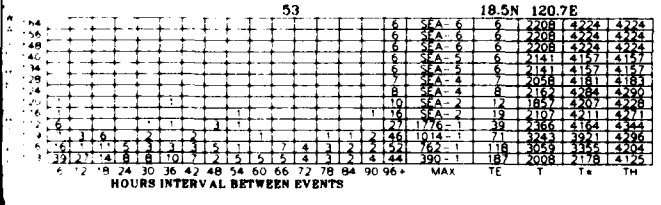


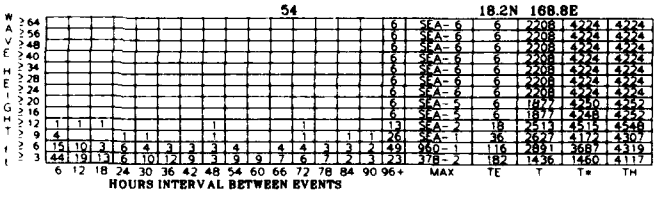


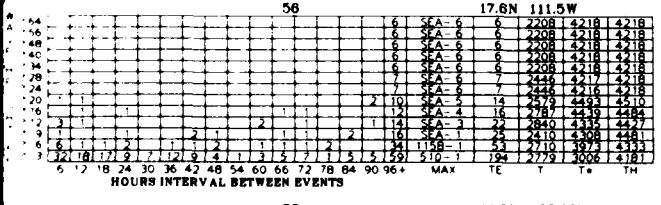


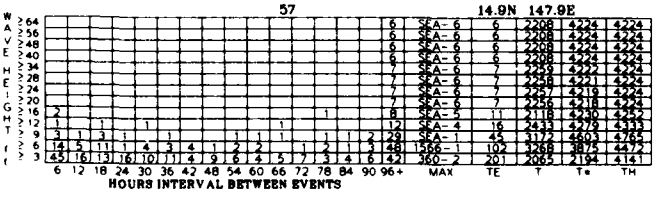


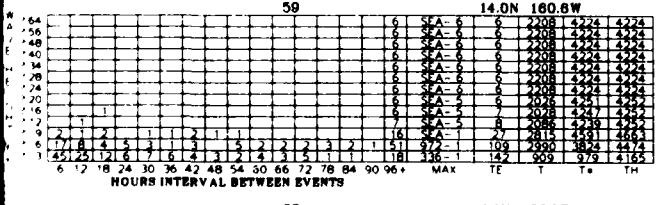


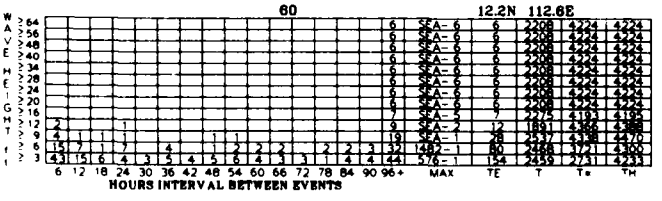


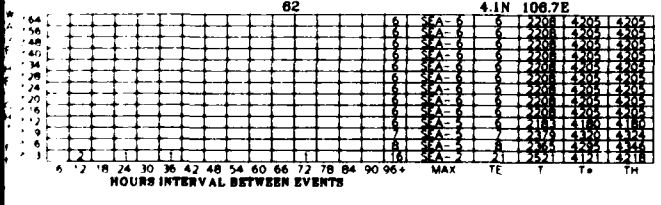


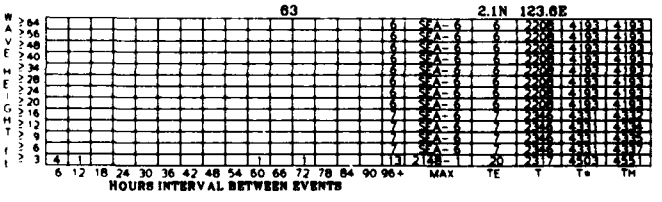




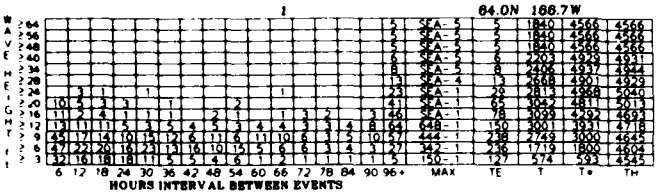


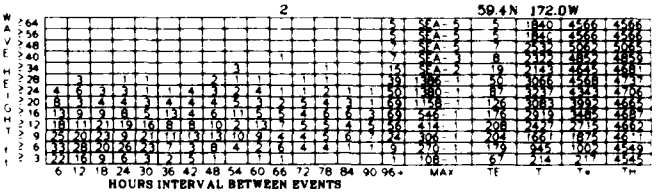


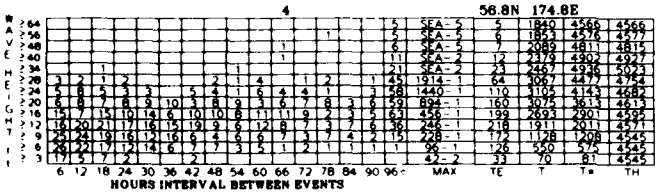


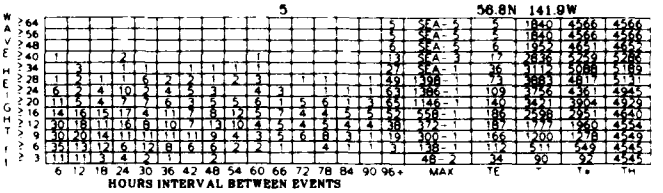


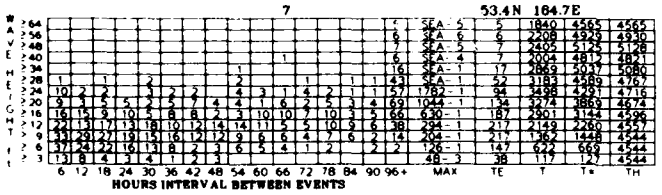
WAVE HEIGHT INTERVALS

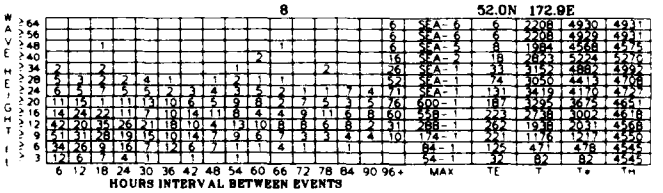


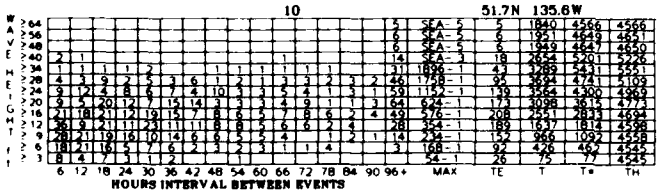


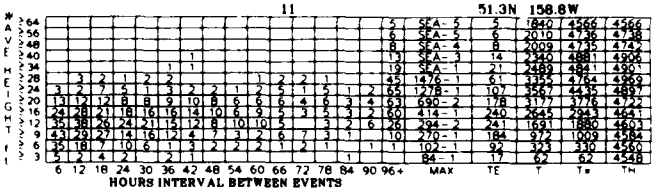


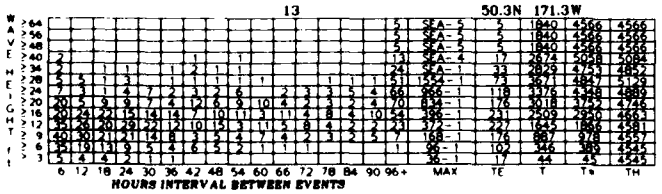


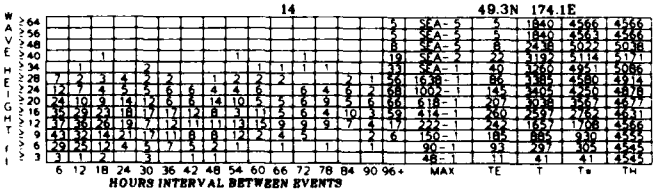


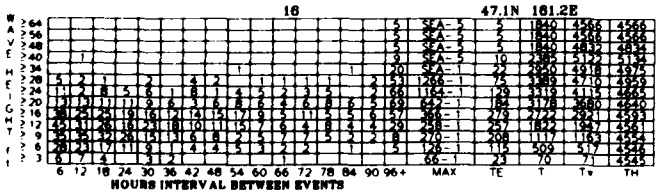


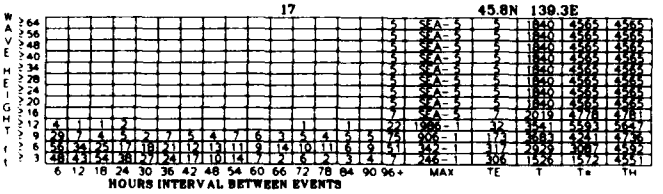


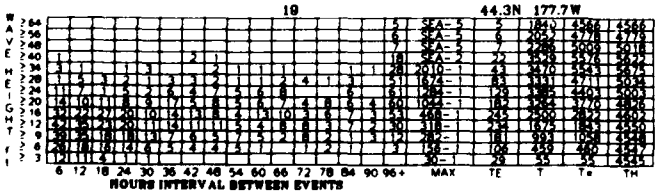


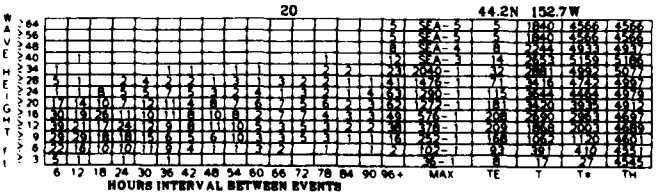






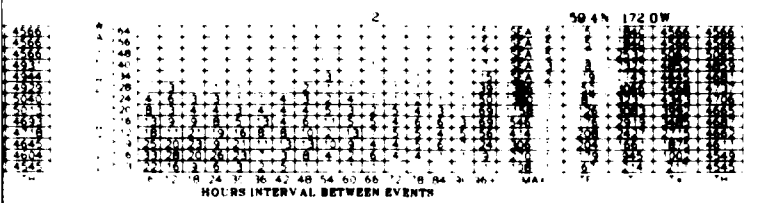


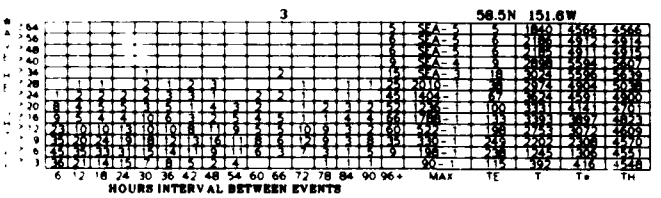


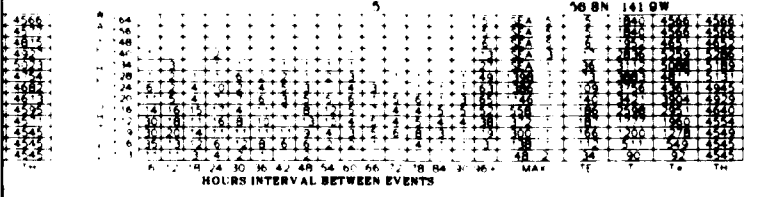


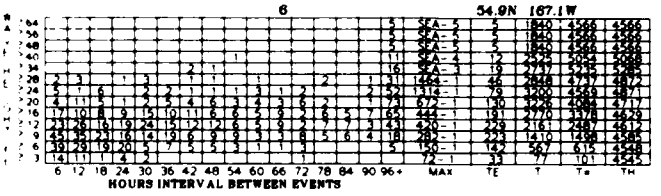
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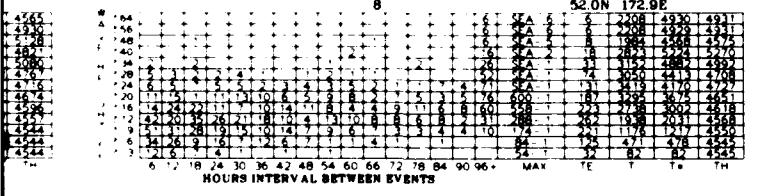
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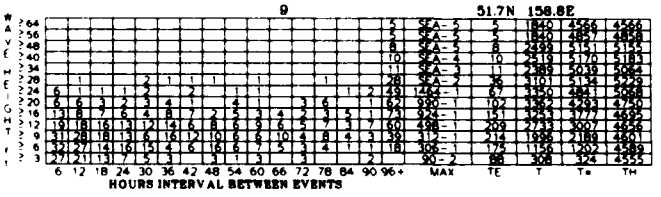

2
HOURS INTERVAL BETWEEN EVENTS

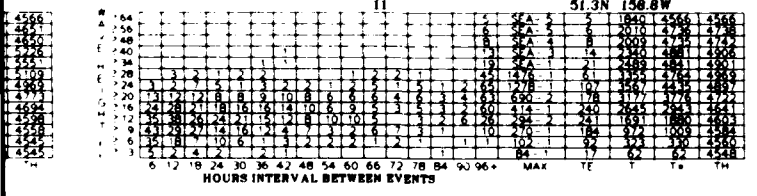

3
58.5N 151.6W
HOURS INTERVAL BETWEEN EVENTS

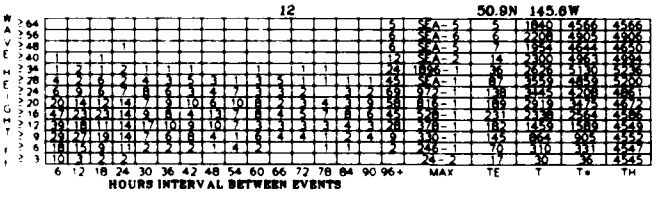

5
36.8N 141.9W
HOURS INTERVAL BETWEEN EVENTS

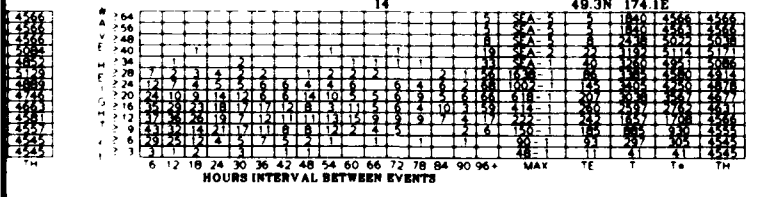

6
54.9N 167.1W
HOURS INTERVAL BETWEEN EVENTS

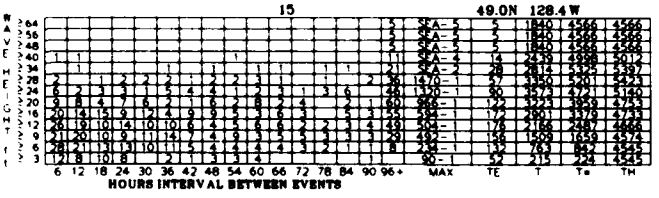

8
52.0N 172.9E
HOURS INTERVAL BETWEEN EVENTS

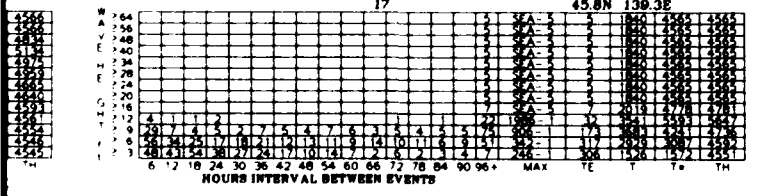

9
51.7N 158.8E
HOURS INTERVAL BETWEEN EVENTS

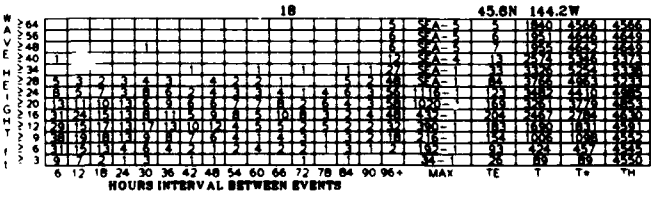

11
51.3N 156.8W
HOURS INTERVAL BETWEEN EVENTS

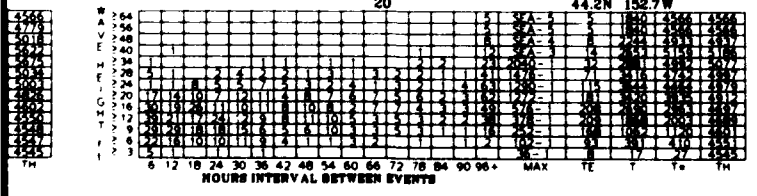

12
50.9N 145.6W
HOURS INTERVAL BETWEEN EVENTS

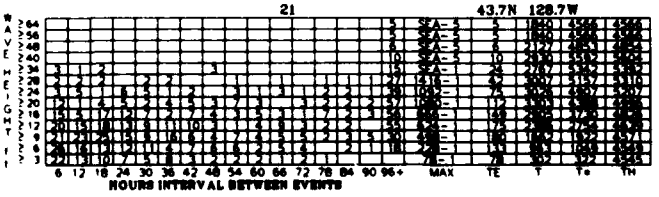

14
49.3N 174.1E
HOURS INTERVAL BETWEEN EVENTS


15
49.0N 128.4W
HOURS INTERVAL BETWEEN EVENTS


17
45.8N 139.3E
HOURS INTERVAL BETWEEN EVENTS


18
45.8N 144.2W
HOURS INTERVAL BETWEEN EVENTS

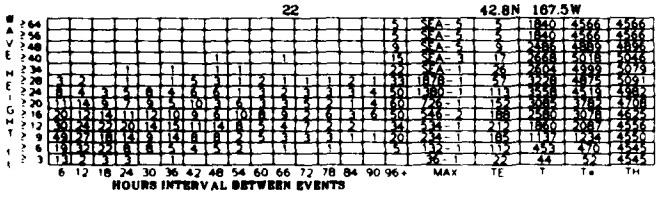

20
44.2N 152.7W
HOURS INTERVAL BETWEEN EVENTS

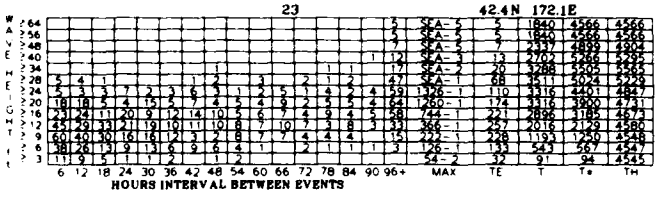

21
43.7N 128.7W
HOURS INTERVAL BETWEEN EVENTS

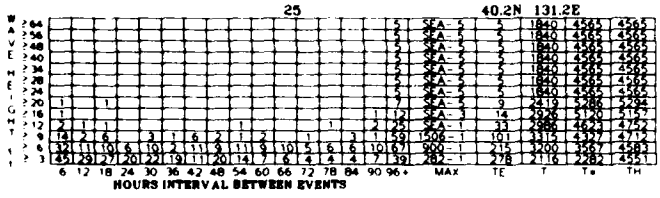
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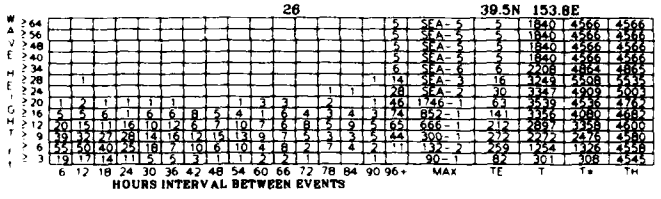
FALL

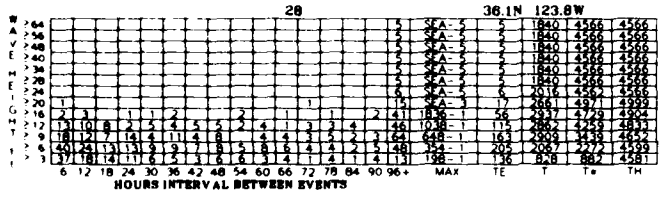
WAVE HEIG

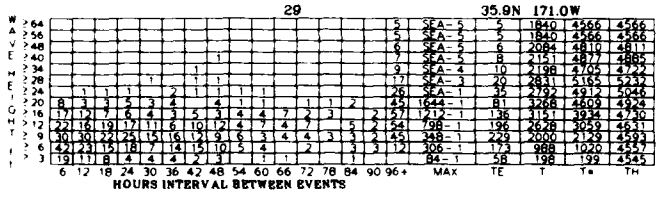


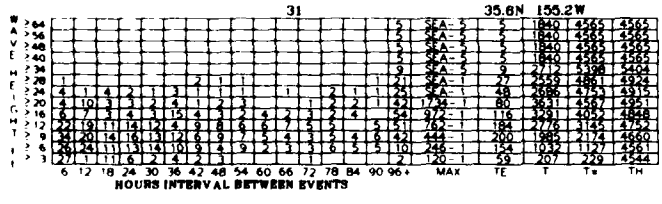


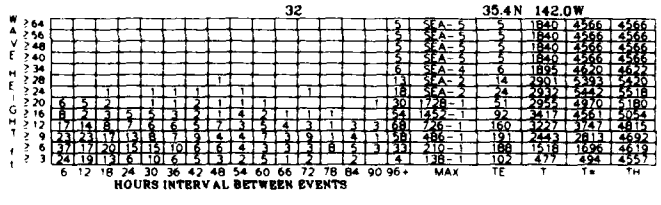


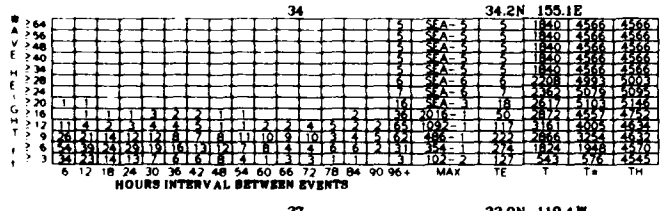


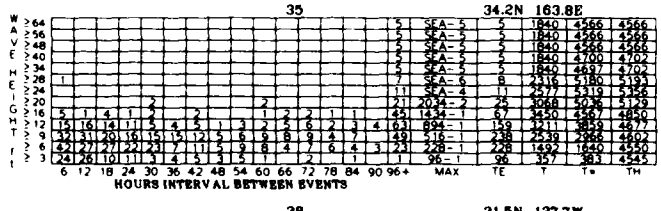


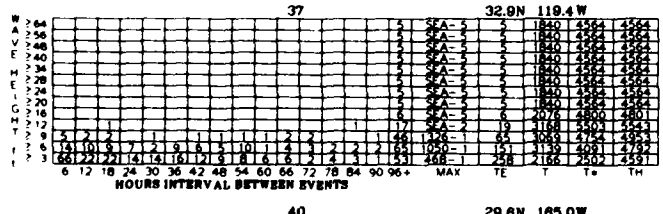


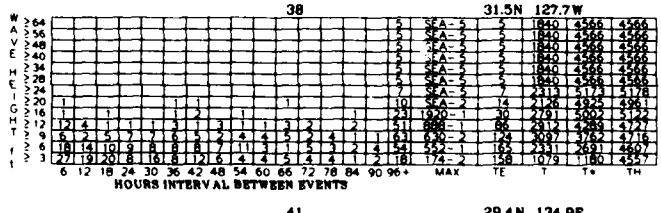


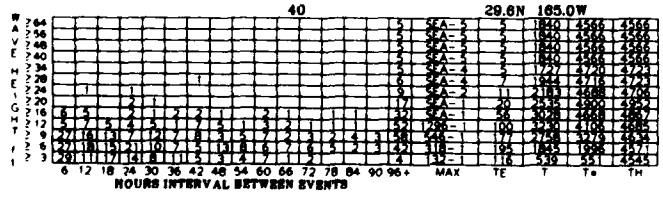


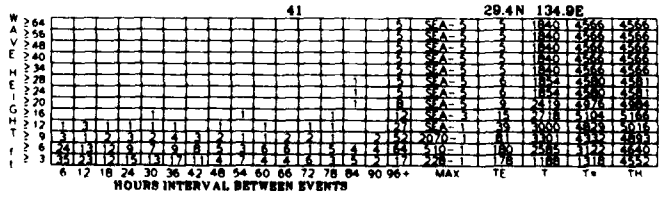




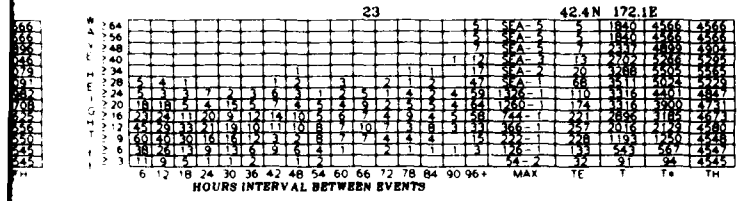


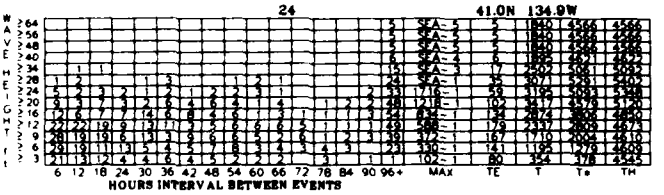


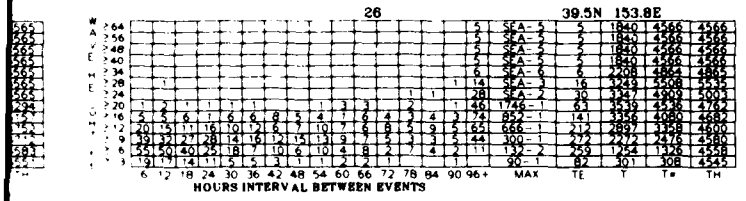


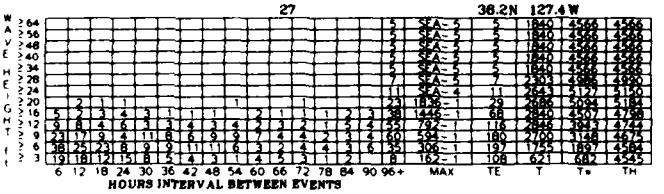


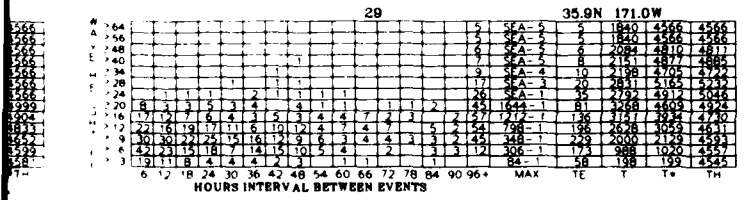
WAVE HEIGHT INTERVALS (Cont'd)

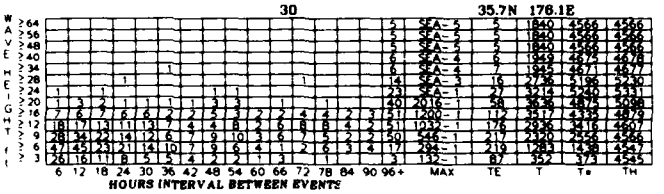


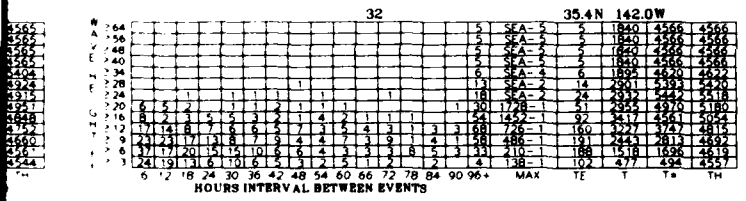


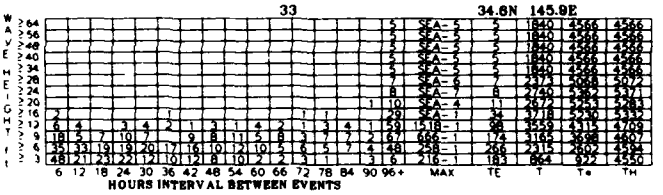


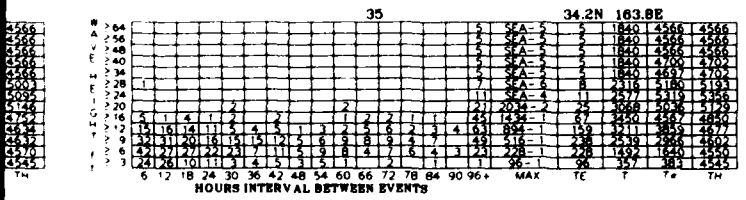


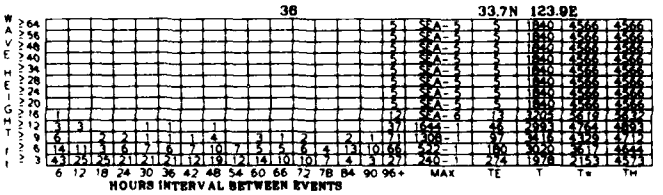


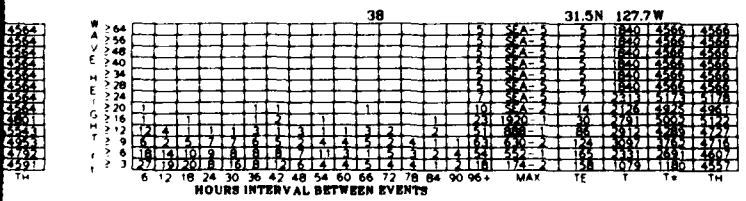


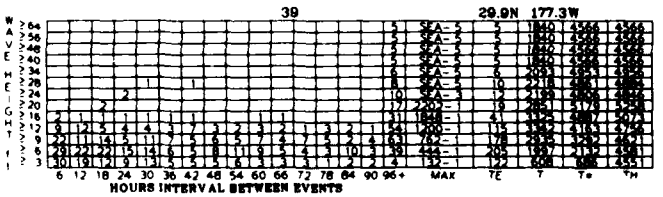


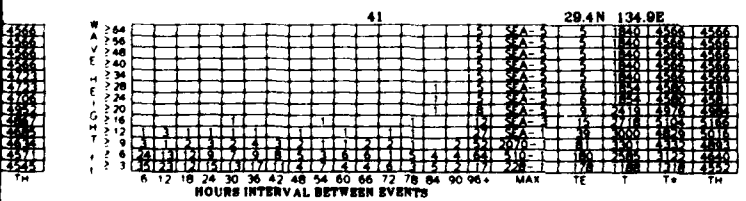


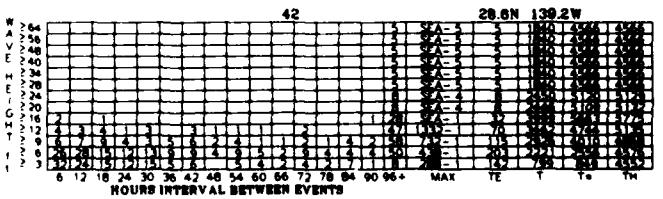




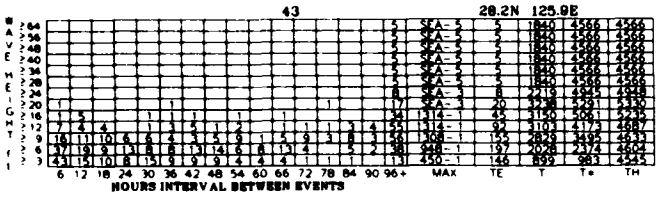


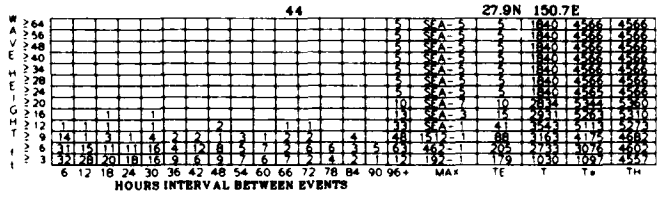


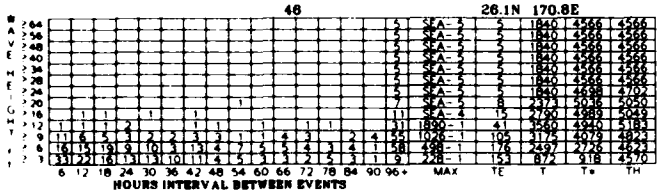


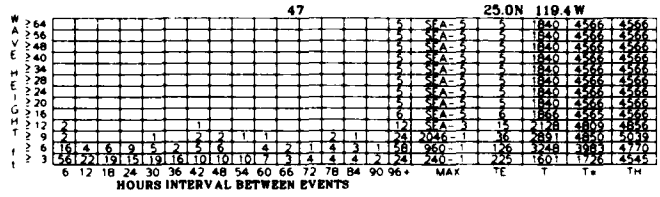


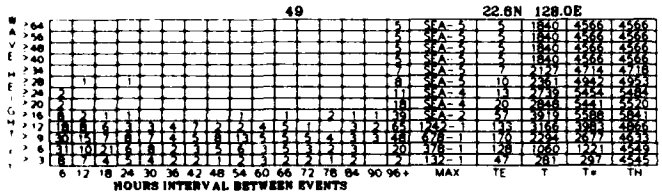
WAVE HEIGHT INTERVALS (Cont'd)

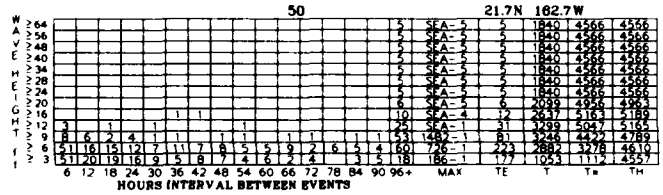


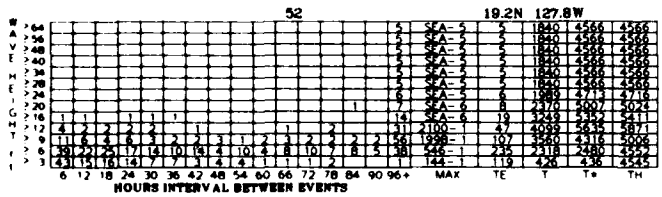


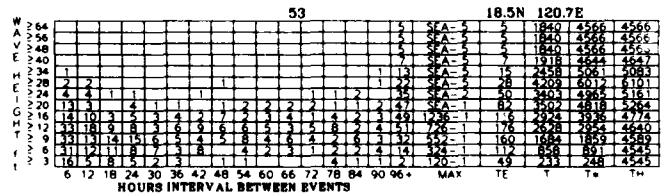


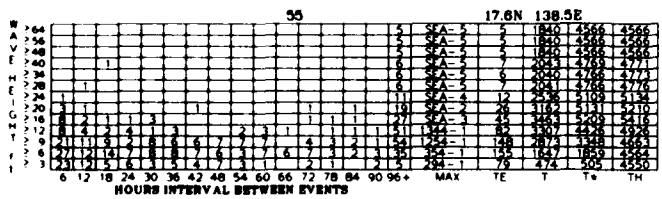


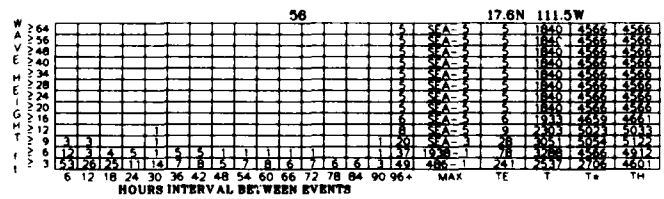


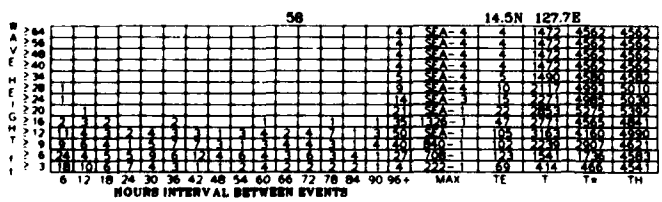


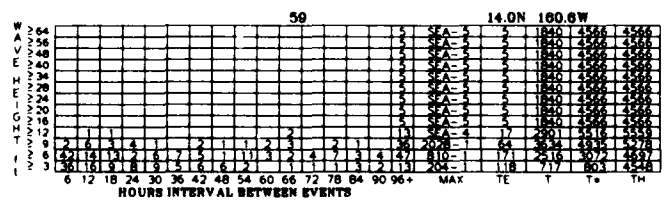


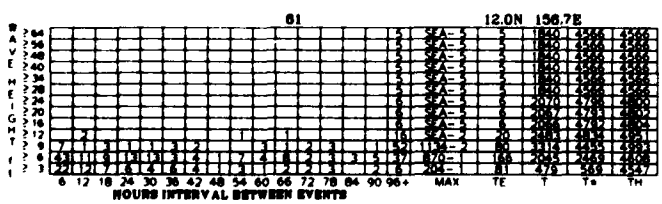


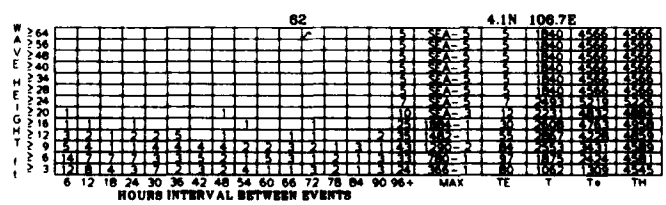






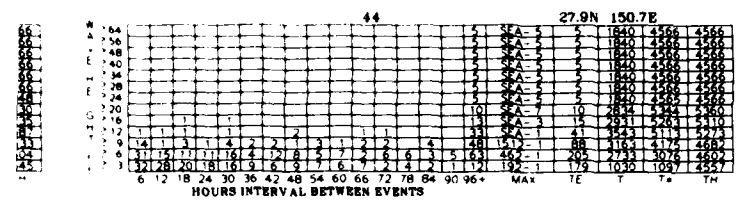


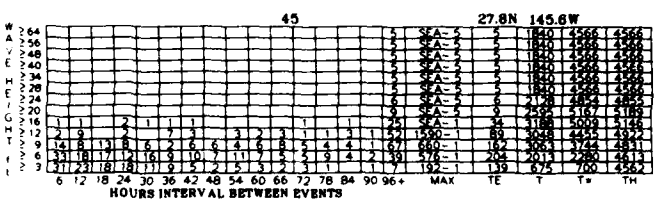


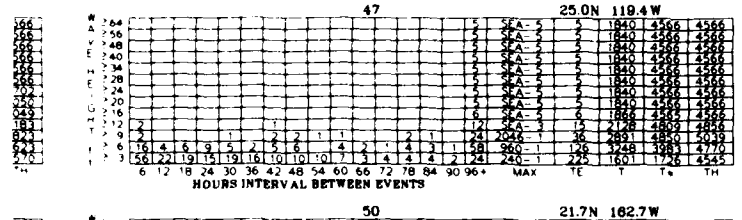


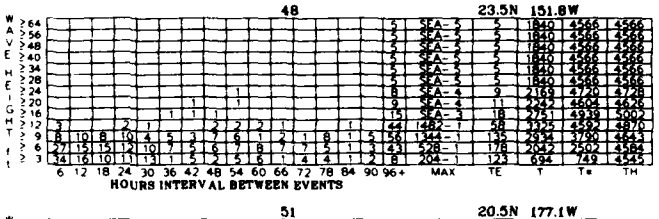
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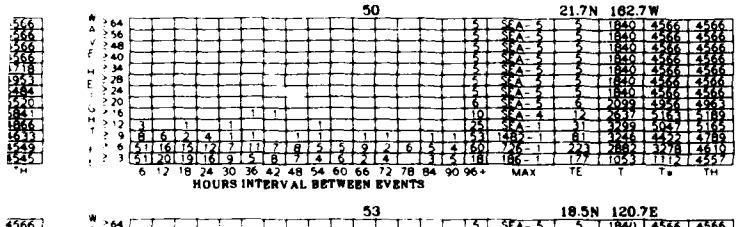
FALL

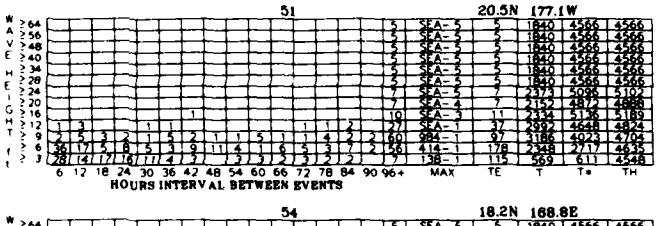

44
27.9N 150.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

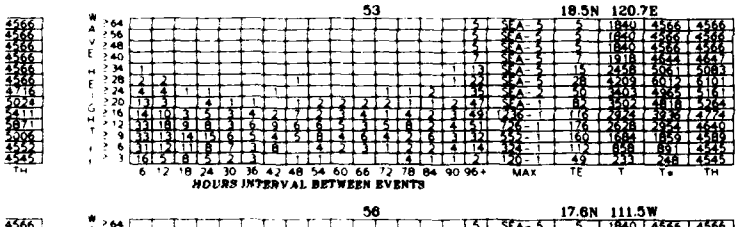

45
27.8N 145.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

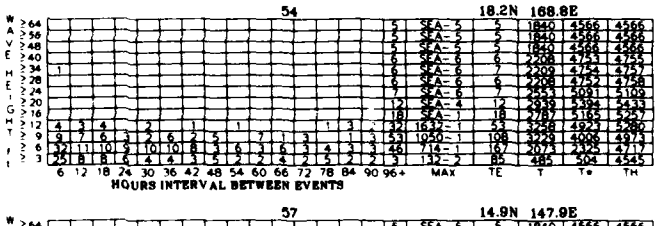

47
25.0N 119.4W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

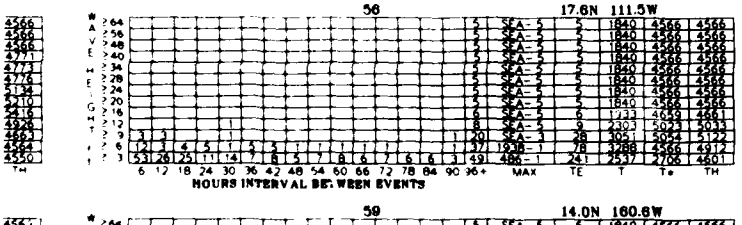

48
23.5N 151.8W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

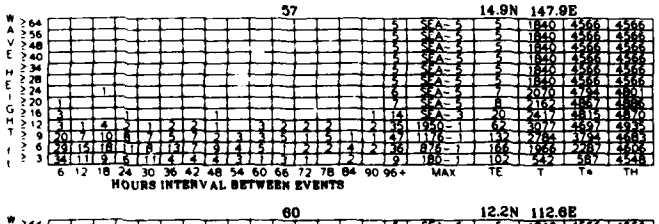

50
21.7N 162.7W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

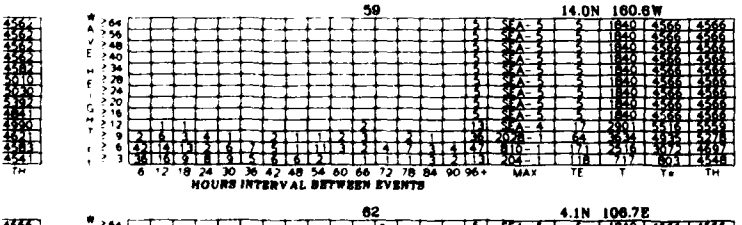

51
20.5N 177.1W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

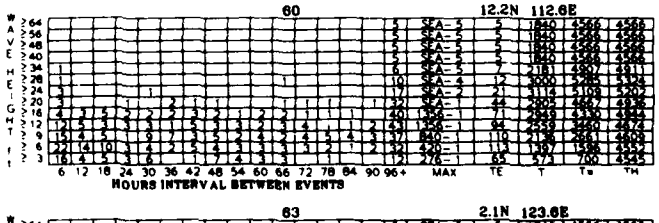

53
18.5N 120.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

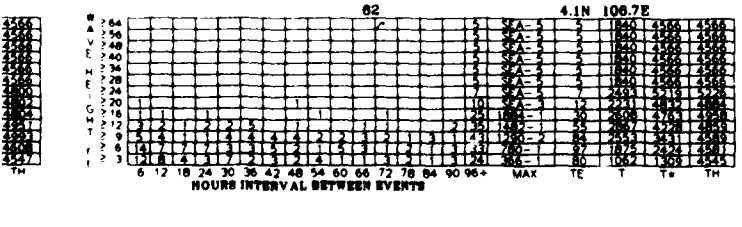

54
18.2N 168.8E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

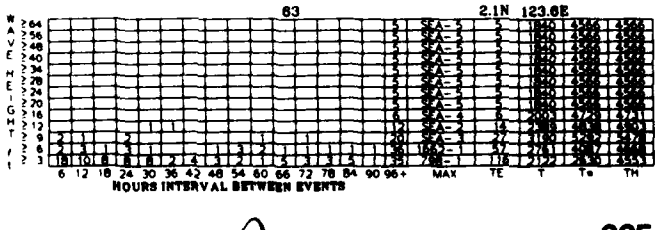

56
17.6N 111.5W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS


57
14.9N 147.9E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS


59
14.0N 160.6W
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

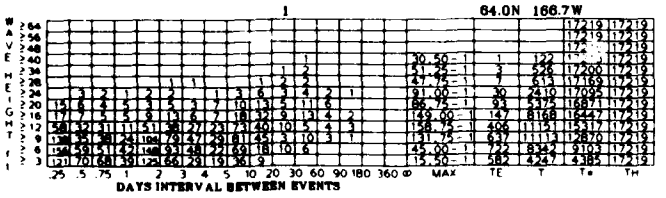

60
12.2N 112.6E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

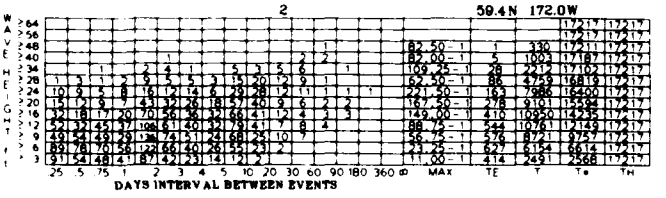

62
4.1N 106.7E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

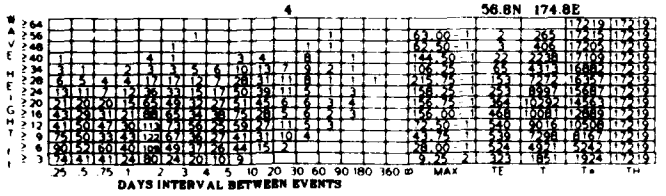

63
2.1N 123.6E
WAVE HEIGHT (ft)
HOURS INTERVAL BETWEEN EVENTS

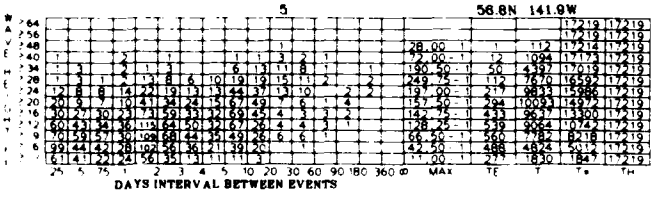
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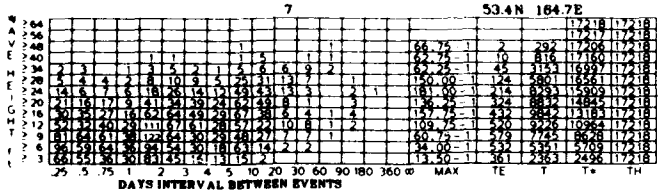
ANNUAL

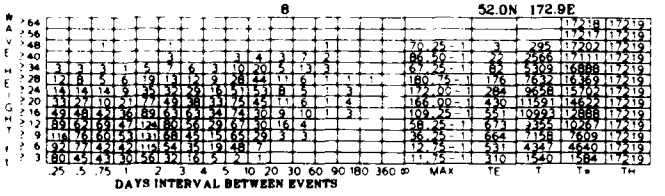

1
64.0N 166.7W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

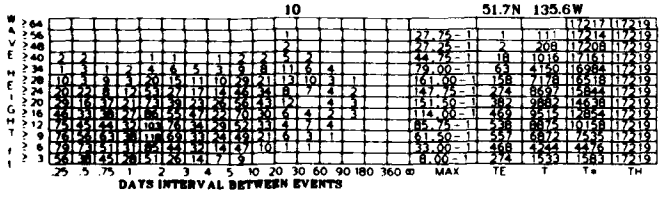

2
59.4N 172.0W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

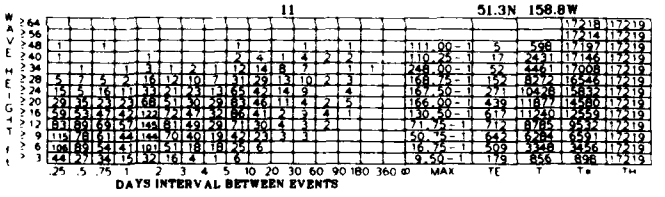

4
56.8N 174.8E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

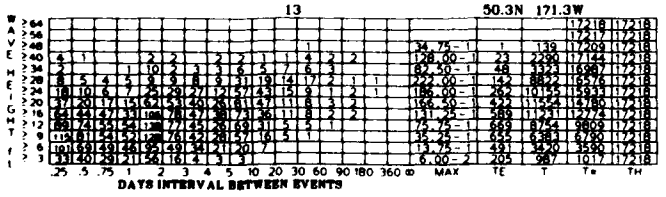

5
56.8N 141.9W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

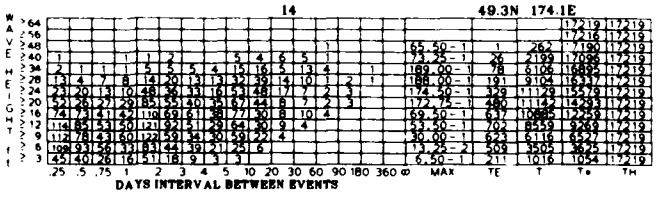

7
53.4N 164.7E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

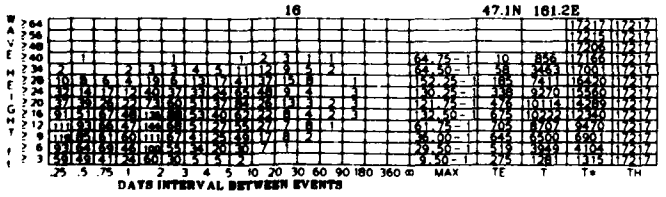

8
52.0N 172.9E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

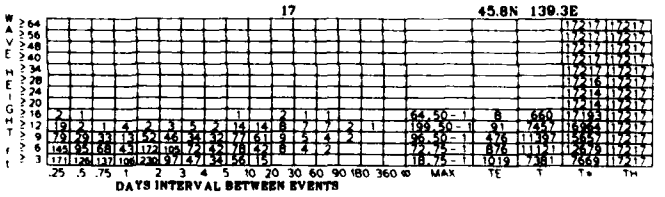

10
51.7N 135.6W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

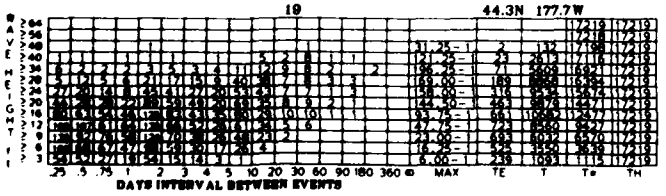

11
51.3N 158.8W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

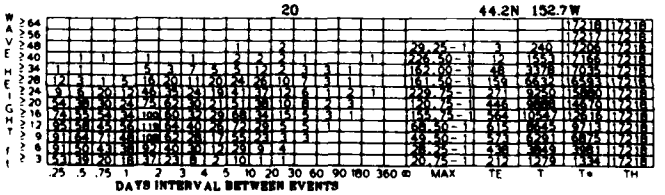

13
50.3N 171.3W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH


14
49.3N 174.1E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

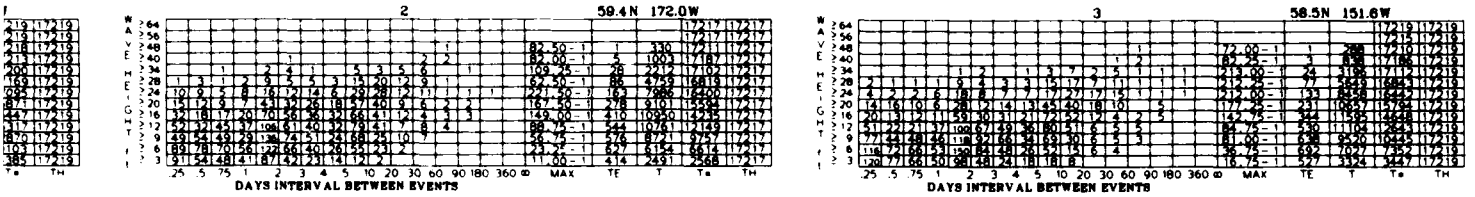

16
47.1N 161.2E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

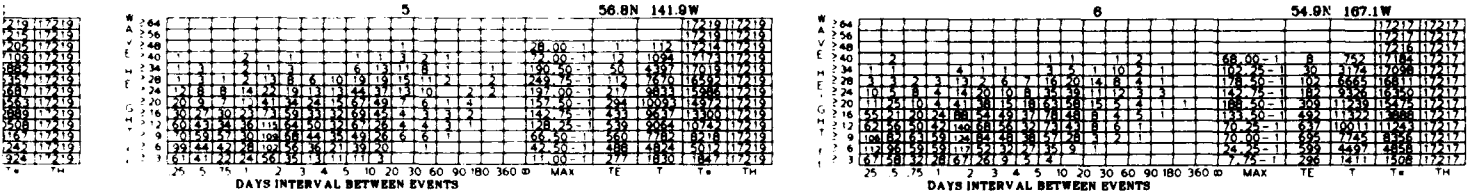

17
45.8N 139.3E
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

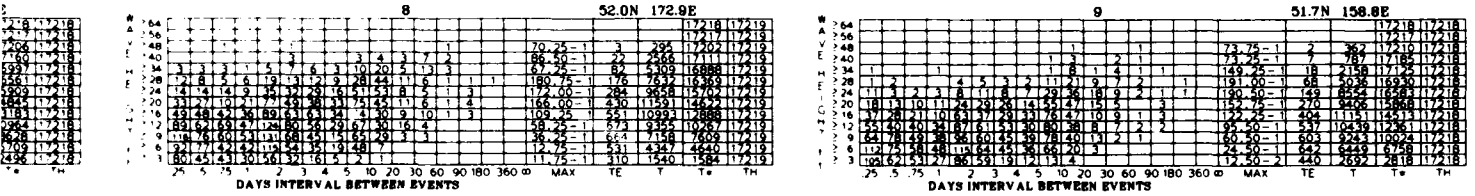

19
44.3N 177.7W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
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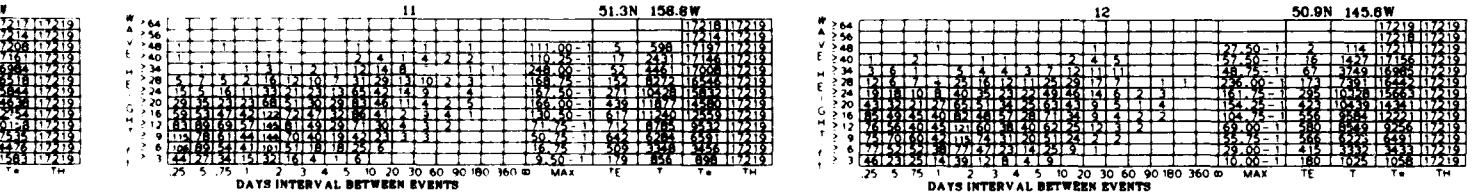

20
44.2N 152.7W
WAVE HEIGHT ft
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

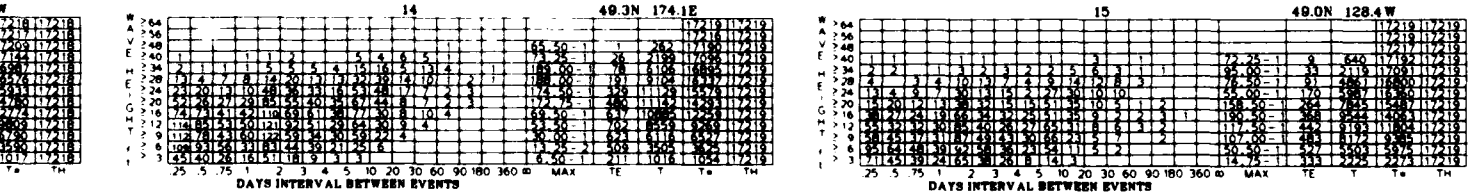
WAVE HEIGHT INTERVALS

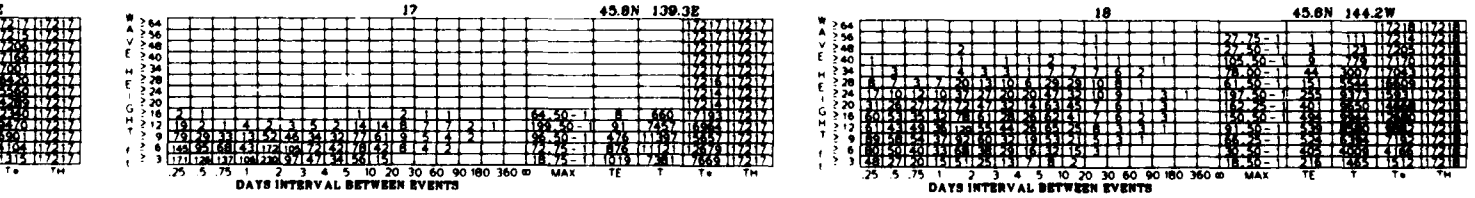


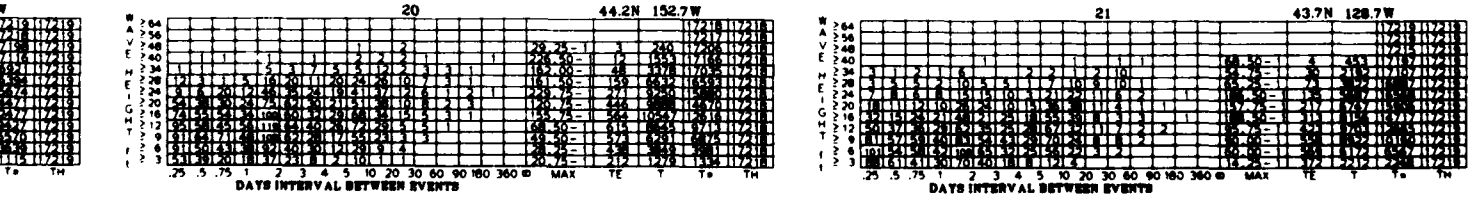




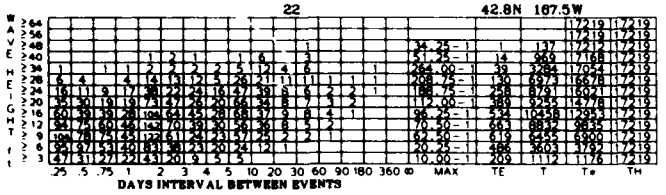


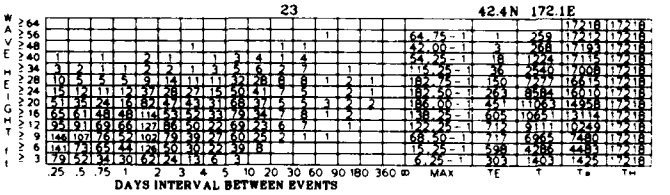


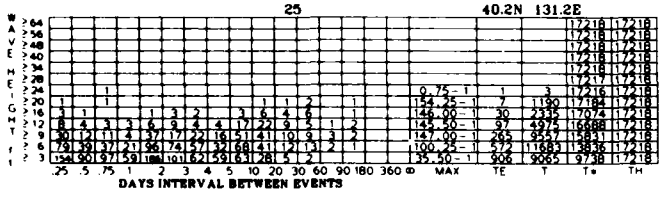


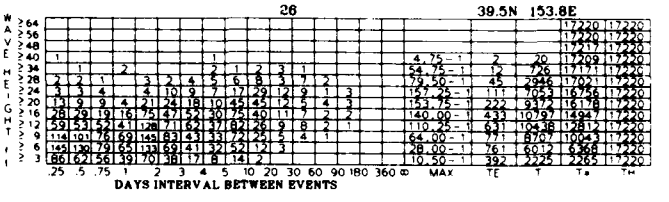


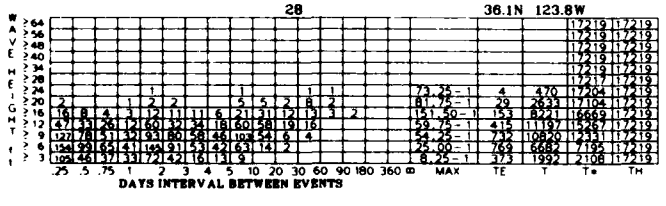
WAVE HEIGHT INTERVALS (Cont'd)

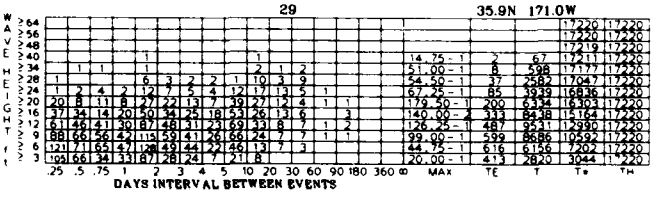


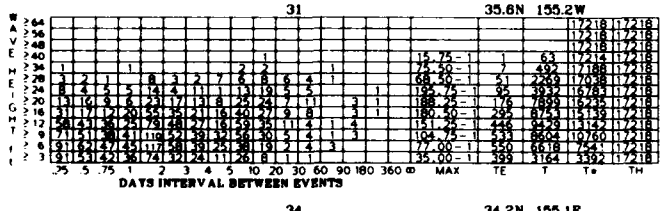


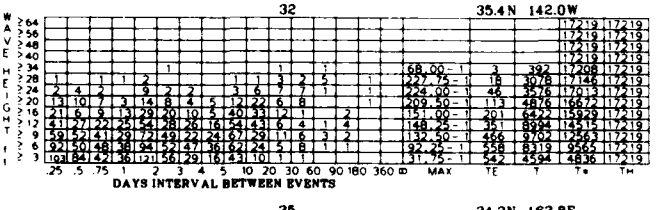


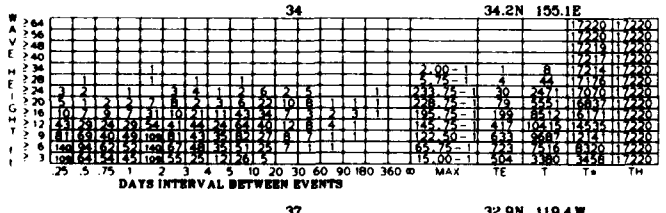


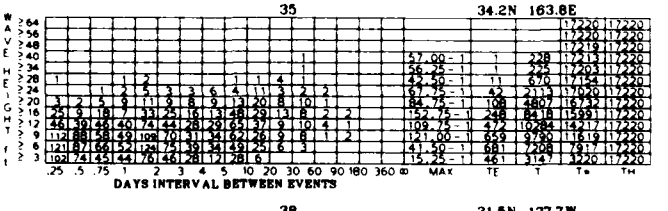


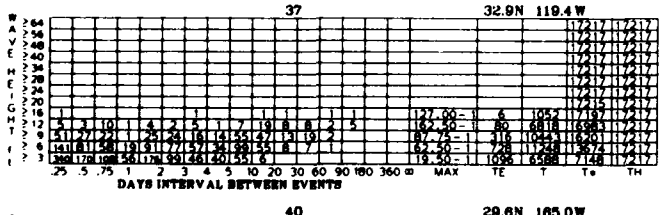


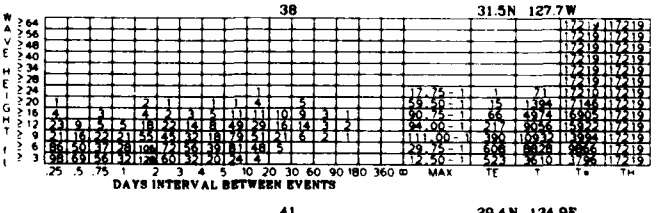


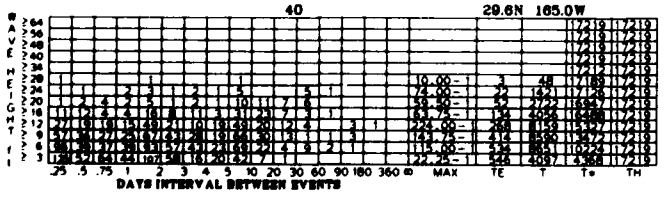


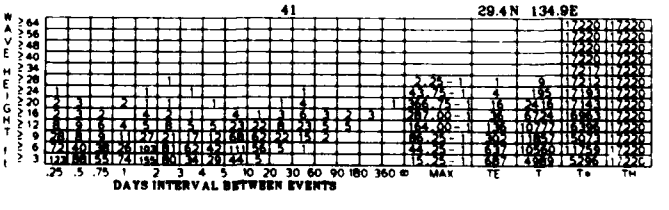


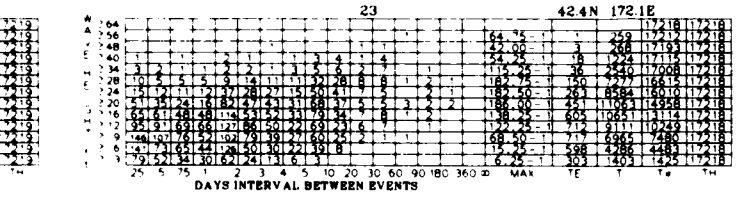


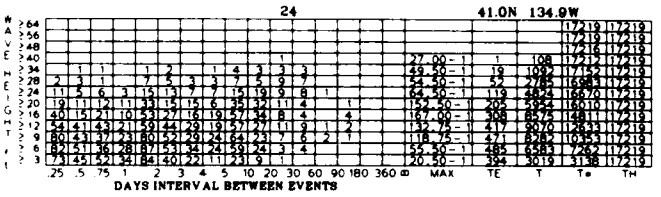


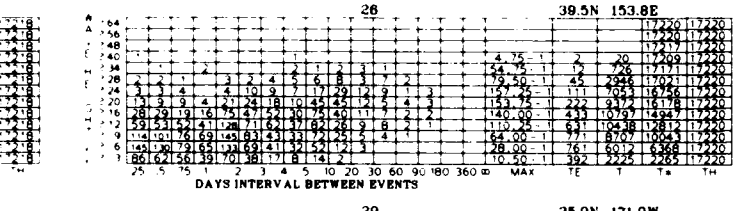


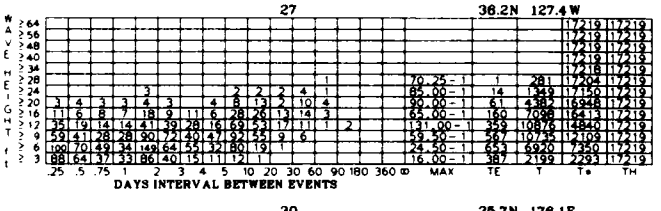


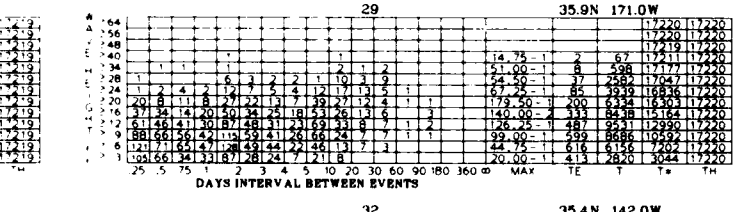


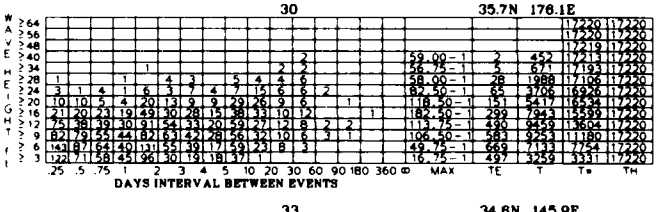

23
42.4N 172.1E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

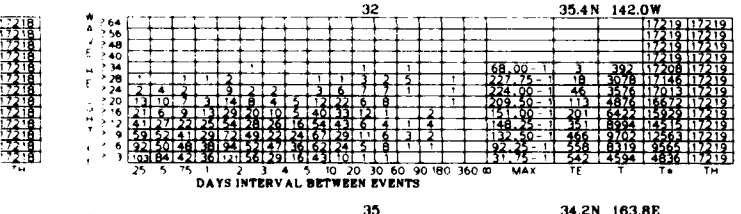

24
41.0N 134.9W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

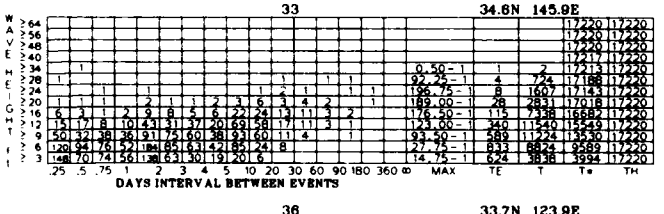

26
39.5N 153.8E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

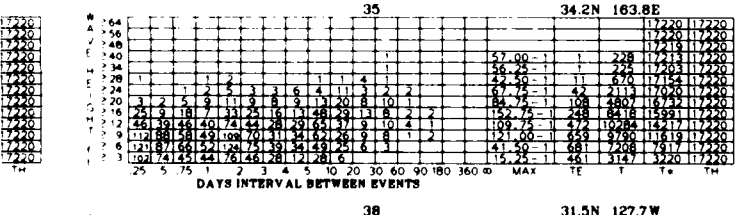

27
38.2N 127.4W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

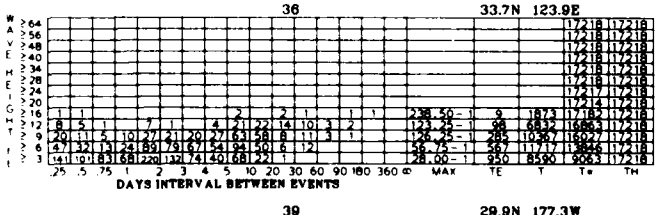

29
35.9N 171.0W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

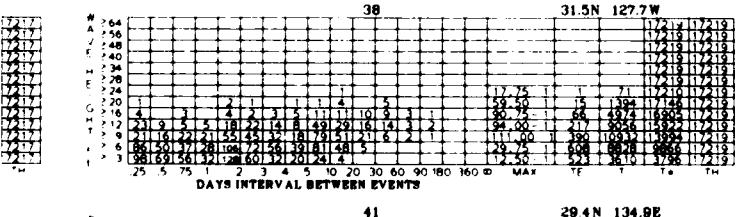

30
35.7N 176.1E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

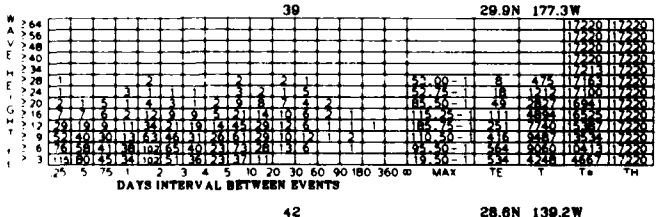

32
35.4N 142.0W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

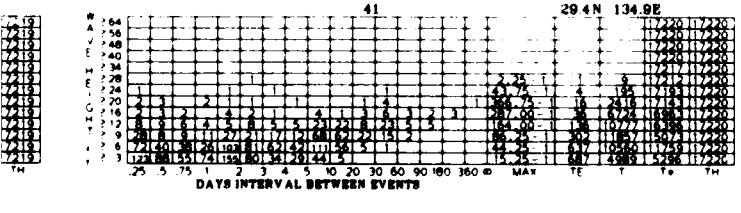

33
34.6N 145.9E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

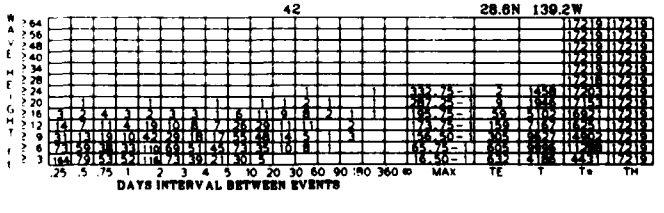

35
34.2N 163.8E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

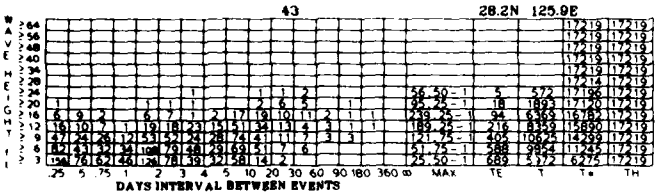

36
33.7N 123.9E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

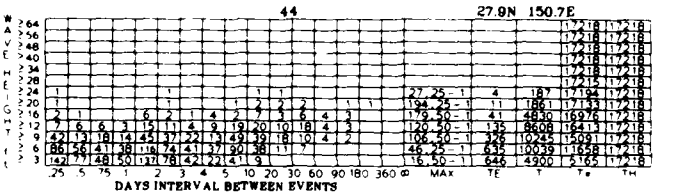

38
31.5N 127.7W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

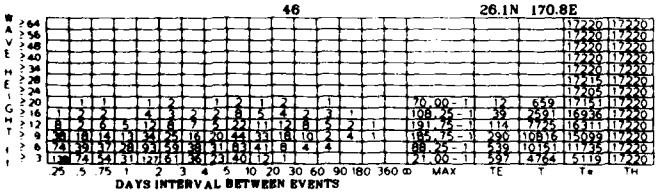

39
29.9N 177.3W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

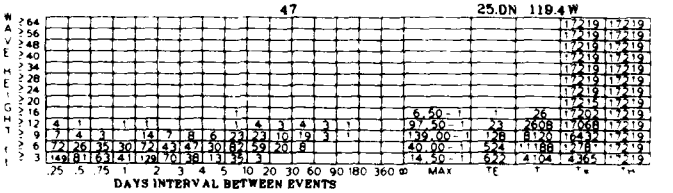

41
29.4N 134.9E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

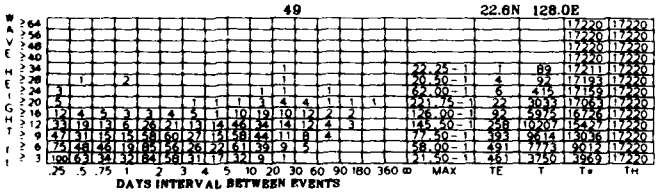

42
28.6N 139.2W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS

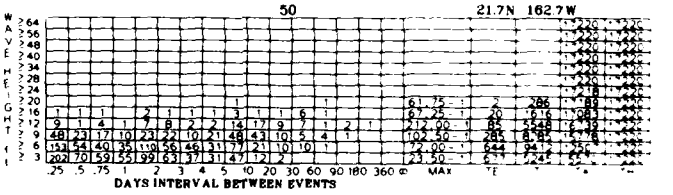

43
28.2N 125.9E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

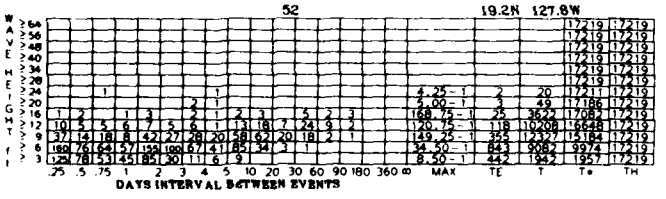

44
27.9N 150.7E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
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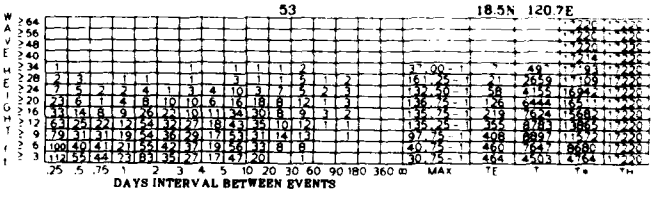

46
26.1N 170.8E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

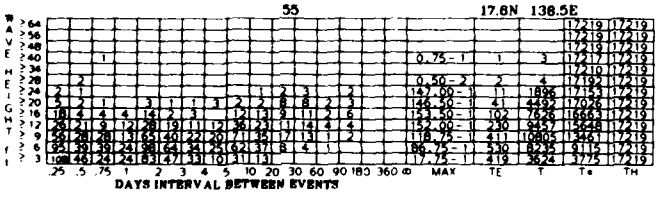

47
25.0N 119.4W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

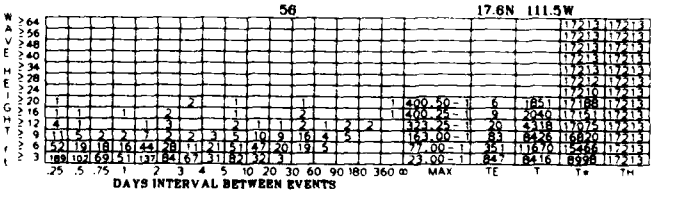

49
22.6N 128.0E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
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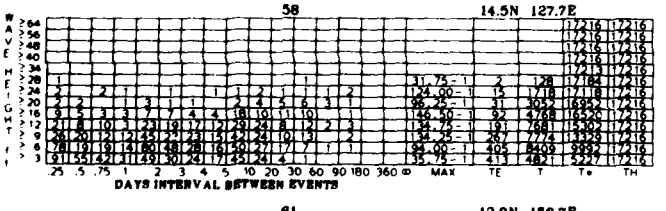

50
21.7N 162.7W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

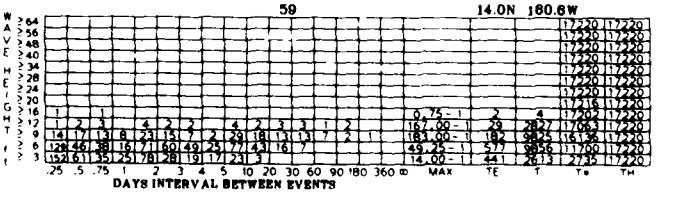

52
19.2N 127.8W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
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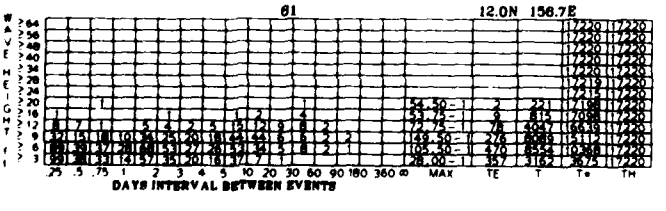

53
18.5N 120.7E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

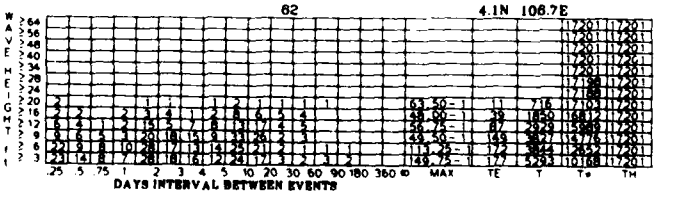

55
17.6N 138.5E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH


56
17.6N 111.5W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

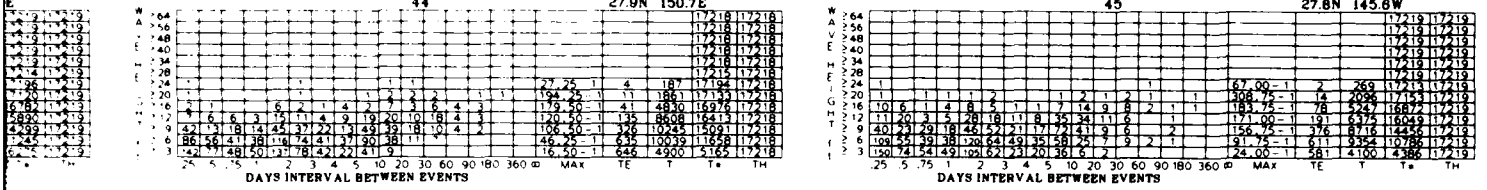

58
14.5N 127.7E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

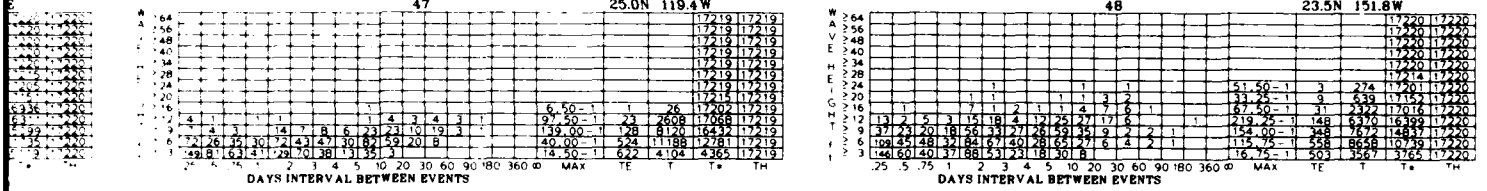

59
14.0N 160.6W
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

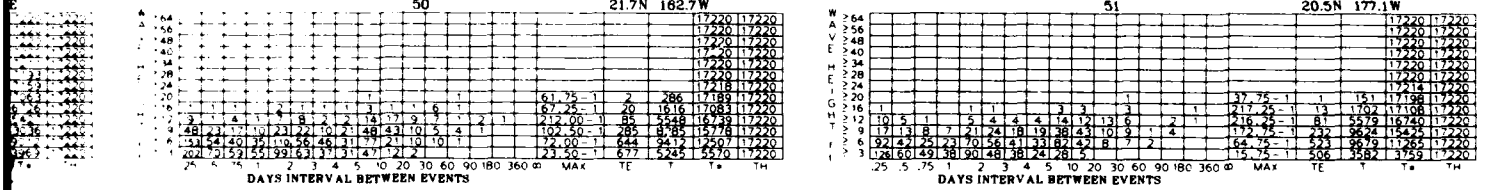

61
12.0N 156.7E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

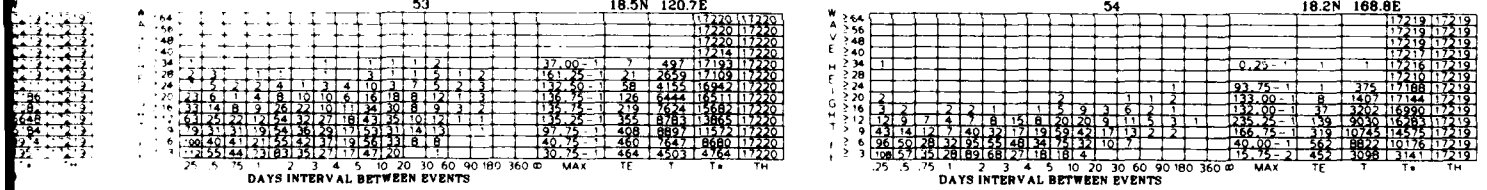

62
4.1N 106.7E
WAVE HEIGHT (ft)
DAYS INTERVAL BETWEEN EVENTS
.25 .5 .75 1 2 3 4 5 10 20 30 60 90 180 360 ∞ MAX TE T Te TH

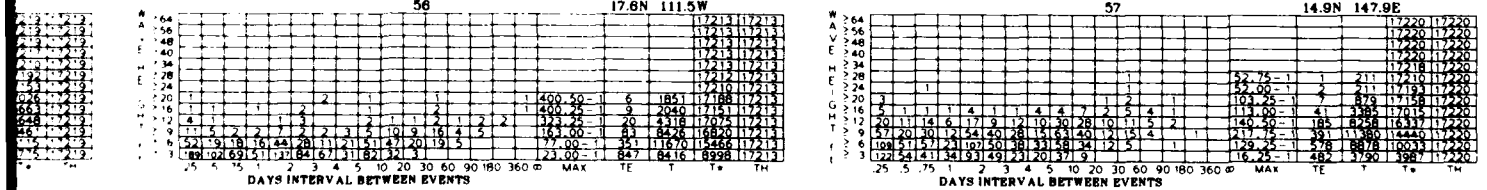
WAVE HEIGHT INTERVALS (Cont'd)

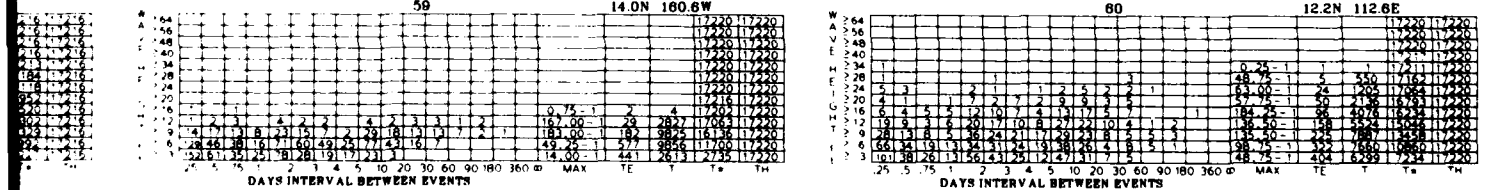


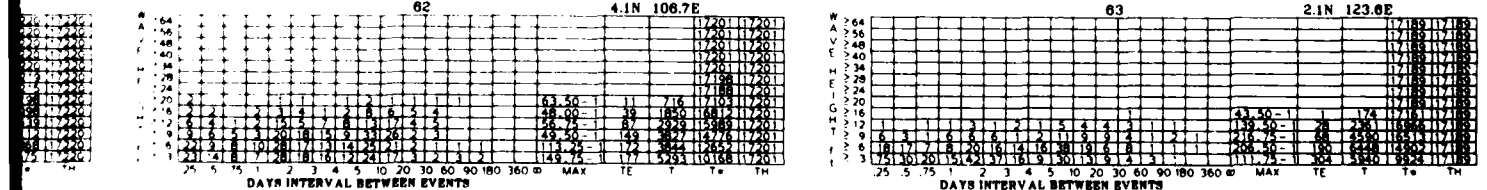




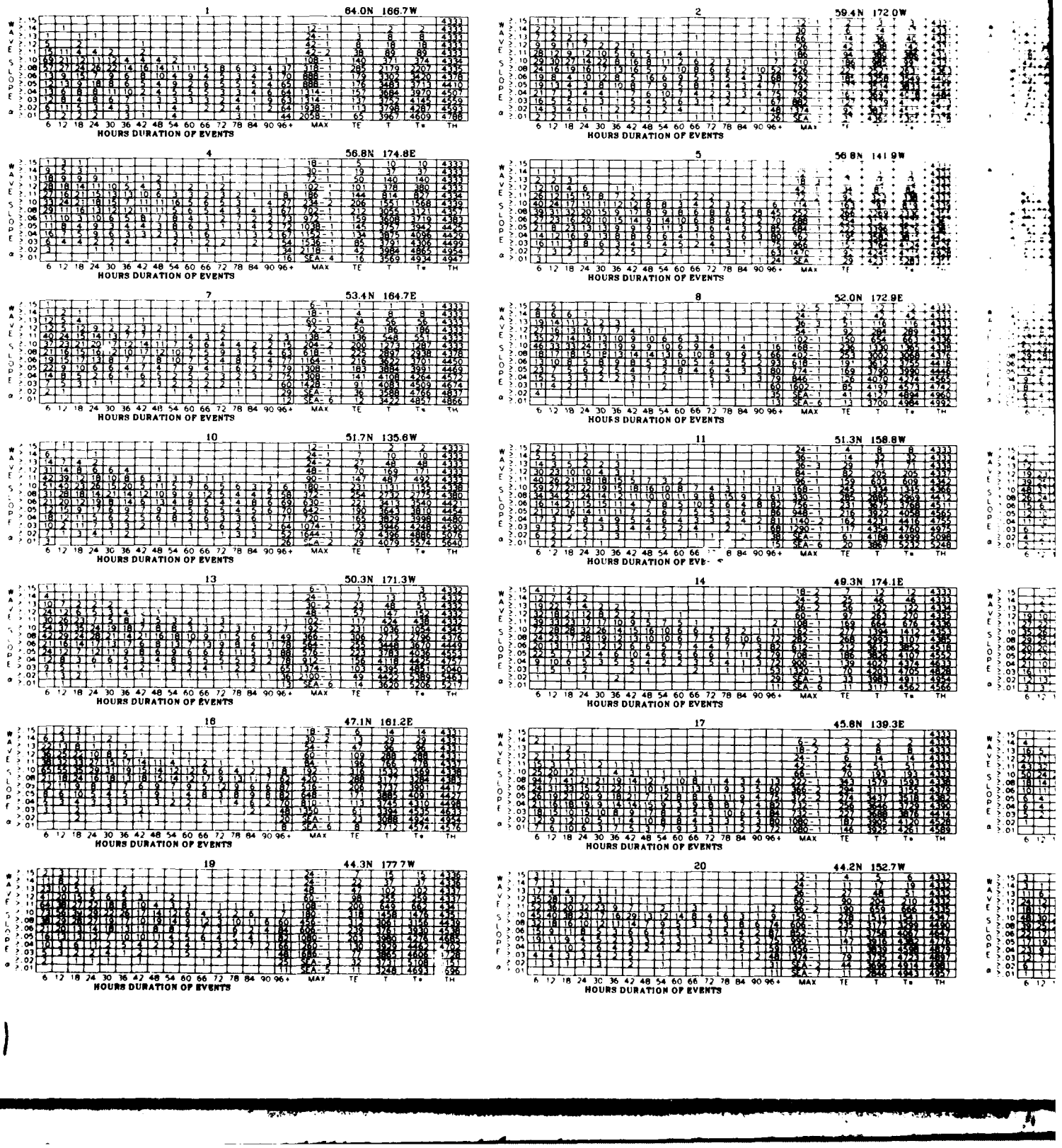


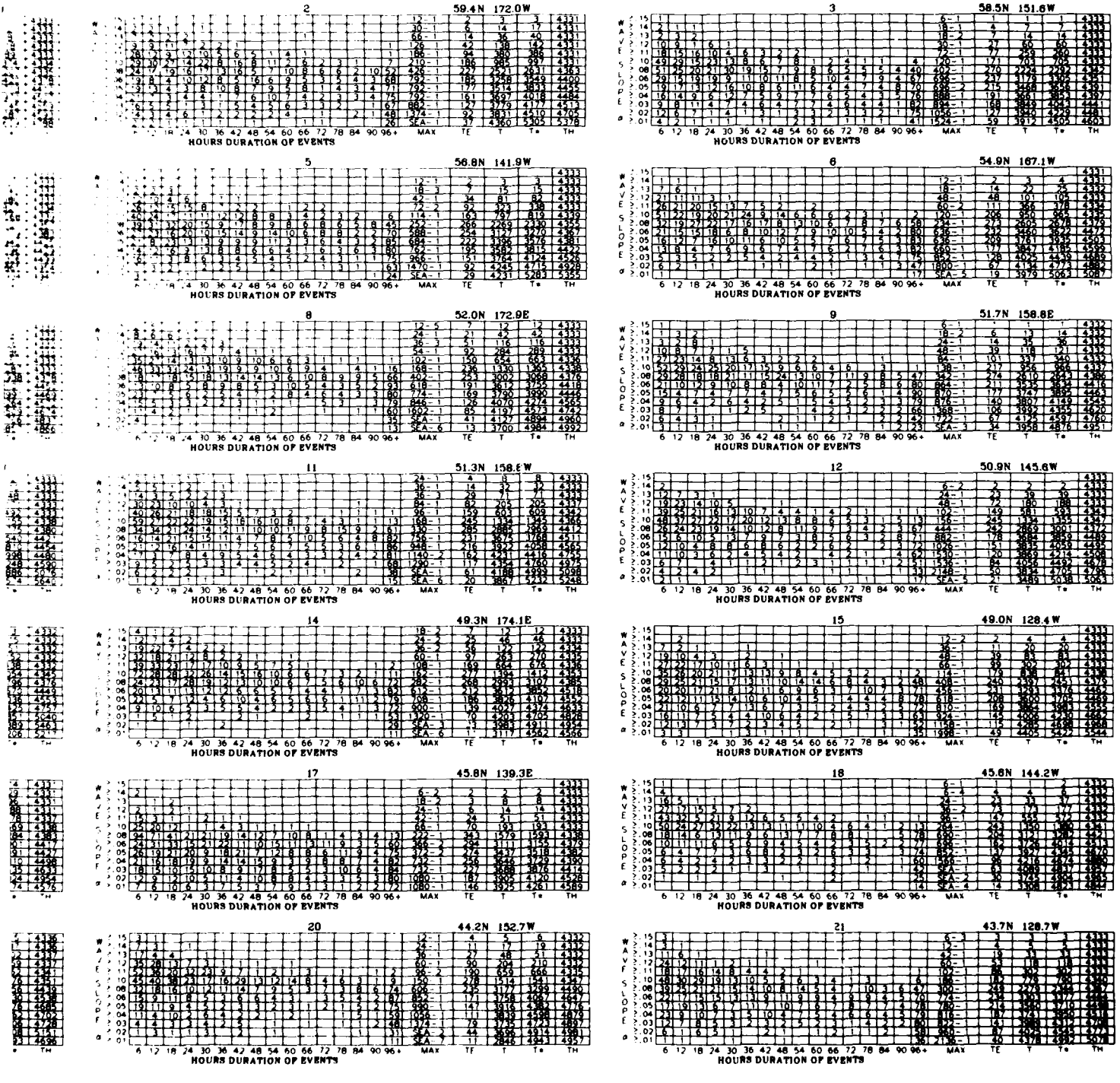






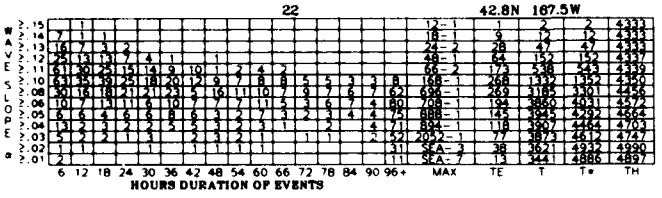
WAVE SLOPE (α) DURATIONS

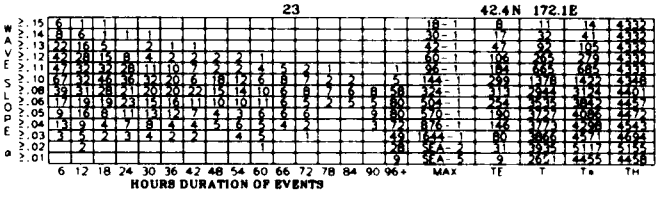


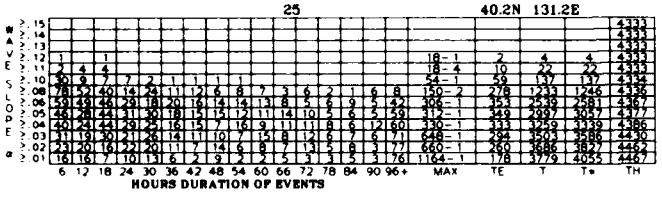

2 59.4N 172.0W
3 58.5N 151.6W
5 56.8N 141.9W
6 54.9N 167.1W
8 52.0N 172.9E
9 51.7N 158.8E
11 51.3N 158.6W
12 50.9N 145.6W
14 49.3N 174.1E
15 49.0N 128.4W
17 45.8N 139.3E
18 45.6N 144.2W
20 44.2N 152.7W
21 43.7N 128.7W
WAVE SLOPE α
HOURS DURATION OF EVENTS
MAX TE T Te TH

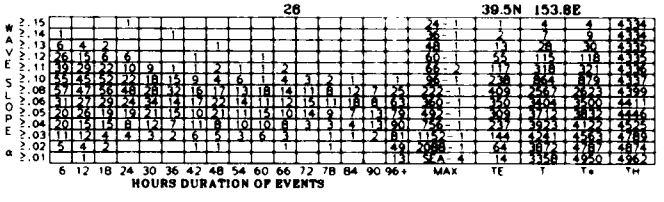
WINTER

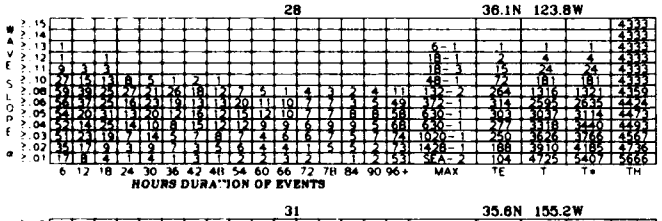
WAVE SLOPE (α)

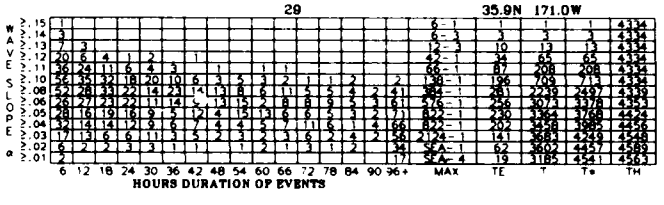


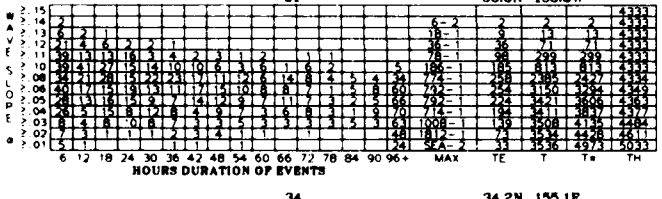


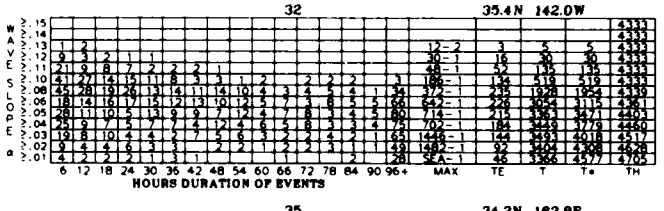


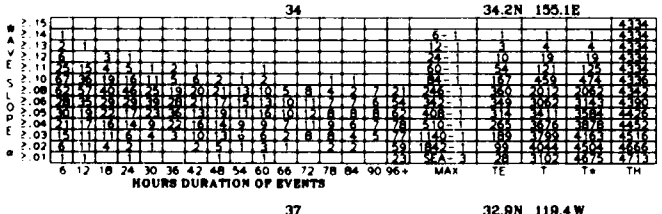


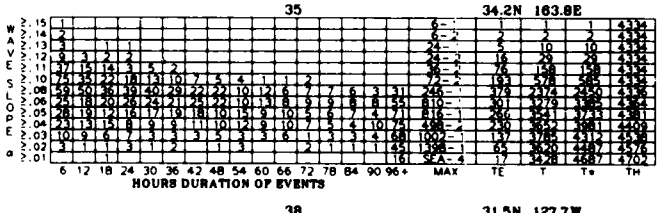


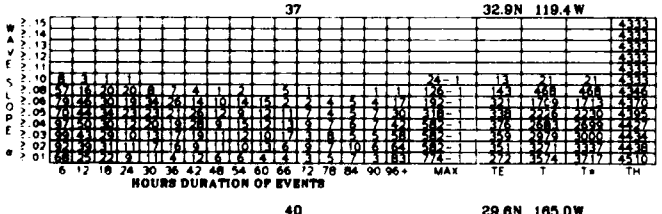


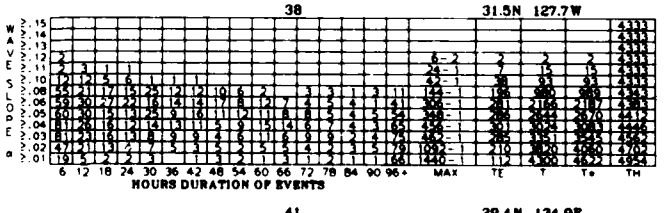


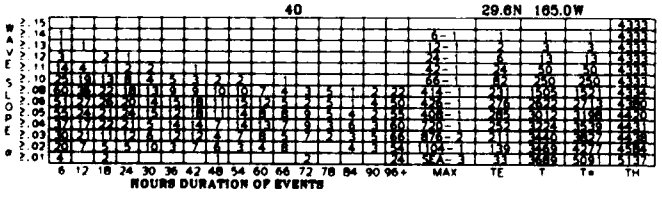


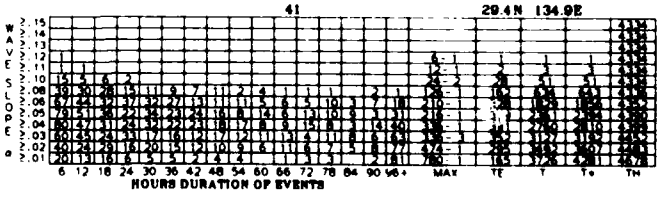




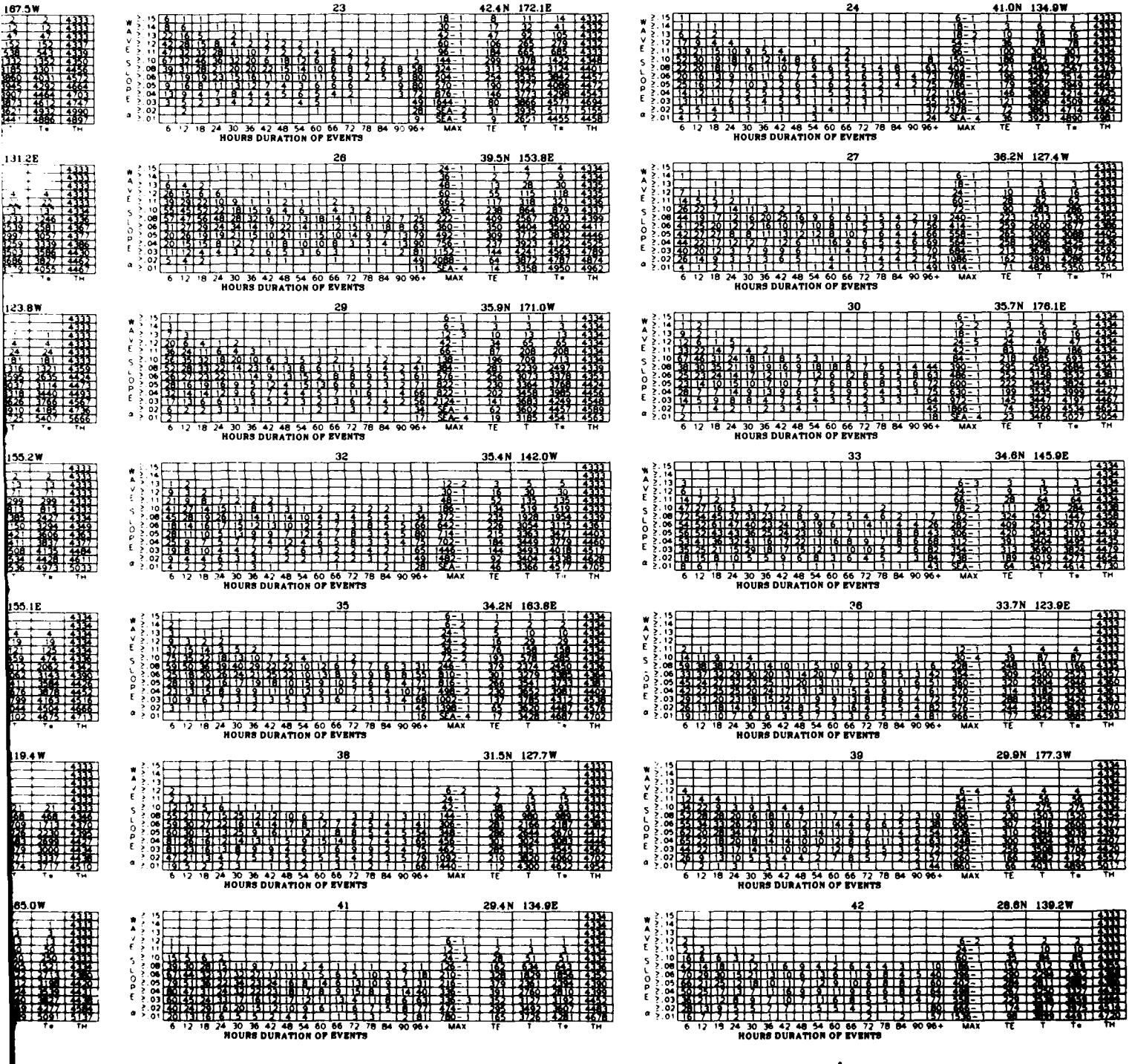






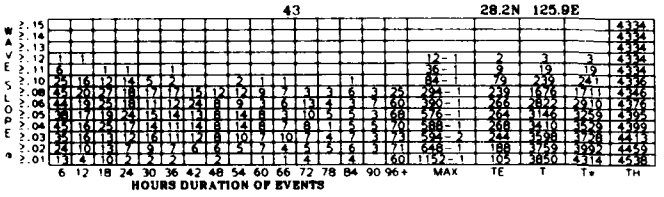


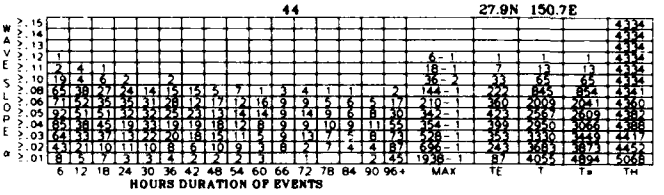
WAVE SLOPE (α) DURATIONS (Cont'd)

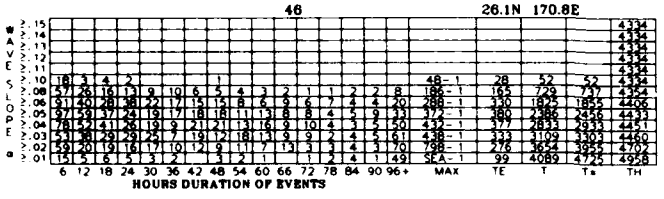


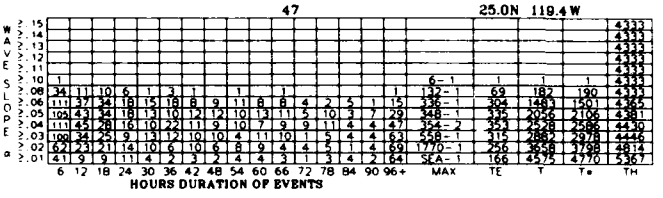
4

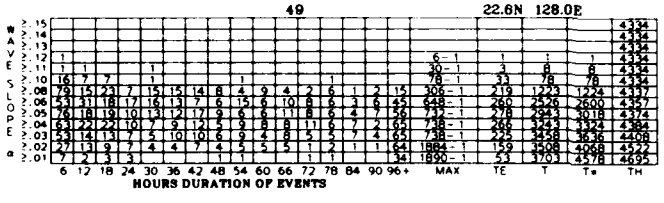
WAVE SLOPE (α) DURATIONS (Cont'd)

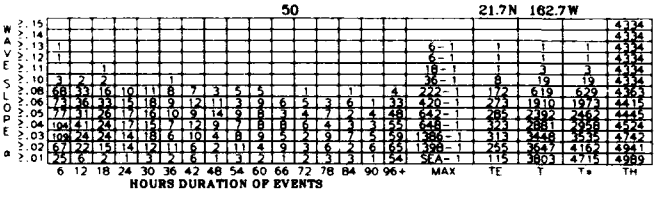


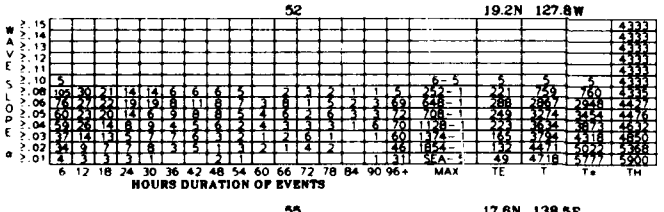


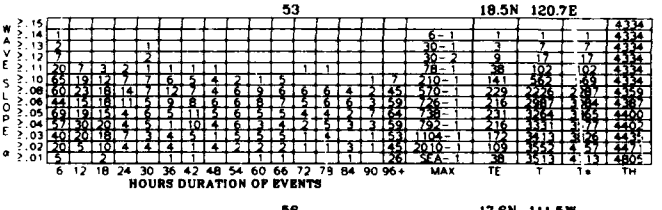


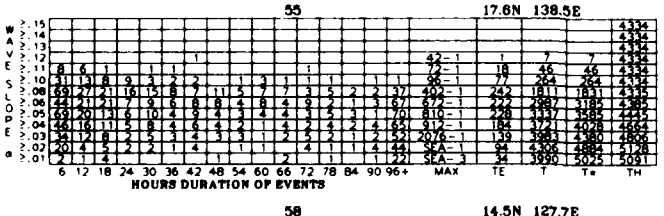


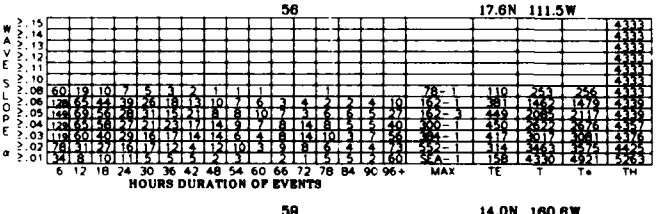


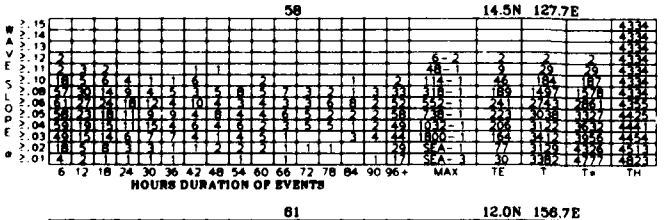


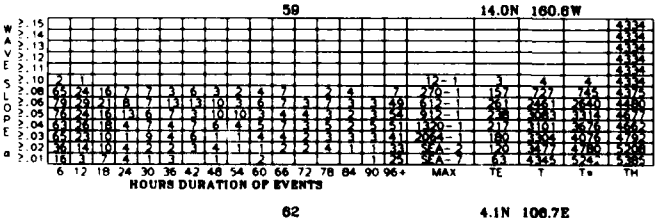


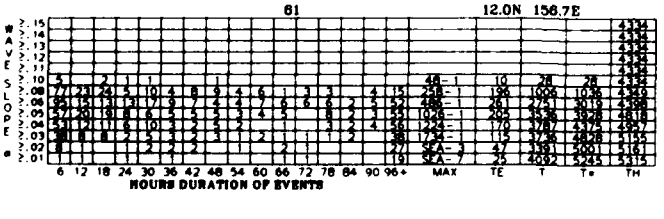


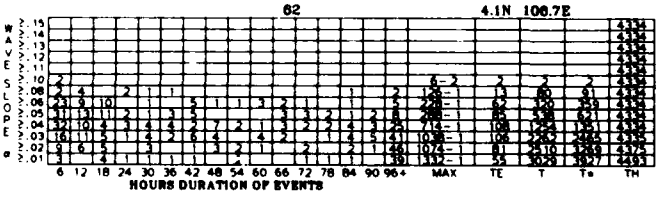


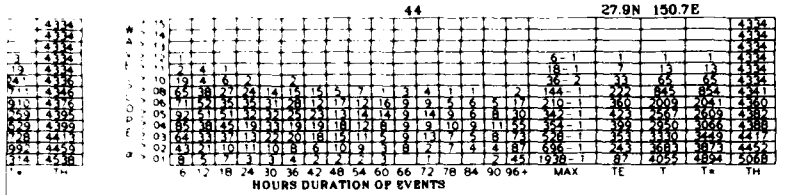


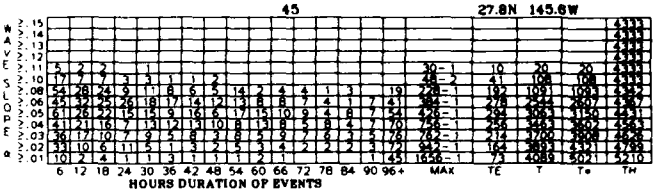


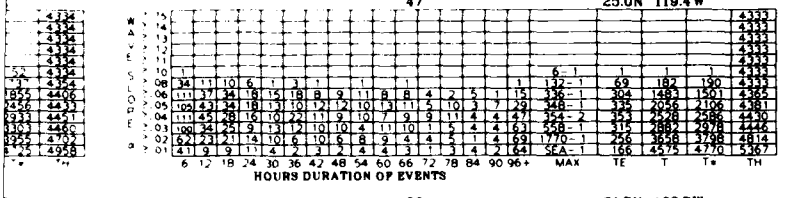


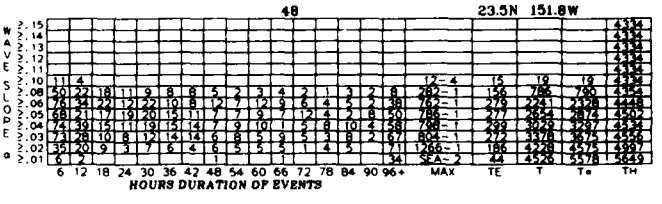


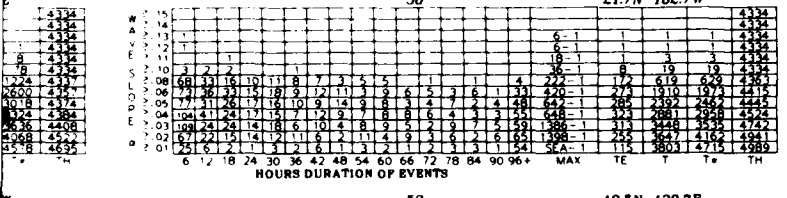


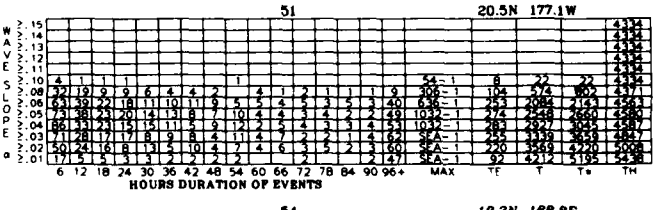

44
27.9N 150.7E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

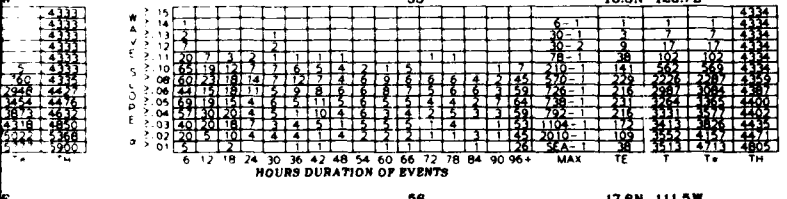

45
27.8N 145.6W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

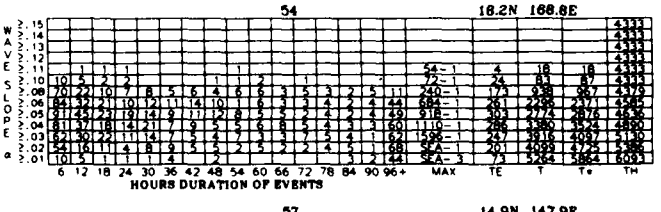

47
25.0N 119.4W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

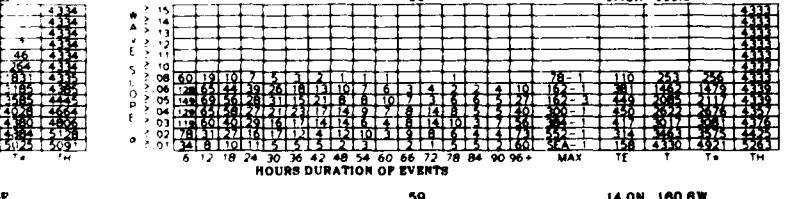

48
23.5N 151.8W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

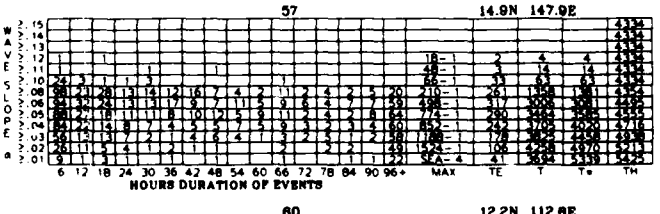

50
21.7N 162.7W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

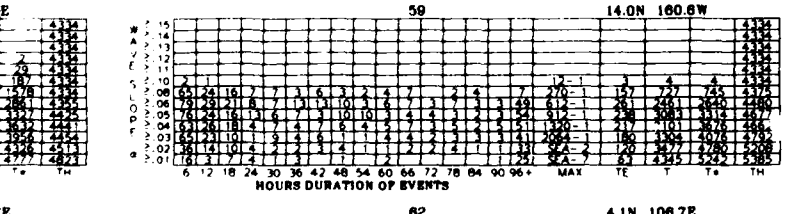

51
20.5N 177.1W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

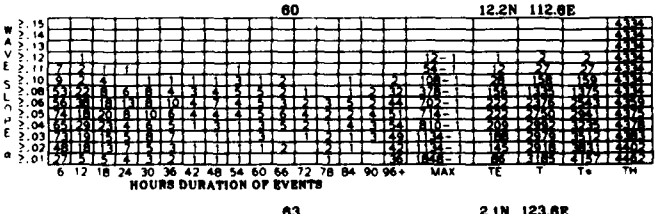

53
18.5N 120.7E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

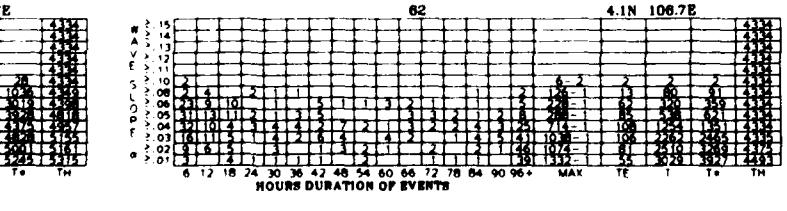

54
18.2N 168.8E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

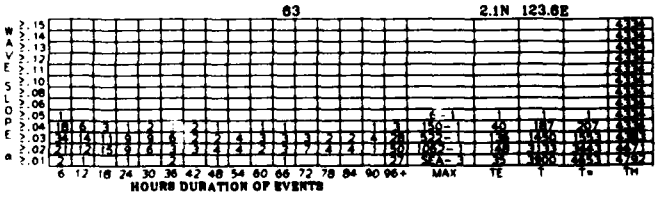

56
17.6N 111.5W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH


57
14.9N 147.9E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH


59
14.0N 160.6W
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

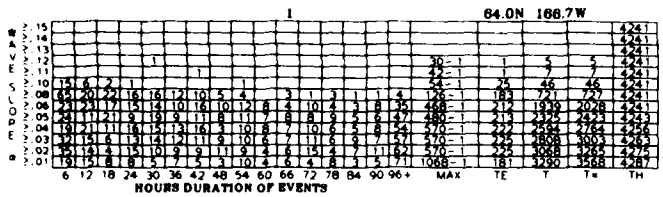

60
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WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

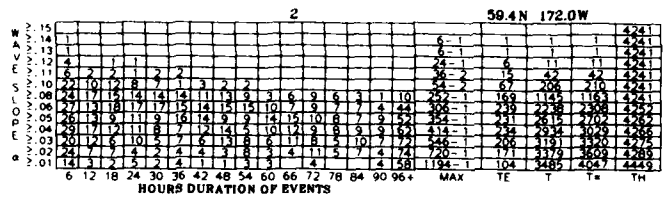

62
4.1N 106.7E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

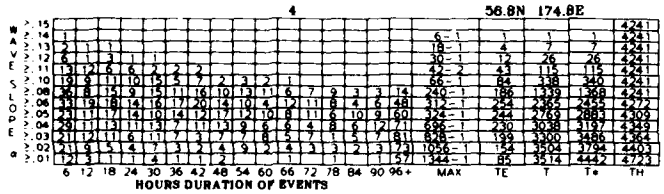

63
2.1N 123.6E
WAVE SLOPE a
HOURS DURATION OF EVENTS
MAX TE T Te TH

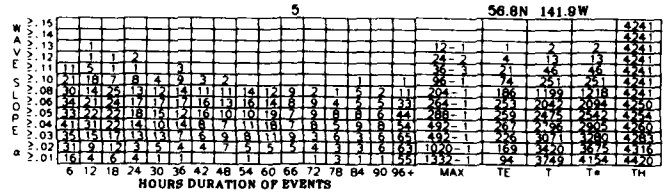
SPRING

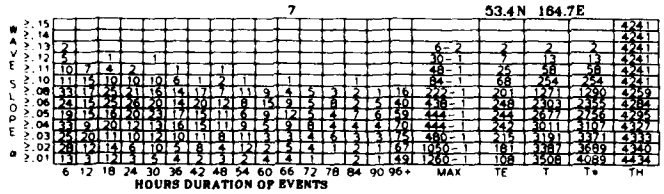
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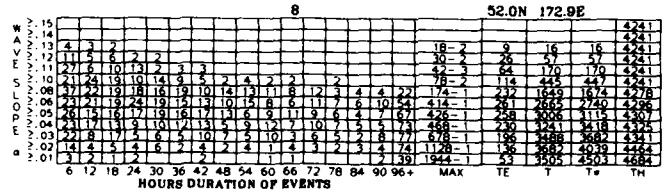


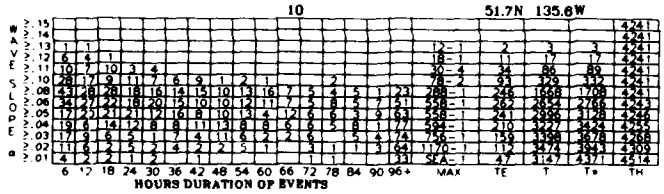


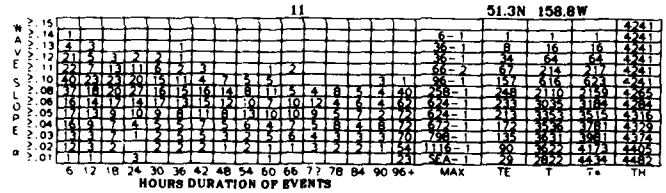


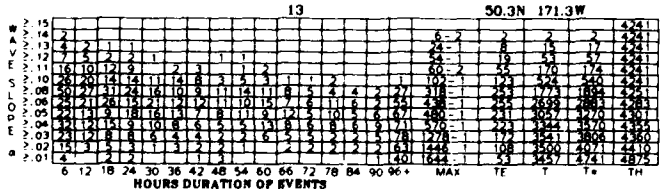


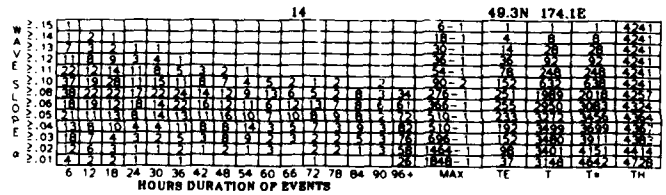


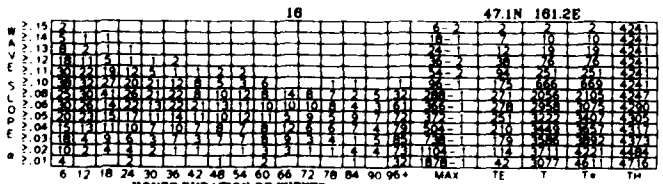


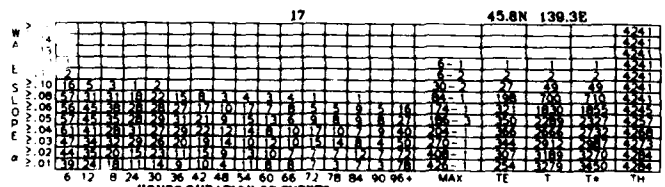


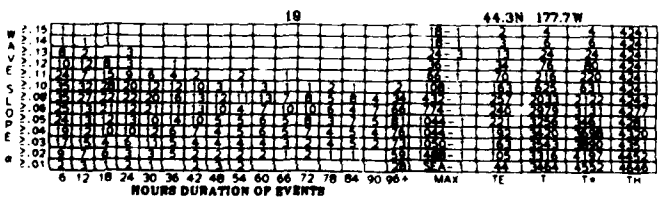


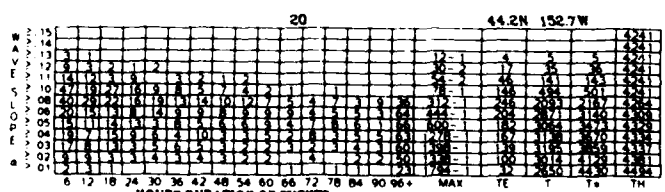




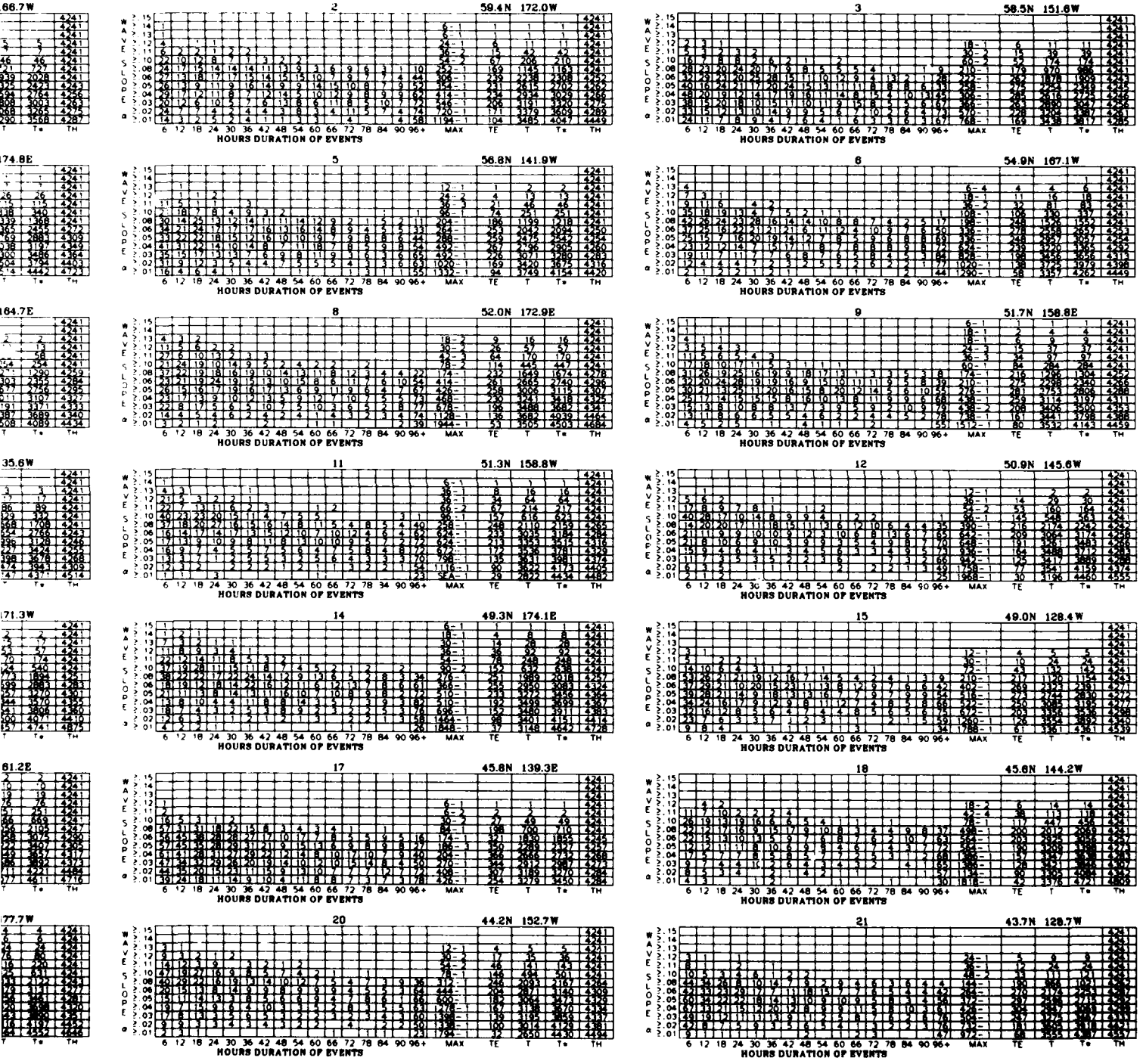




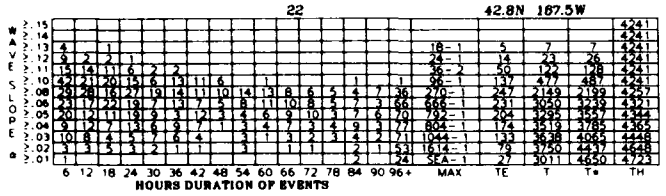


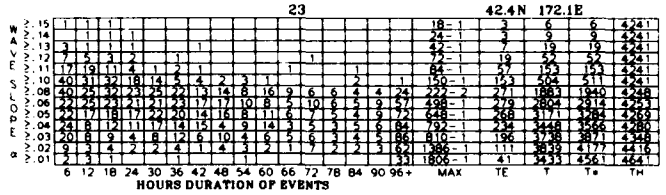


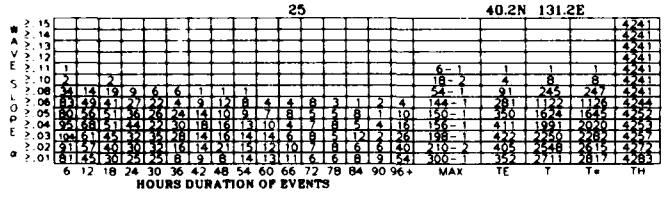
WAVE SLOPE (α) DURATIONS

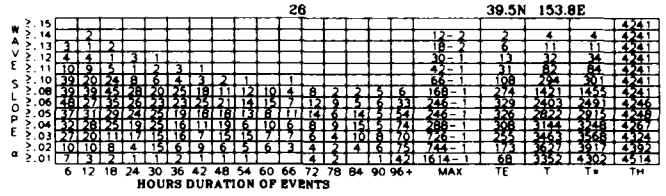


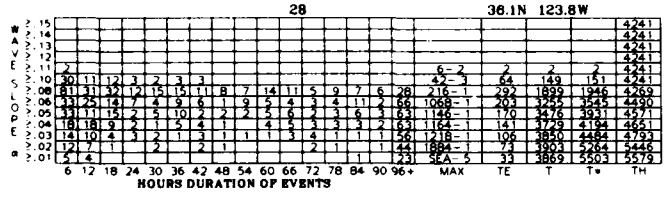
WAVE SLOPE (α) DURATIONS (Cont'd)

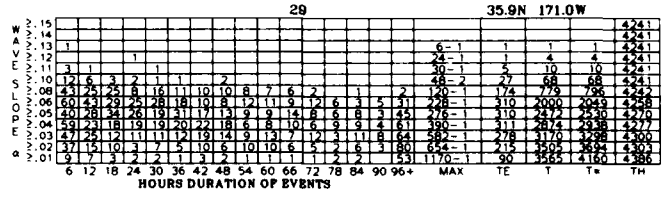


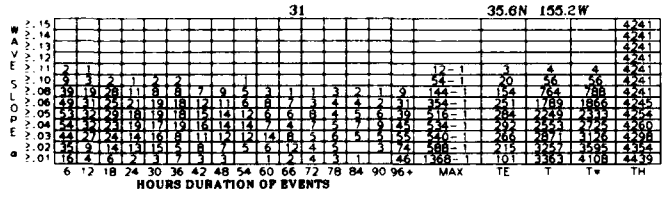


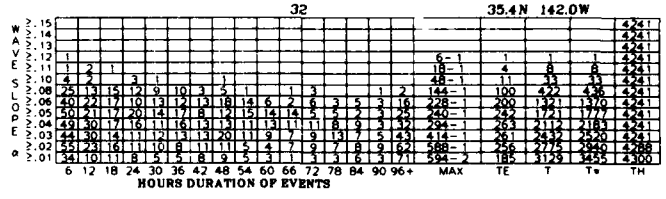


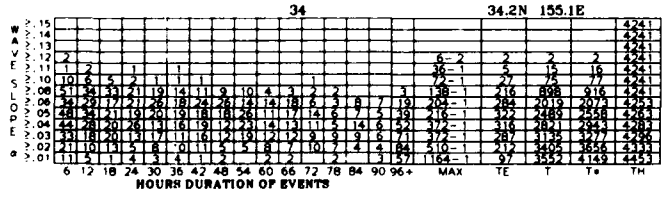


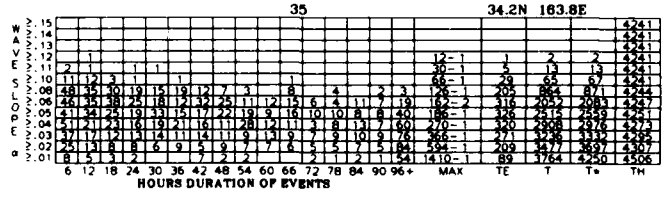


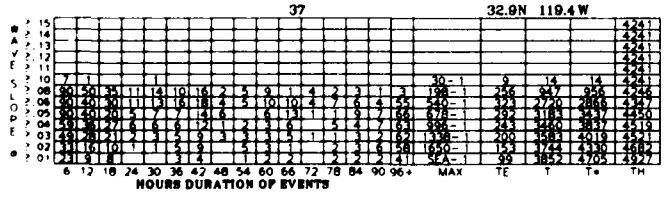


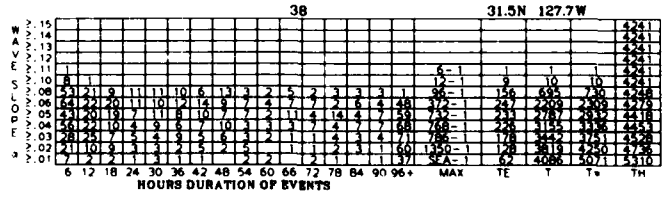


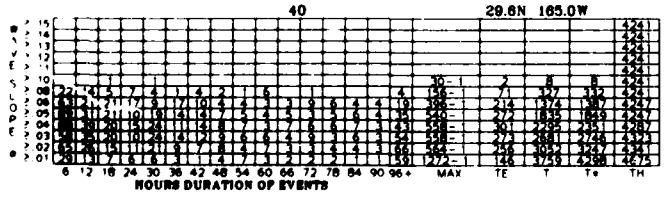


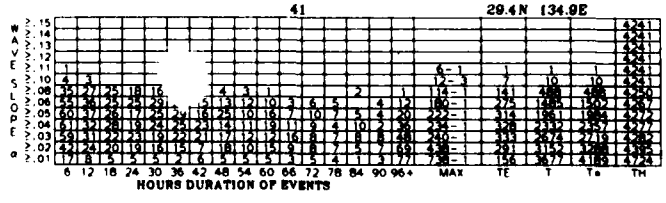


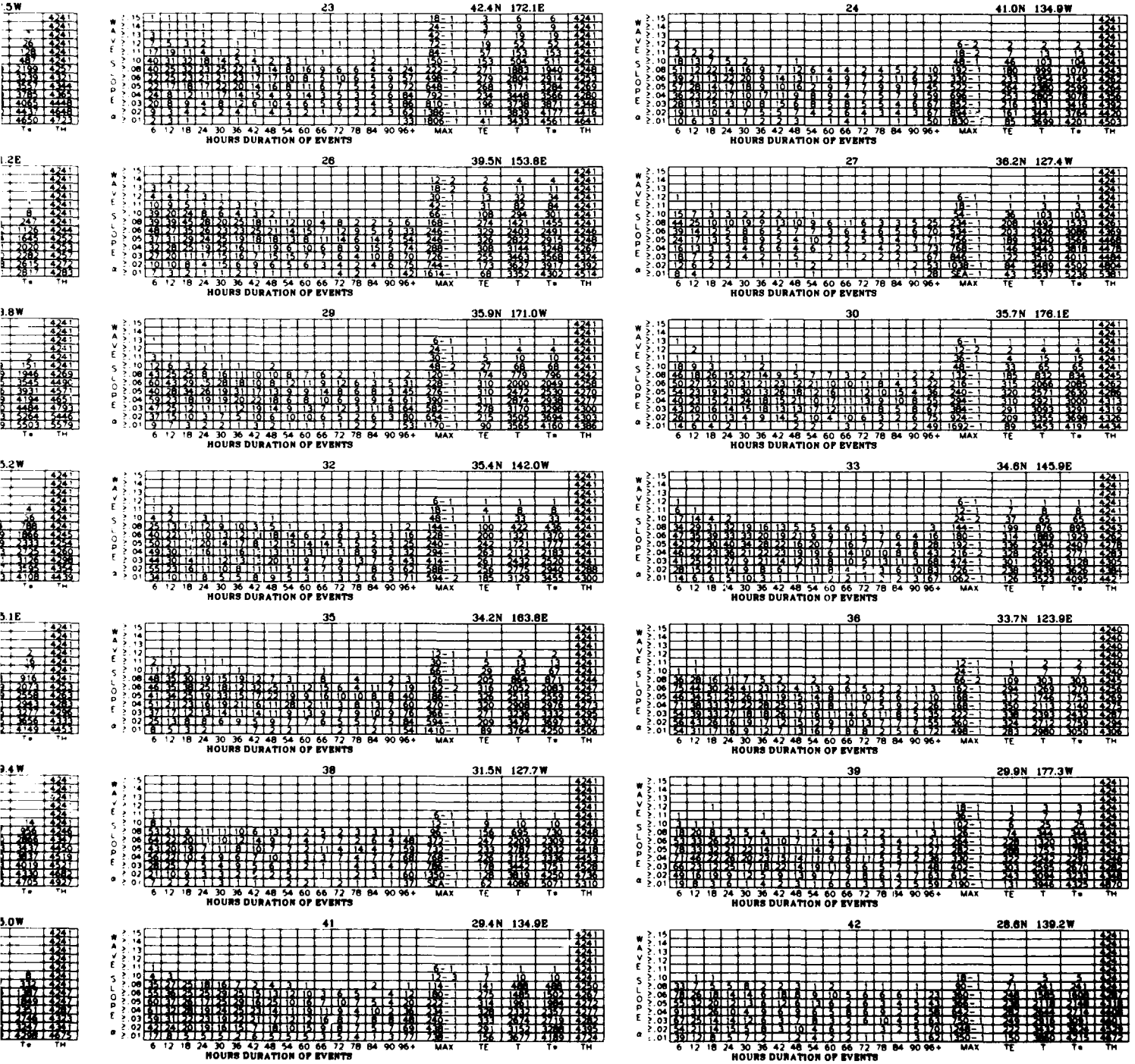






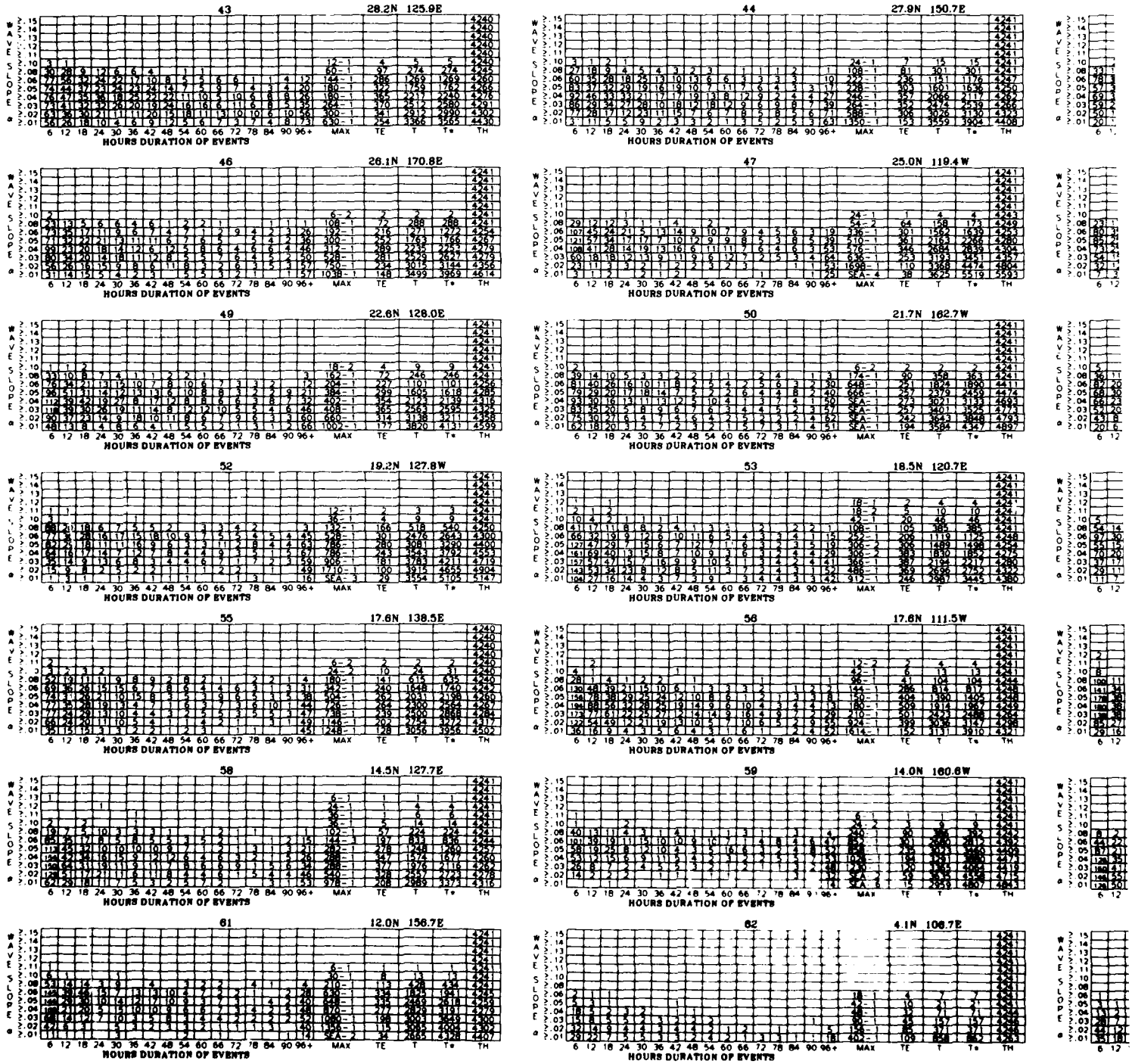




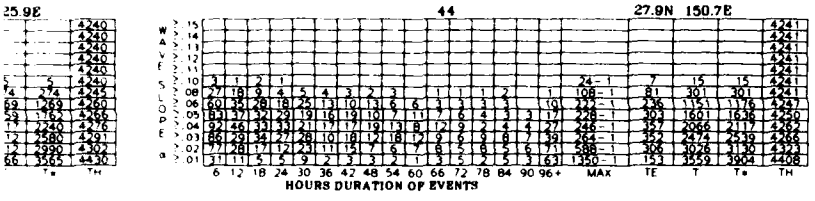

23 42.4N 172.1E
24 41.0N 134.9W
26 39.5N 153.8E
27 36.2N 127.4W
29 35.9N 171.0W
30 35.7N 176.1E
32 35.4N 142.0W
33 34.8N 145.9E
35 34.2N 163.8E
36 33.7N 123.9E
38 31.5N 127.7W
39 29.9N 177.3W
41 29.4N 134.9E
42 28.8N 139.2W
WAVE SLOPE
HOURS DURATION OF EVENTS
MAX TE T Te TH

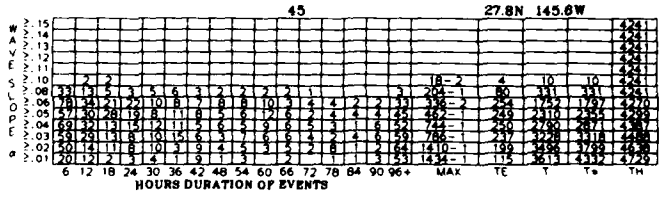
SPRING

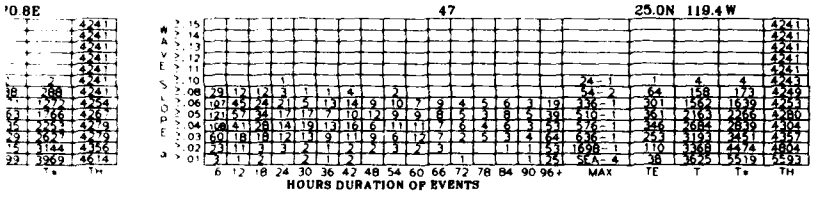
WAVE SLOPE (α)

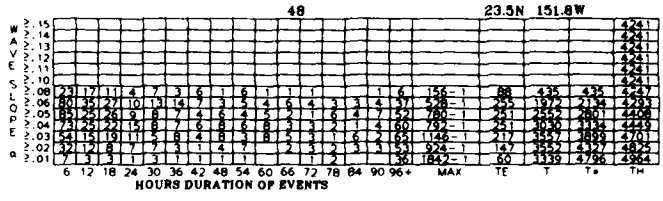


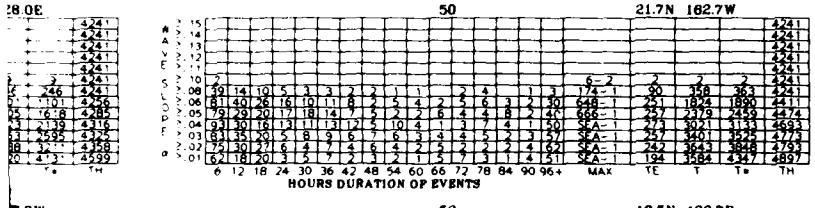
WAVE SLOPE (α) DURATIONS (Cont'd)

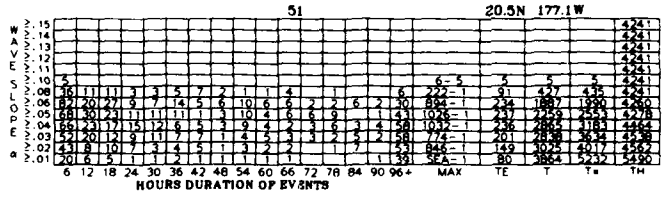


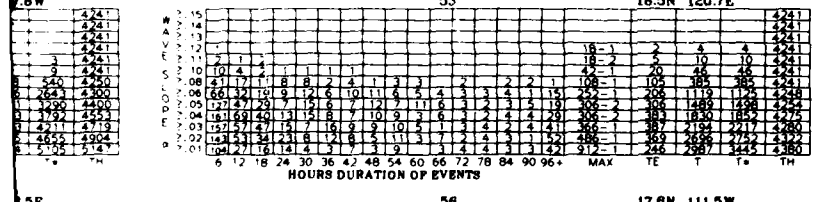


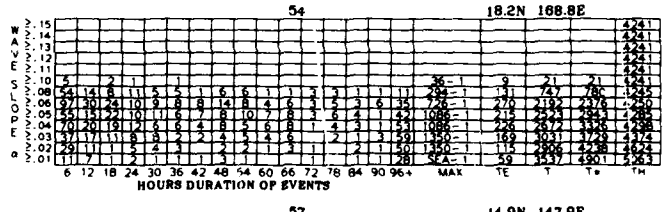


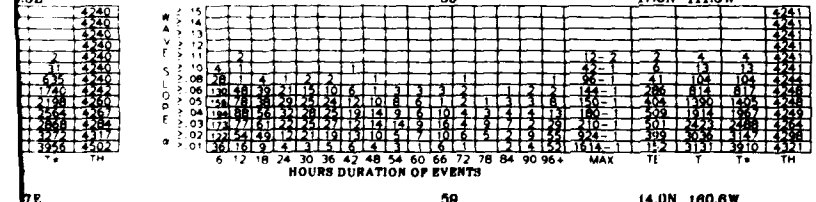


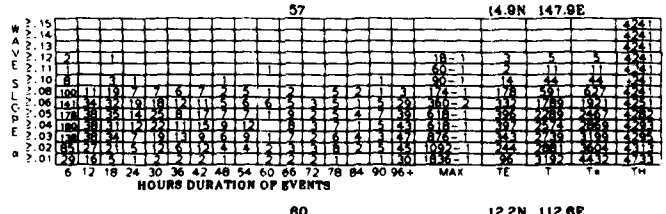


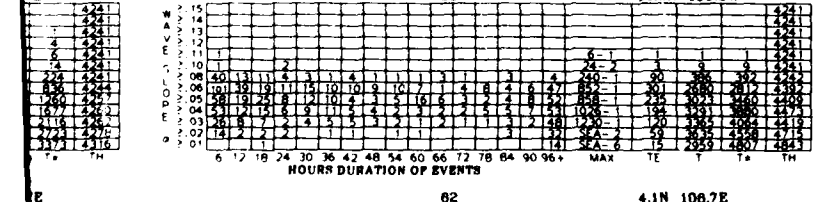


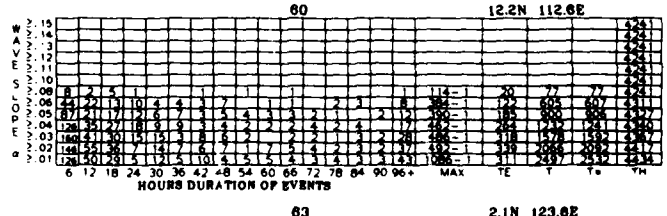


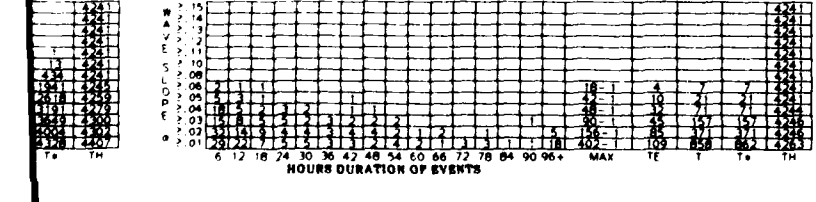


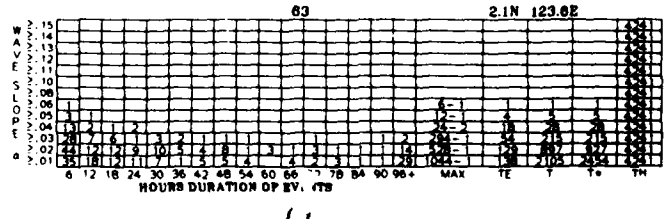




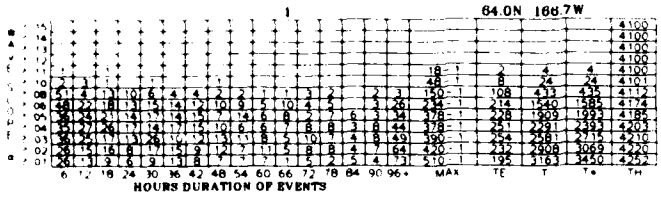


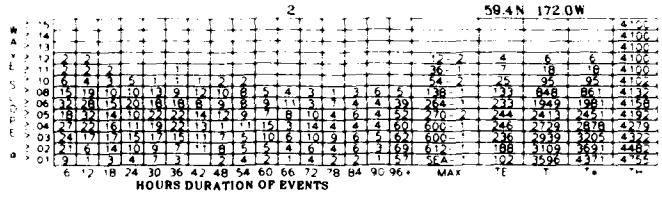


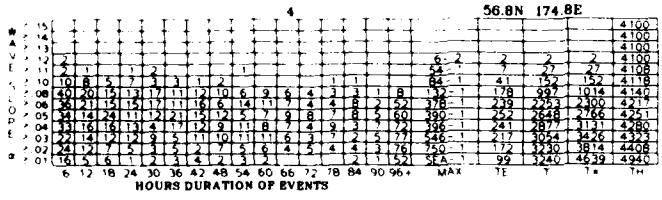


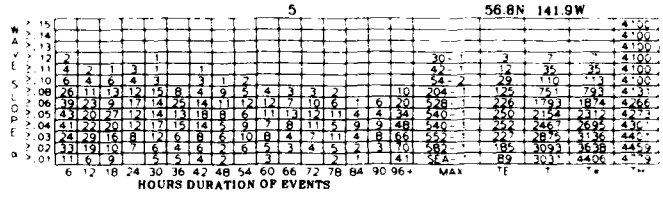


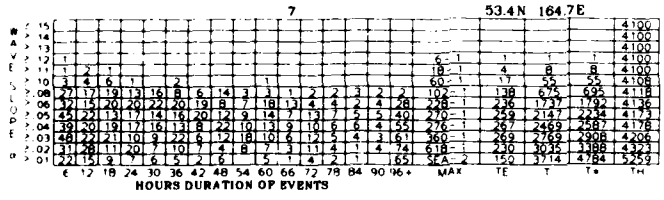
WAVE SLOPE (α) DURATIONS

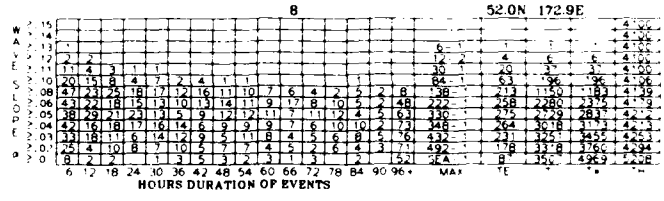


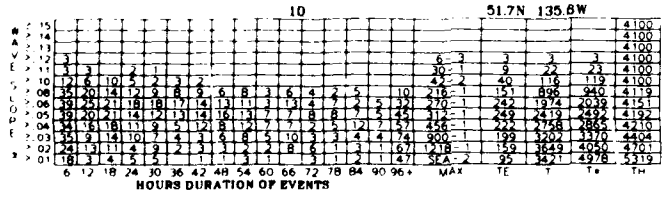


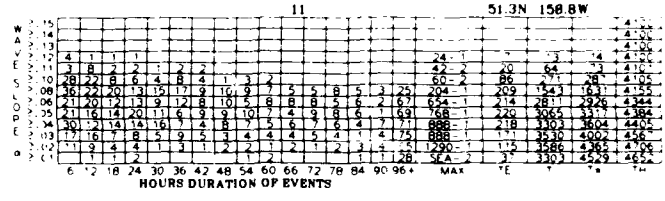


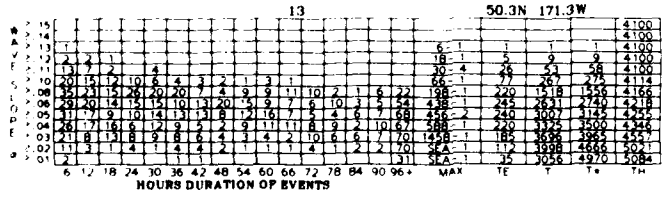


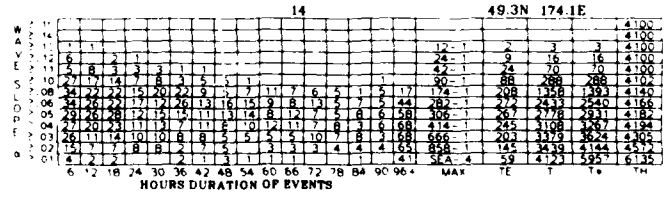


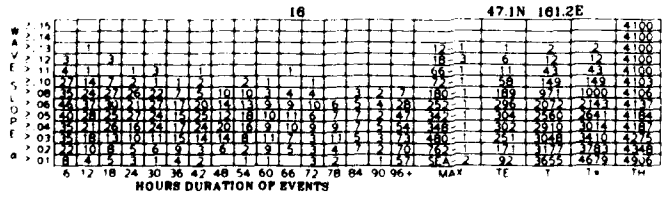


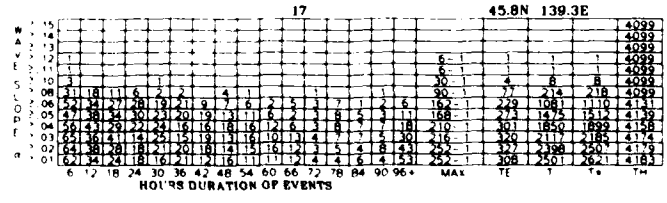


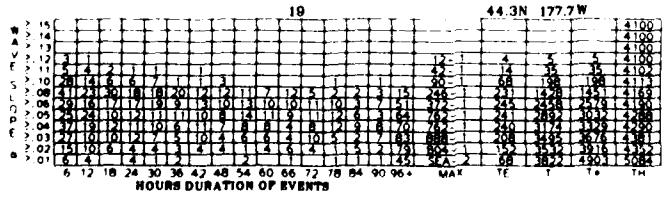


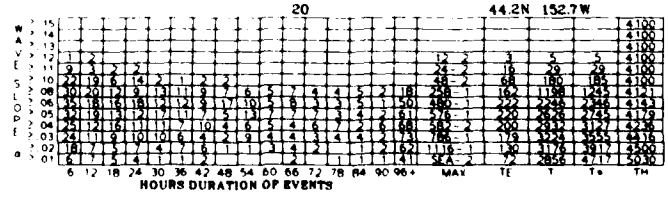




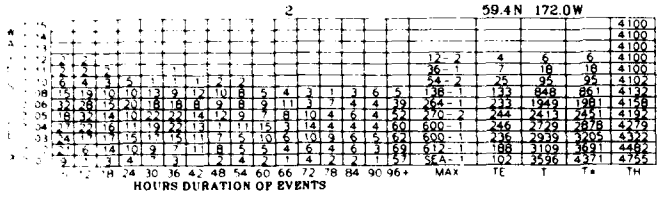




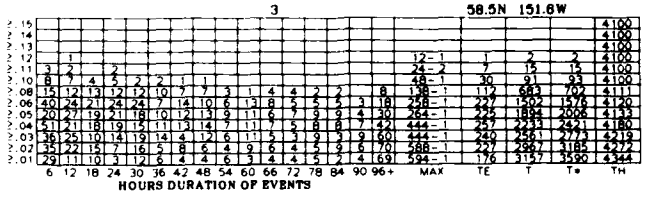




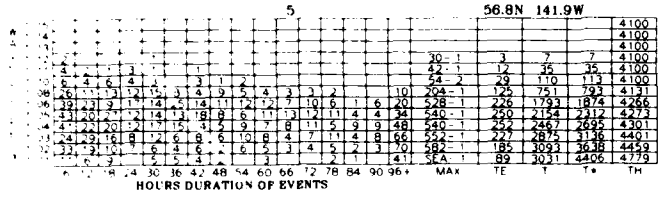
2 59.4N 172.0W



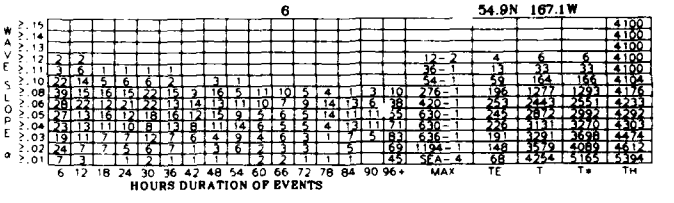
3 58.5N 151.6W



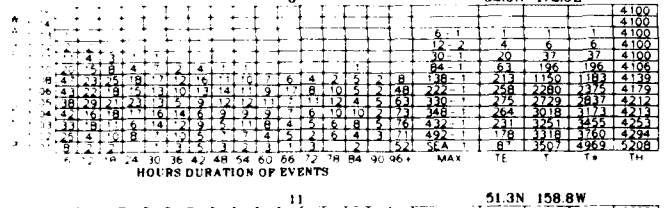
5 56.8N 141.9W



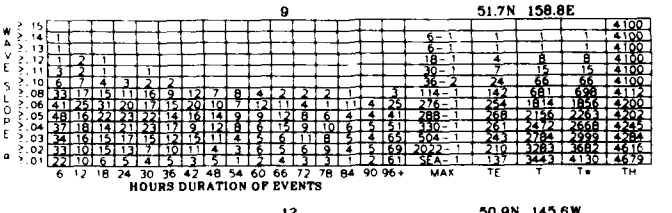
6 54.9N 167.1W



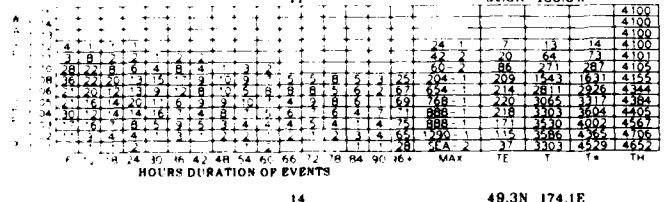
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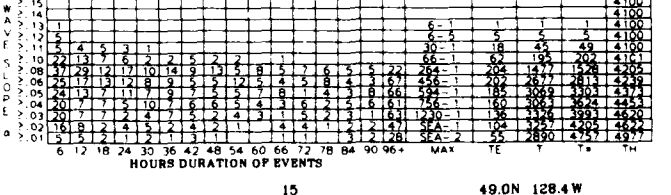
9 51.7N 158.8E



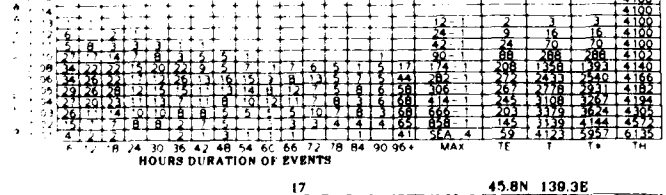
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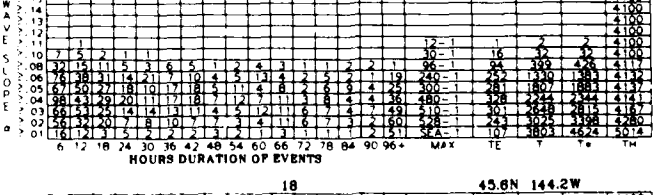
12 50.9N 145.6W



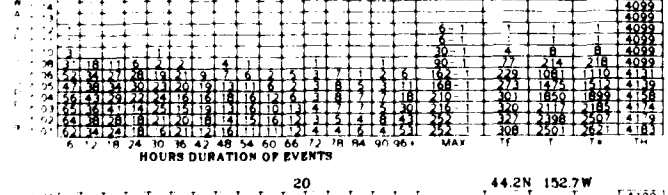
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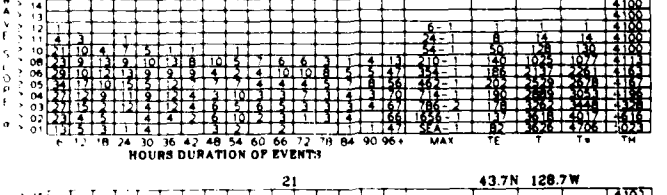
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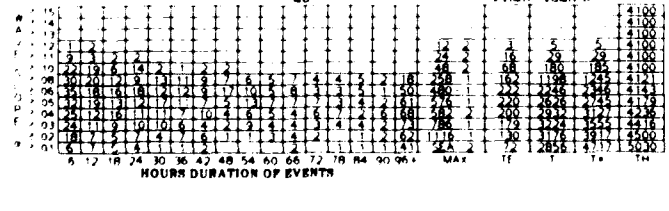
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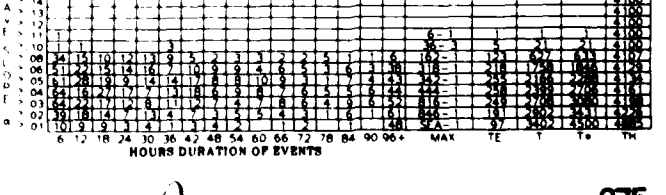
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20 44.2N 152.7W

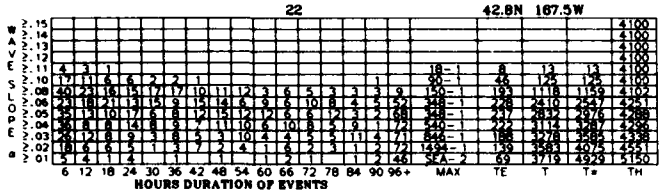


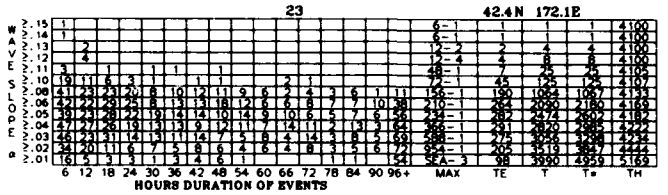
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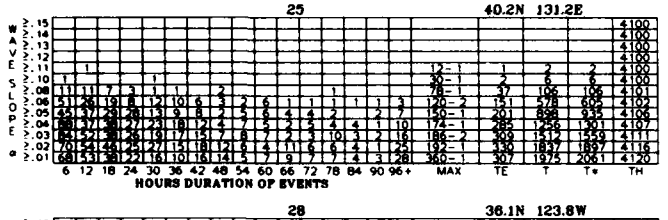


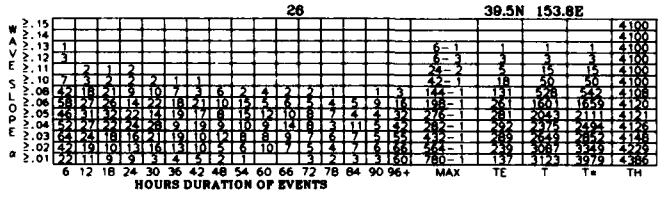
SUMMER

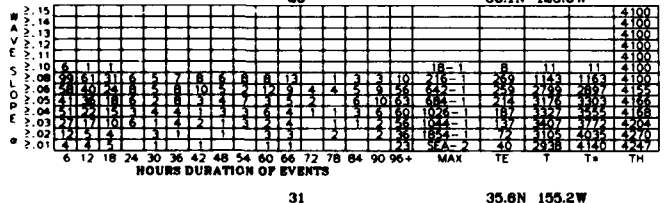
WAVE SLOPE (α)

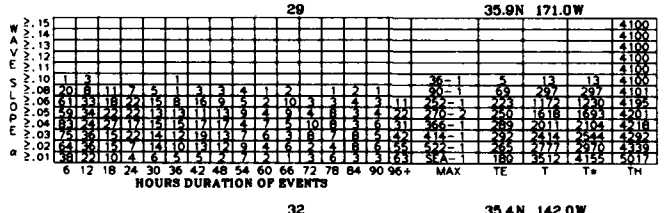


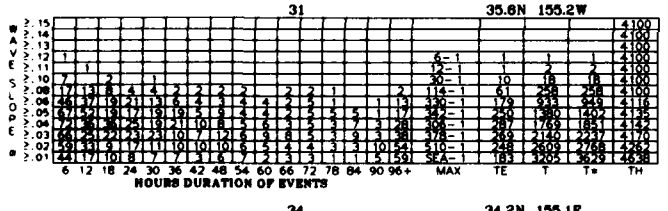


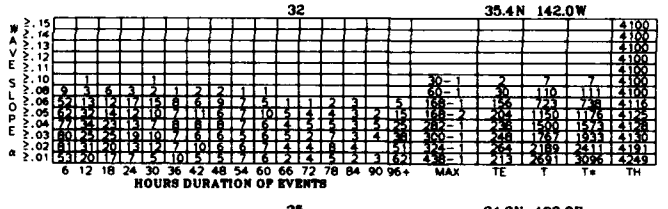


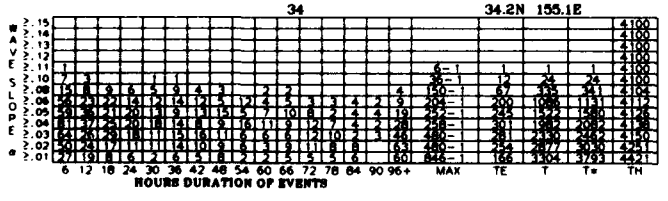


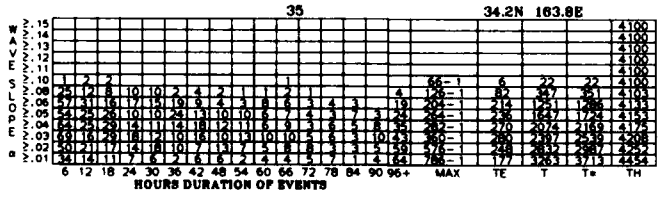


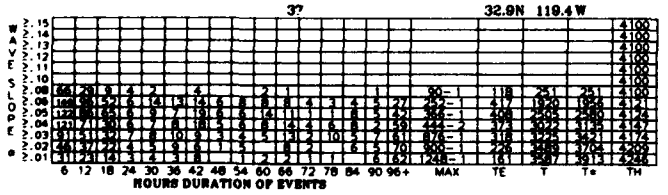


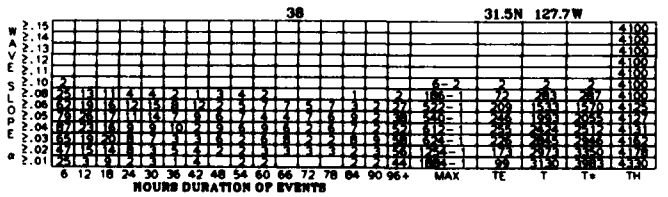


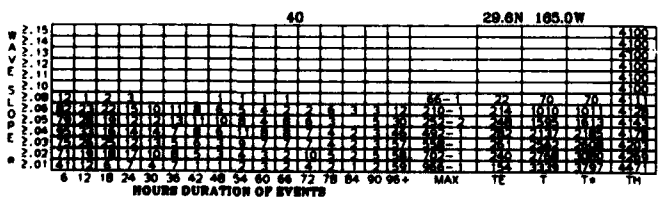


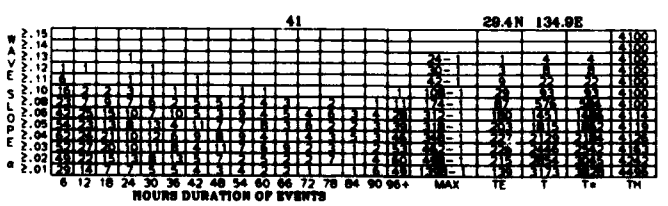




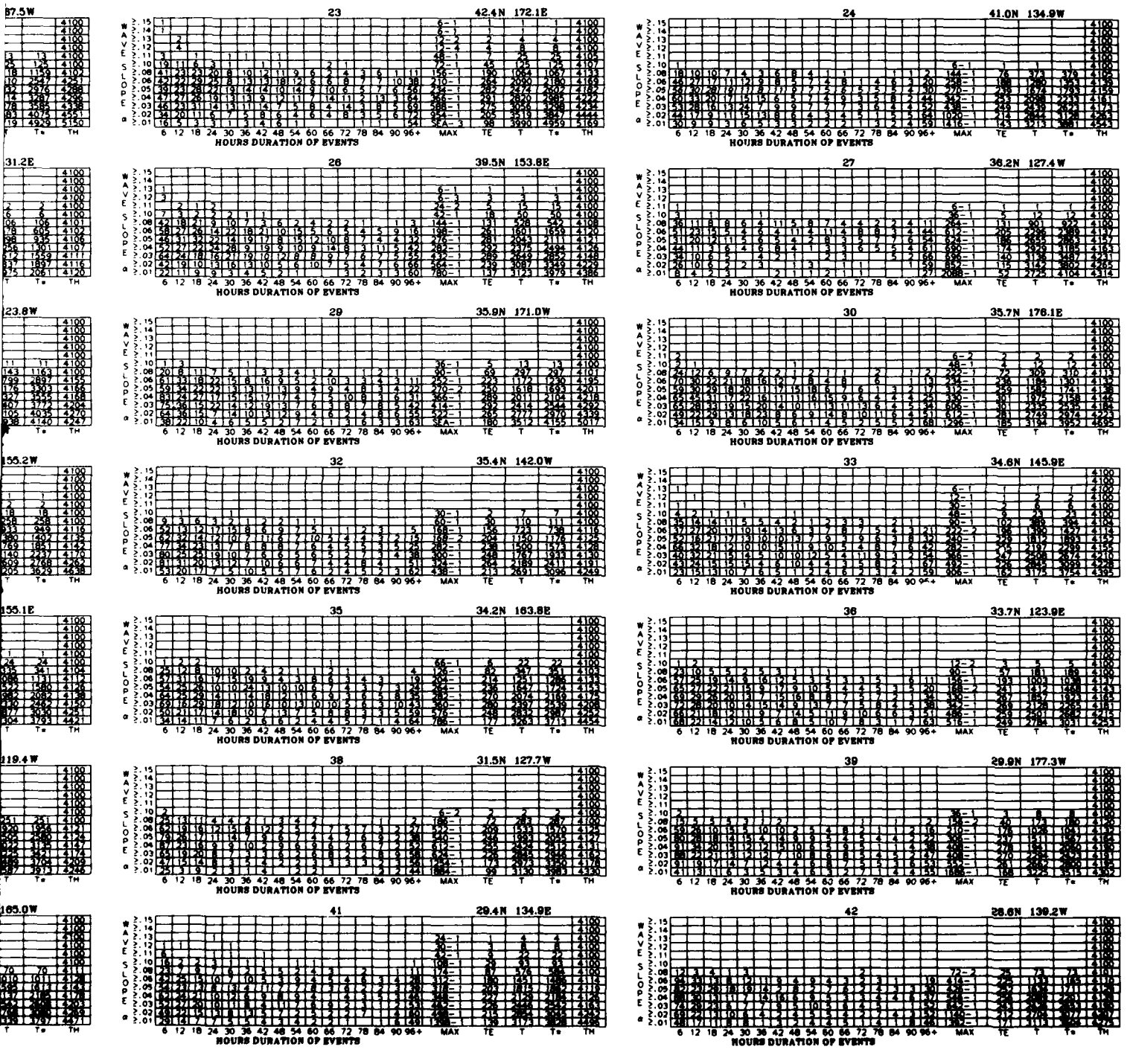




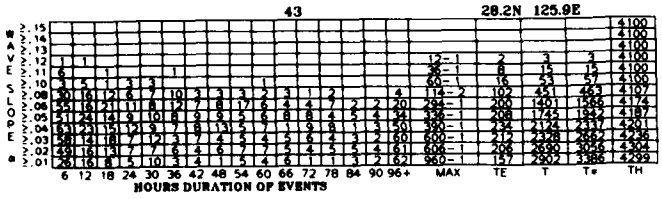


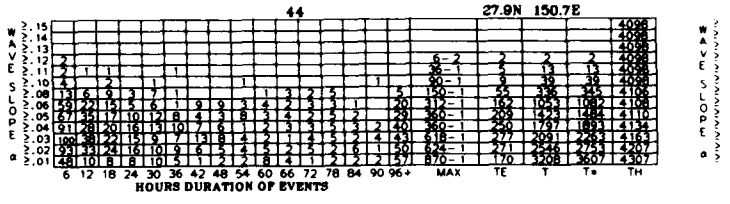


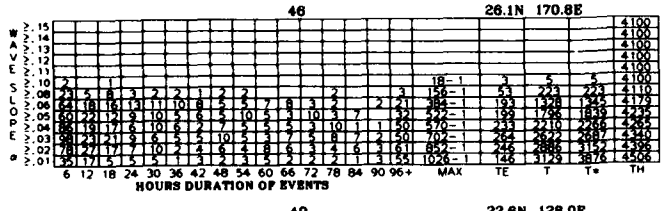
WAVE SLOPE (α) DURATIONS (Cont'd)

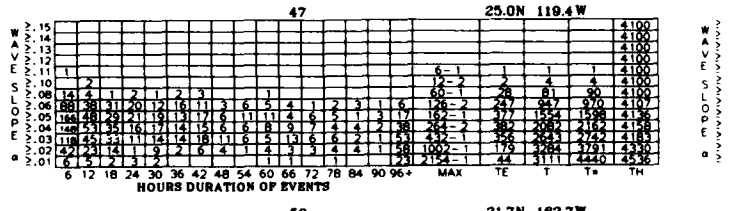


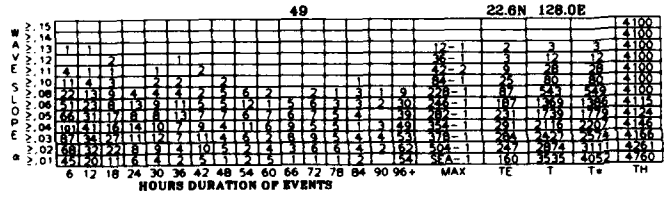
WAVE SLOPE (α) DURATIONS (Cont'd)

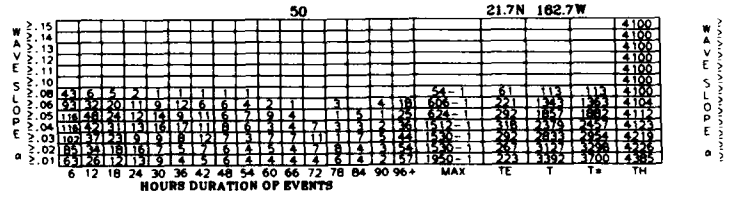


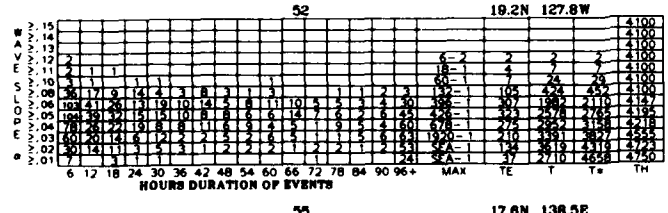


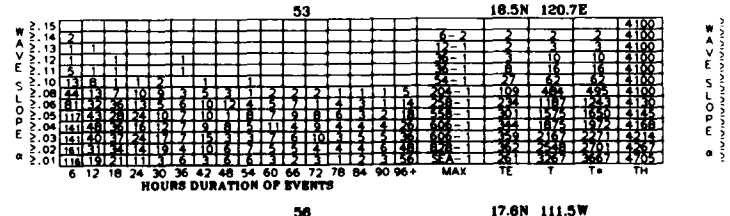


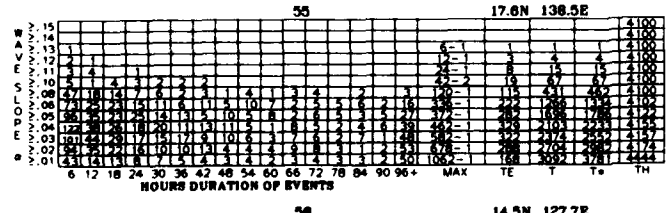


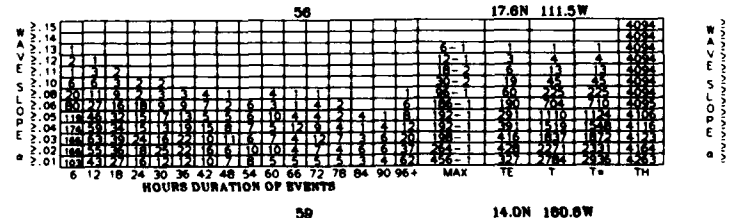


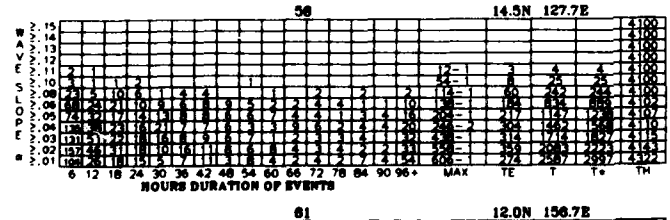


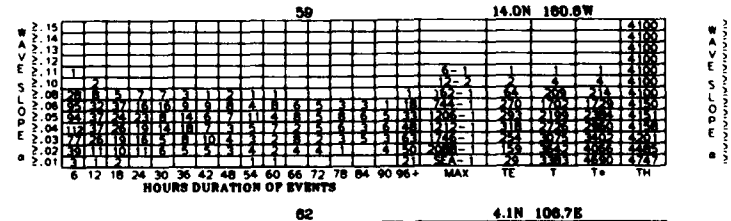


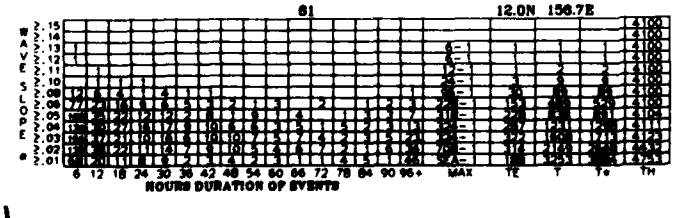


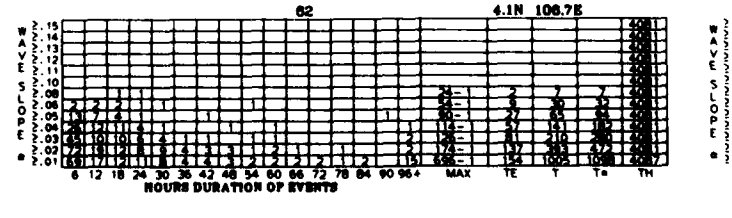






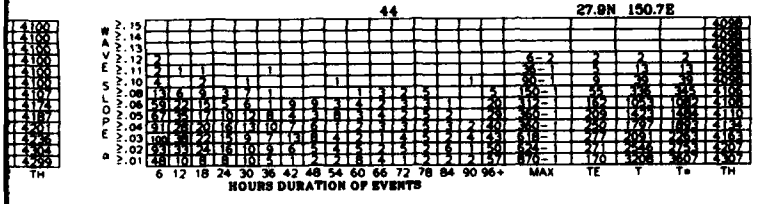


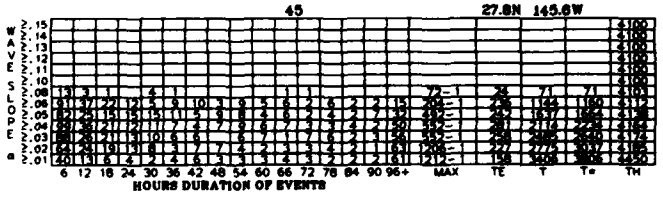


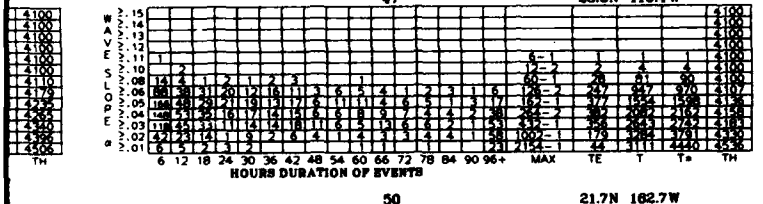


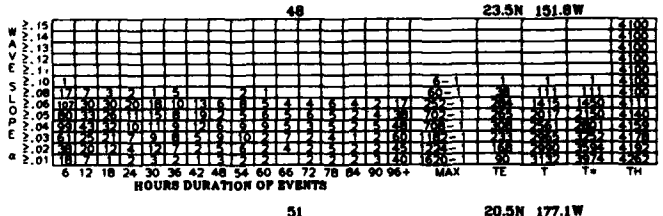
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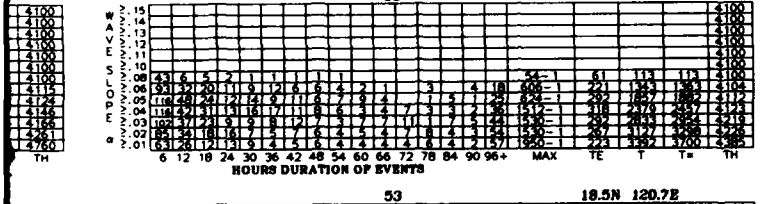
SUMMER

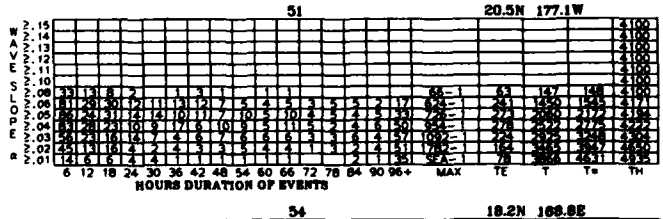


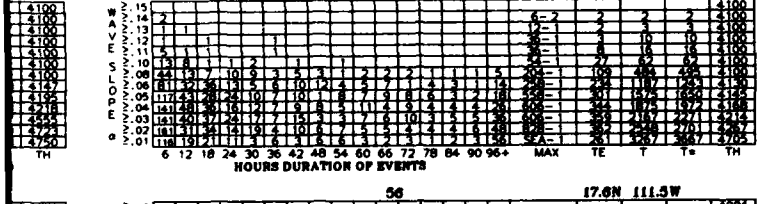


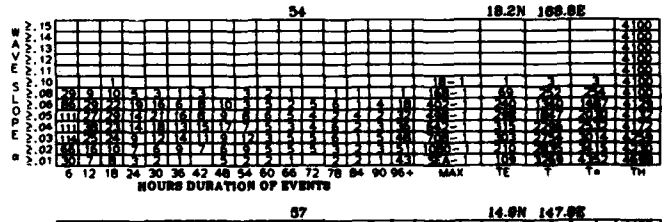


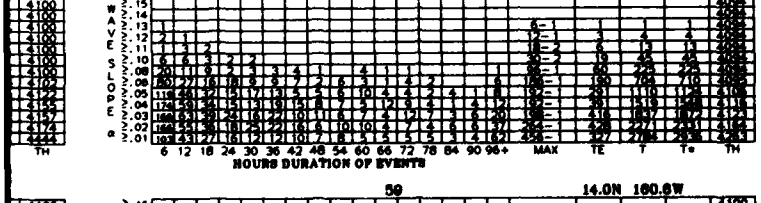


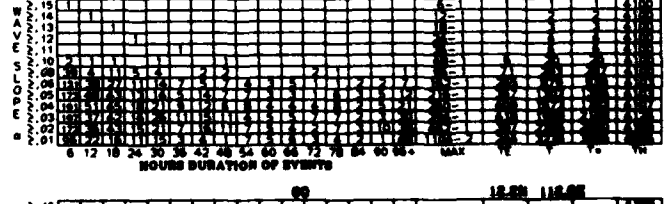


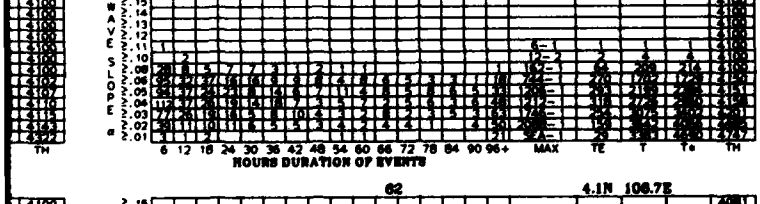


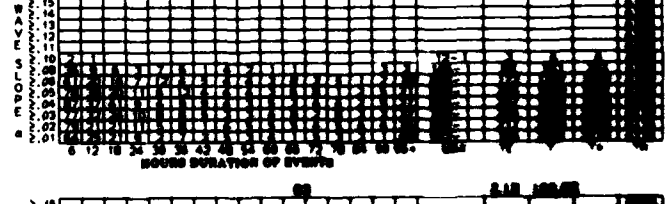


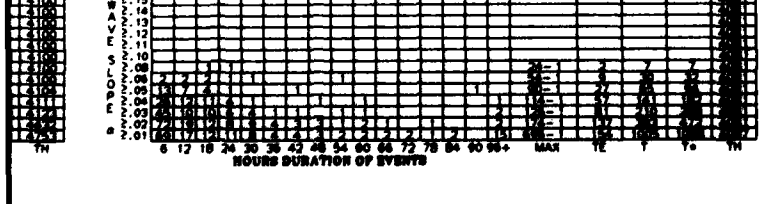


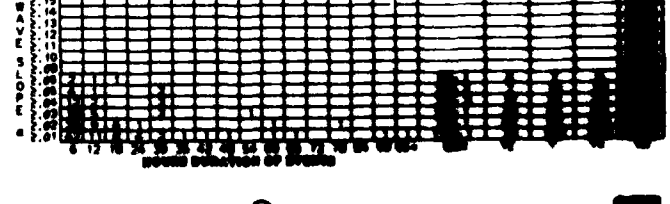






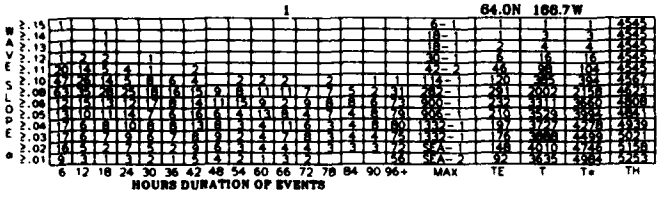


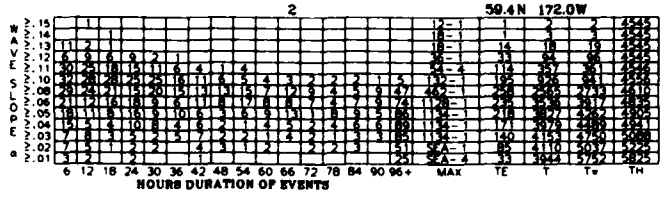


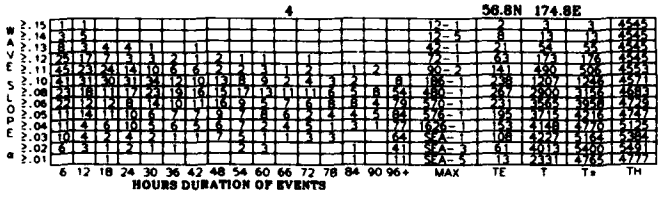


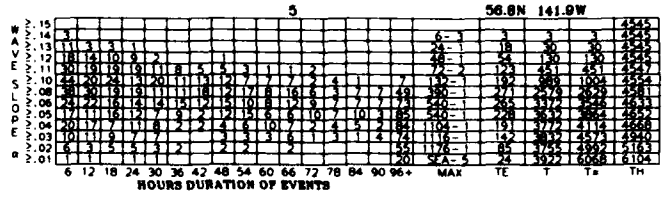
FALL

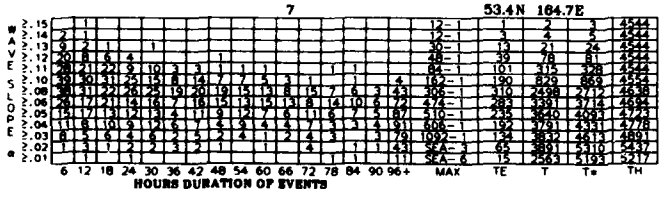
WAVE SL

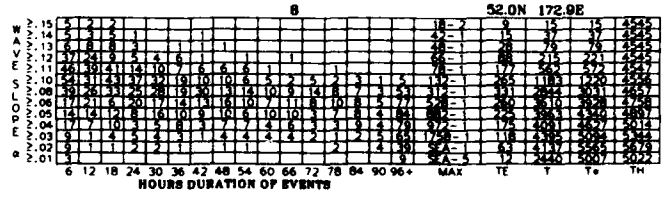

1
64.0N 166.7W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

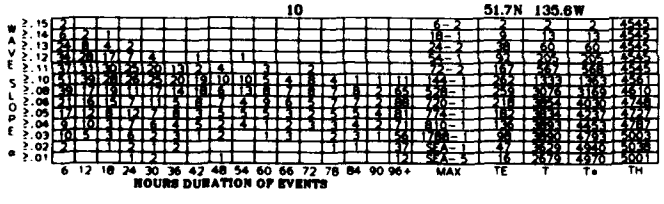

2
59.4N 172.0W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

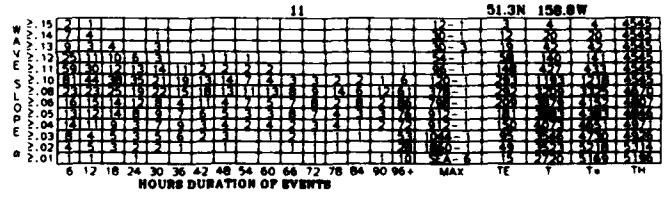

4
56.8N 174.8E
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

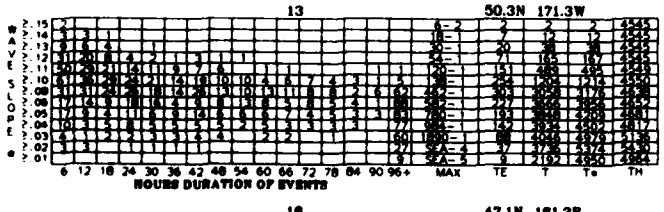

5
56.8N 141.9W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

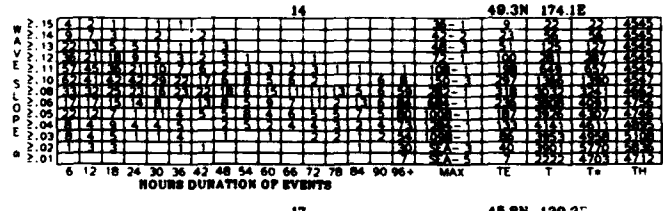

7
53.4N 164.7E
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

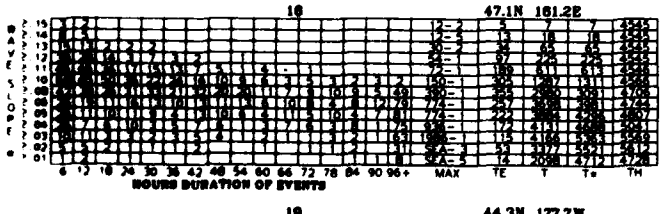

8
52.0N 172.9E
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

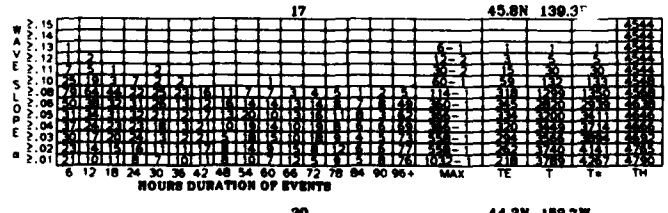

10
51.7N 135.6W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

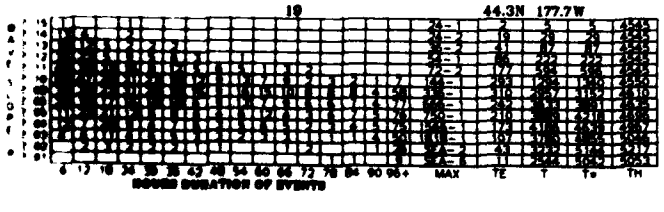

11
51.3N 156.8W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

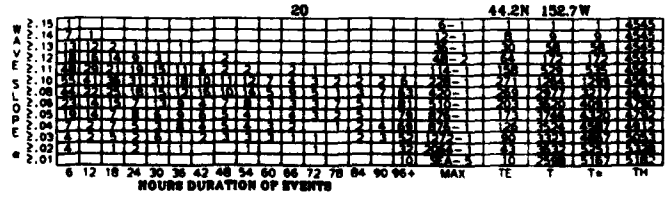

13
50.3N 171.3W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS


14
49.3N 174.1E
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

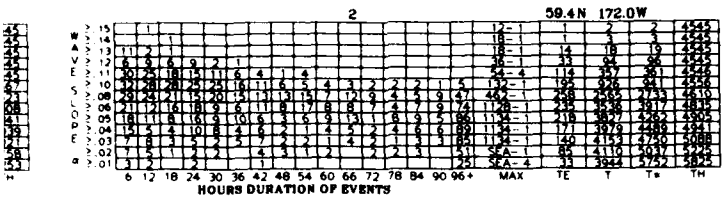

16
47.1N 161.2E
WAVE SLOPE
PERIOD
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HOURS DURATION OF EVENTS

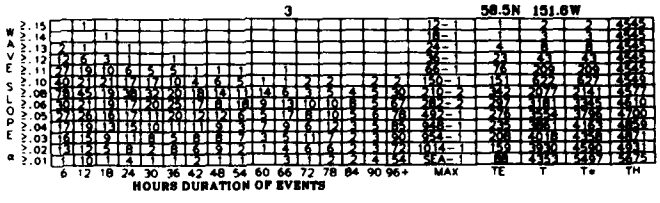

17
45.8N 139.3E
WAVE SLOPE
PERIOD
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HOURS DURATION OF EVENTS

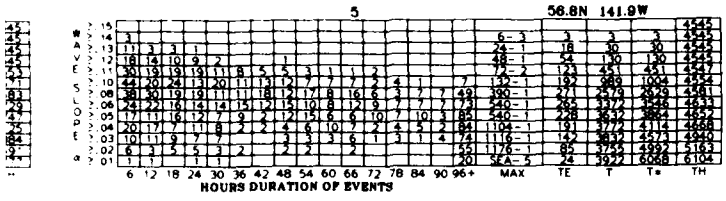

19
44.3N 177.7W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

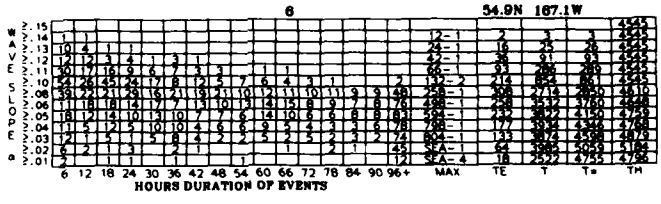

20
44.2N 152.7W
WAVE SLOPE
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T Te TH
HOURS DURATION OF EVENTS

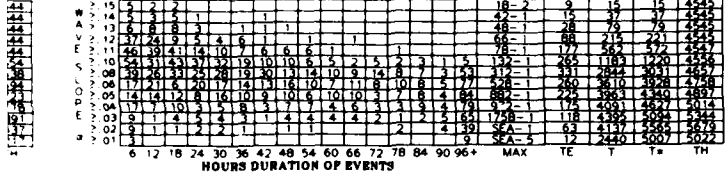
WAVE SLOPE (α) DURATIONS

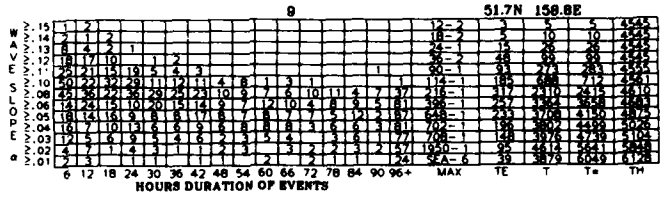


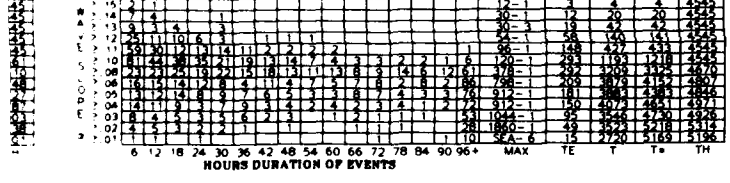


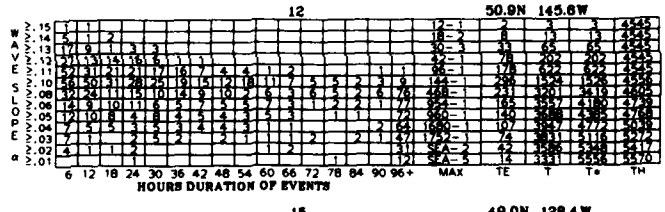


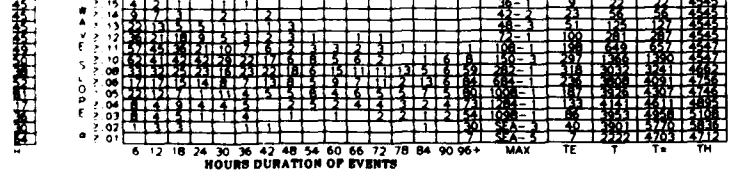


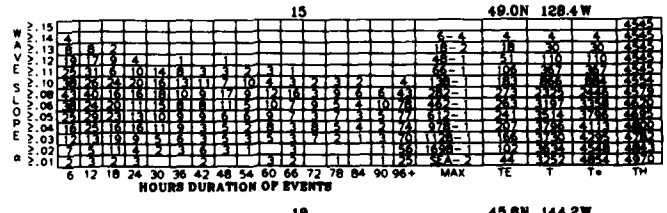


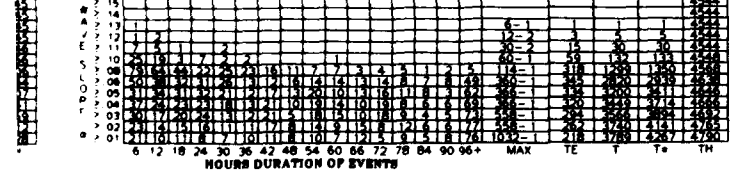


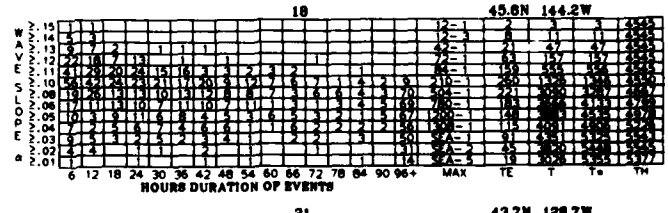


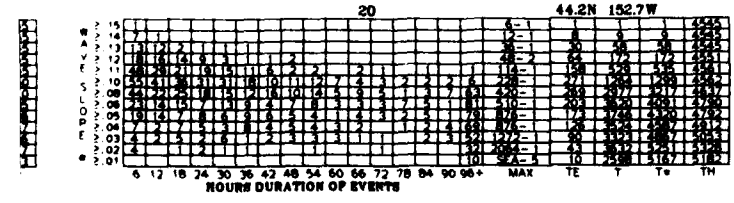


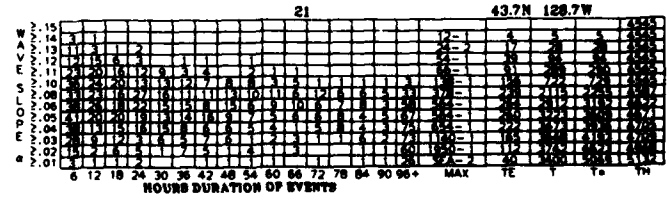




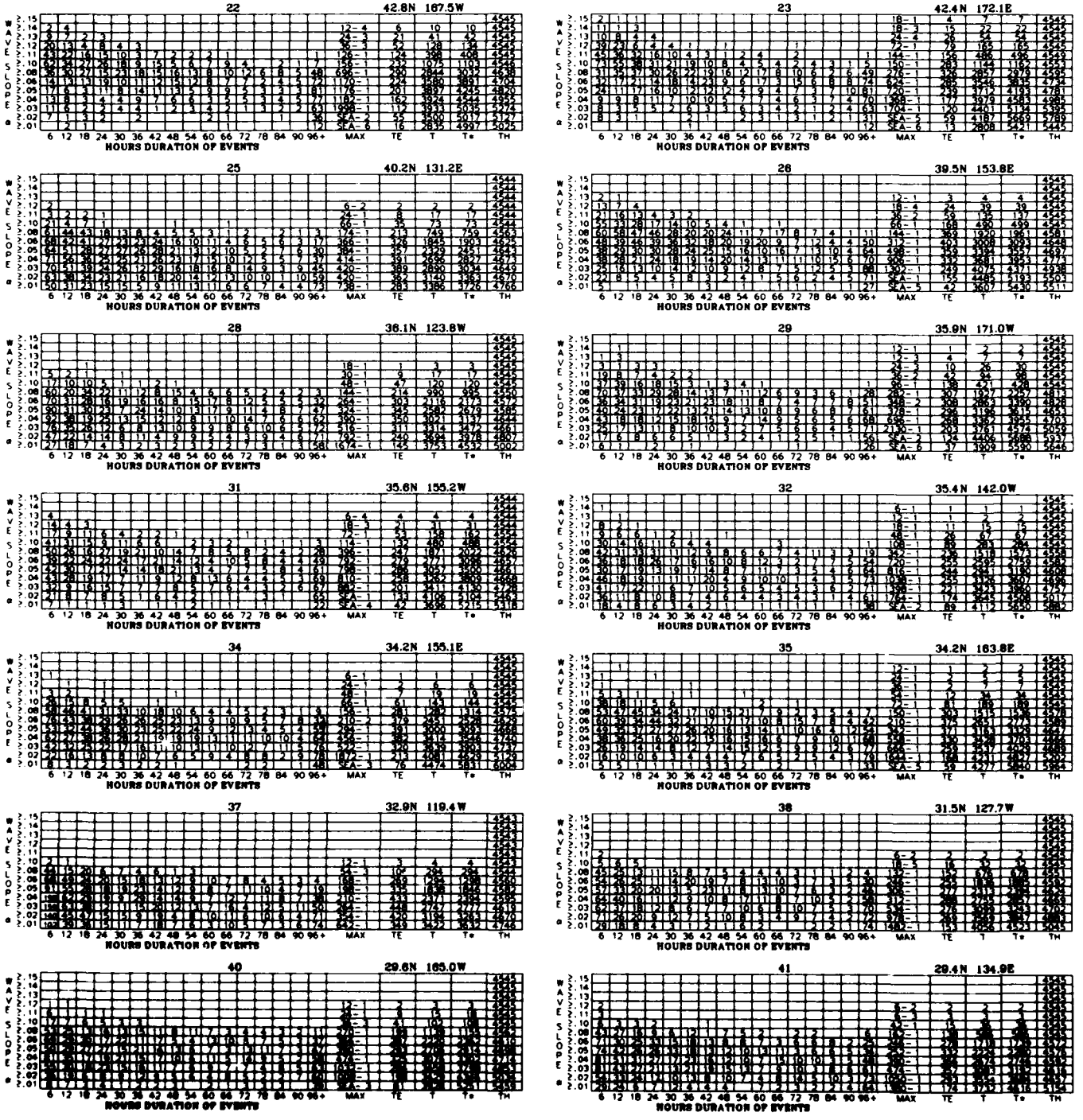


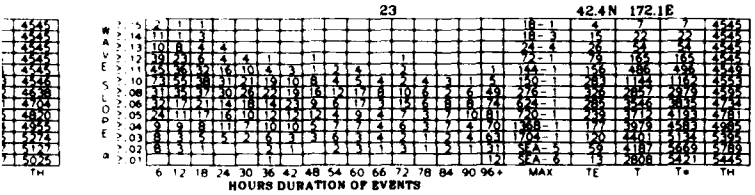


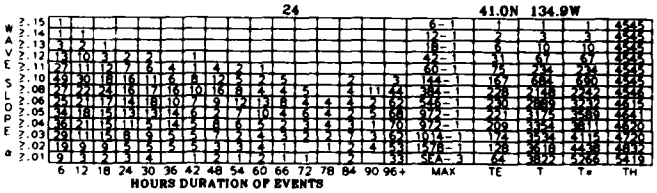


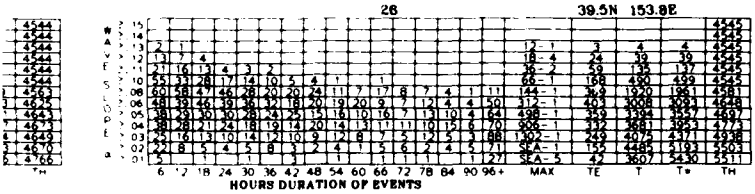


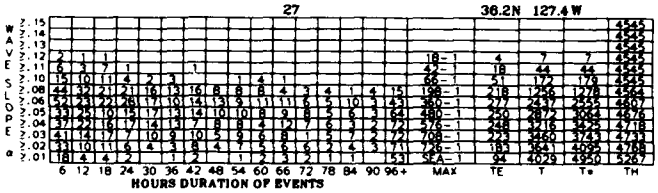
WAVE SLOPE (α) DURATIONS (Cont'd)

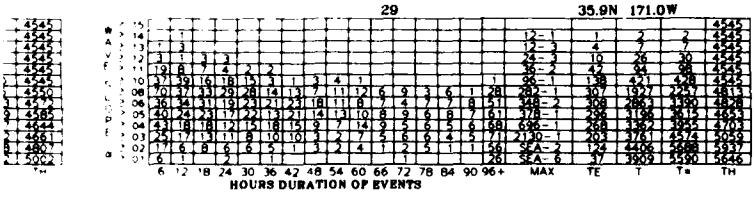


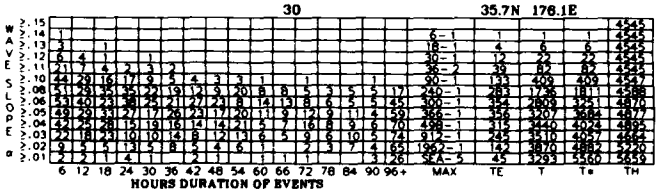

23
42.4N 172.1E
HOURS DURATION OF EVENTS

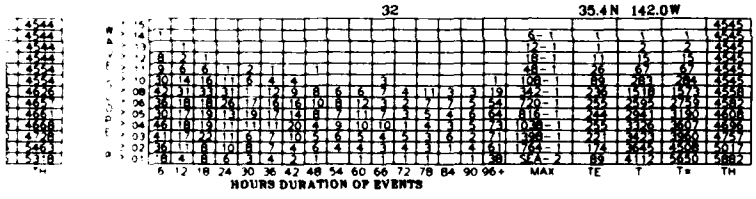

24
41.0N 134.9W
HOURS DURATION OF EVENTS

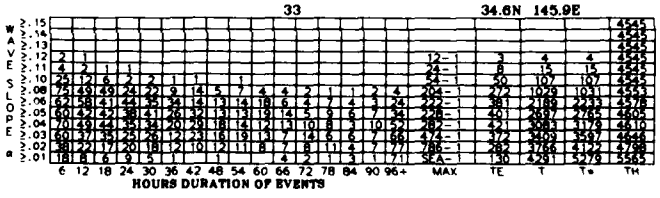

26
39.5N 153.8E
HOURS DURATION OF EVENTS

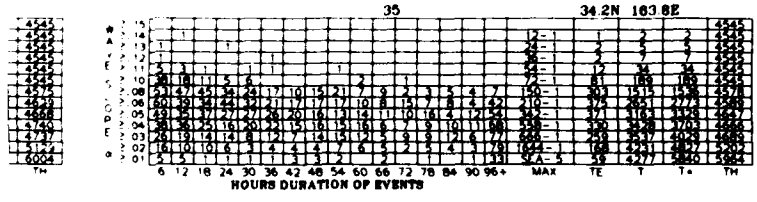

27
36.2N 127.4W
HOURS DURATION OF EVENTS

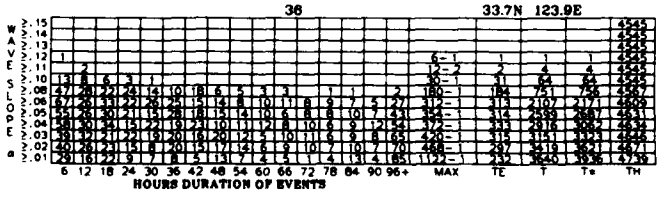

29
35.9N 171.0W
HOURS DURATION OF EVENTS

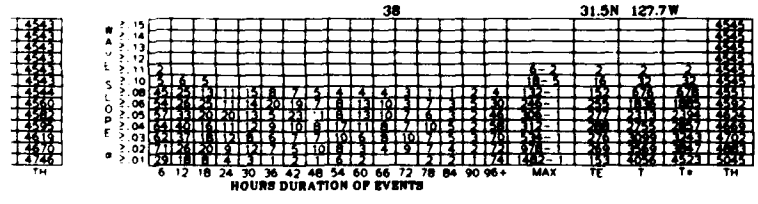

30
35.7N 176.1E
HOURS DURATION OF EVENTS

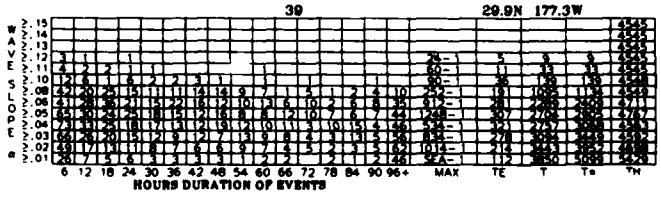

32
35.4N 142.0W
HOURS DURATION OF EVENTS

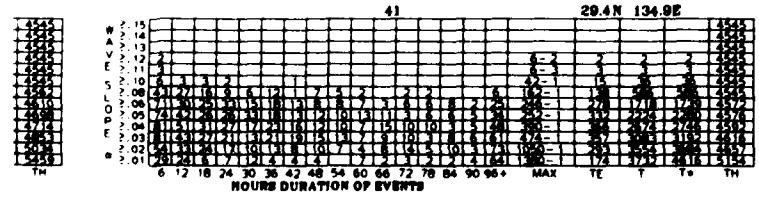

33
34.6N 145.9E
HOURS DURATION OF EVENTS

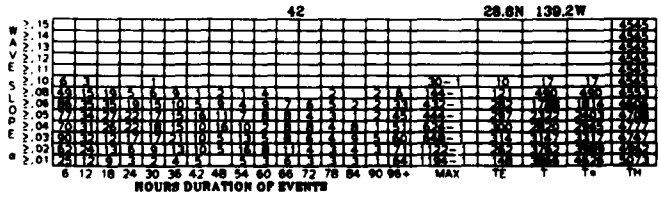

35
34.2N 163.6E
HOURS DURATION OF EVENTS


36
33.7N 123.9E
HOURS DURATION OF EVENTS


38
31.5N 127.7W
HOURS DURATION OF EVENTS


39
29.9N 177.3W
HOURS DURATION OF EVENTS

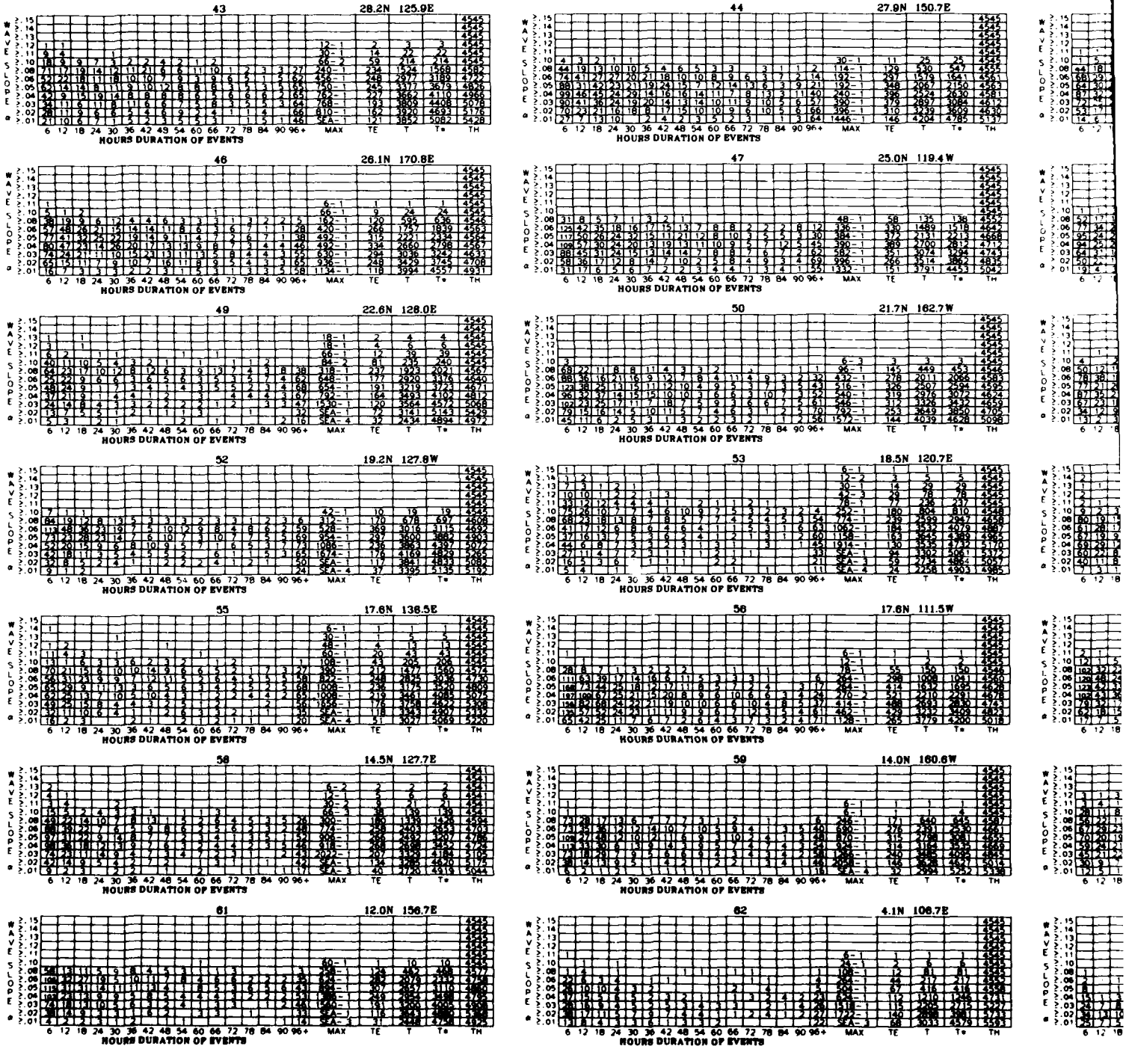

41
29.4N 134.9E
HOURS DURATION OF EVENTS


42
28.8N 139.2W
HOURS DURATION OF EVENTS

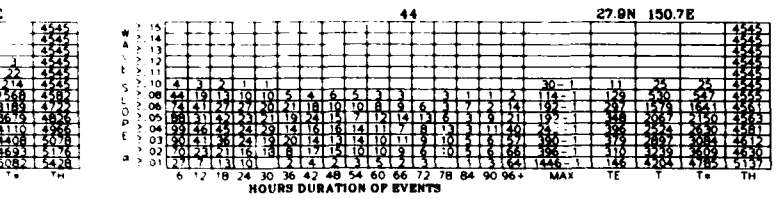
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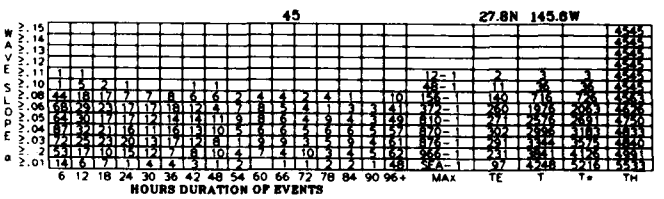
FALL

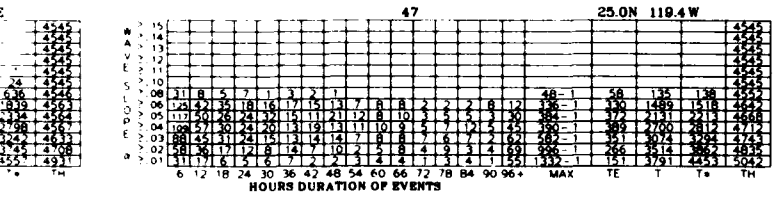
WAVE SLOPE (α)

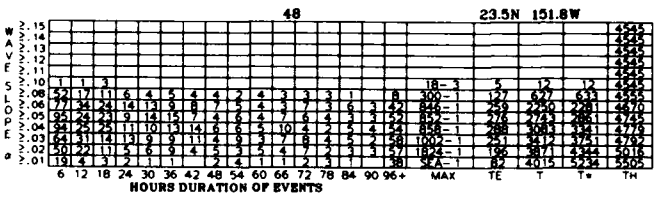


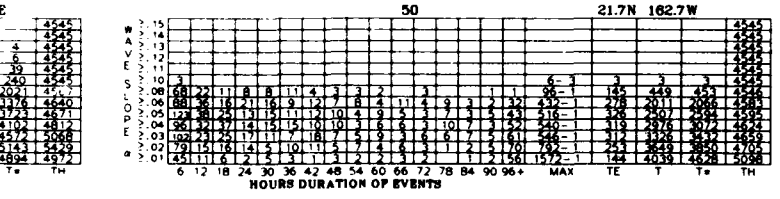
WAVE SLOPE (α) DURATIONS (Cont'd)

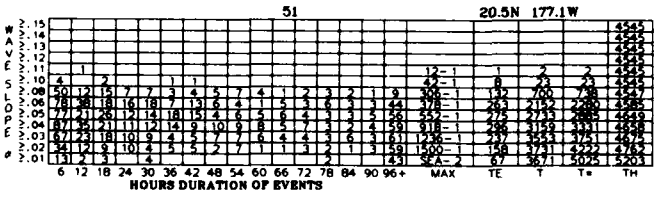


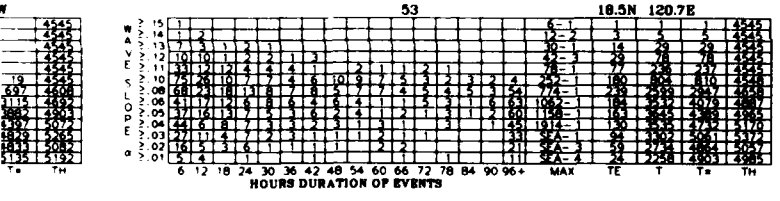


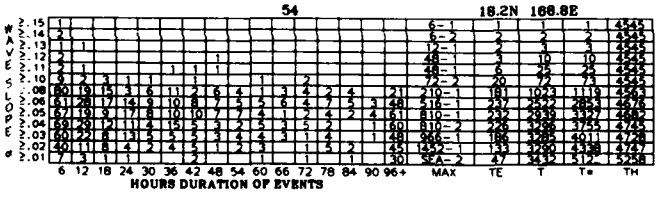


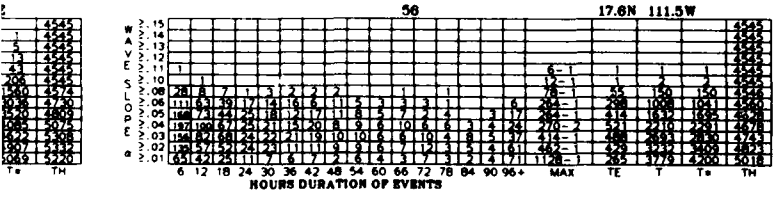


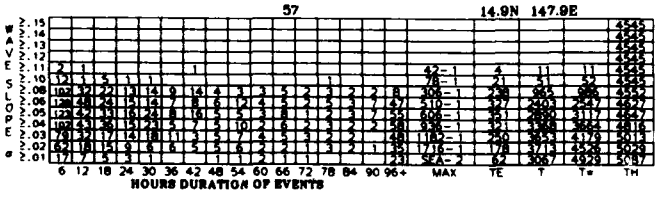


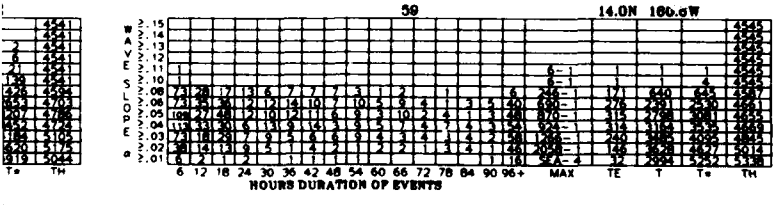


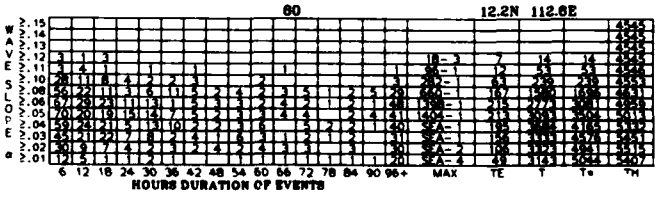


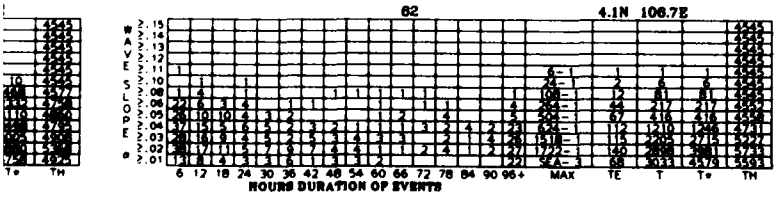


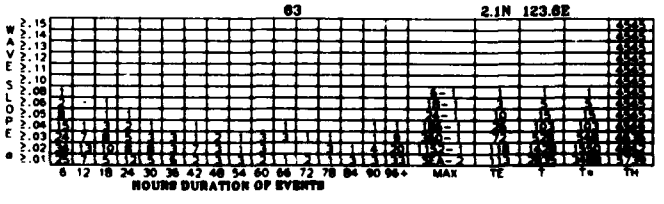




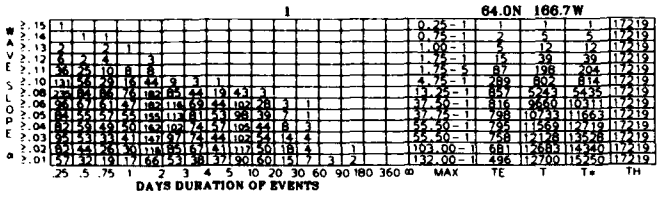


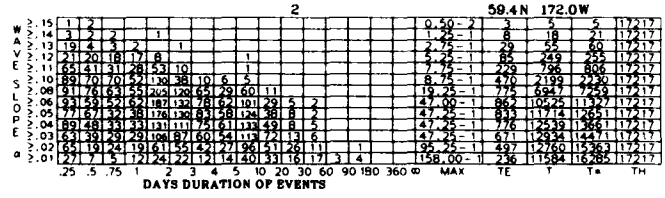


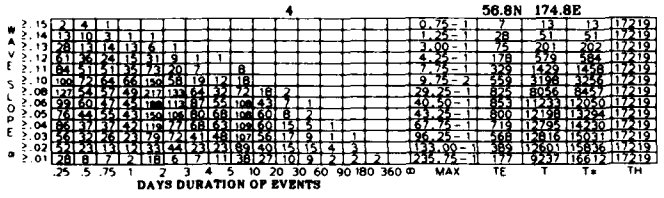


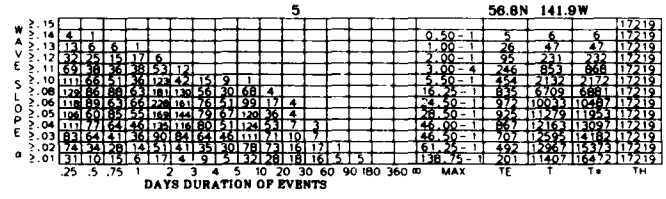


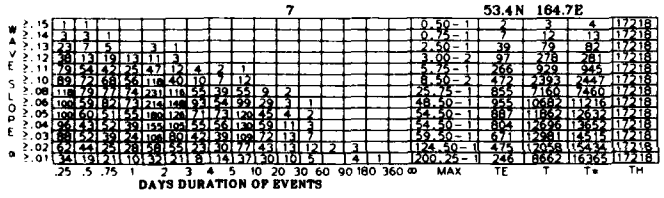
WAVE SLOPE (α) DURATIONS

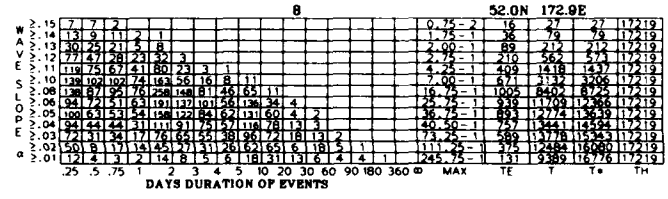


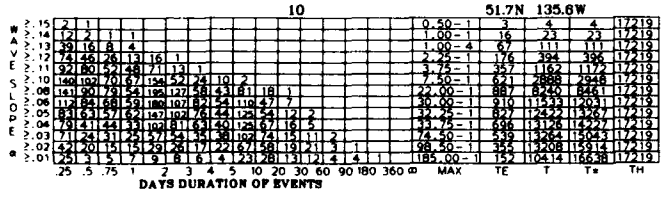


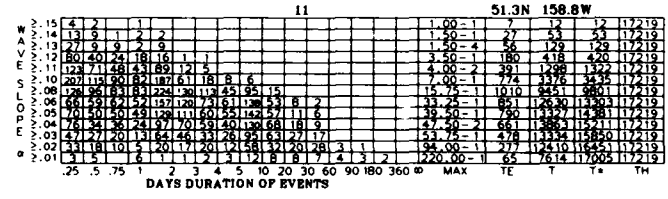


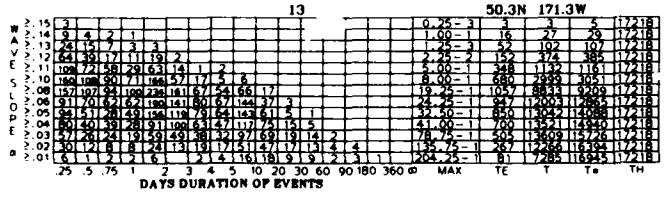


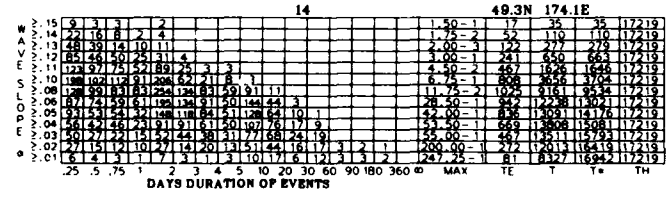


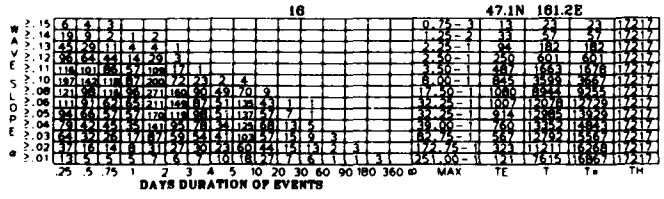


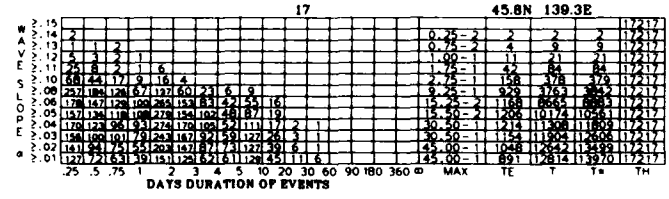


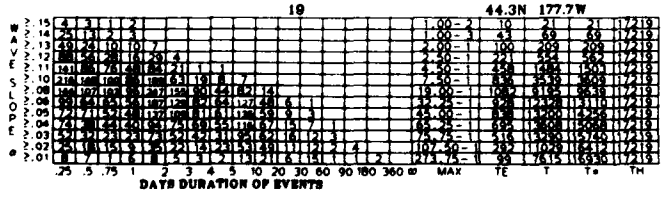


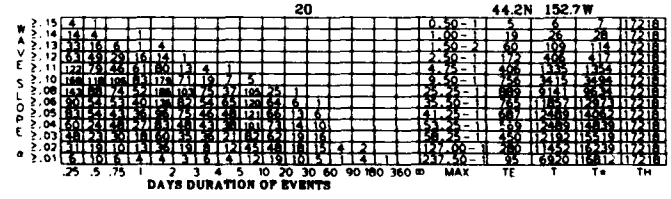


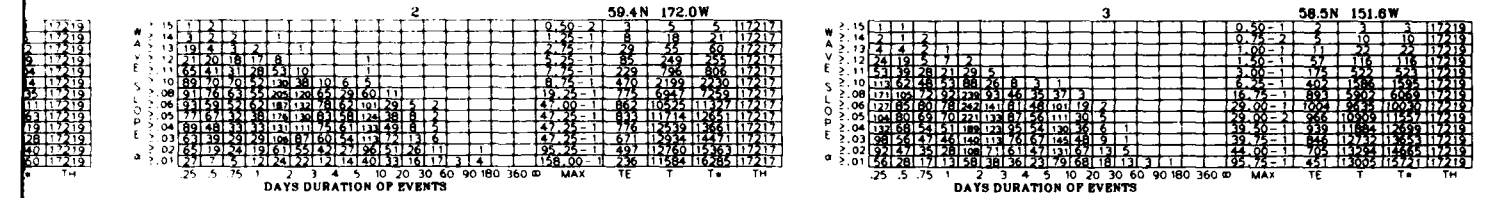


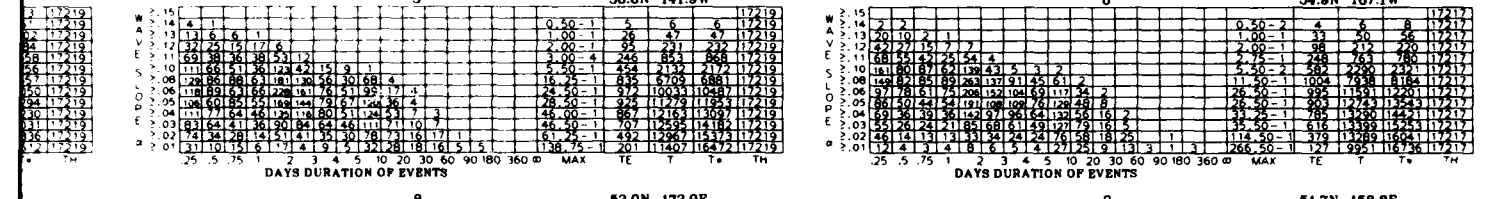


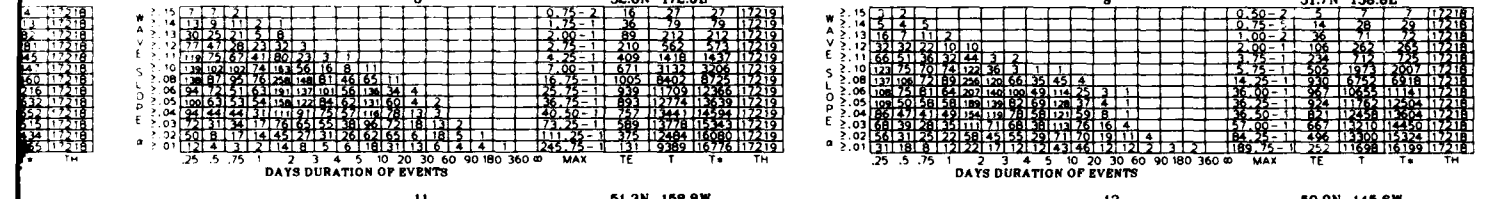


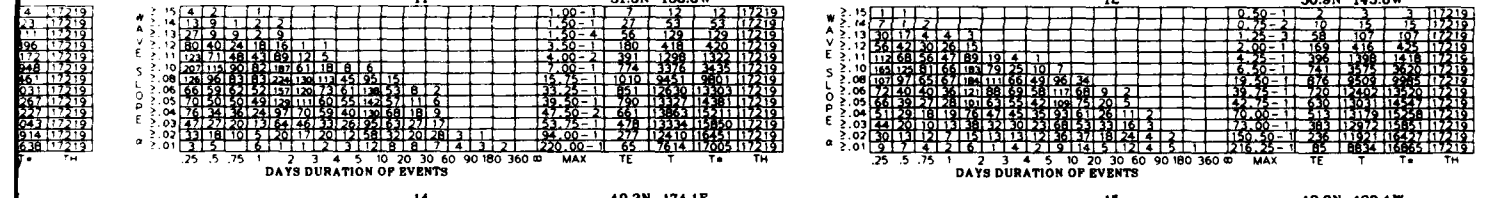


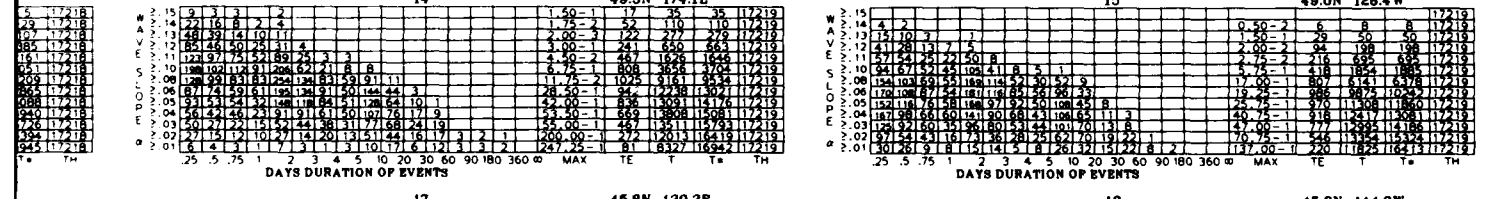


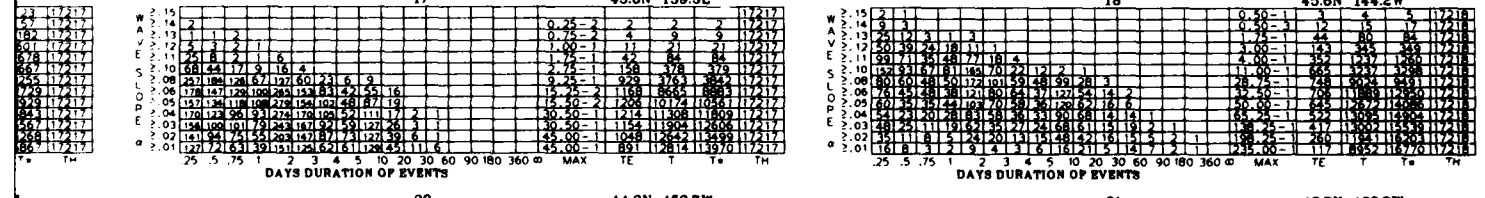

2
59.4N 172.0W
3
58.5N 151.6W
DAYS DURATION OF EVENTS

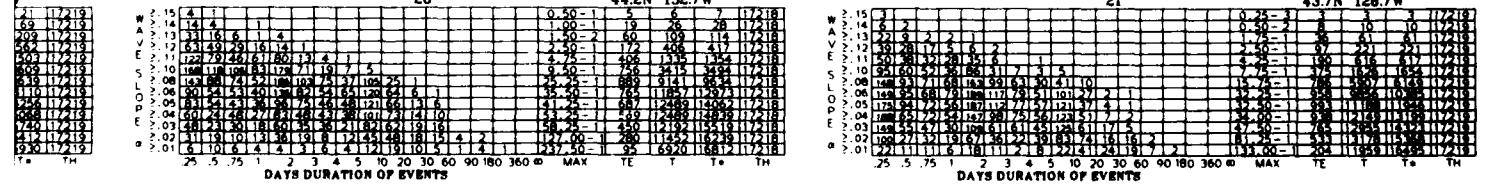

5
56.8N 141.9W
6
54.9N 167.1W
DAYS DURATION OF EVENTS


8
52.0N 172.9E
9
51.7N 158.8E
DAYS DURATION OF EVENTS

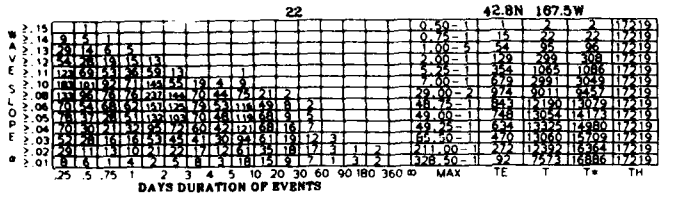

11
51.3N 158.8W
12
50.9N 145.6W
DAYS DURATION OF EVENTS

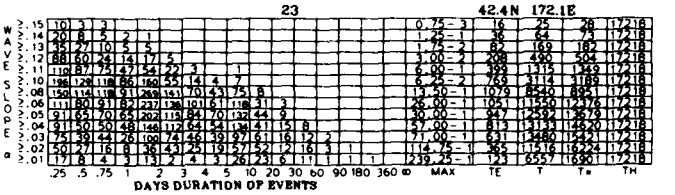

14
49.3N 174.1E
15
49.0N 128.4W
DAYS DURATION OF EVENTS

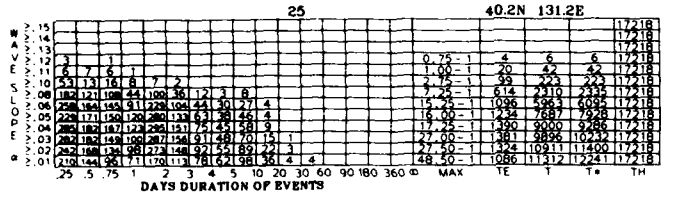

17
45.8N 139.3E
18
45.6N 144.2W
DAYS DURATION OF EVENTS

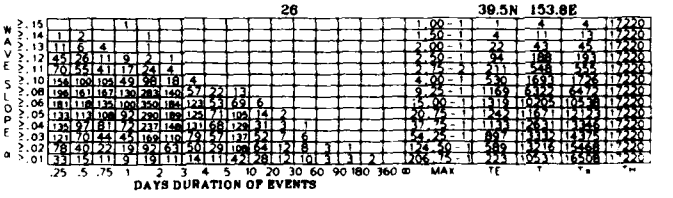

20
44.2N 152.7W
21
43.7N 128.7W
DAYS DURATION OF EVENTS

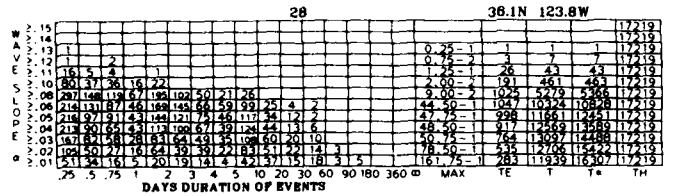
ANNUAL WAVE SLOPE (α) [

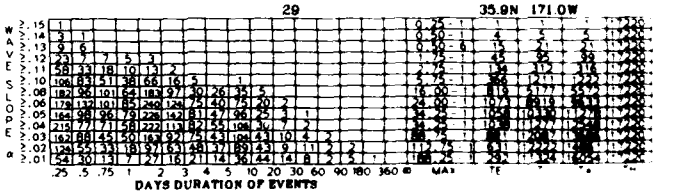


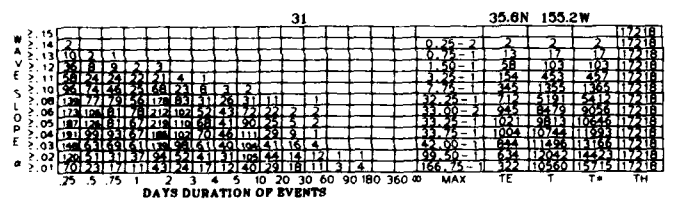


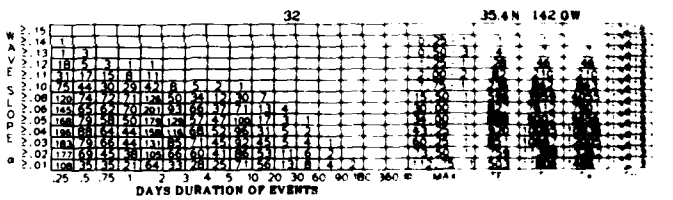


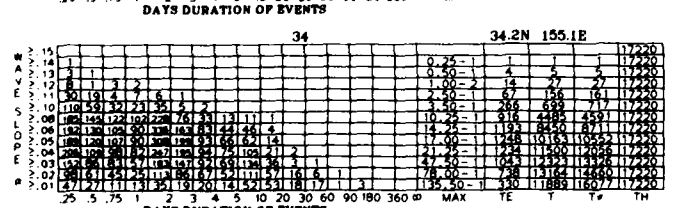


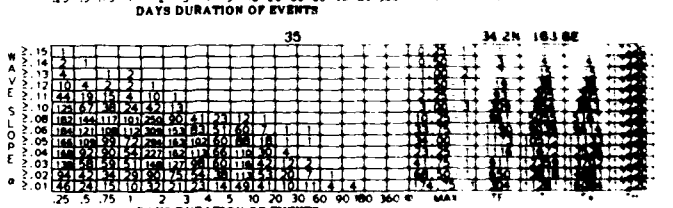


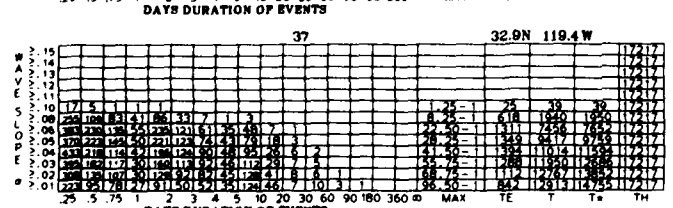


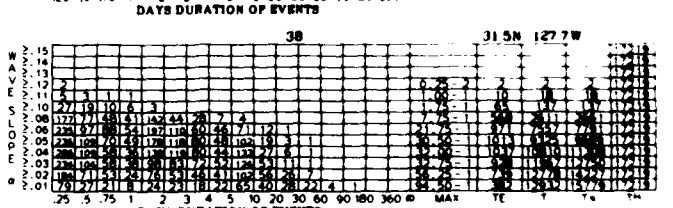


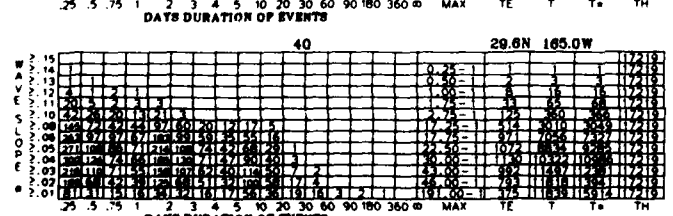


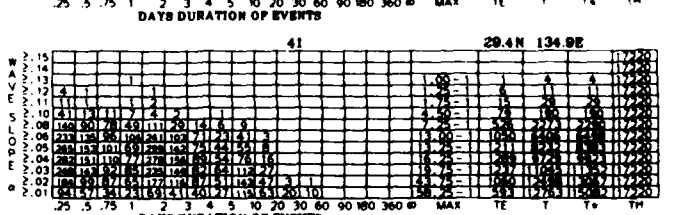




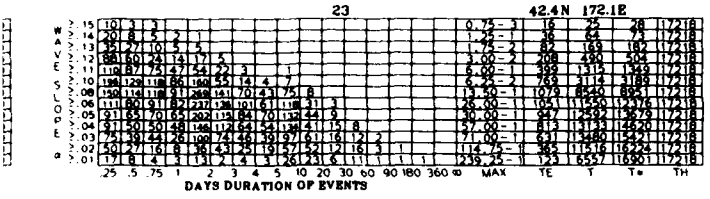


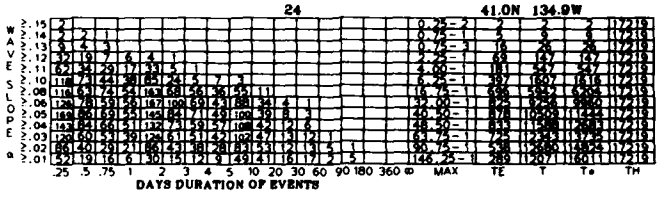


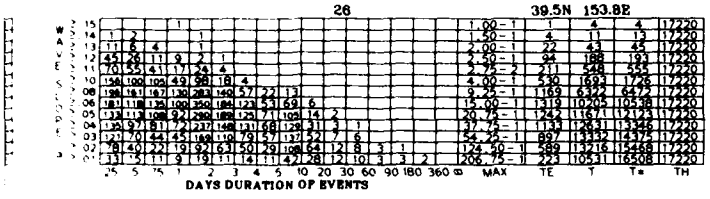


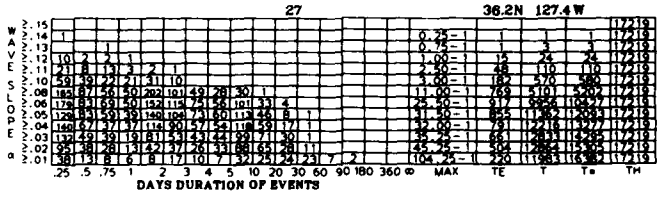


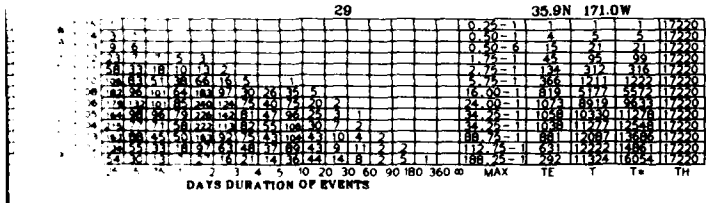
WAVE SLOPE (α) DURATIONS (Cont'd)

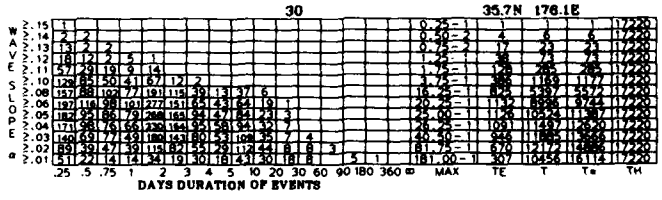


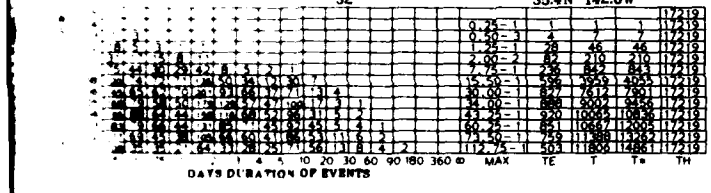


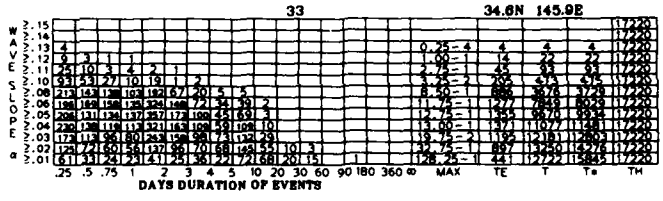


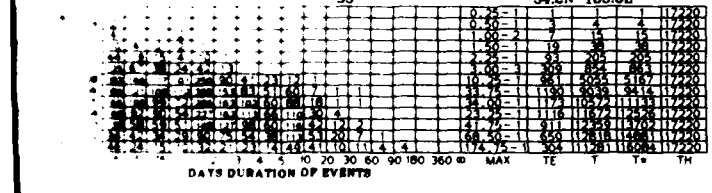


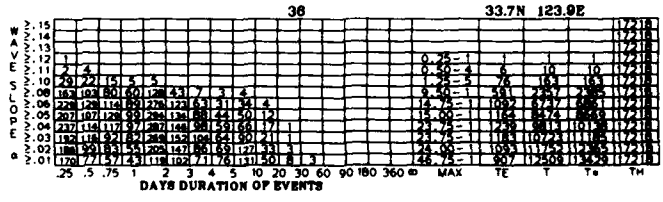


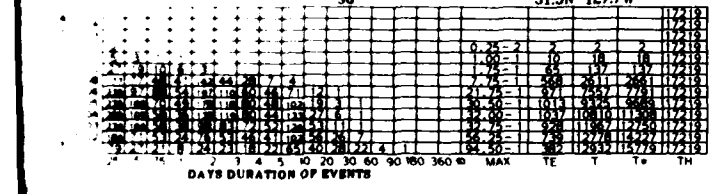


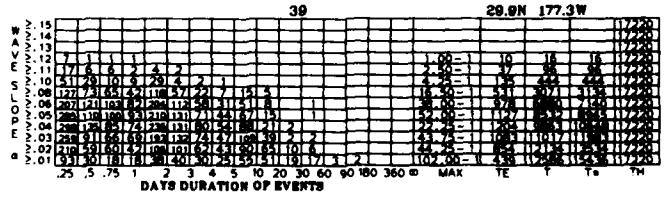


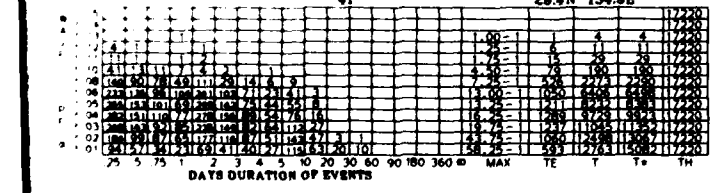


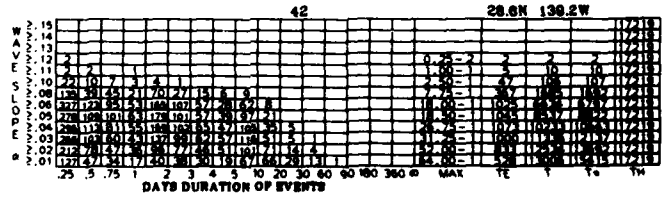




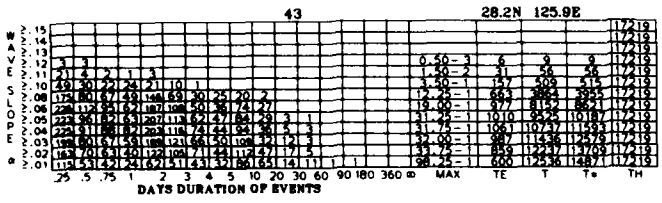


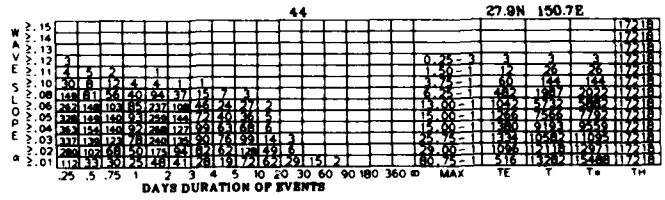


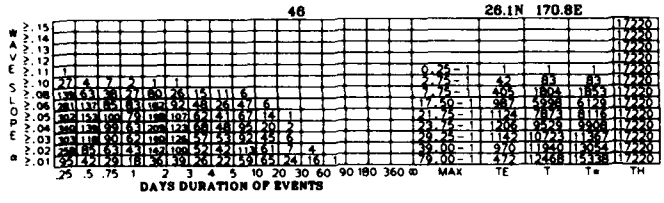


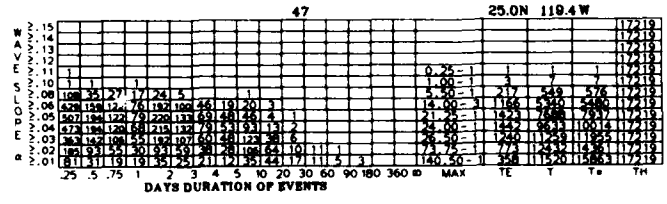


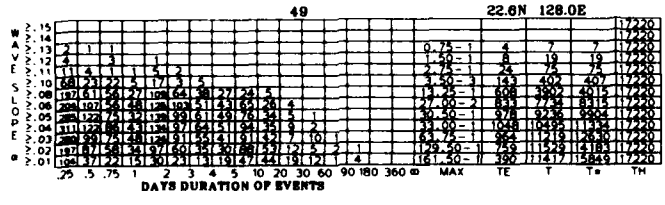
WAVE SLOPE (α) DURATIONS (Cont'd)

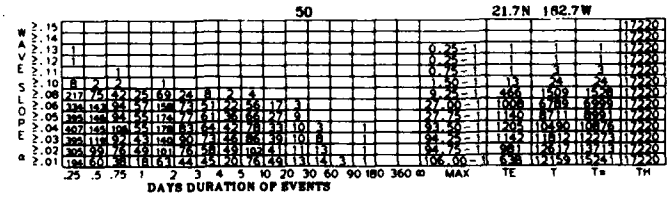


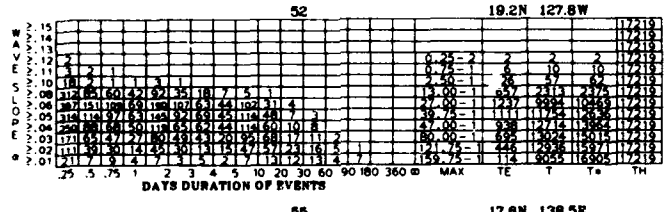


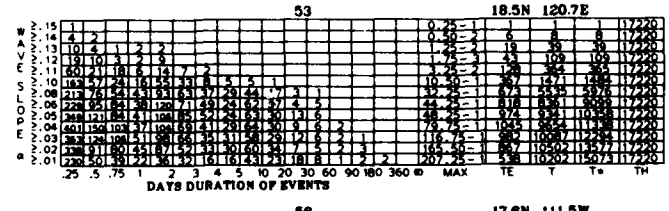


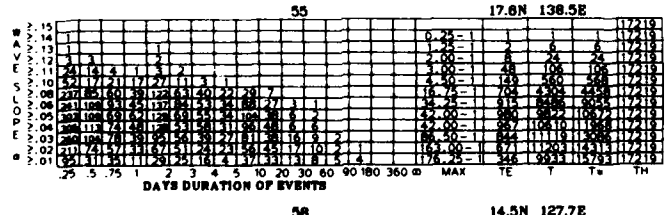


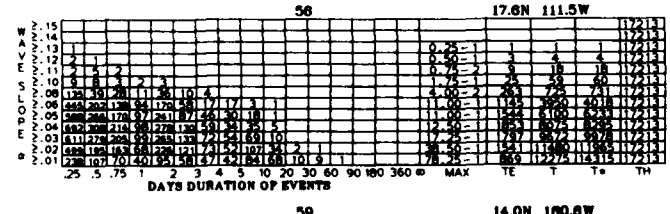


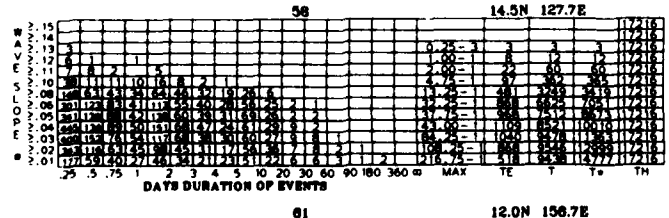


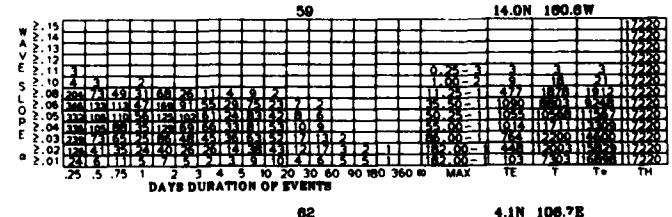


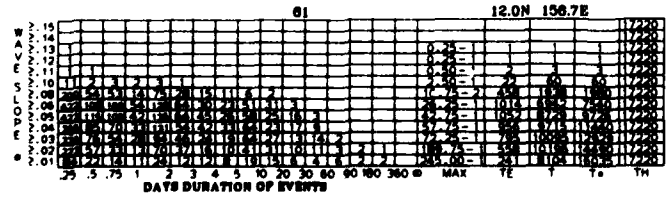


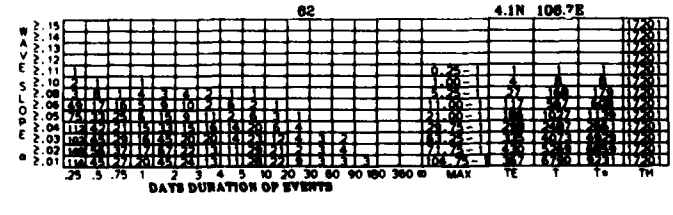


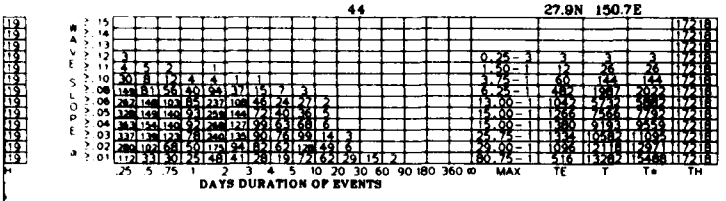


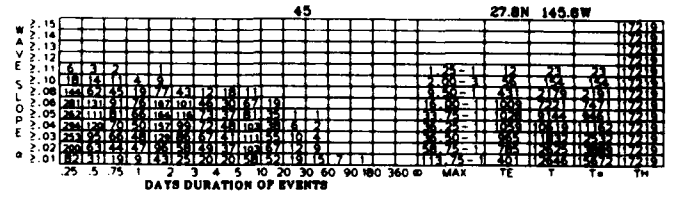


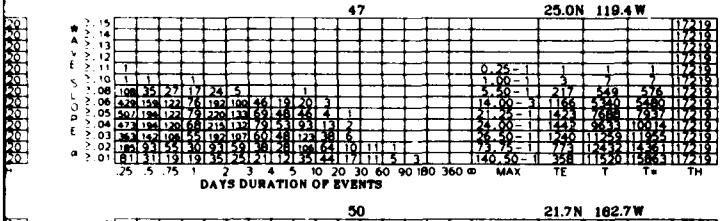


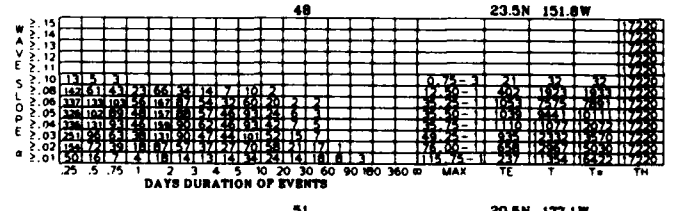


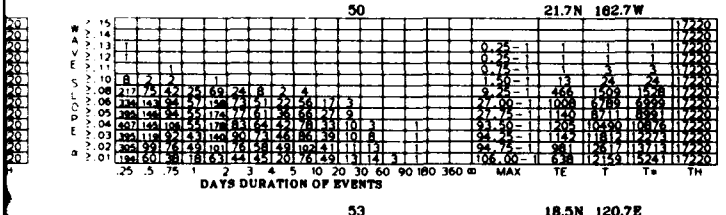


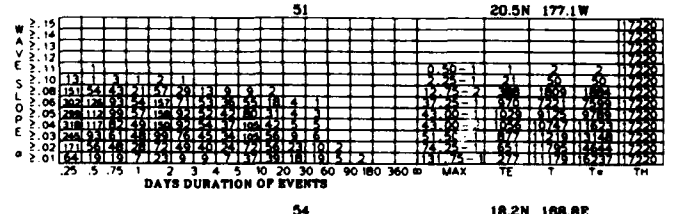

44
27.9N 150.7E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

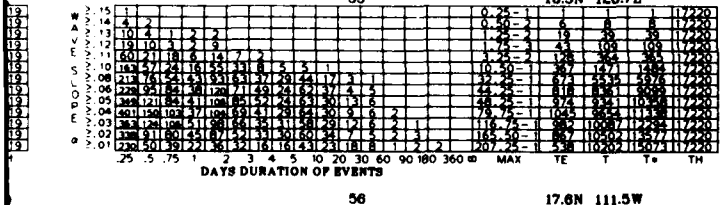

45
27.8N 145.6W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

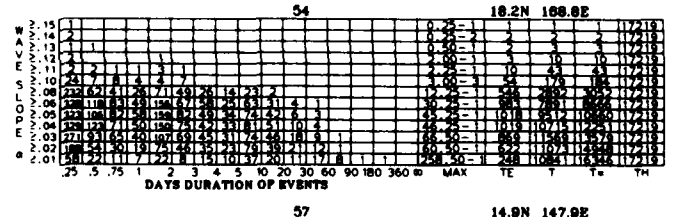

47
25.0N 119.4W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

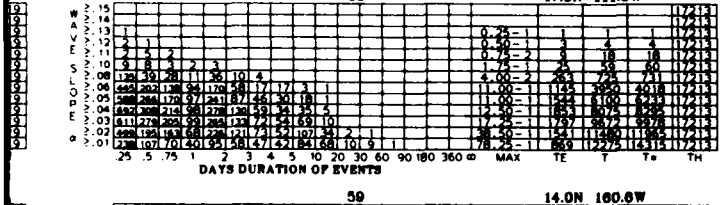

48
23.5N 151.8W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

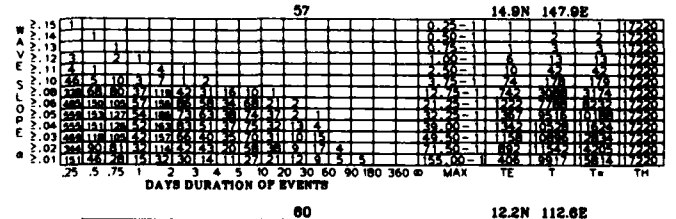

50
21.7N 162.7W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

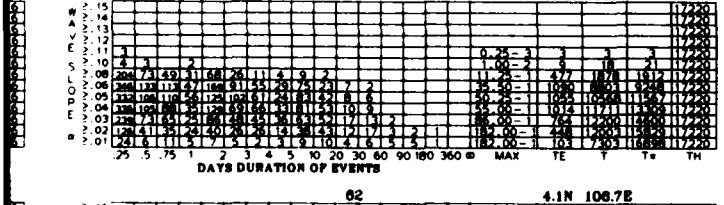

51
20.5N 177.1W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

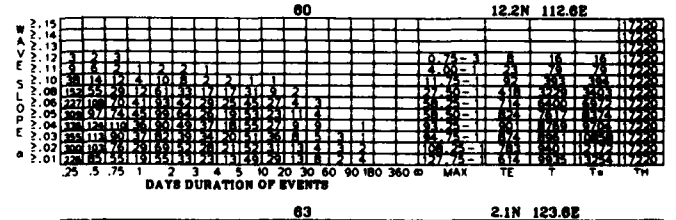

53
18.5N 120.7E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

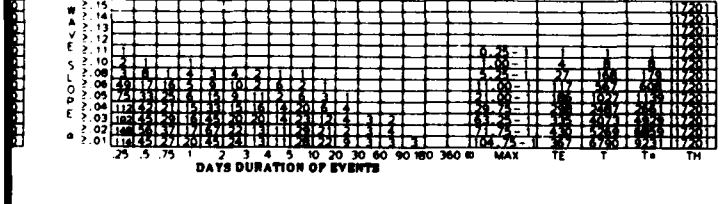

54
18.2N 168.8E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

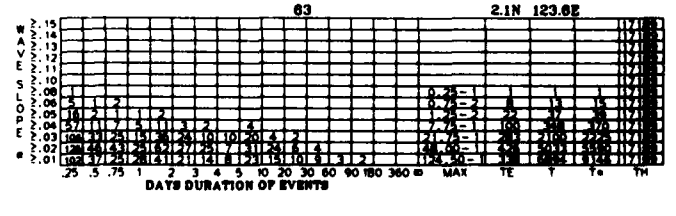

56
17.6N 111.5W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH


57
14.9N 147.9E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH


59
14.0N 160.6W
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

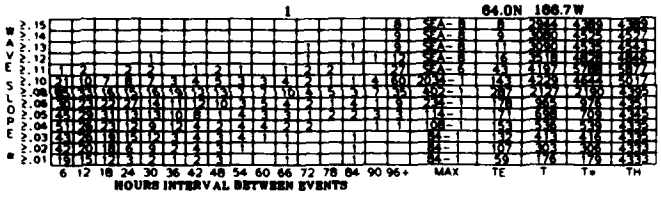

60
12.2N 112.6E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

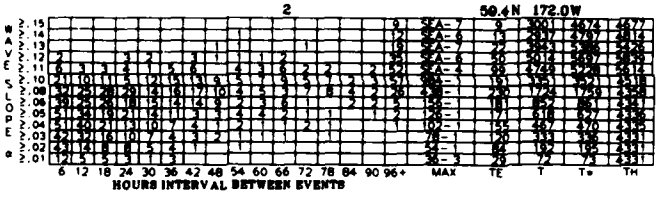

62
4.1N 106.7E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

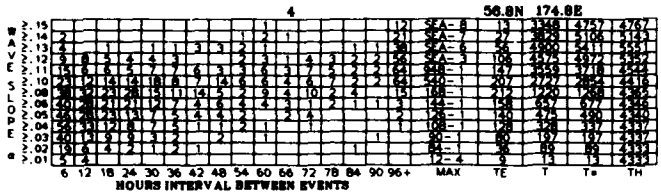

63
2.1N 123.6E
WAVE SLOPE
DAYS DURATION OF EVENTS
MAX TE T Te TH

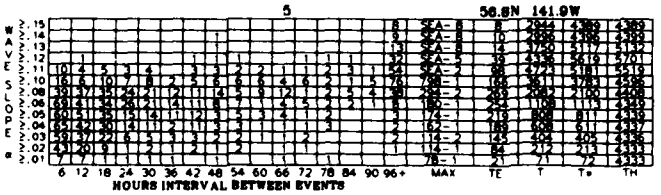
WINTER

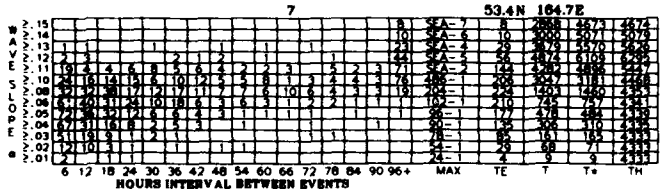
WAVE SL

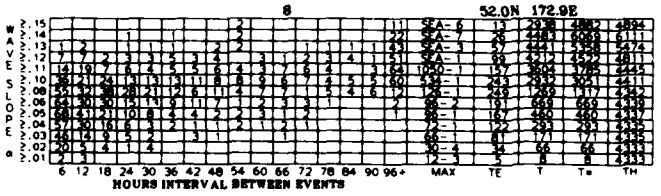


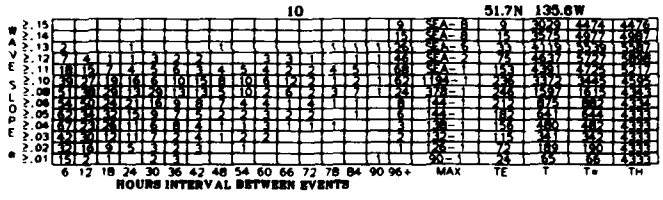


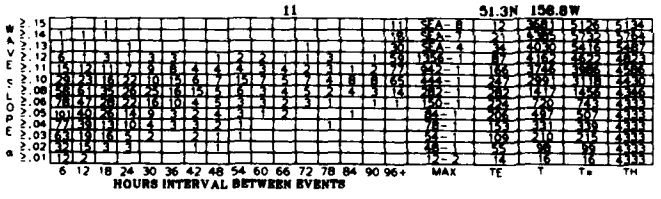


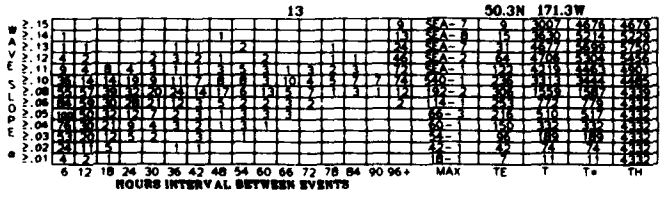


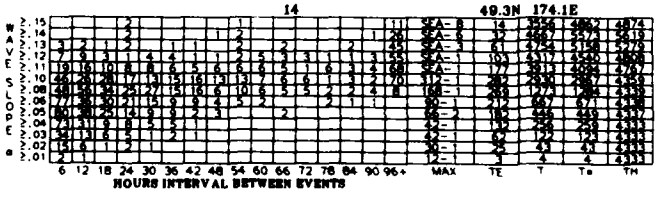


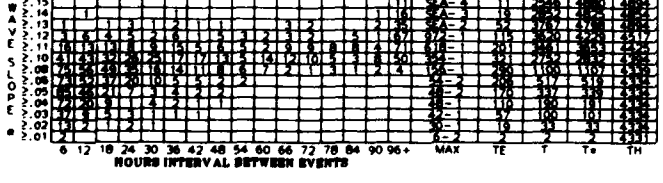


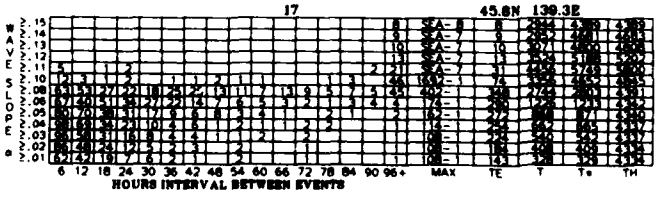


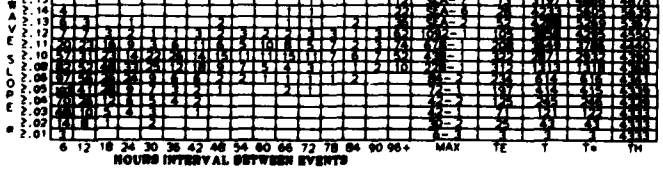






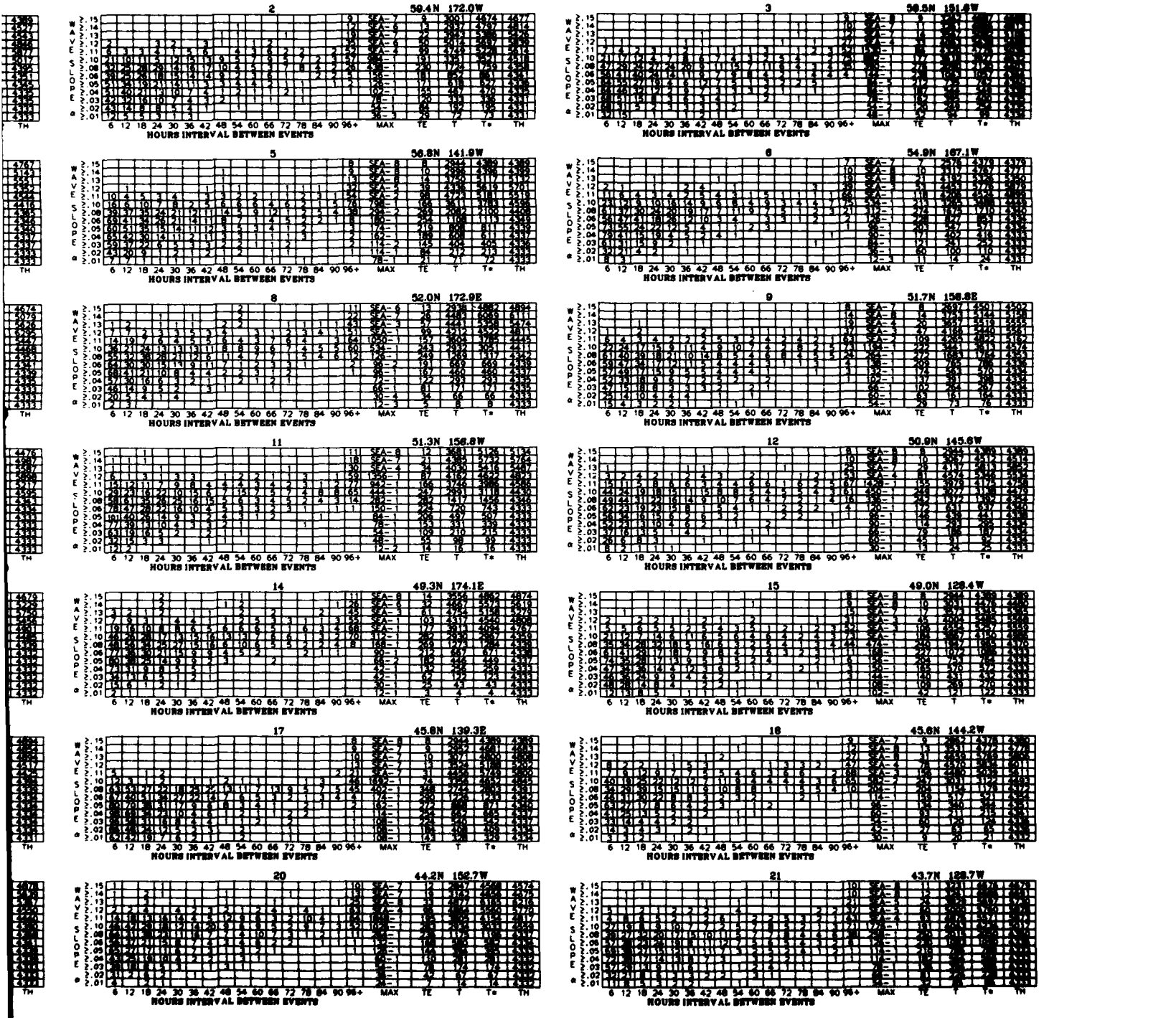




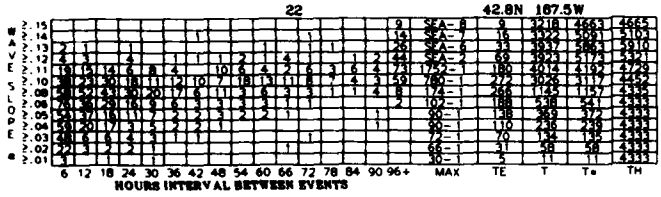


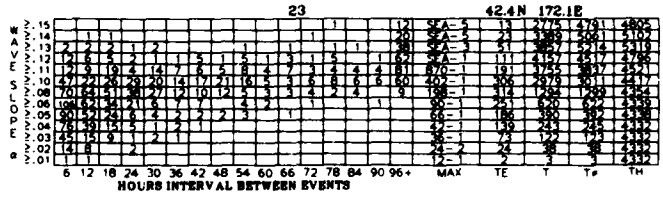


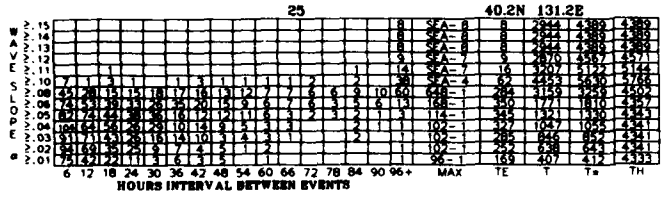
WAVE SLOPE (α) INTERVALS

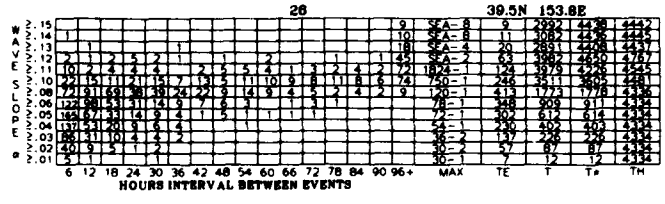


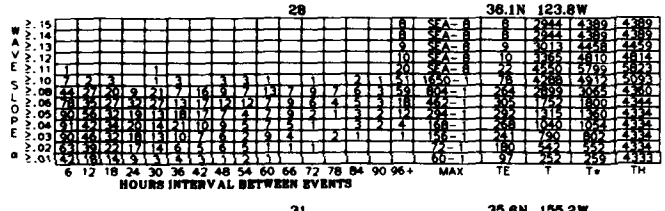
WAVE SLOPE (α) INTERVALS (Cont'd)

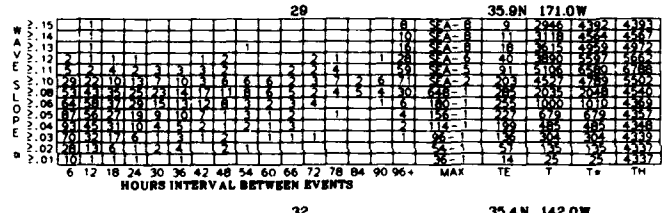


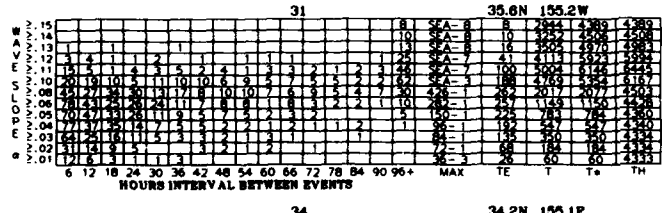


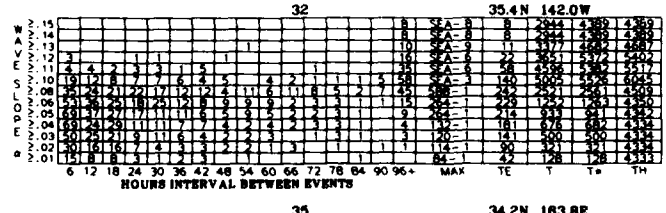


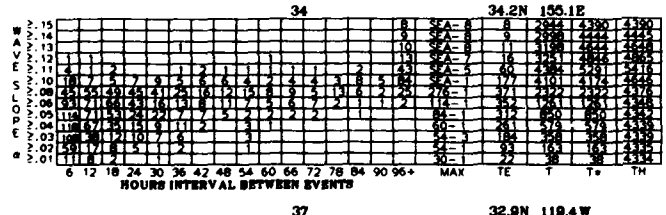


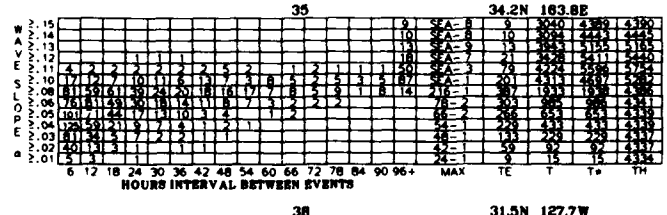


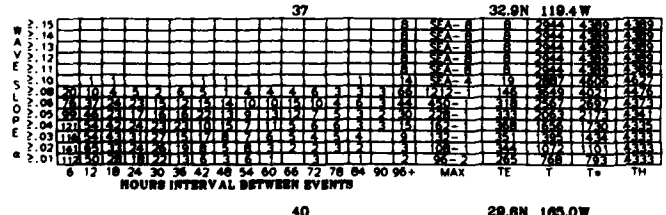


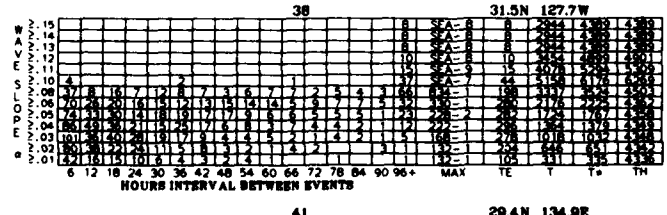


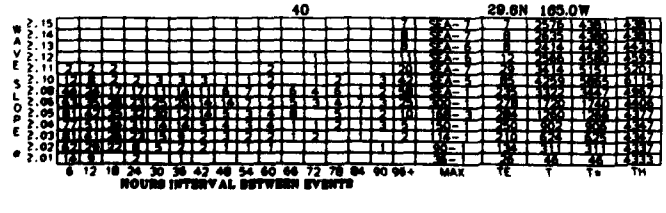


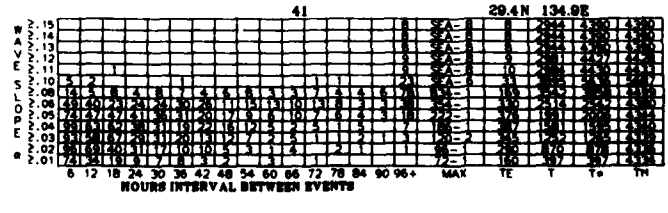






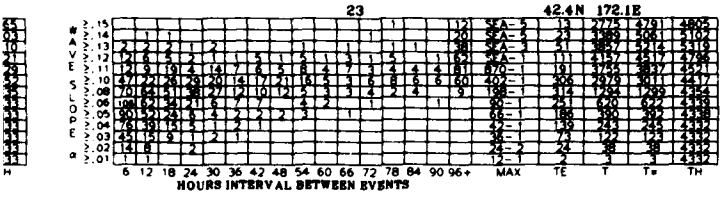


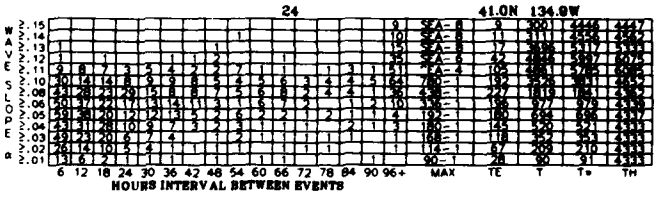


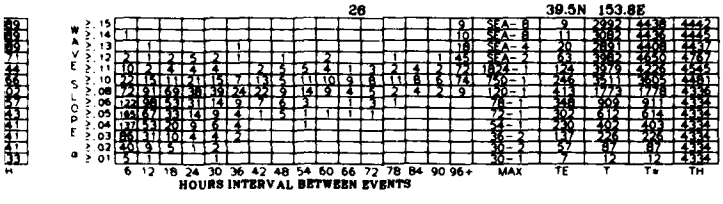


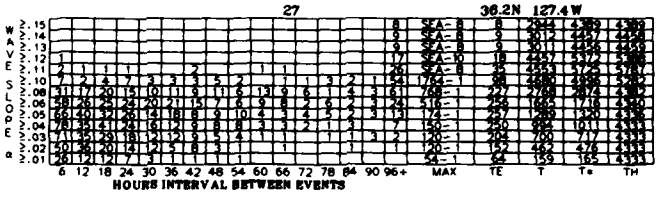
VALS (Cont'd)

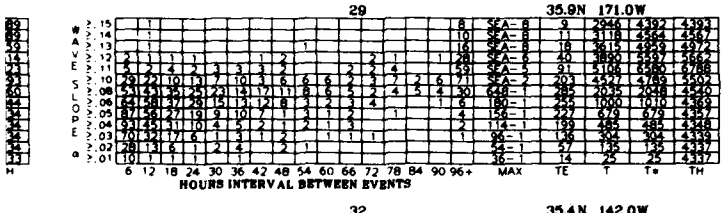
WINTER

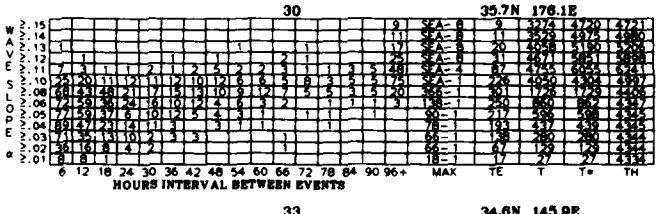


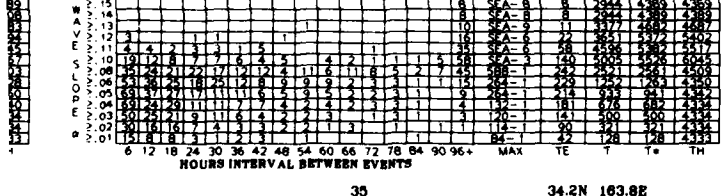


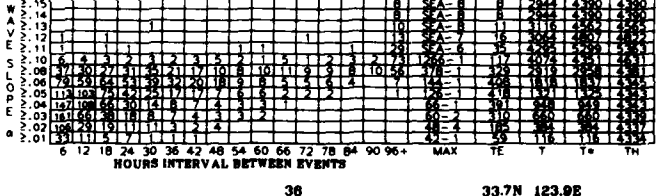


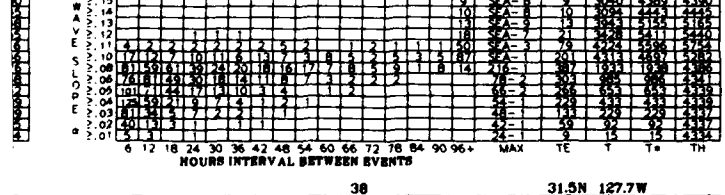


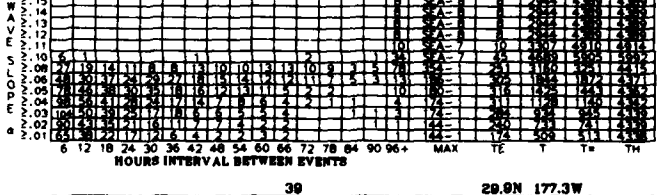


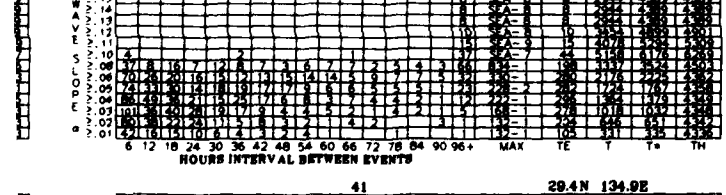


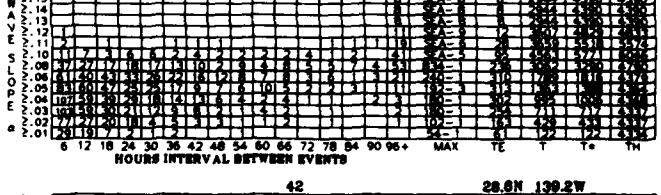


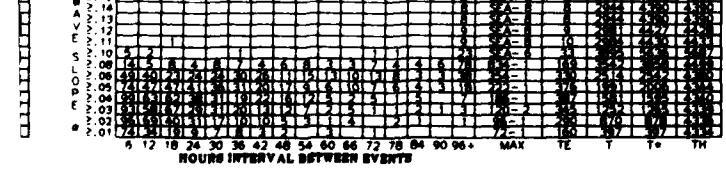








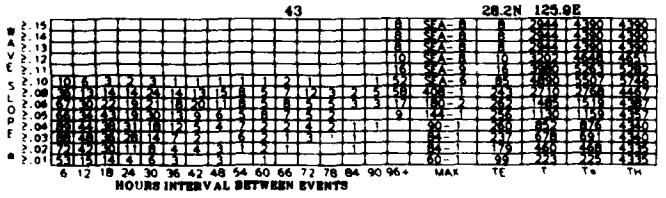


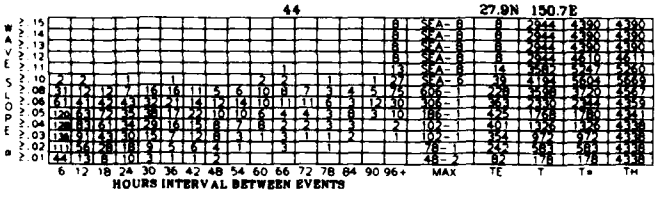


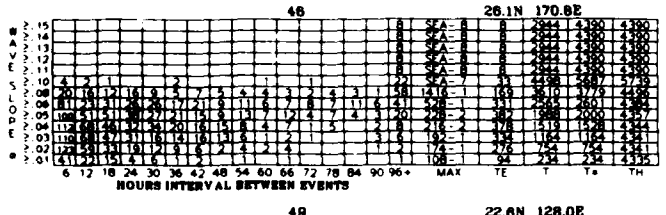


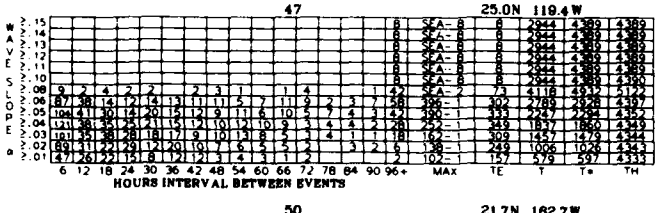
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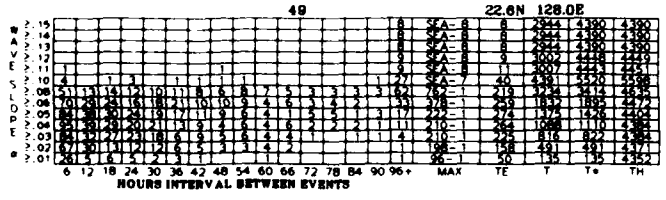
WAVE SLOPE (α)

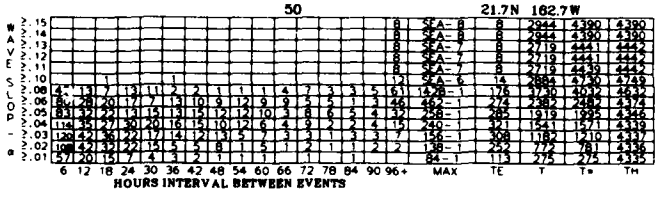


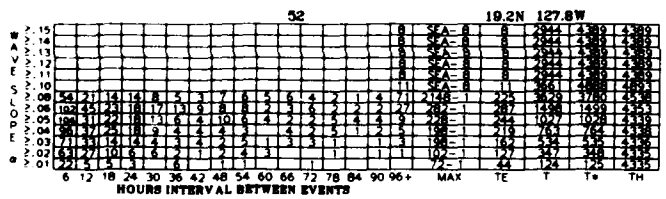


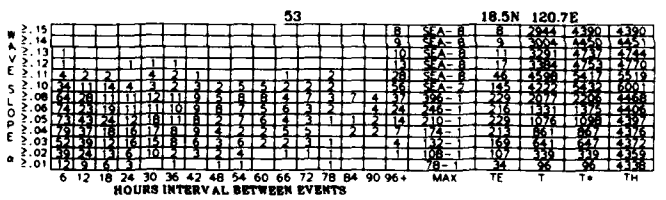


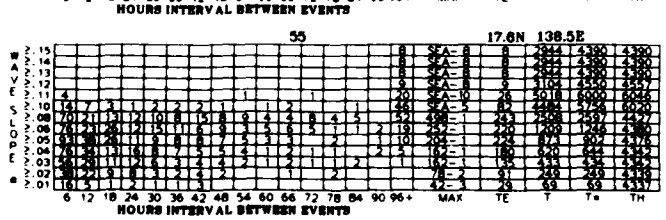


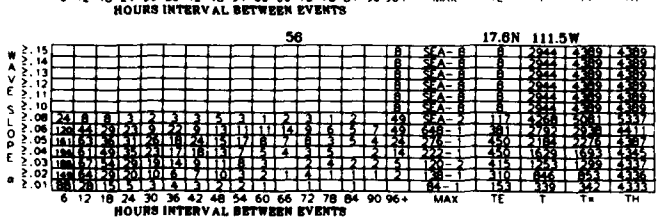


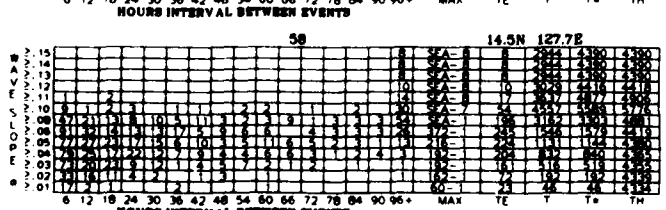


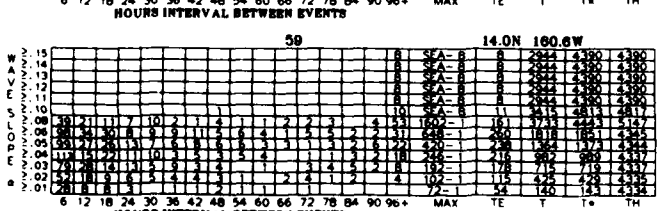


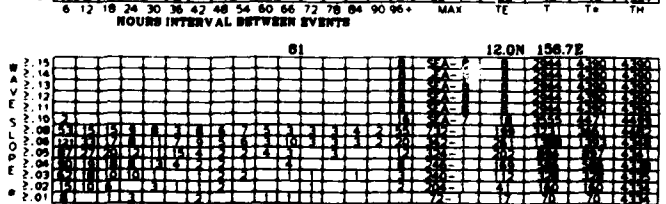


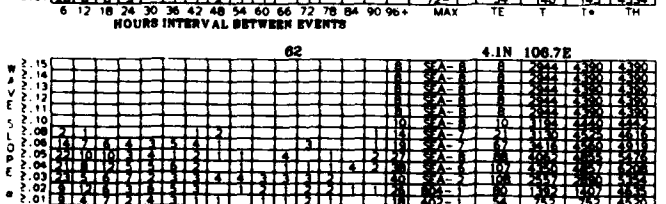




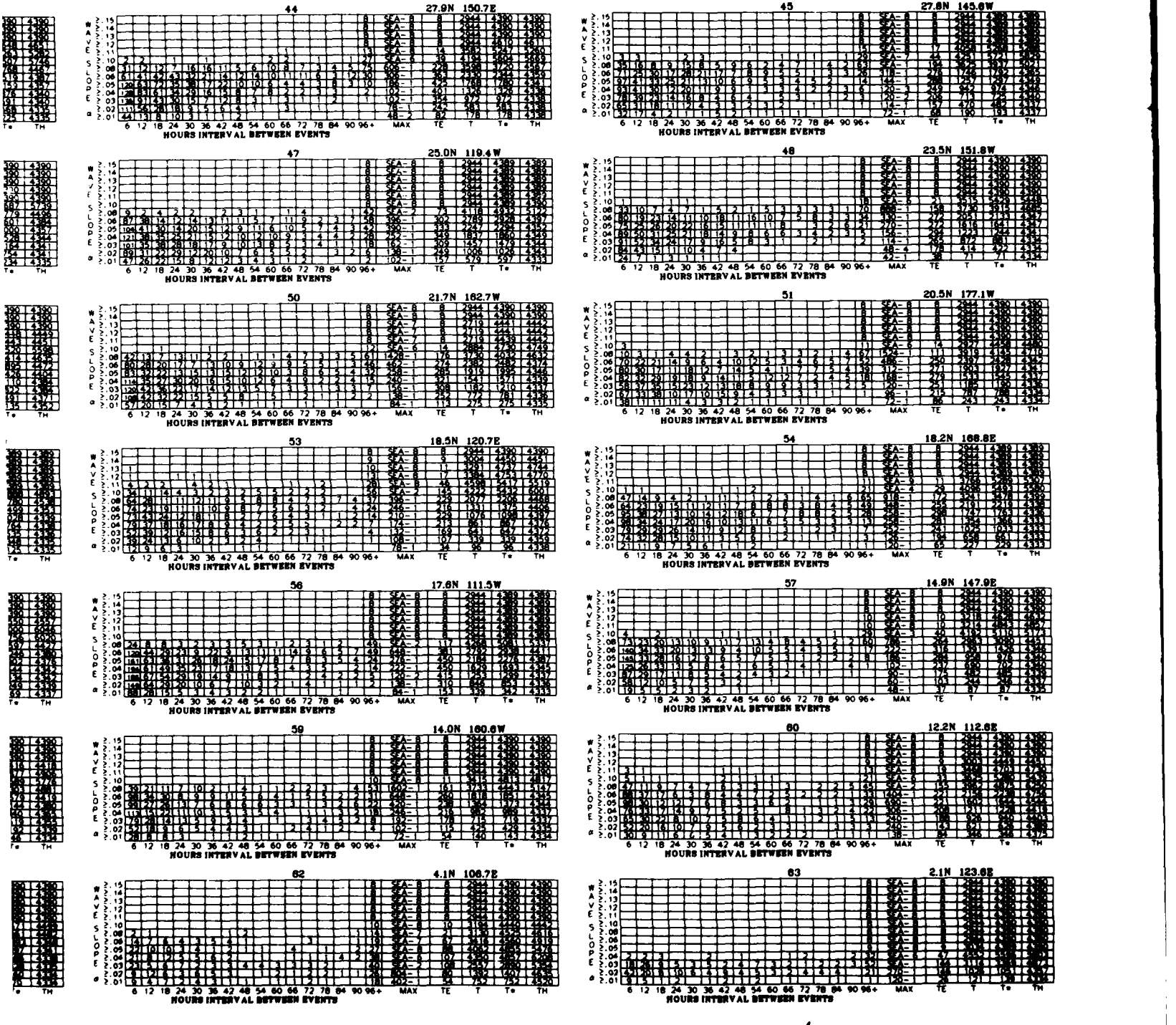




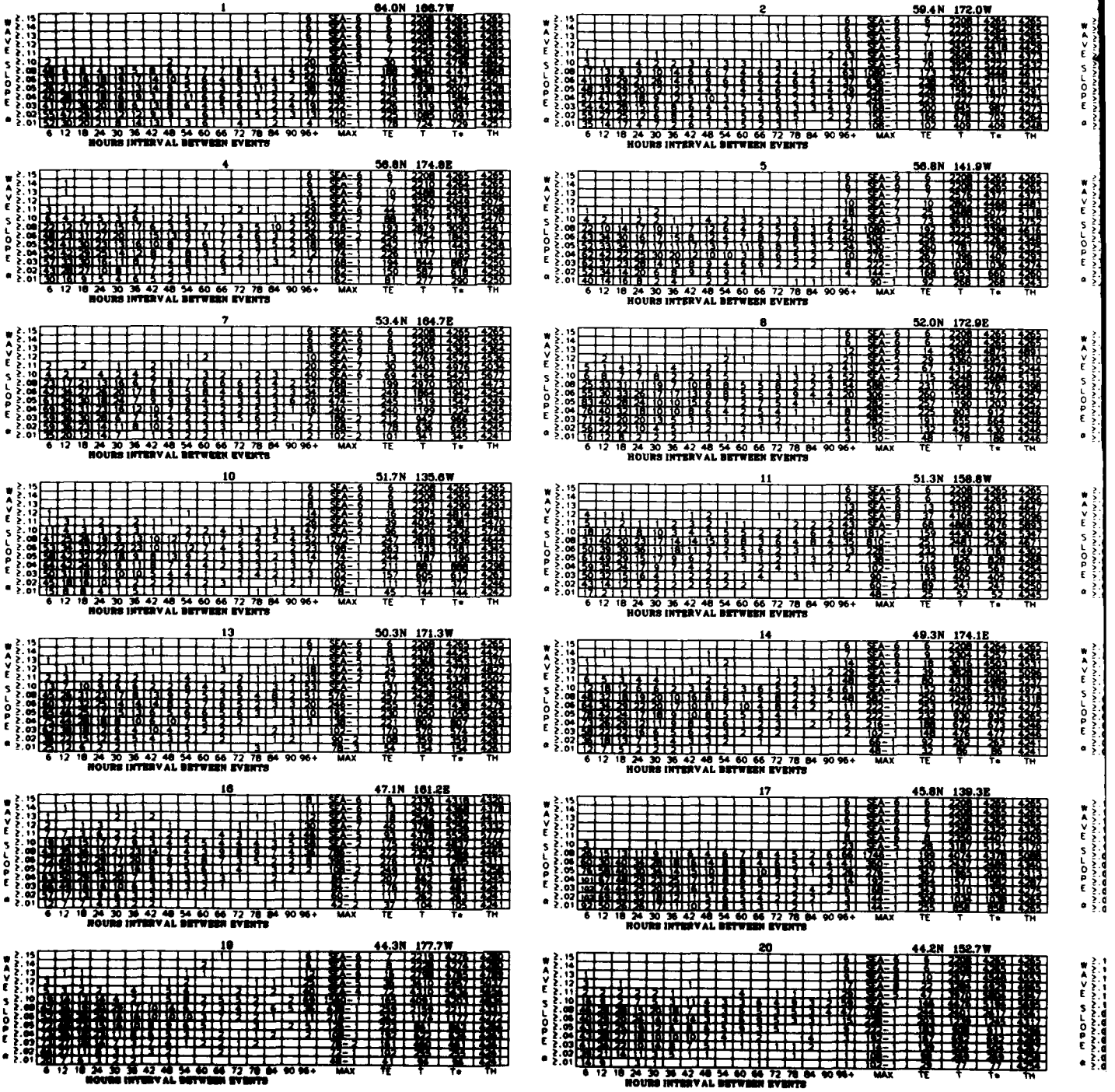


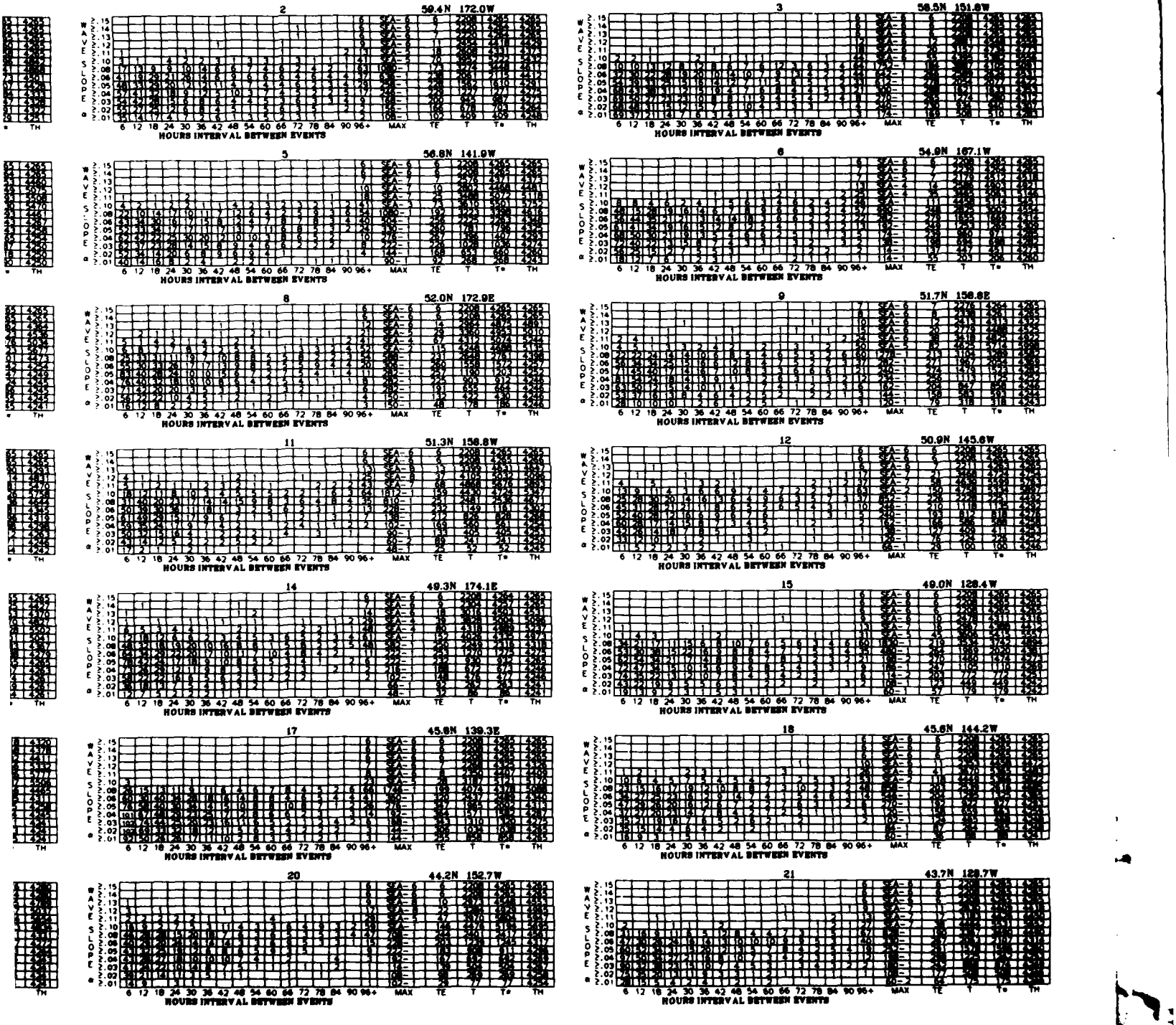


WAVE SLOPE (α) INTERVALS (Cont'd)



WAVE SLOPE (α) INTERVALS

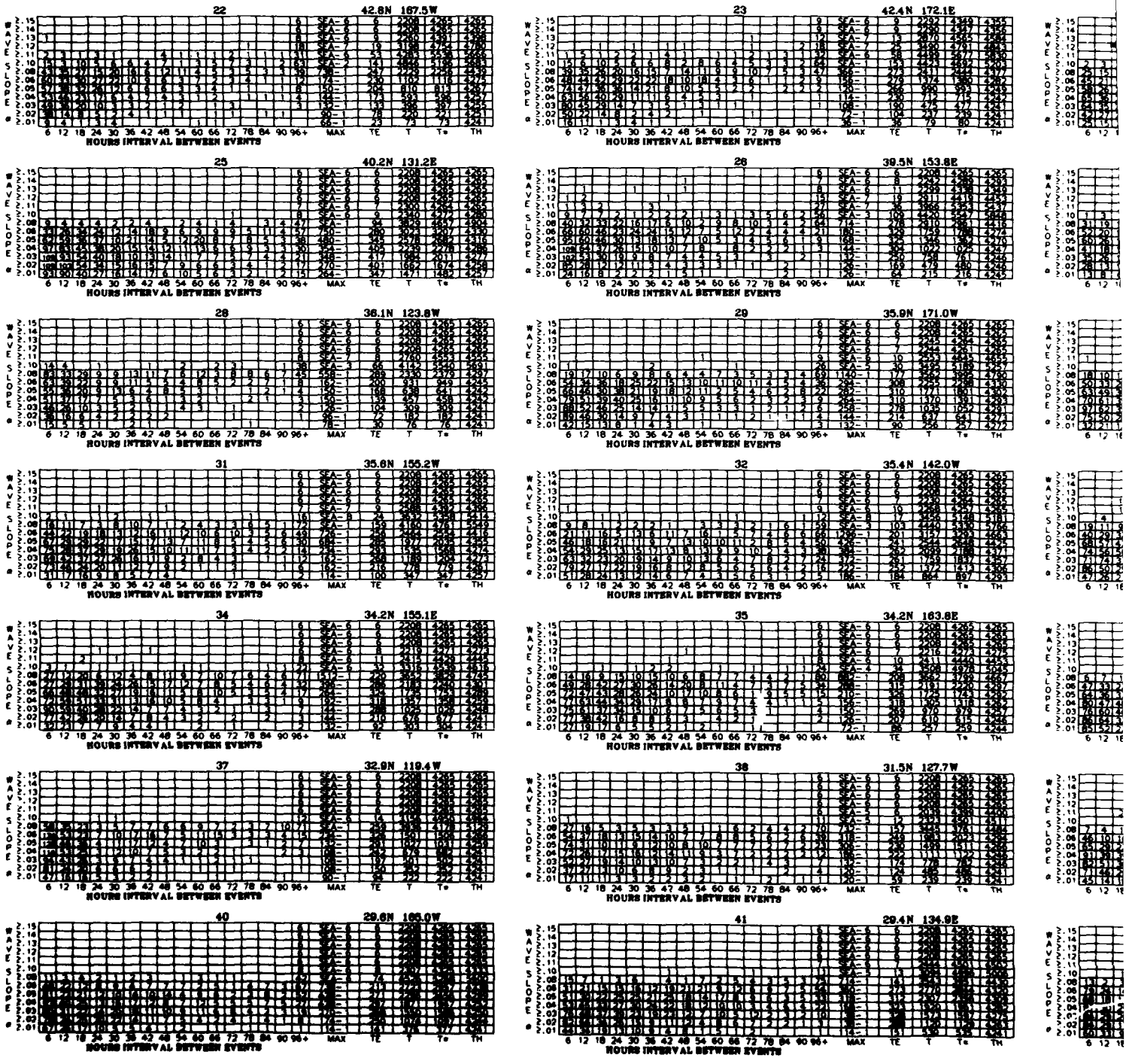



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3 56.5N 151.6W
5 56.8N 141.9W
6 54.9N 167.1W
8 52.0N 172.9E
9 51.7N 156.8E
11 51.3N 156.8W
12 50.9N 145.6W
14 49.3N 174.1E
15 49.0N 128.4W
17 45.6N 139.3E
18 45.6N 144.2W
20 44.2N 152.7W
21 43.7N 128.7W
WAVE HEIGHT
PERIOD
6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96+ MAX TE T T0 TH
HOURS INTERVAL BETWEEN EVENTS

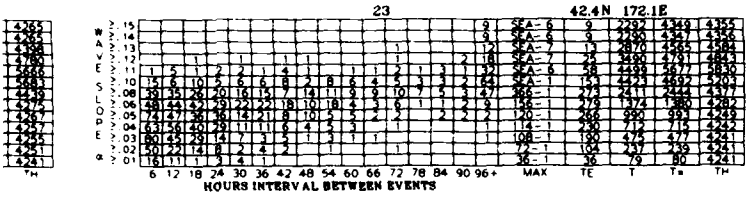
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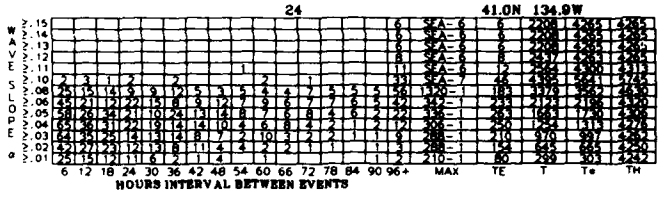
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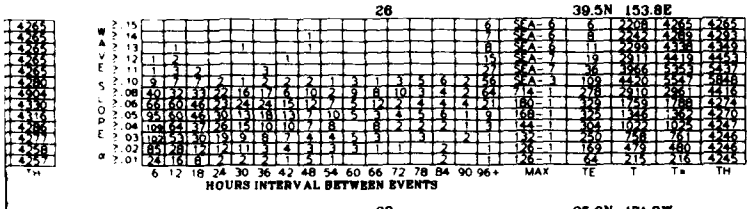
WAVE SLOPE (α)

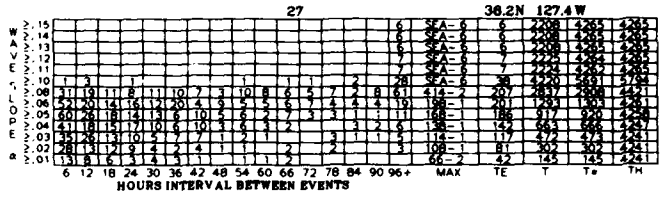


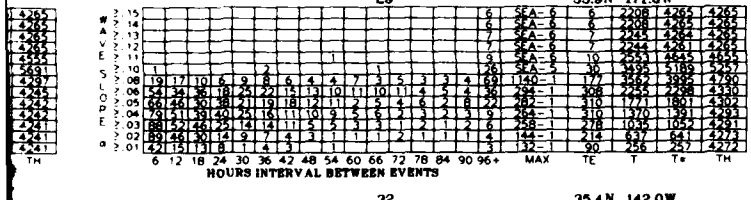
WAVE SLOPE (α) INTERVALS (Cont'd)

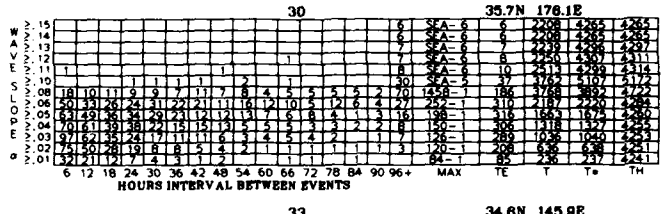


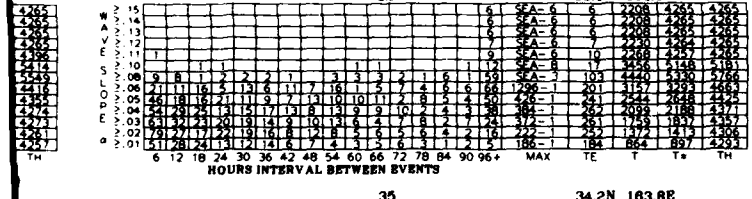


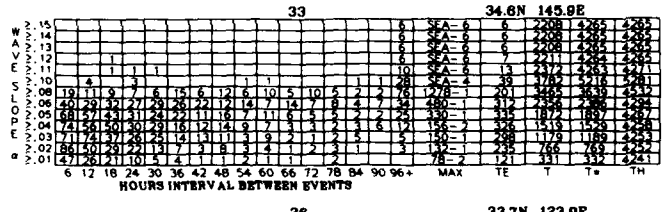


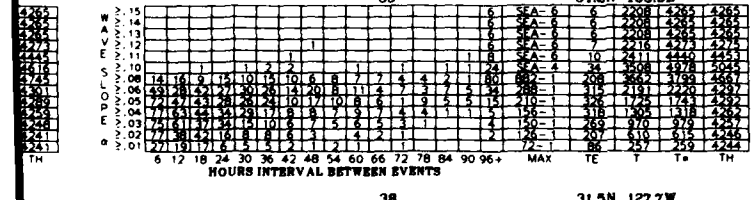


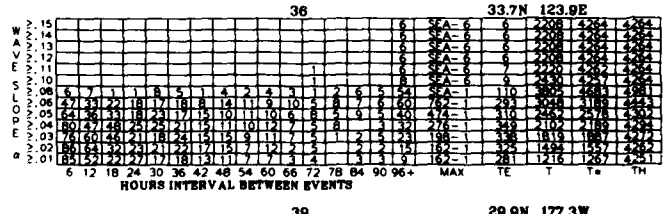


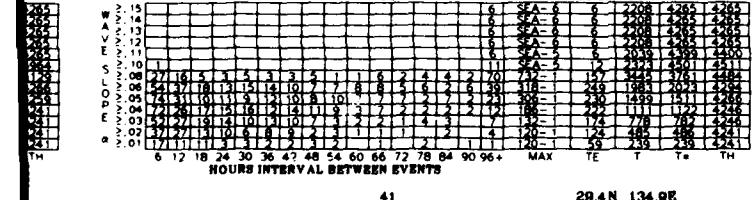


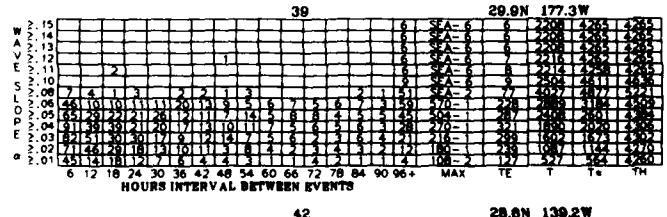


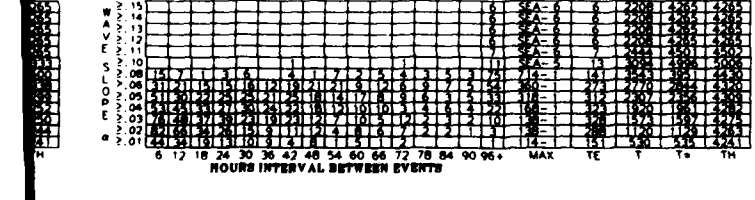


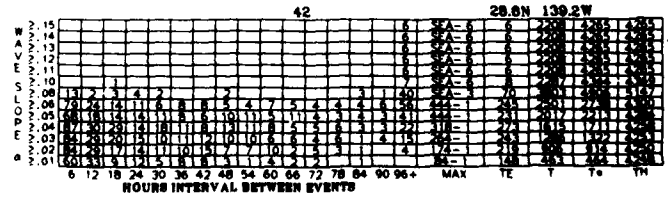




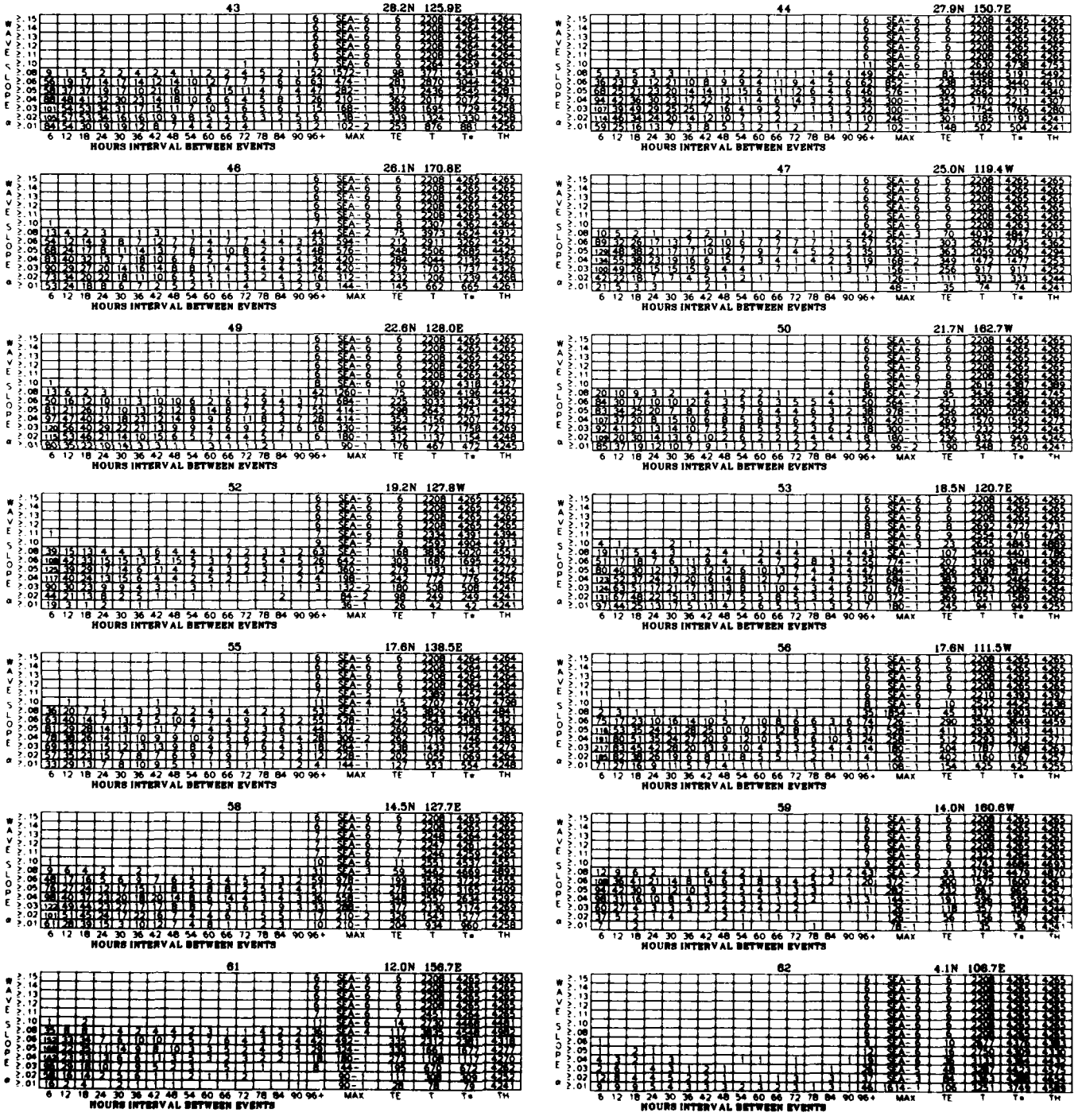


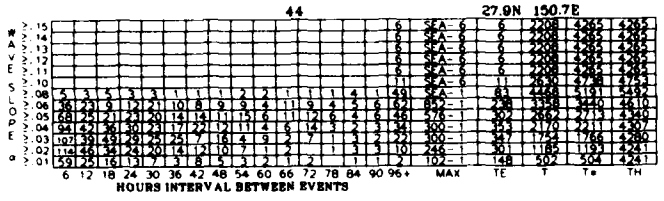


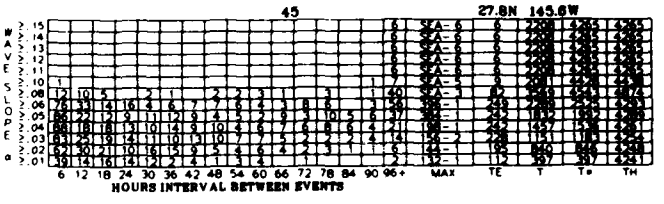


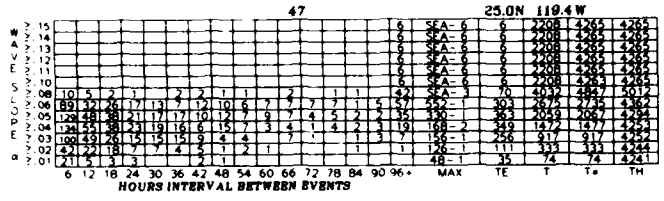


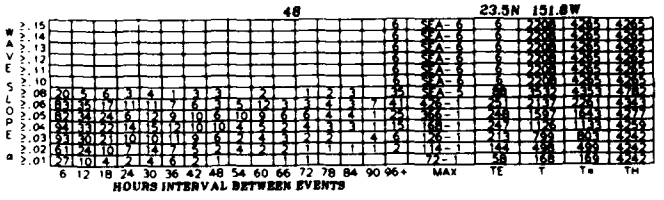
WAVE SLOPE (α) INTERVALS (Cont'd)

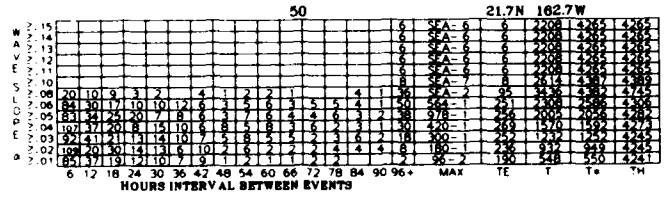


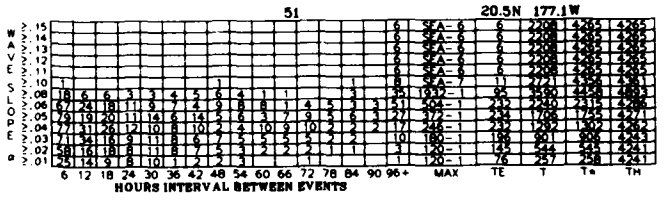

44
27.9N 150.7E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

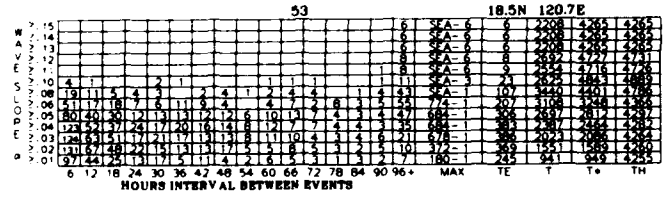

45
27.8N 145.6W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

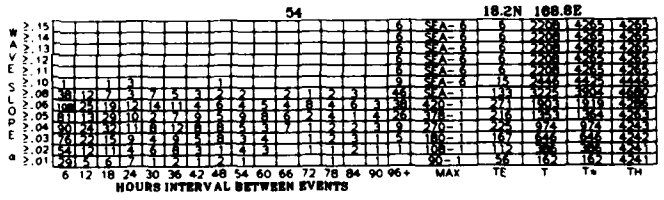

47
25.0N 119.4W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

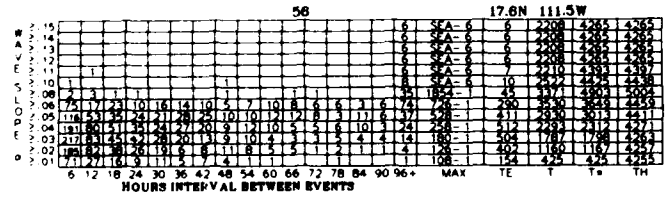

48
23.5N 151.8W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

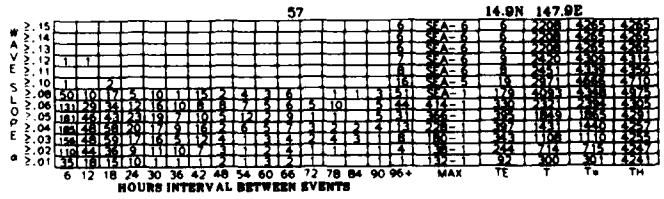

50
21.7N 162.7W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

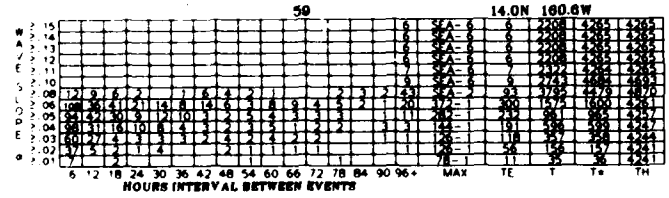

51
20.5N 177.1W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

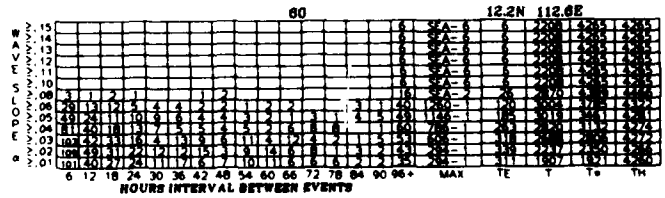

53
18.5N 120.7E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

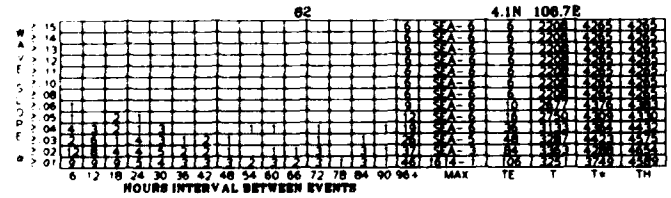

54
18.2N 168.8E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

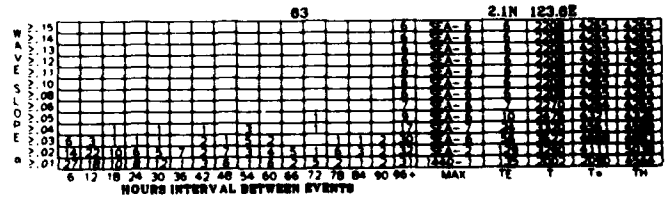

56
17.6N 111.5W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


57
14.9N 147.9E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


59
14.0N 160.6W
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

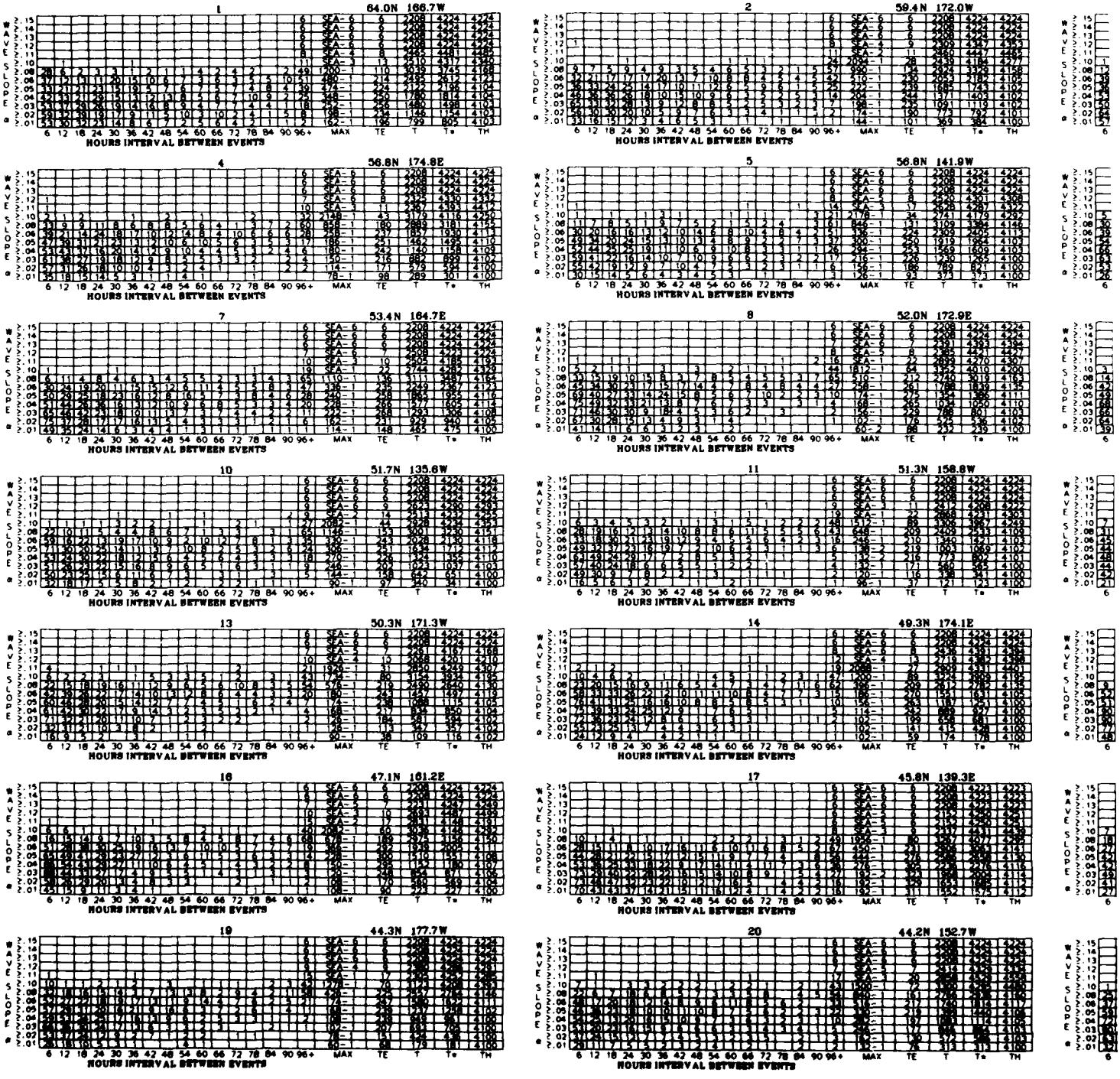

60
12.2N 112.6E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


62
4.1N 106.7E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

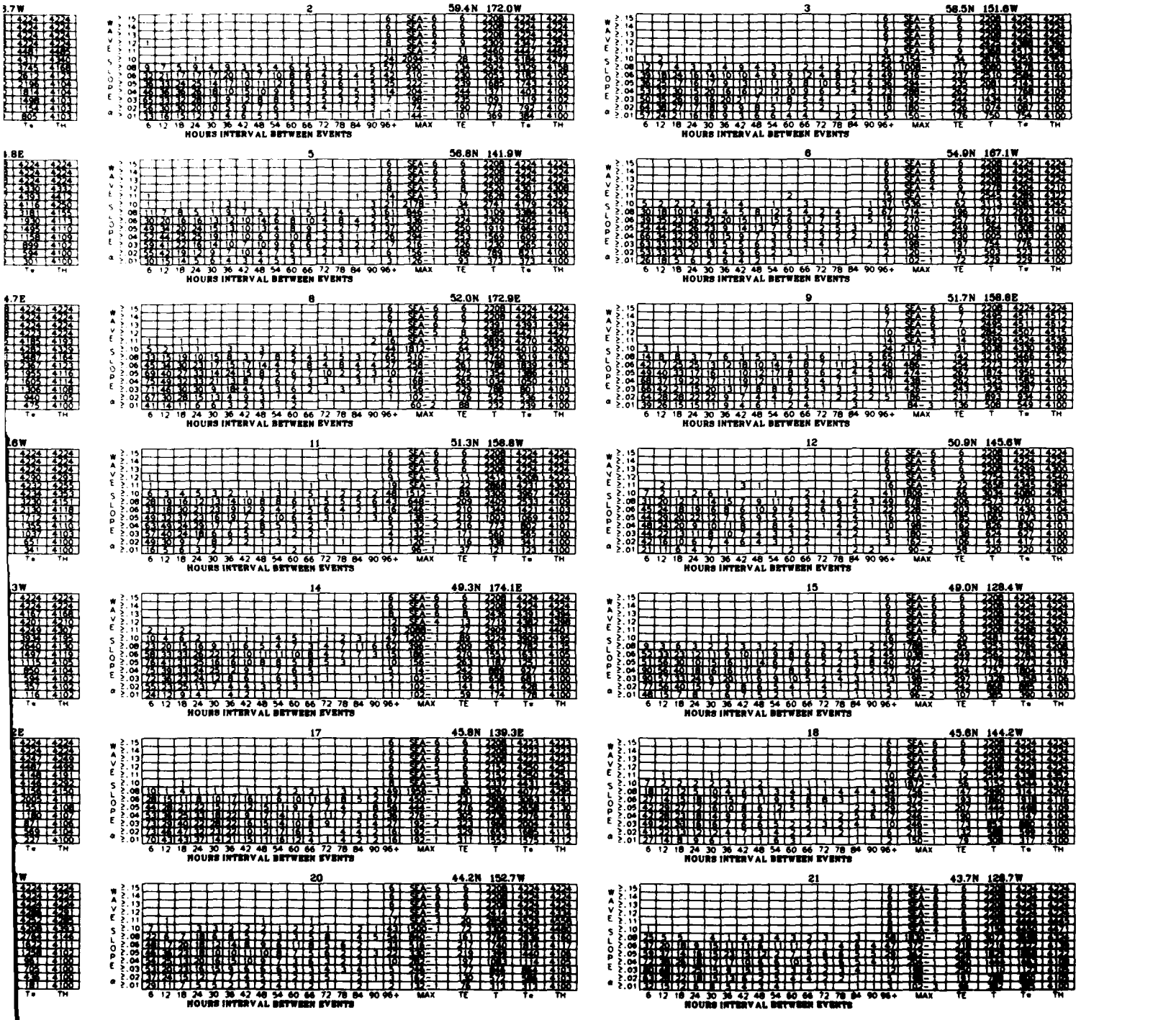

63
2.1N 123.6E
WAVE SLOPE a
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

SUMMER

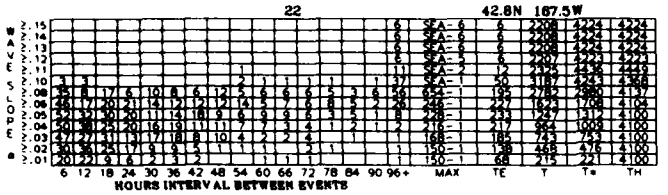
WAVE SL

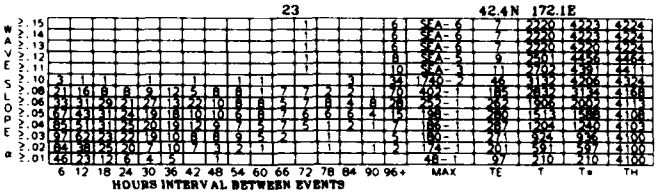


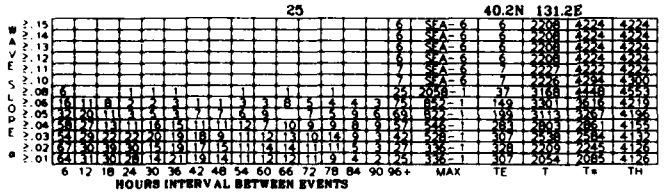
WAVE SLOPE (α) INTERVALS

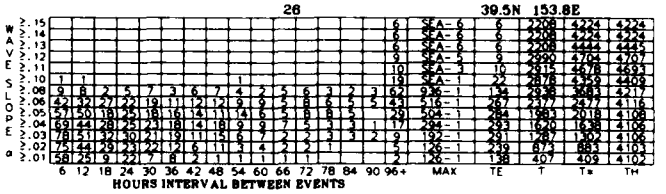


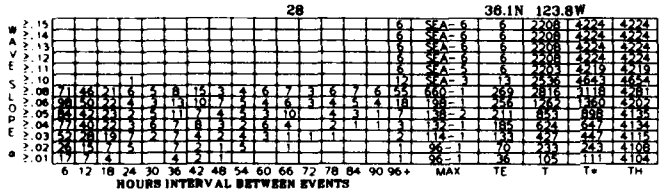
WAVE SLOPE (α) INTERVALS (Cont'd)

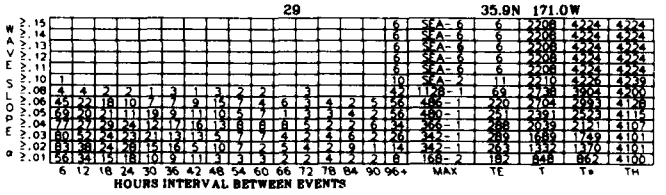


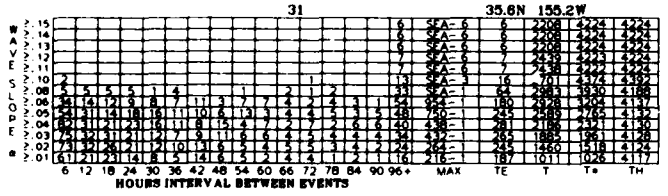


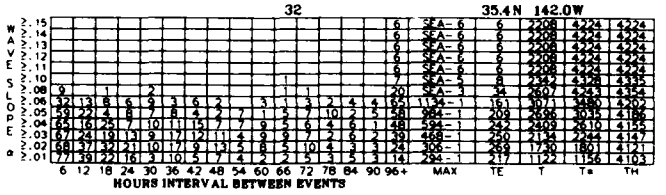


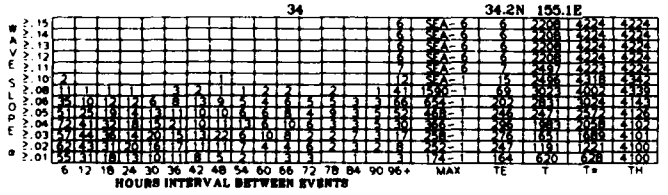


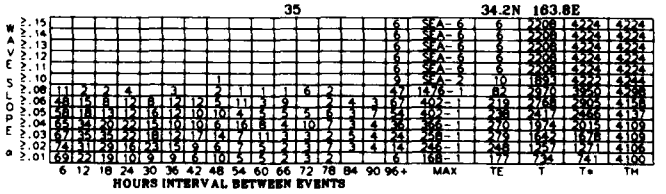


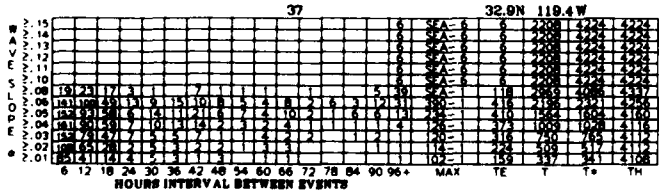


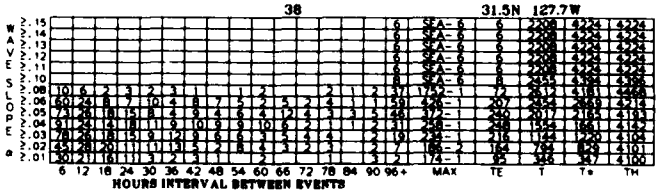


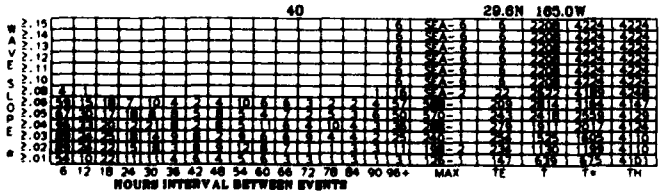




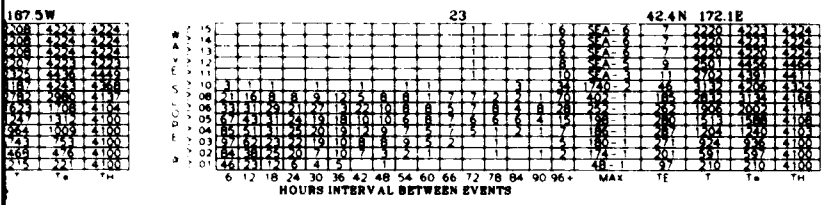


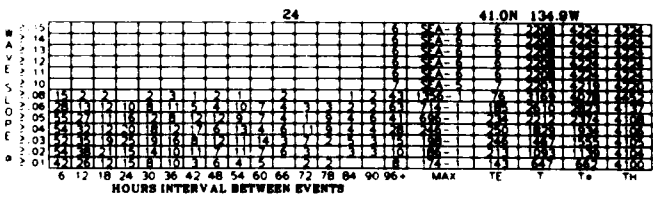


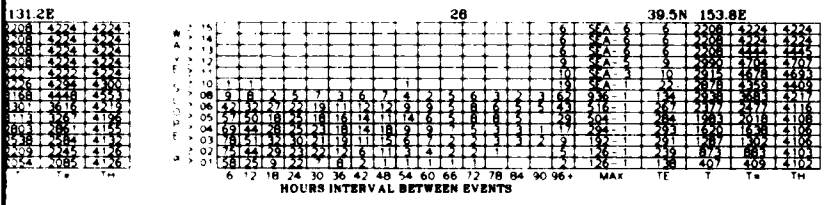


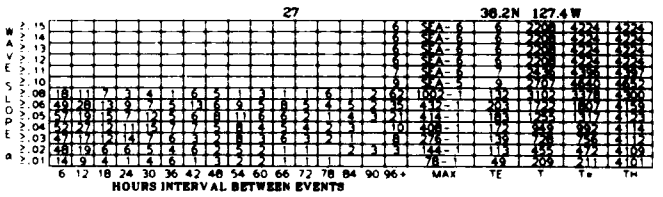


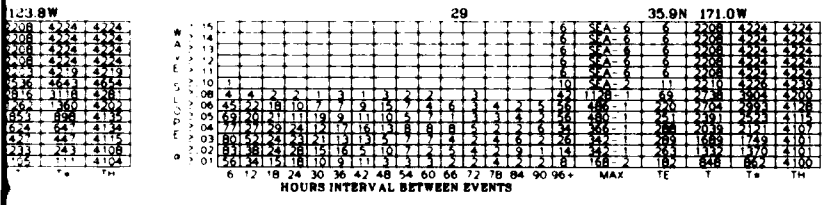


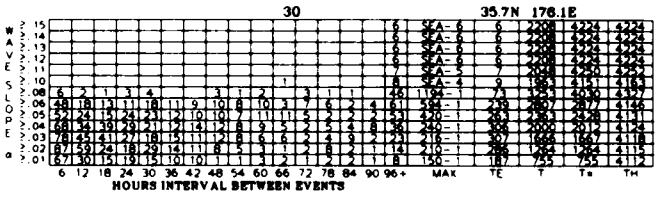

167.5W
23
42.4N 172.1E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

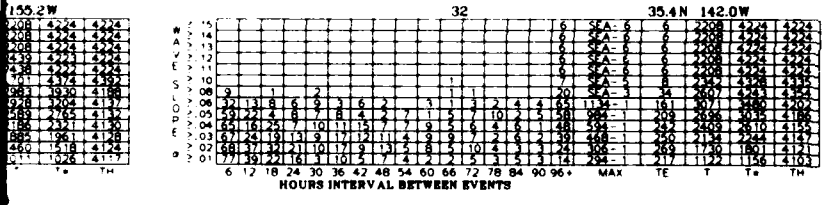

24
41.0N 134.9W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

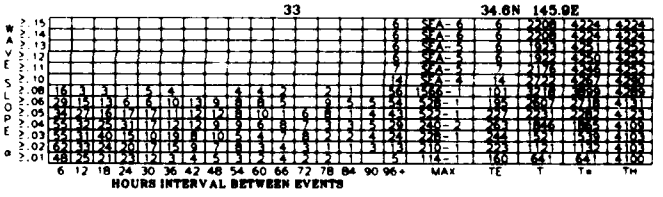

131.2E
26
39.5N 153.8E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

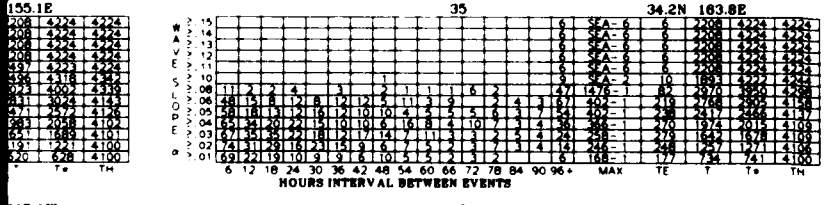

27
36.2N 127.4W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

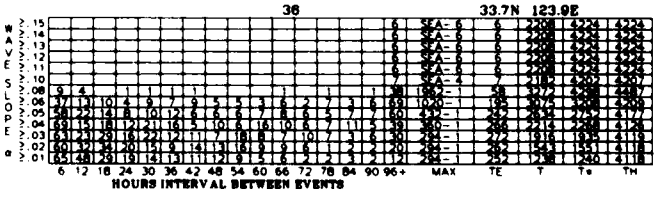

123.8W
29
35.9N 171.0W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

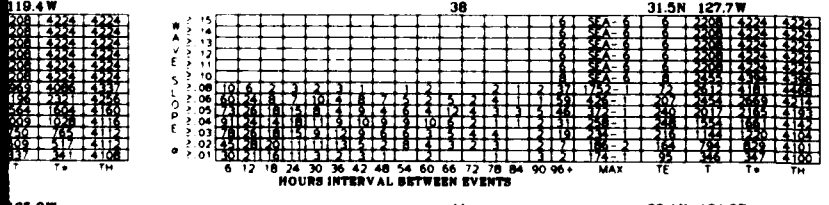

30
35.7N 176.1E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

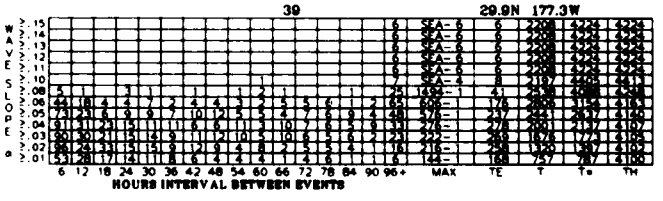

155.2W
32
35.4N 142.0W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

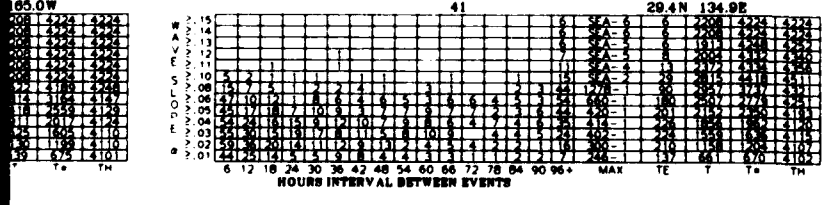

33
34.6N 145.9E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

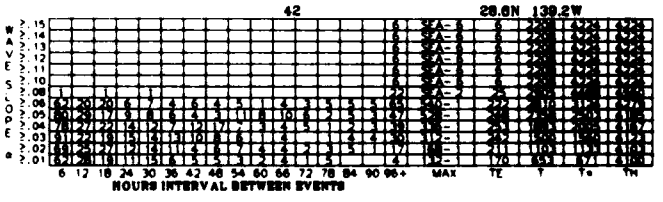

155.1E
35
34.2N 163.8E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


36
33.7N 123.9E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


119.4W
38
31.5N 127.7W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

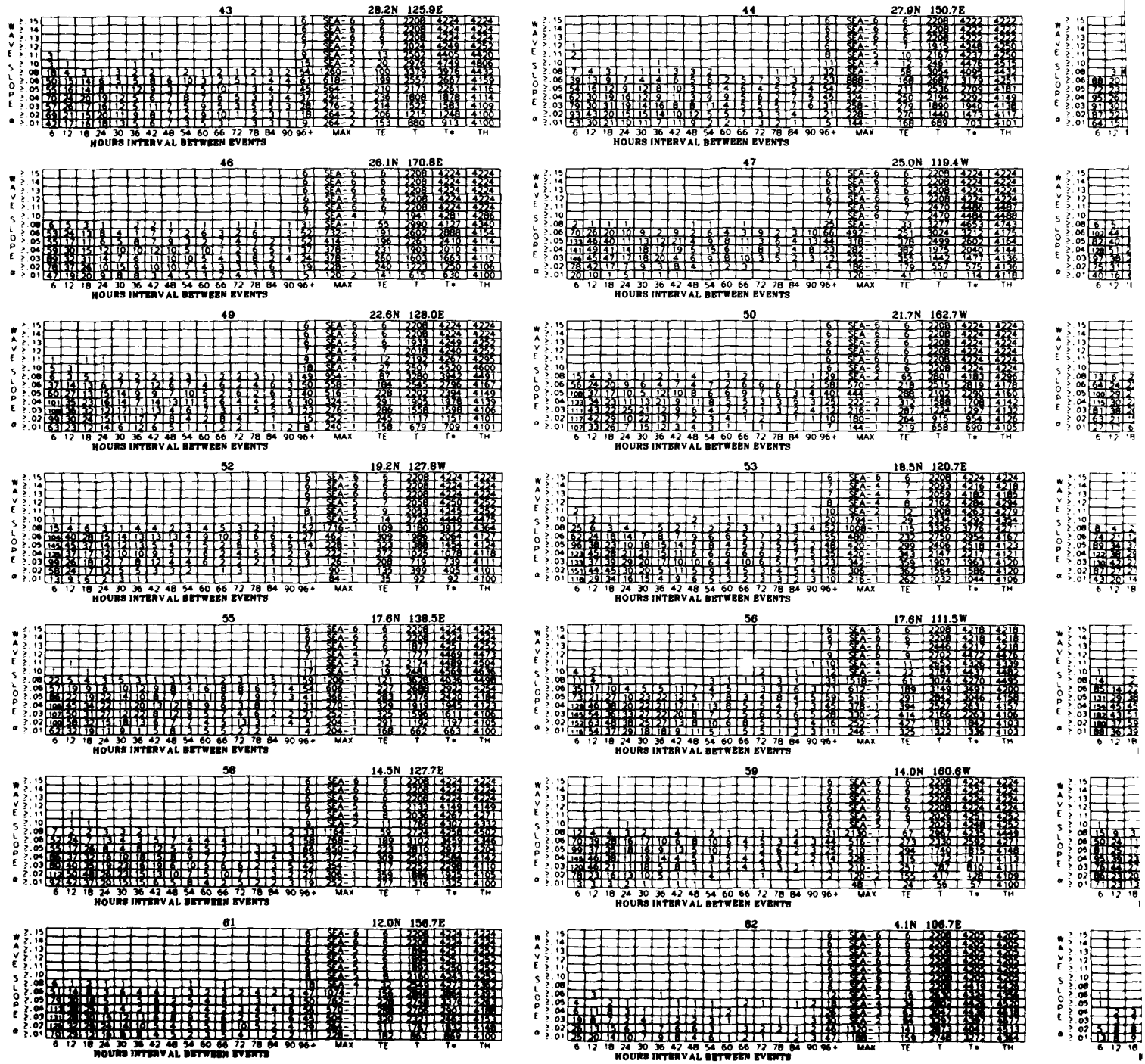

39
29.9N 177.3W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH


165.0W
41
29.4N 134.9E
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

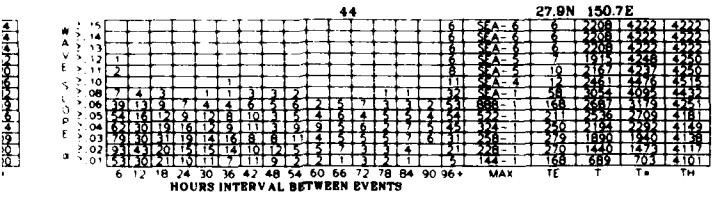

42
28.6N 139.2W
WAVE SLOPE
HOURS INTERVAL BETWEEN EVENTS
MAX TE T Te TH

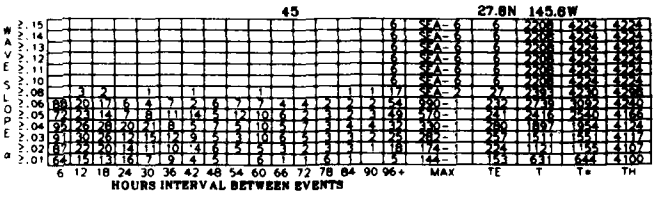
SUMMER

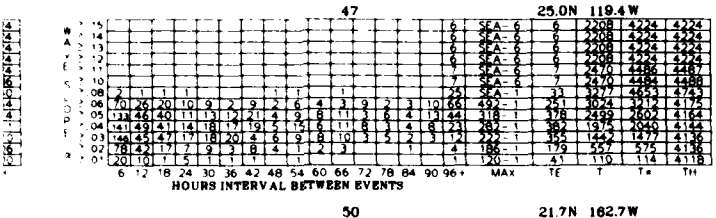
WAVE SLOPE (α)

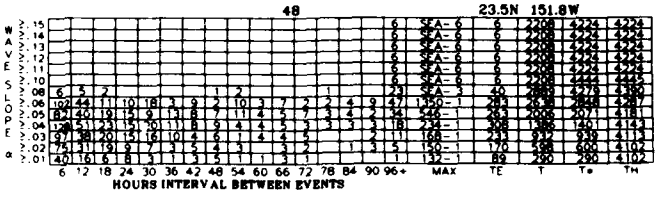


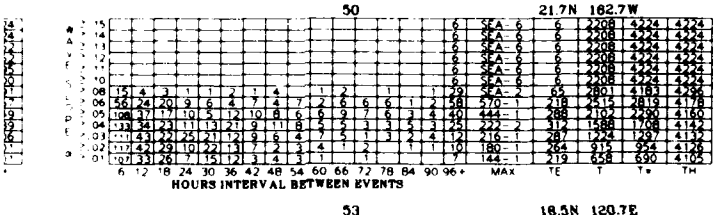
WAVE SLOPE (α) INTERVALS (Cont'd)

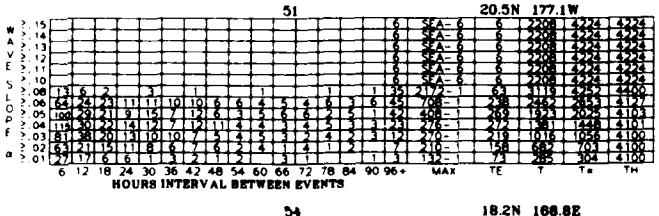


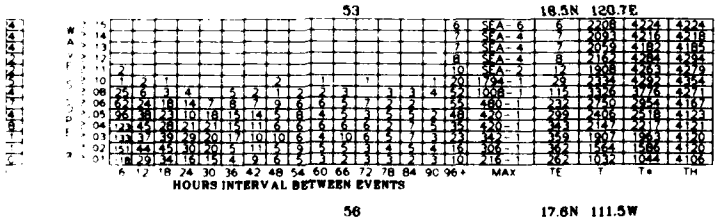


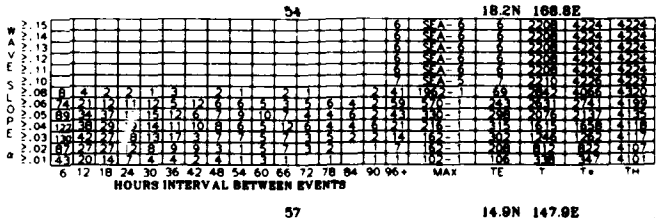


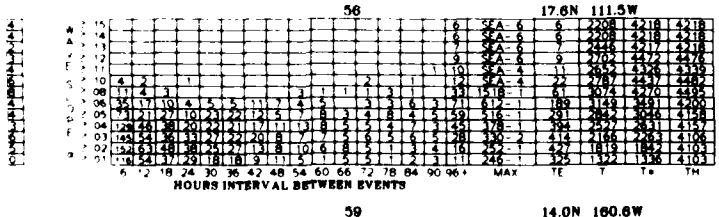


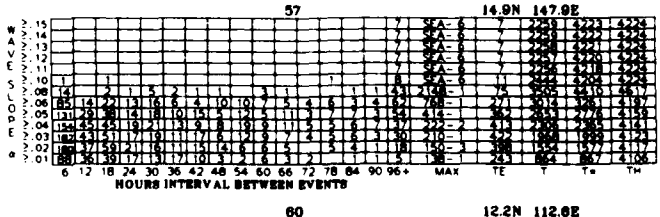


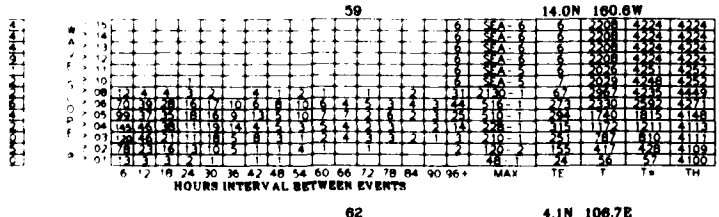


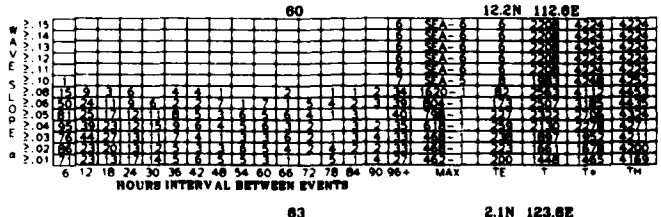


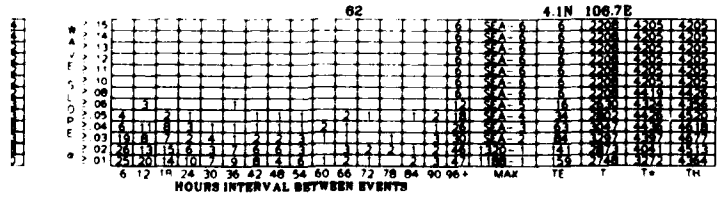


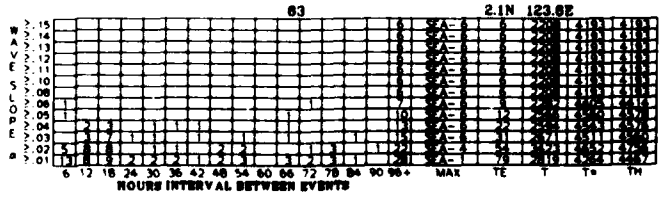




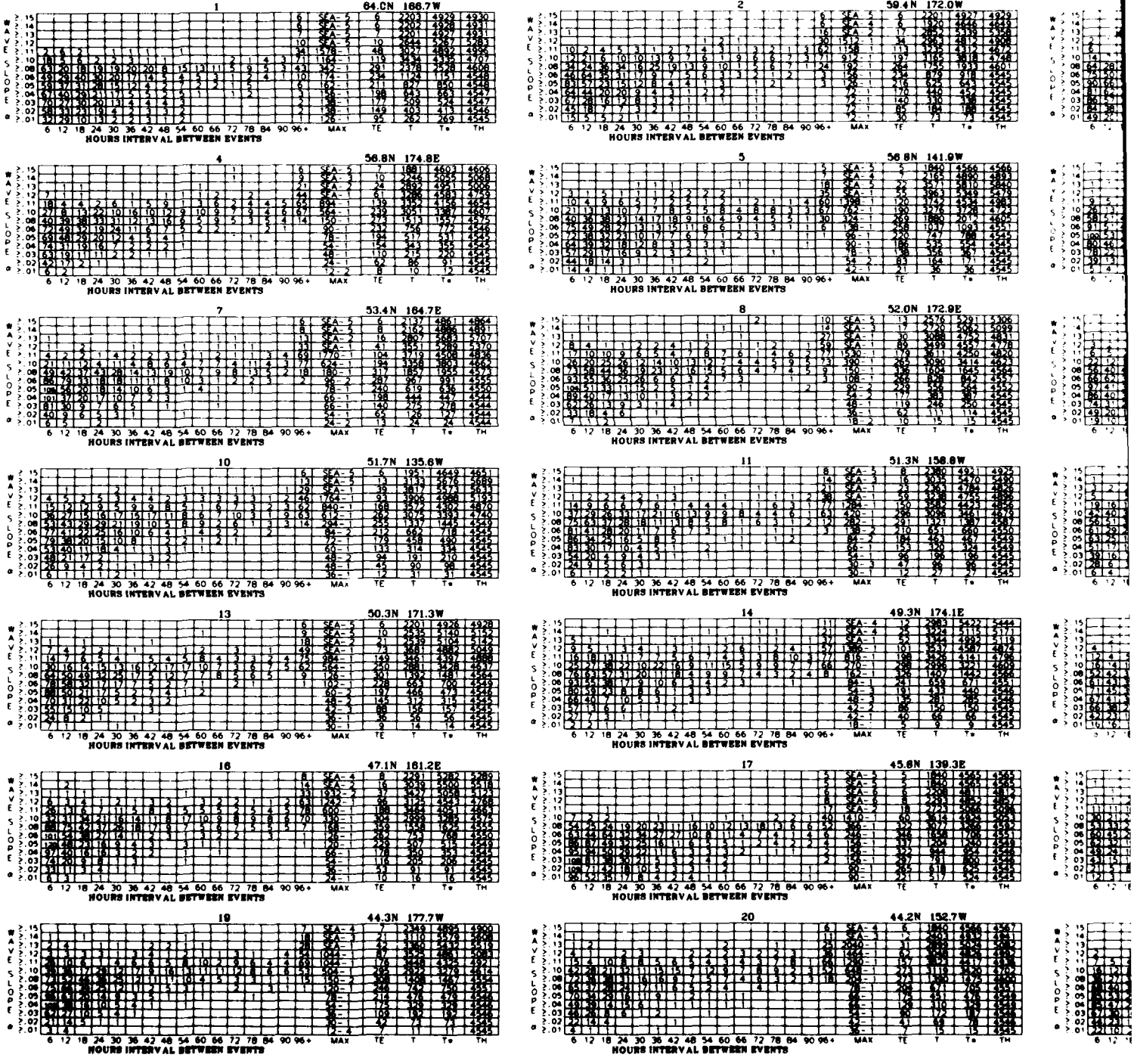




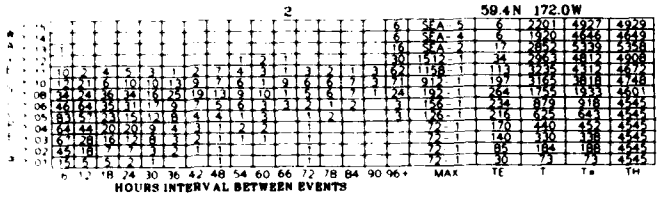




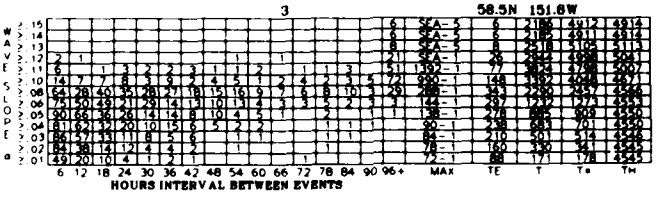
WAVE SLOPE (α) INTERVALS



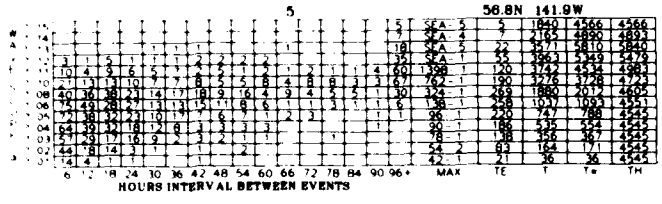
2 59.4N 172.0W



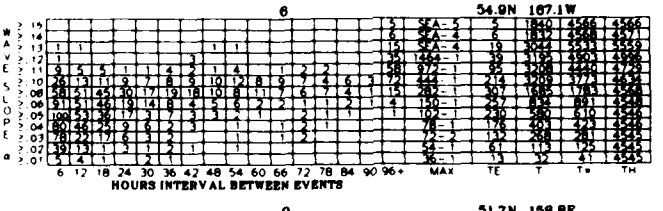
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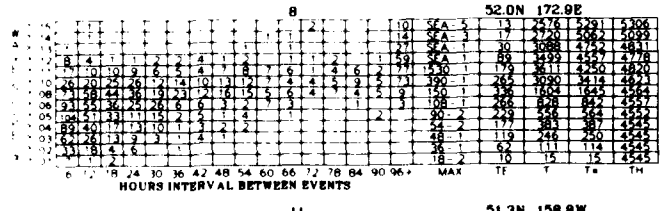
5 56.8N 141.9W



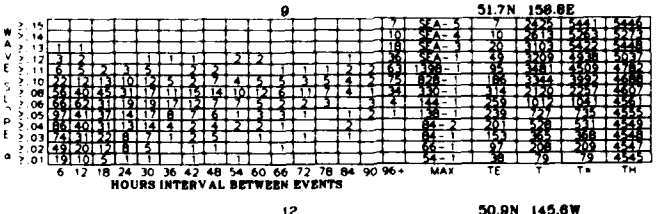
6 54.9N 167.1W



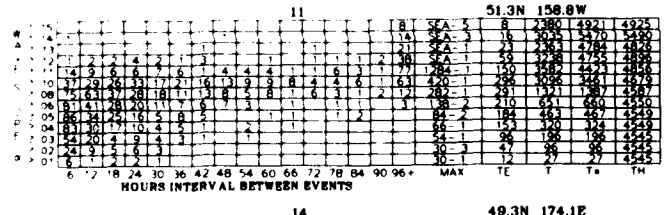
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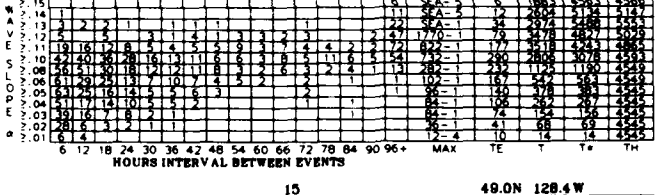
9 51.7N 158.8E



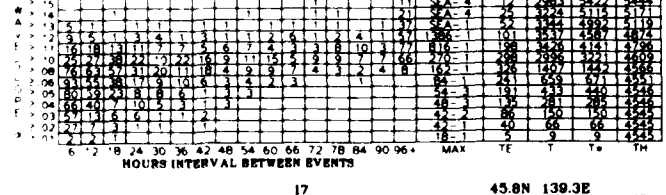
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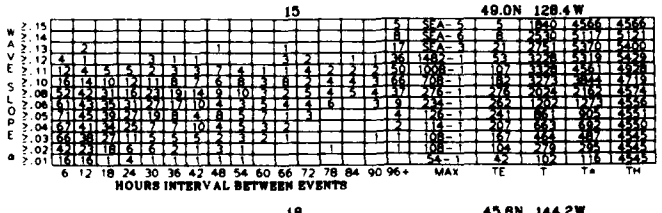
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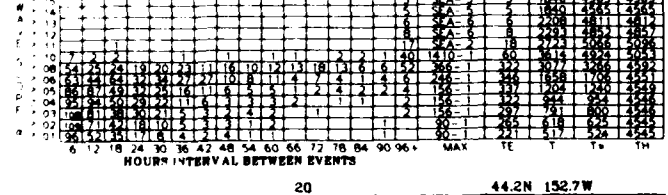
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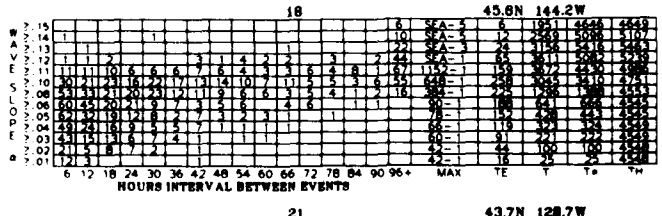
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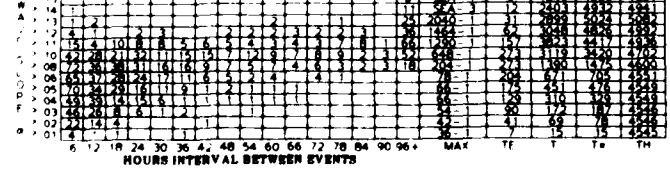
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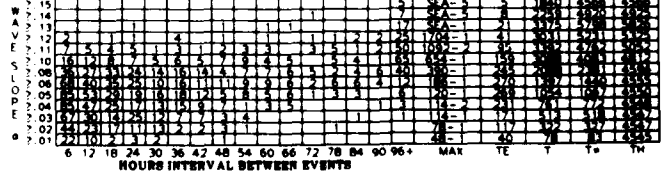
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20 44.2N 152.7W

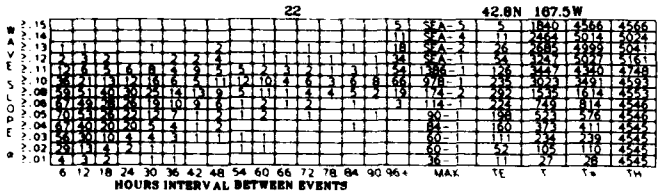


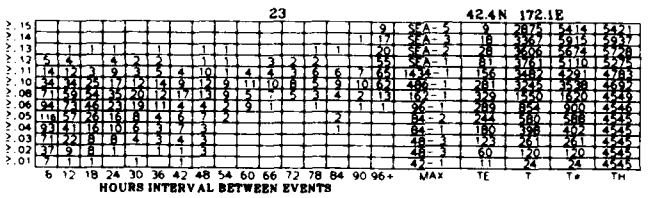
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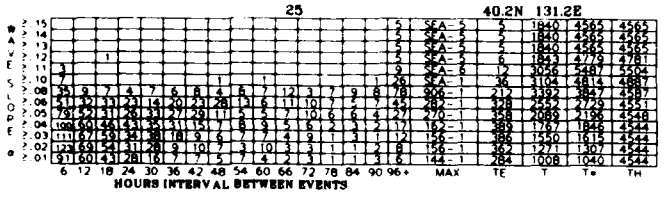


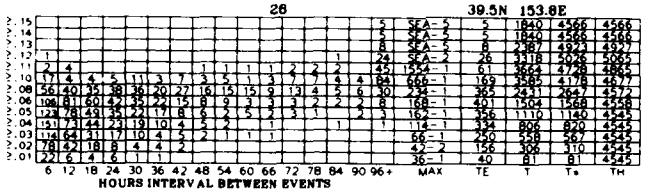
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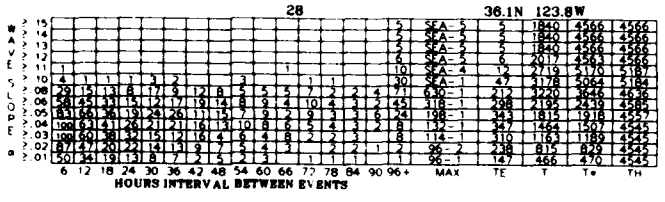
WAVE SLOPE (α)

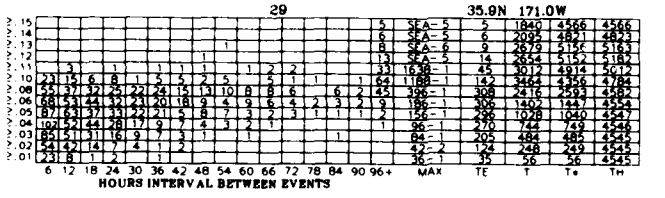


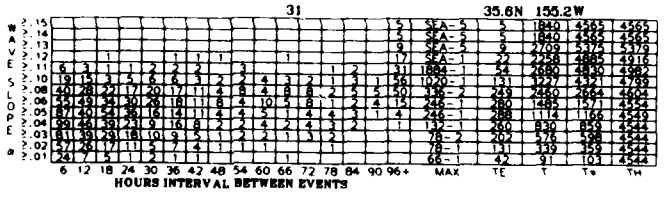


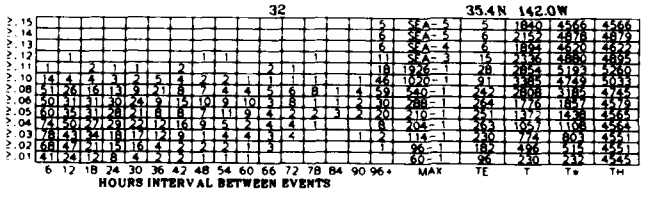


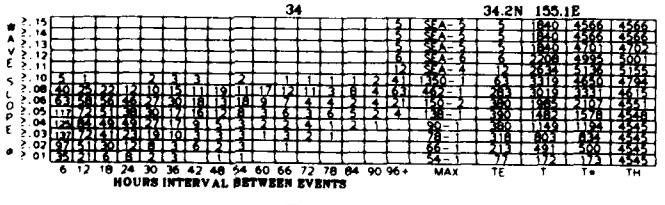


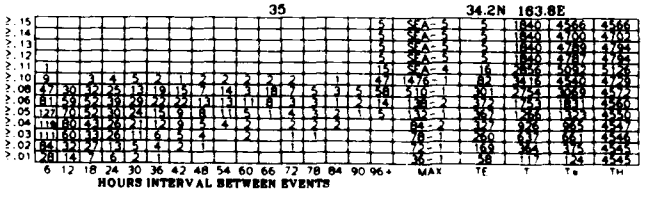


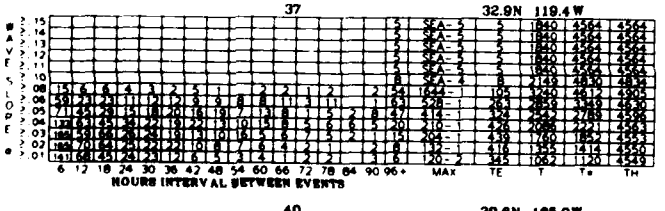


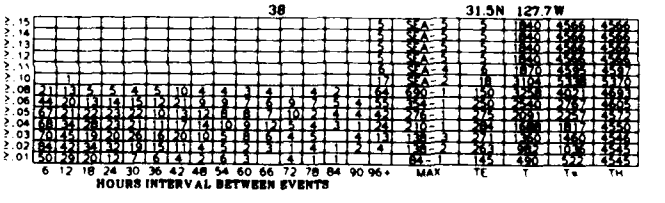


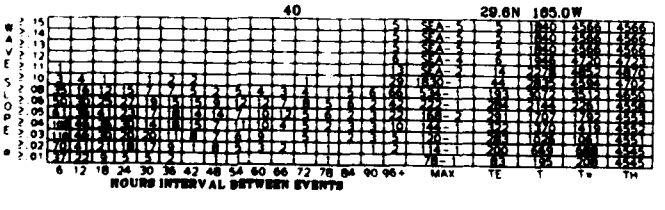


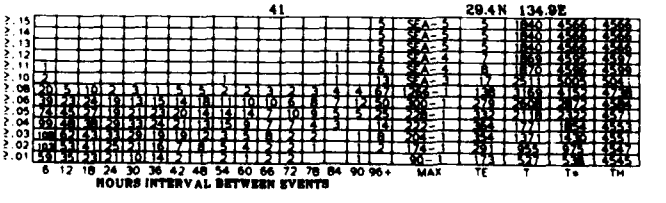




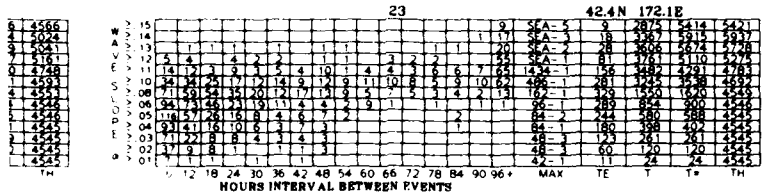


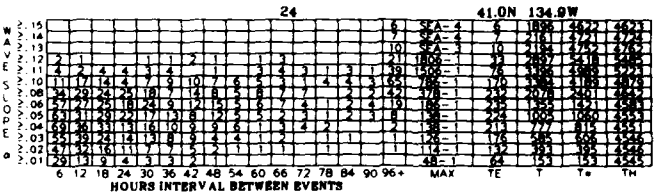


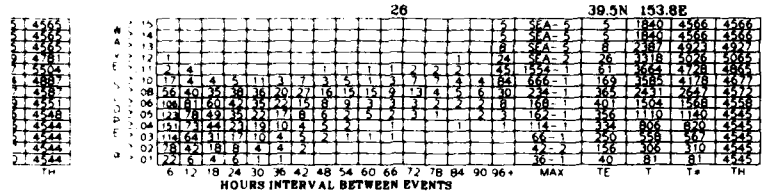


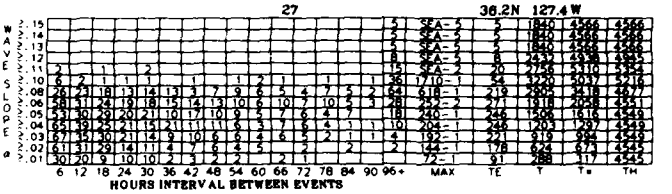


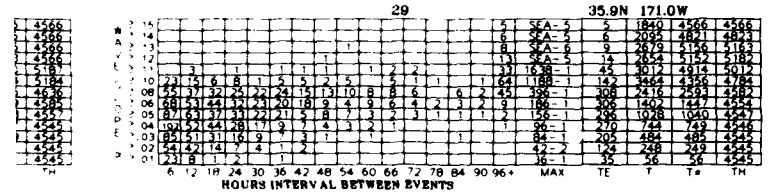
WAVE SLOPE (α) INTERVALS (Cont'd)

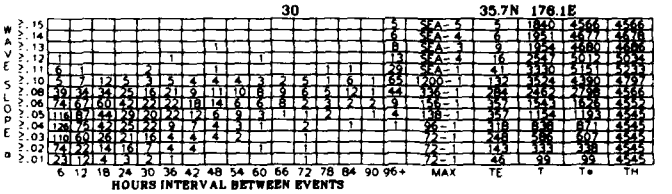


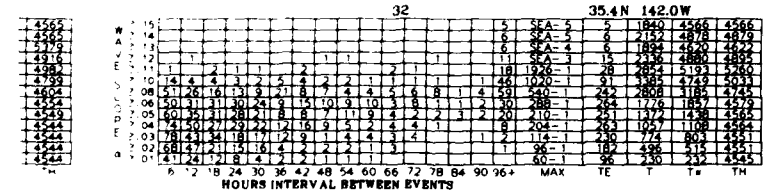


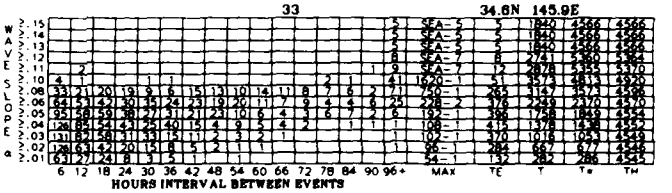


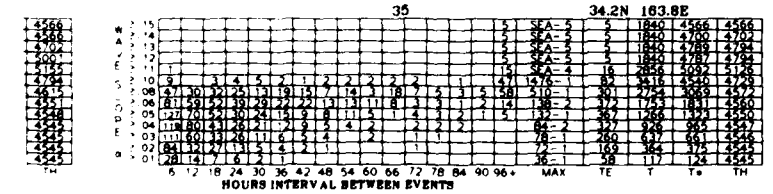


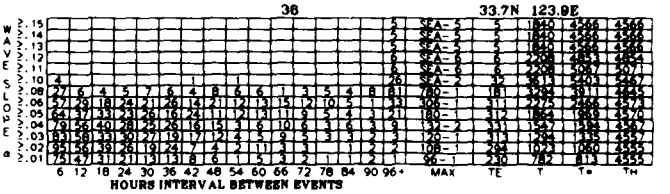


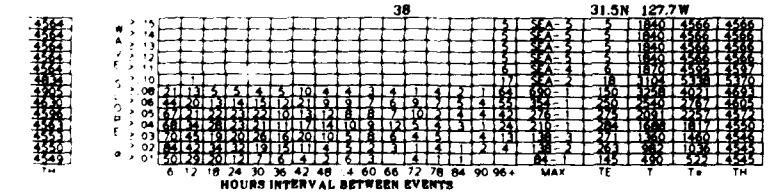


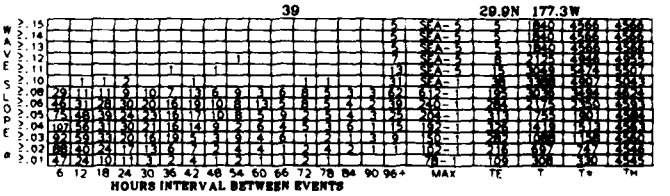


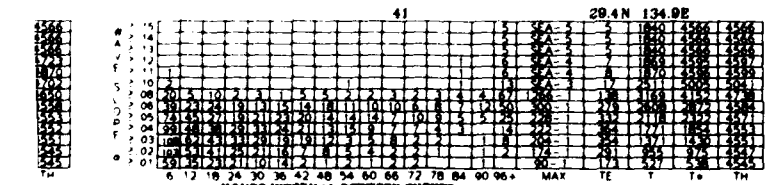


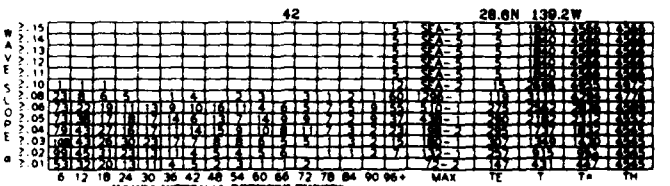




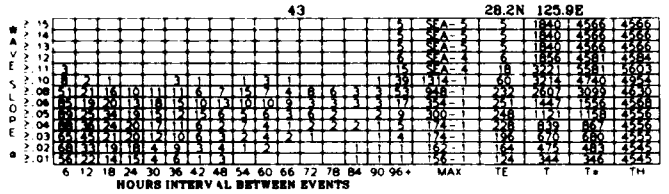


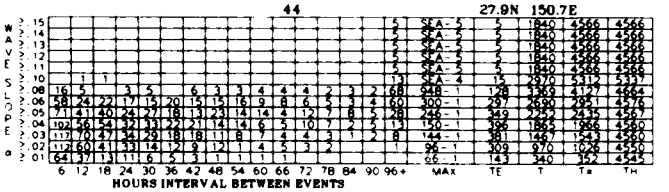


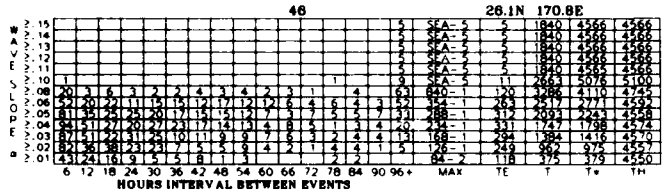


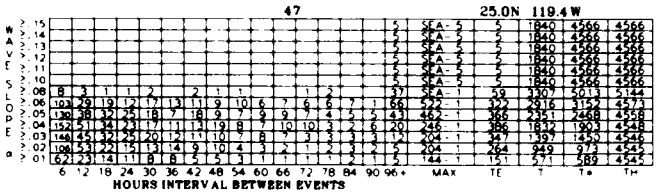


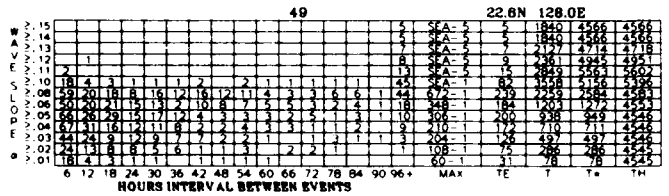
WAVE SLOPE (α) INTERVALS (Cont'd)

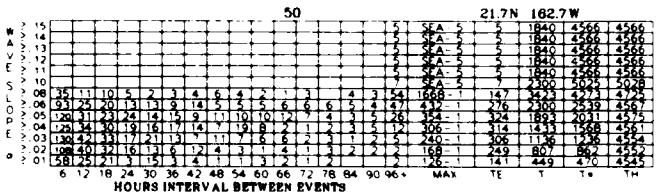


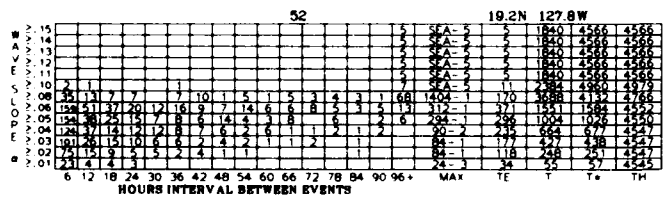


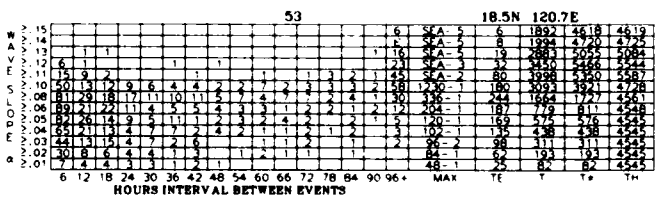


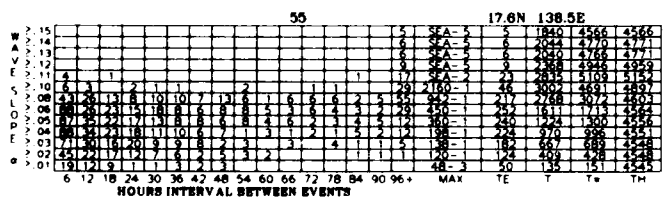


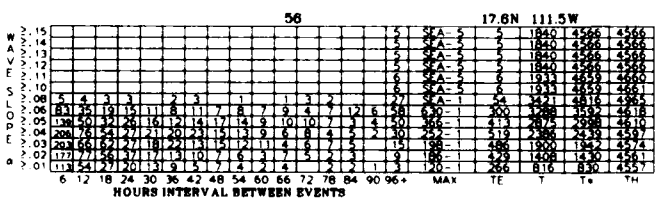


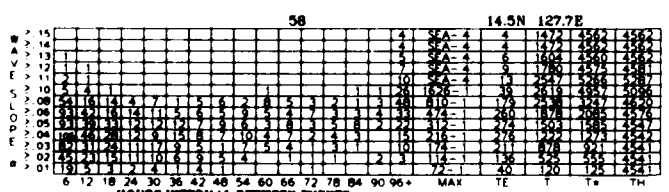


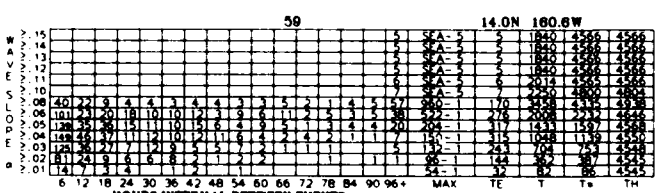


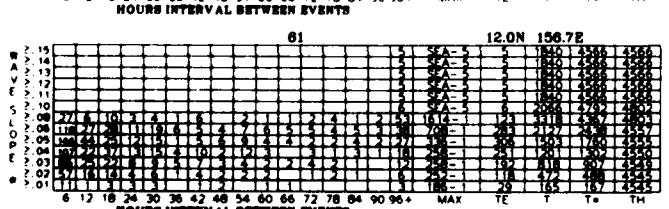


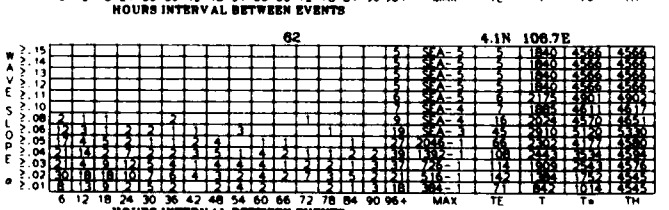






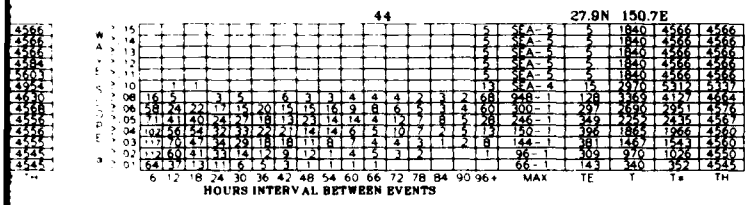


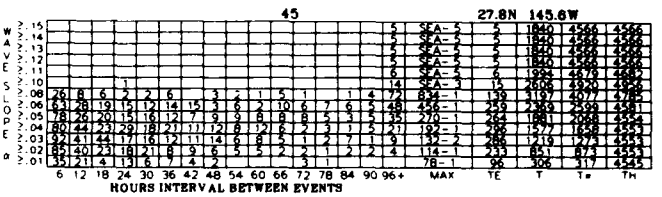


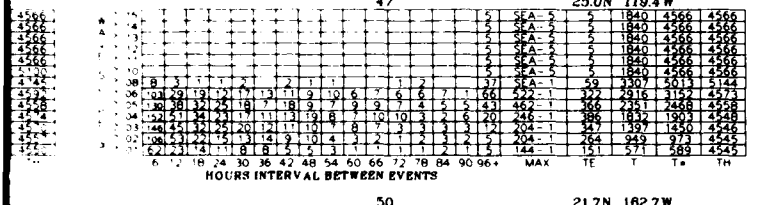


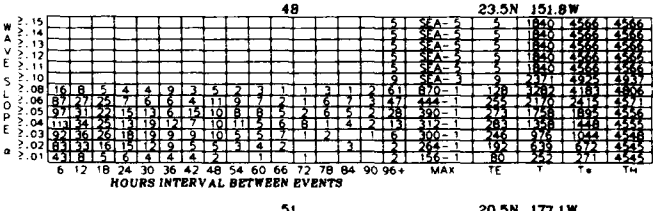
RVALS (Cont'd)

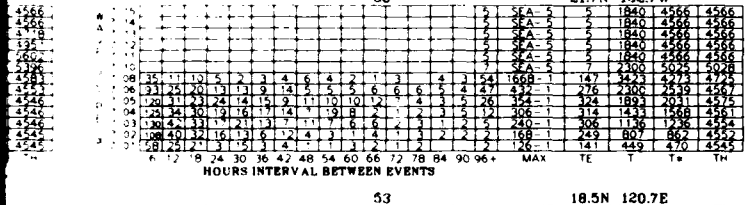
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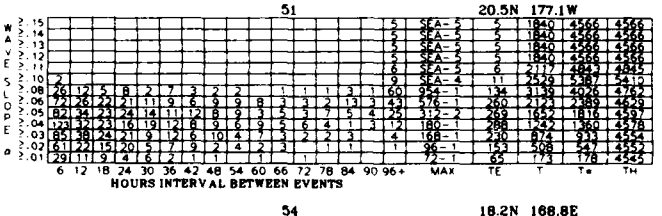


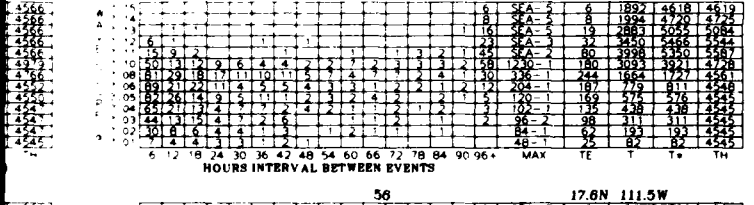


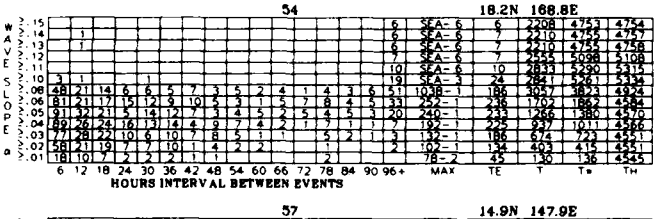


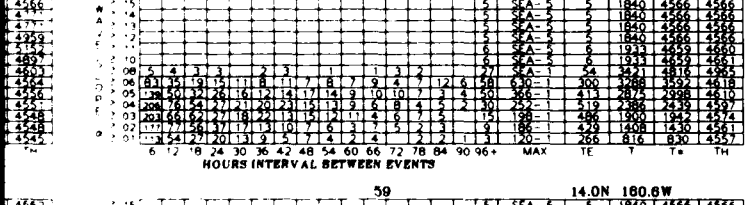


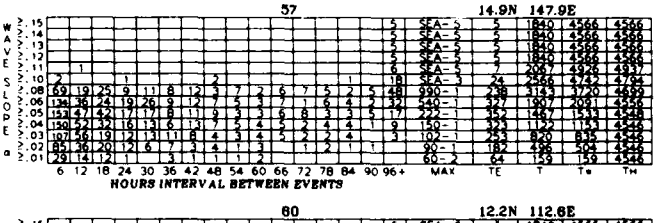


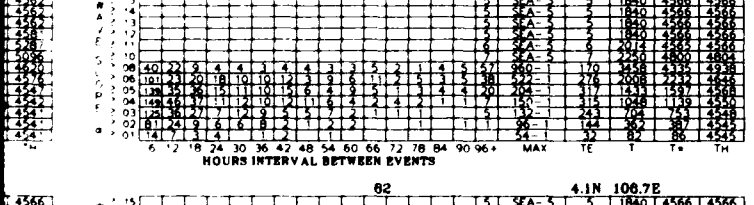


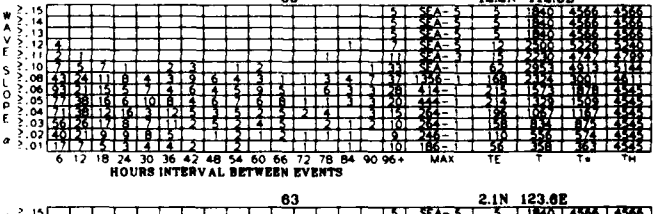


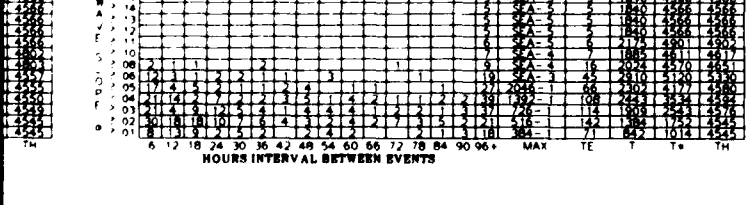


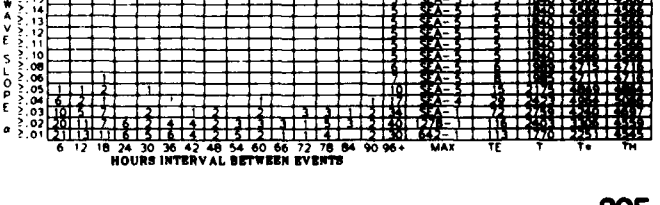






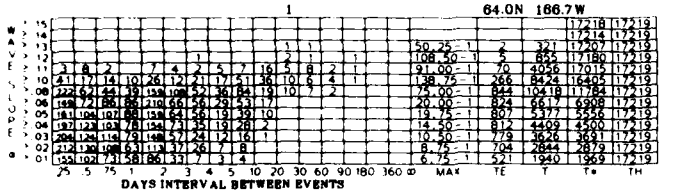


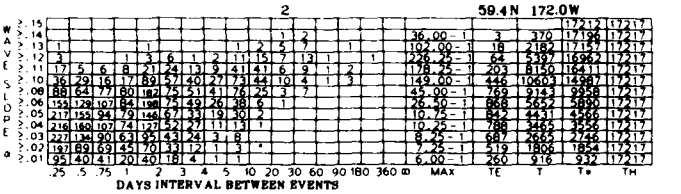


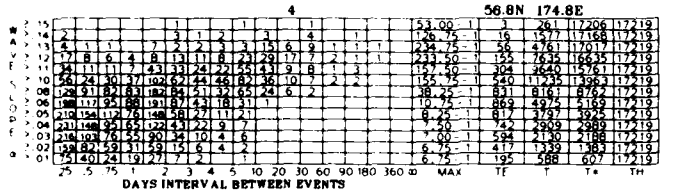


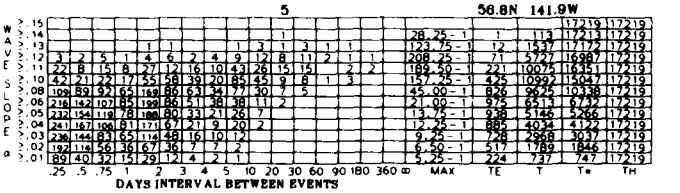
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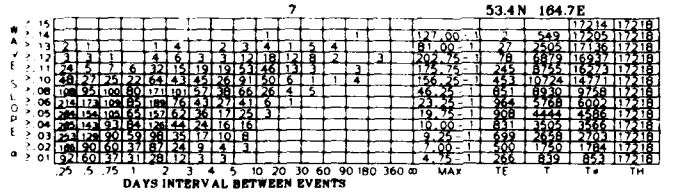
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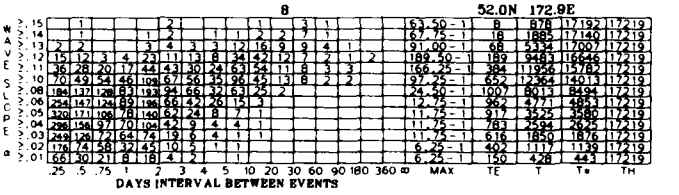


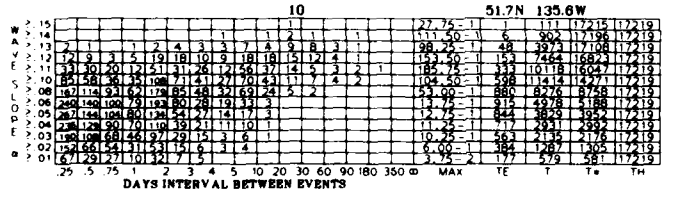


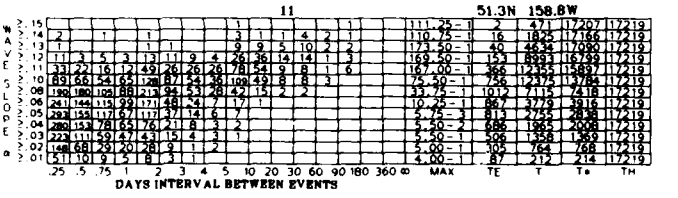


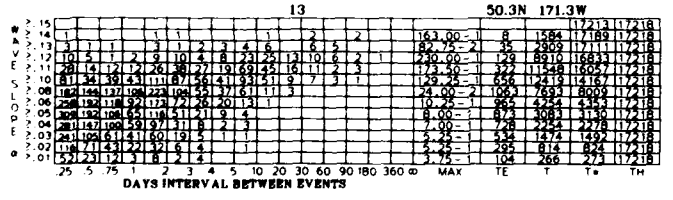


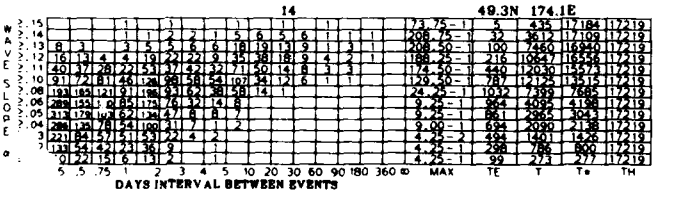


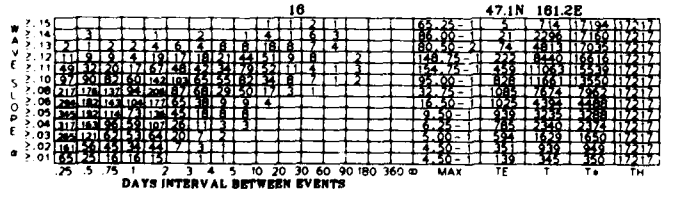


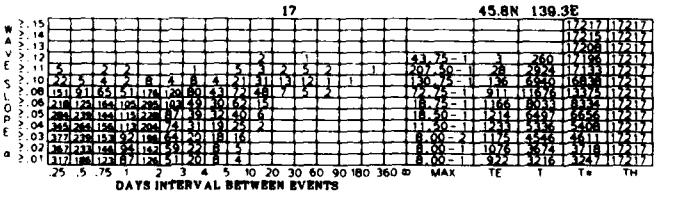


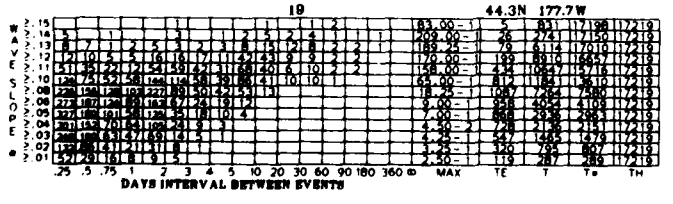


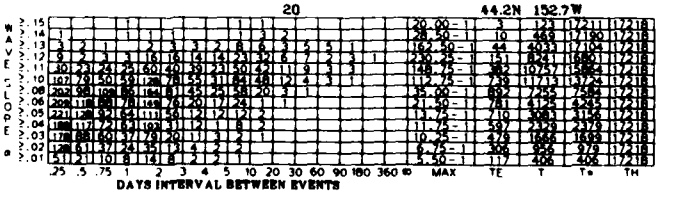




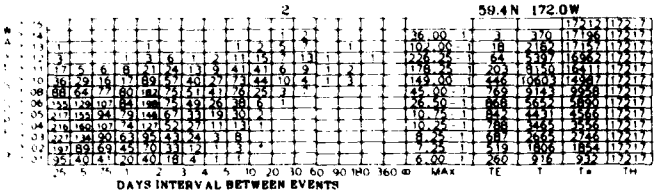


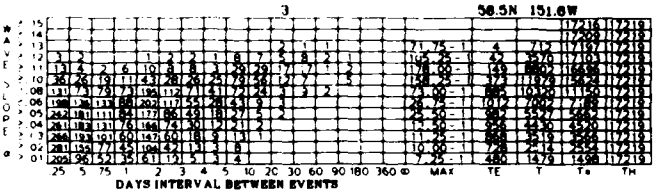


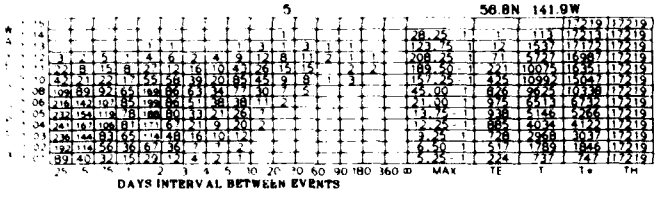


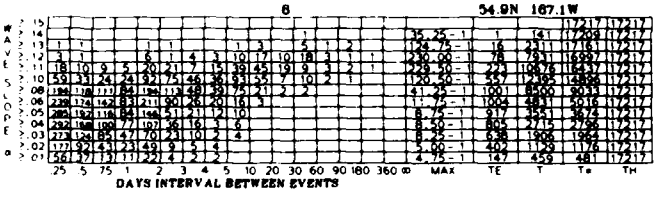


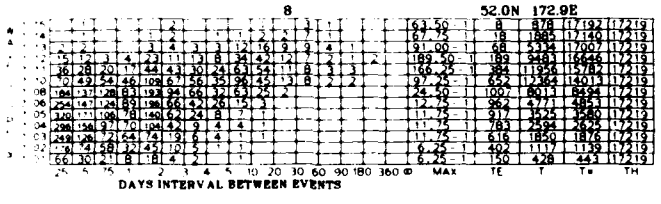
WAVE SLOPE (α) INTERVALS

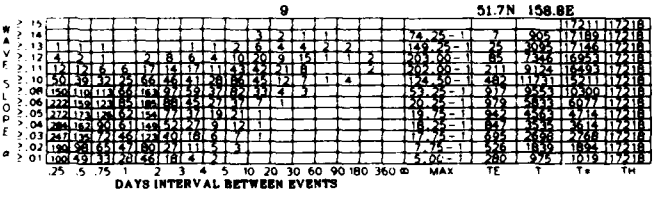


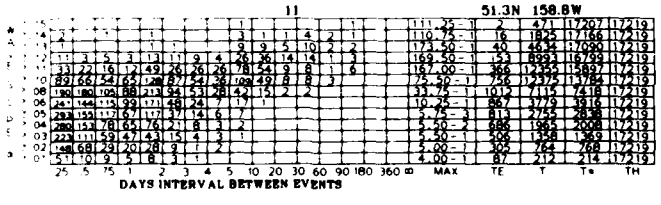


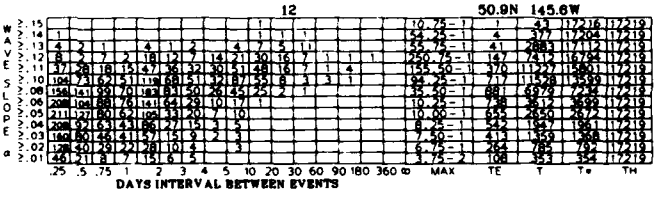


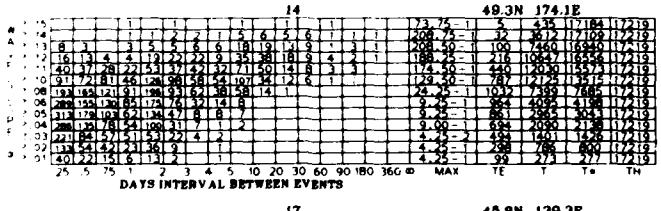


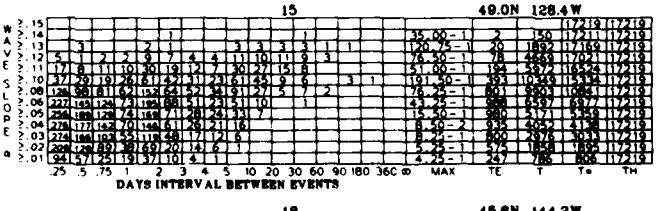


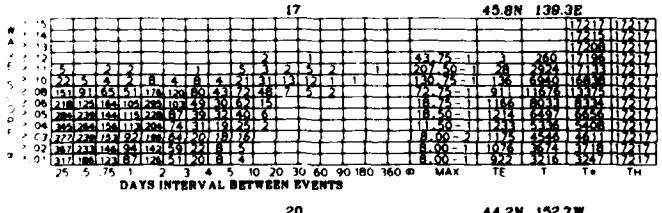


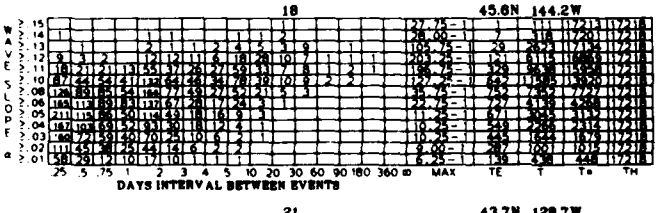


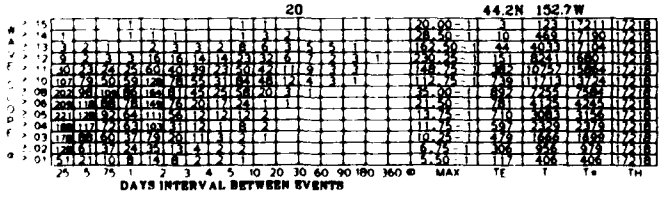


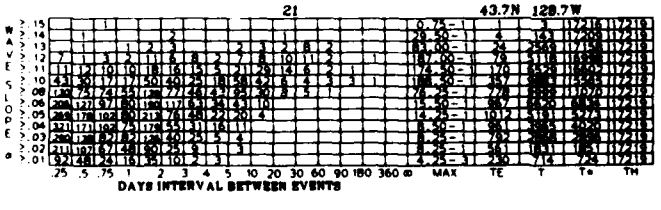




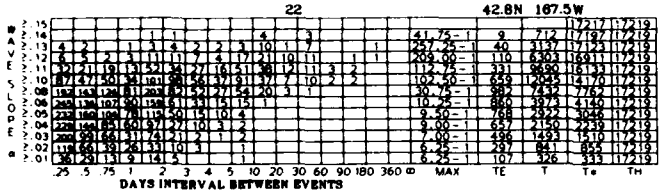


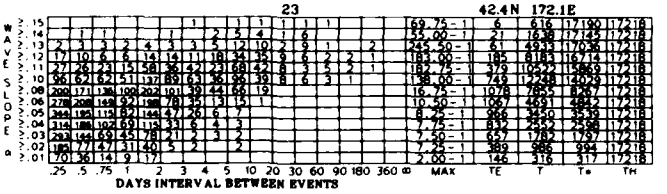


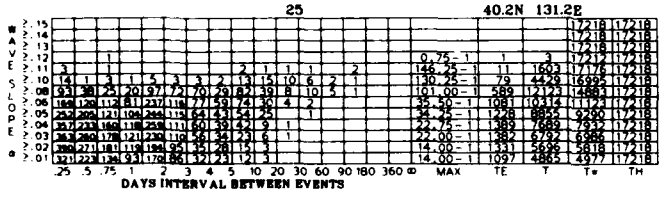


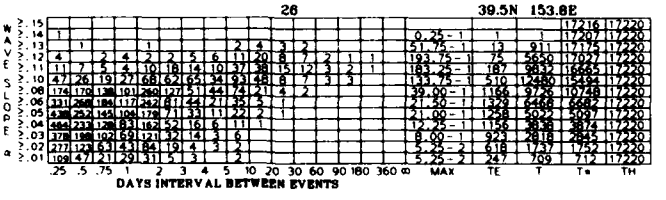


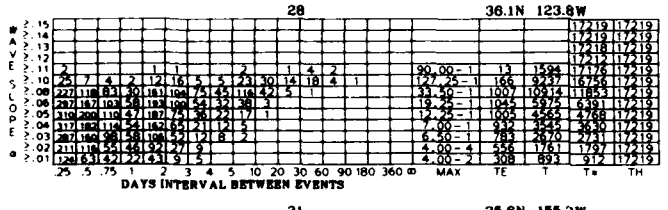
WAVE SLOPE (α) INTERVALS (Cont'd)

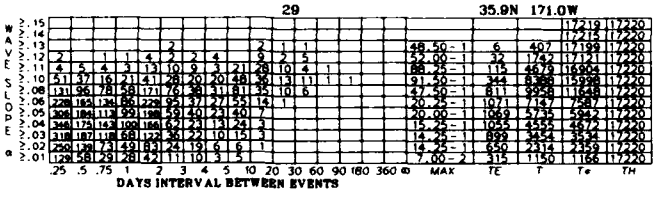


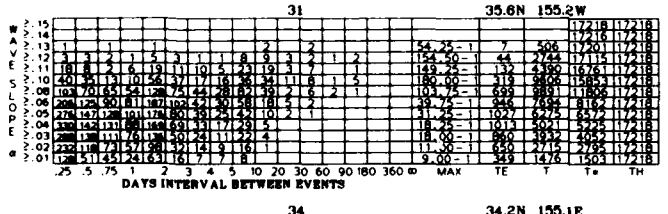


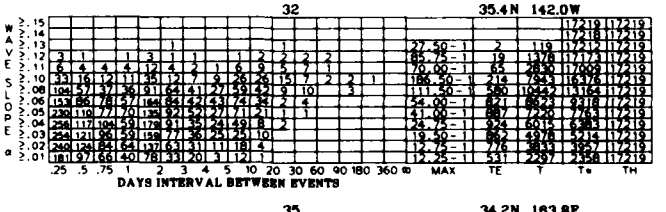


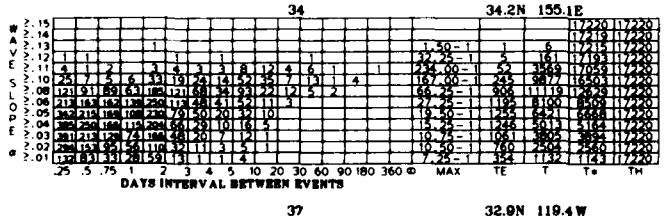


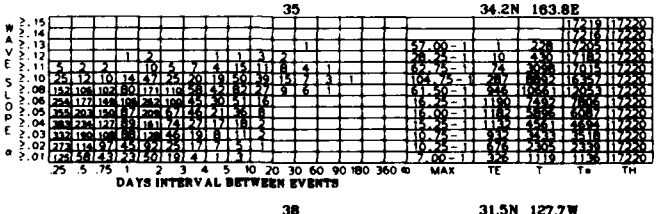


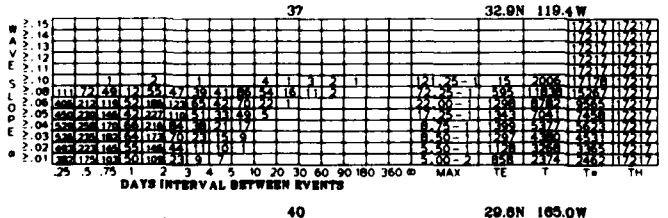


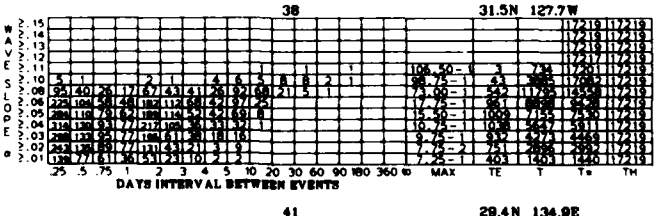


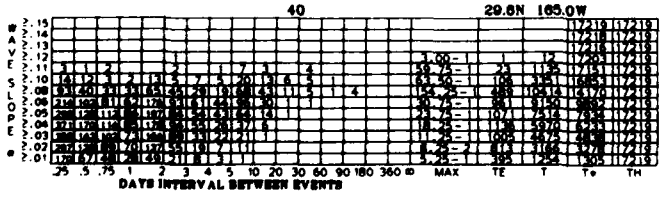


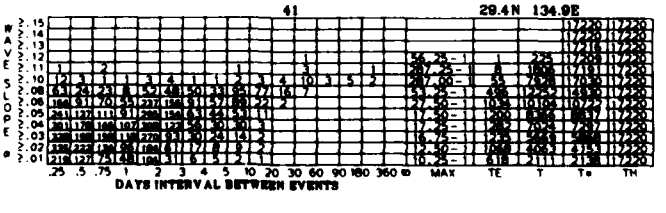


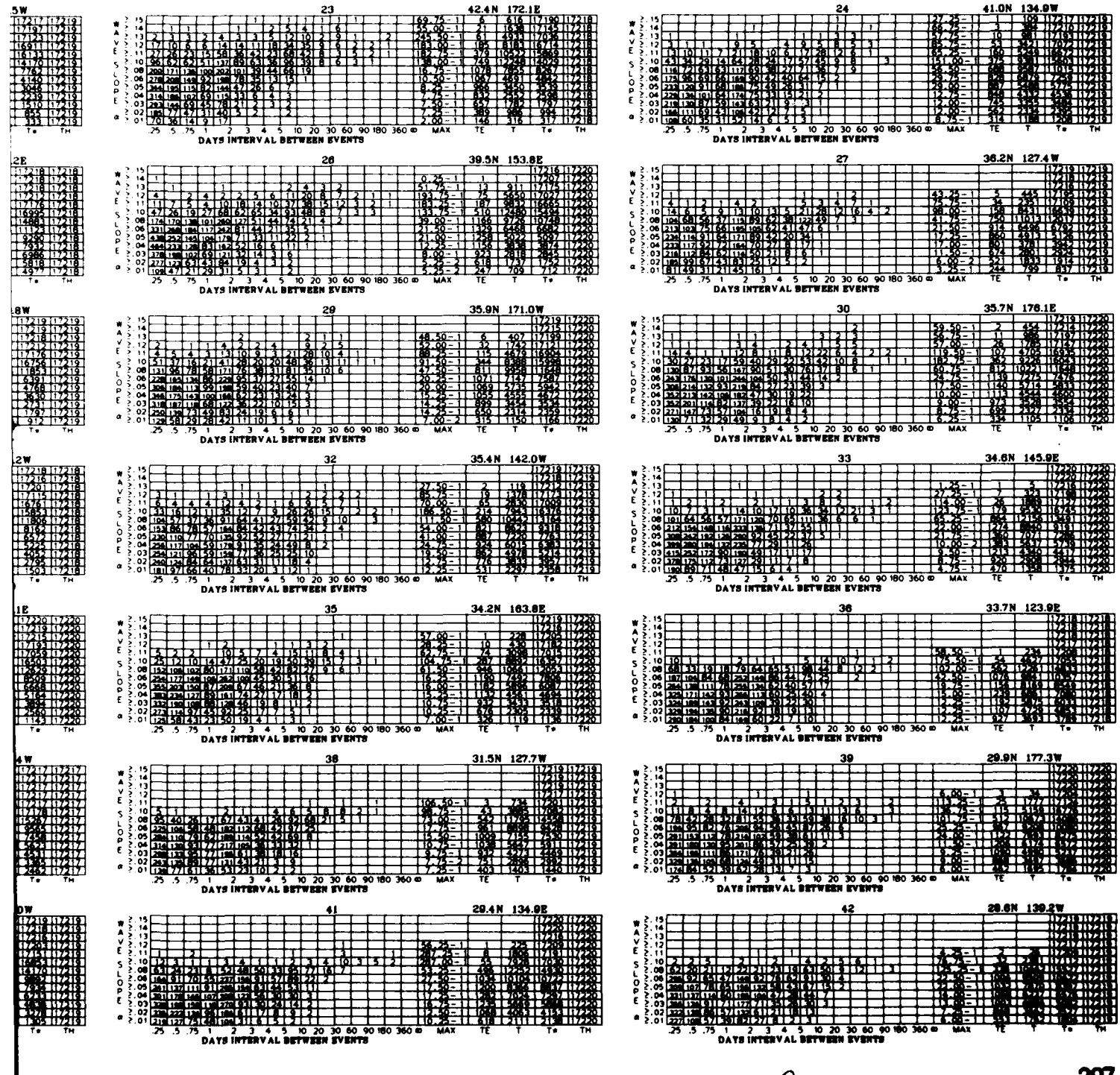




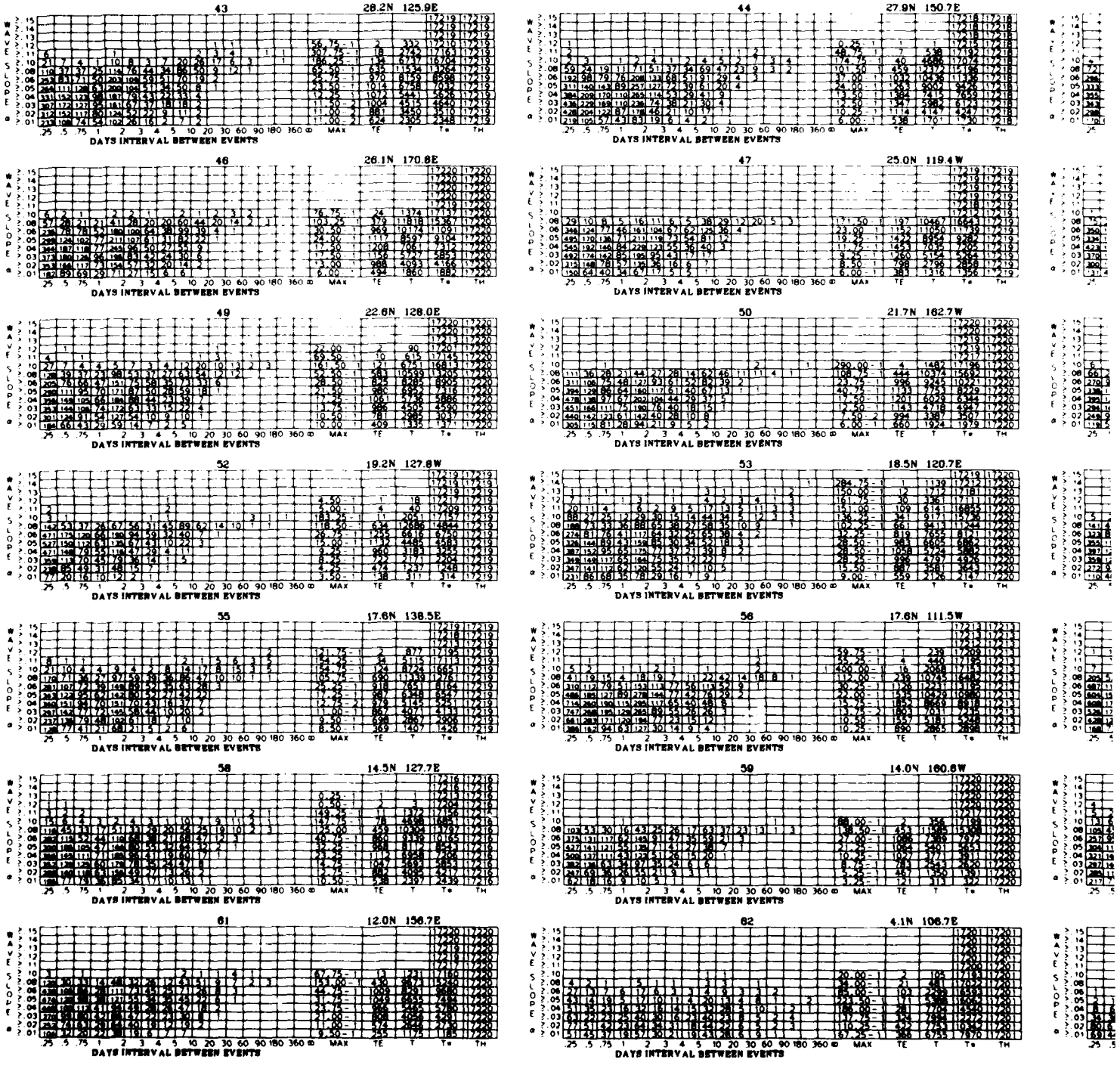




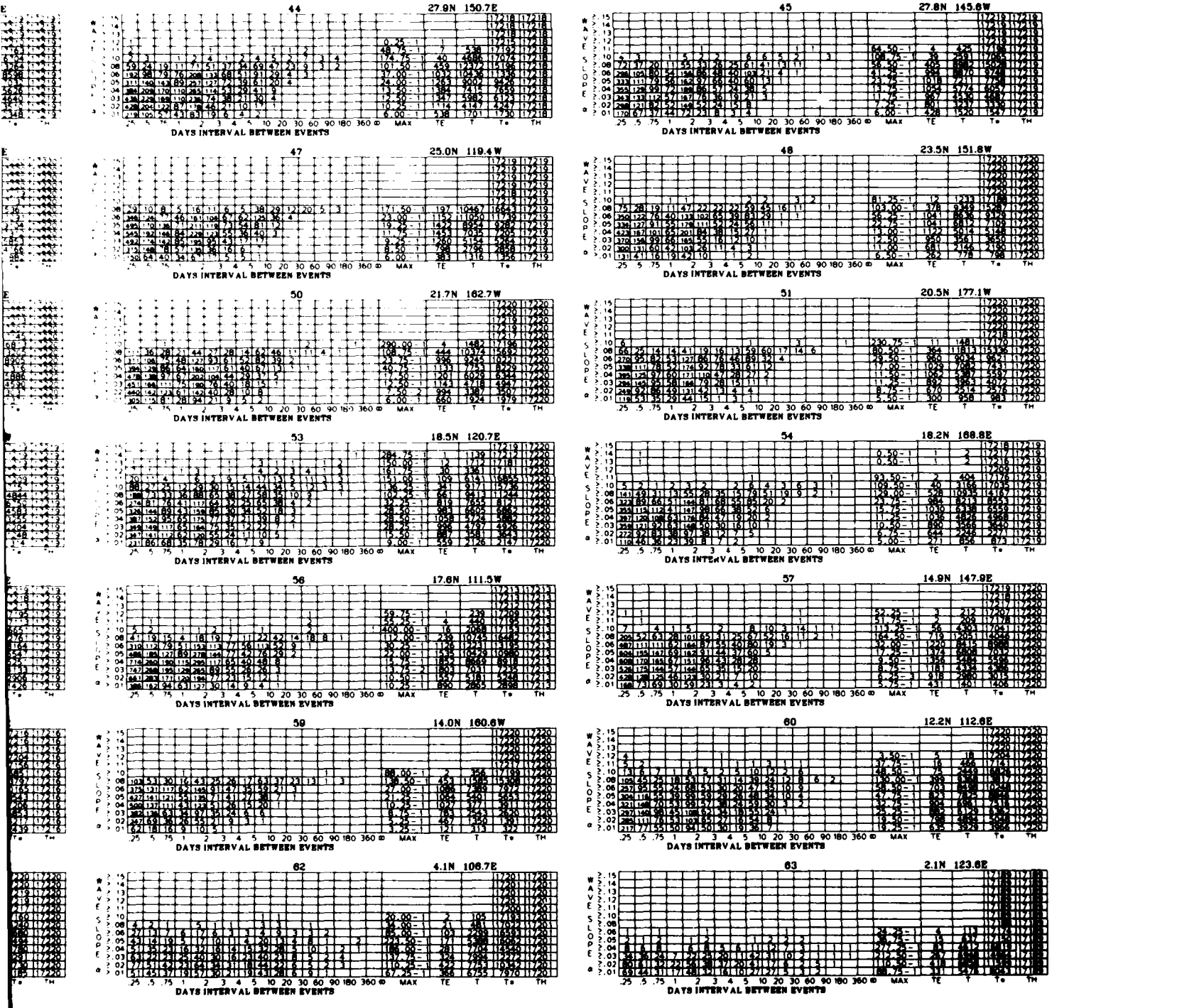



23 42.4N 172.1E
24 41.0N 134.9W
26 39.5N 153.8E
27 36.2N 127.4W
29 35.9N 171.0W
30 35.7N 176.1E
32 35.4N 142.0W
33 34.6N 145.9E
35 34.2N 163.8E
36 33.7N 123.9E
38 31.5N 127.7W
39 29.9N 177.3W
41 29.4N 134.9E
42 28.6N 139.2W
WAVE SLOPE α
DAYS INTERVAL BETWEEN EVENTS
MAX TE T Tθ TH

ANNUAL WAVE SLOPE (α)



WAVE SLOPE (α) INTERVALS (Cont'd)



APPENDIX A

SOWM DEVELOPMENT

Before 1975, FLENUMOCEANCEN relied on "singular" wave models to predict wind wave, and swell heights as well as their corresponding directions and periods. The basic weakness of the "singular" models is that they do not accurately depict the complex wave propagation in the larger oceans like the Atlantic and Pacific where several wave trains can coexist in one area at any given time.

The SOWM is a wave specification and forecasting procedure that will describe the complex frequency-direction spectrum of waves in deep water with a reasonable resolution on a grid of points over the ocean. As originally planned, there were to have been four times as many grid points and twice the angular resolution for the spectra. The computer program exists for this higher resolution model, but it is not operational. Running time and memory allocation constraints made it necessary to reduce the number of grid points and decrease the angular resolution. This coarser grid can result in a misinterpretation of sub-grid scale features and fetch.

Since the SOWM is a general purpose deep-water model, it was not designed to include effects such as refraction, diffraction, shoaling, and bottom friction. As a consequence, SOWM output should be interpreted with a great deal of care for shallow water applications. Also, there are no wave-wave or wave-current interaction mechanisms; the latter have been observed to alter the wave fields in regions of a strong current like the Aguhlas Current and the Gulf Stream.

The grid of points were laid out on gnomonic subprojections of an icosahedron (a solid whose surface is 20 equilateral triangles) so as to allow great circle propagation. For each of the 20 triangles, a gnomonic projection is used. Thus, a straight line with any orientation on any of the 20 subprojections is a great circle. On the sphere, the sides of the equilateral spherical triangle intersect at an angle of 72° and, thus, five triangles meet at a common point. On a map, the sides of the equilateral triangle meet at an angle of 60°, if each triangle is plotted as a gnomonic projection.

The triangles are not oriented in a simple way relative to the latitudes and longitudes on the Earth. Instead, the icosahedron was located so as to maximize the number of verticies on land. Fig. A1 shows the 20 triangles as their verticies and edges appear on a Miller projection[1]. Each triangle covers exactly the same area, and the marked distortion of a Miller projection is evident.

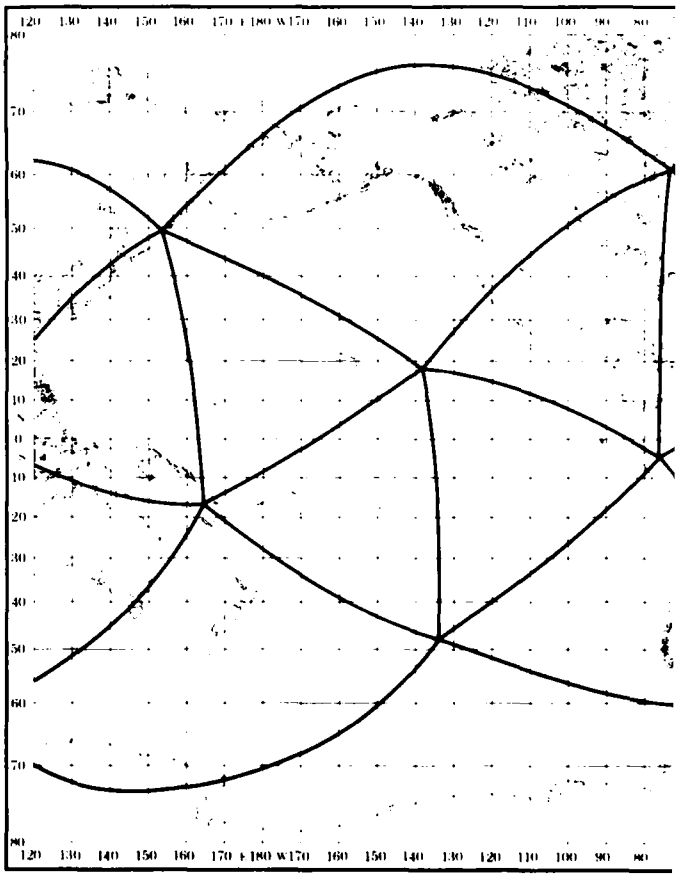


FIG. A1 The twenty equilateral triangles of
All triangles are the same size on t

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Two sides of a triangle form a natural set of axes for each subprojection and the grid of points at which the SOWM spectra are computed are formed by the intersections of equally spaced lines drawn parallel to the two chosen sides of each subprojection as shown in Fig. A2. Each grid point, in principle, ought to be representative of wave spectra anywhere within the hexagon surrounding the grid point.

[1] A Miller projection is a cylindrical projection similar to a Mercator projection with less exaggerated spacing of the parallels at high latitudes.

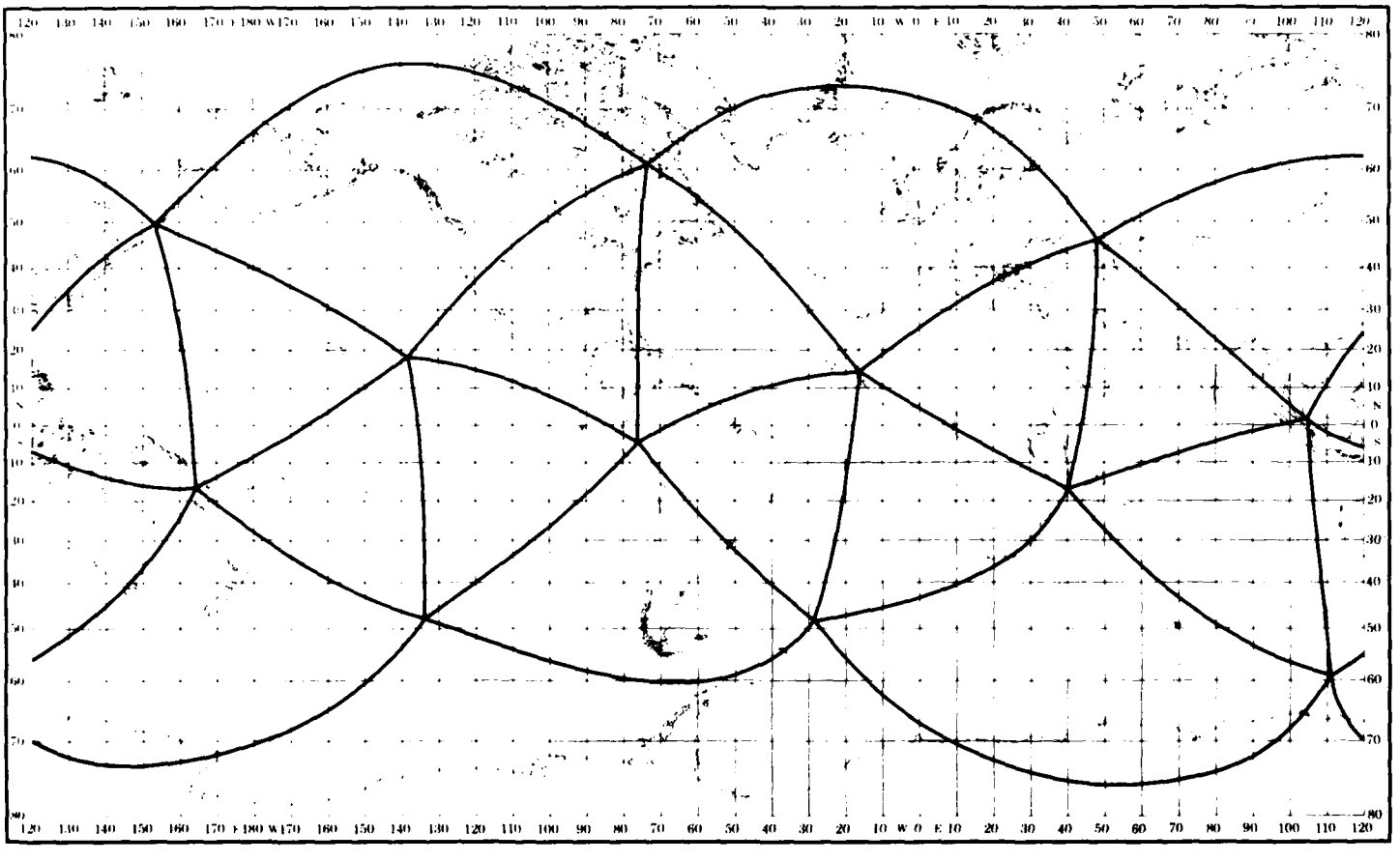


FIG. A1 The twenty equilateral triangles of the icosahedral gnomonic projection of the SOWM. All triangles are the same size on the Earth, but the Miller projection distorts them.

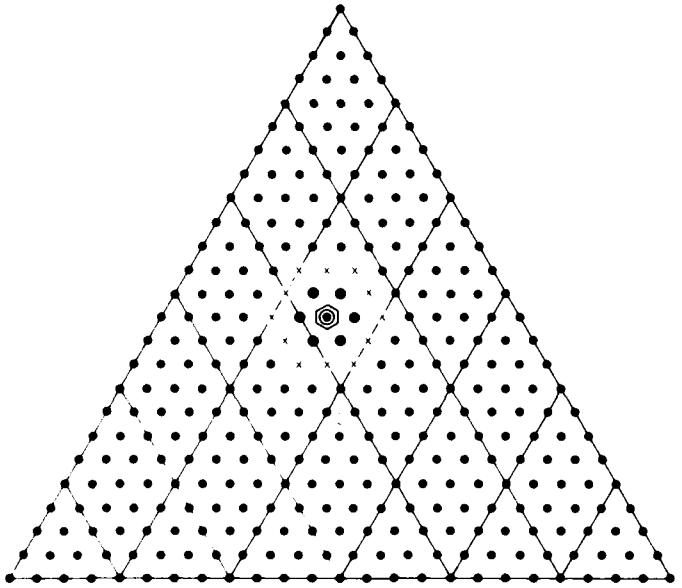


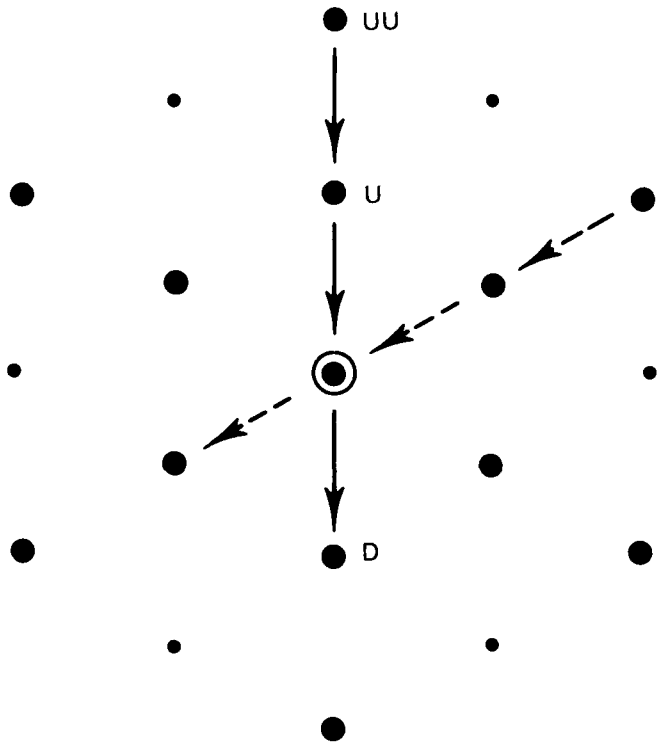
FIG. A2 The 325 grid points on a triangular gnomonic subprojection for the SOWM. Any straight line is a great circle. The hexagon around the circled dot shows the area represented by a grid point. The inner hexagon of heavy dots and the outer hexagon of X's show those grid points required to treat wave propagation effects at the circled point. (After Pierson, 1982)

The great circle property is indicated by the fact that waves can travel to a given grid point along a great circle path from any one of the six surrounding grid points, thus accounting for six of the 12 direction bands in the model. The other six direction bands have directions of travel halfway between those for each of the primary directions. These spectral components are effectively treated as if they come from a source on the inner hexagon surrounding each grid point at a point halfway between two grid points. The distance involved is thus only about 85% of the primary distance as shown in Fig. A3.

Land boundaries and a prescribed ice limit act as sinks for spectral components. Grid points just south of the equator are treated as an artificial land boundary to provide appropriate sinks for southward moving spectral components and artificially fetch limited waves for southerly winds at the equator. No swell from the Southern Hemisphere exists in the model, although they could be appreciable just north of the equator during the Southern Hemisphere winter. Also, there is no specific provision for tropical cyclones in the model.

Once the grid, the spectral resolution, and the time step are prescribed, the model can compute what the spectrum will be at each grid point x hours later, given an initial wave spectrum and the winds at all grid points at the time, $t = t_o$.

In the SOWM, this is accomplished by computing: (1) how much the wind-generated sea



SIX PRIMARY DIRECTIONS

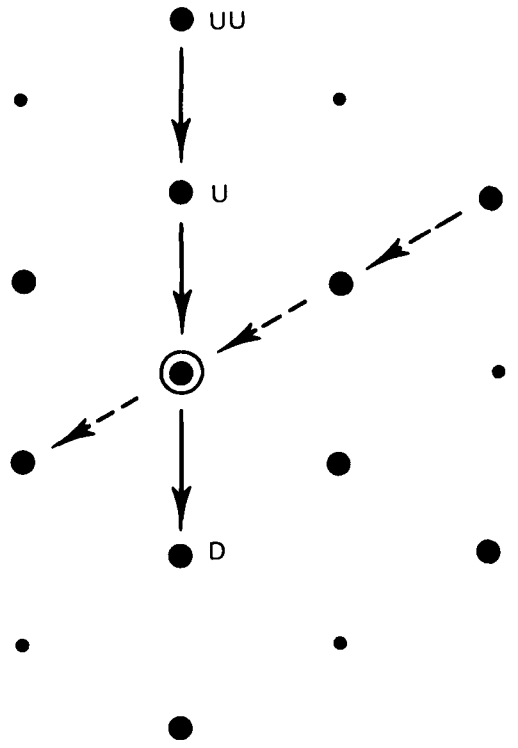
FIG. A3 Grid points involved in propagation. The large dots point a downward propagating spectral component r downstream point are shown. For secondary directi at the open circles – for one time step. The shift is

erly winds at the equator. No swell Southern Hemisphere exists in the though they could be appreciable just the equator during the Southern e winter. Also, there is no specific for tropical cyclones in the model.

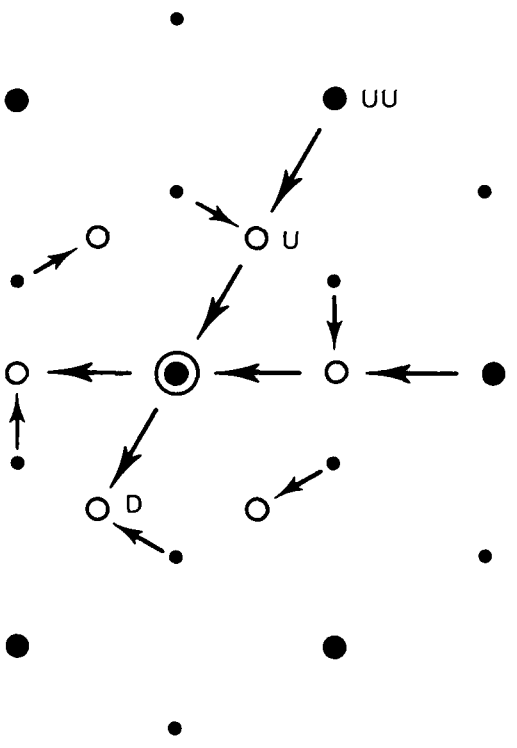
the grid, the spectral resolution, and step are prescribed, the model can hat the spectrum will be at each grid hours later, given an initial wave and the winds at all grid points at the t_o.

the SOWM, this is accomplished by : (1) how much the wind-generated sea will increase or grow (if at all) during the next time step at each grid point; (2) how much the waves traveling against the wind ($\pm$ 90°) will be dissipated; (3) how far each spectral component will propagate at a representative group velocity along a great circle path in x hours; and, then reassembling the spectra for the end of the time step.

For brevity, these steps are called Grow, Dissipate, and Propagate. For the SOWM hindcasts at the end of a six-hour time step, within the resolution of the model, the new spectra at the grid points represented the waves at t = t + 6 hours; new winds were then used, and the processes of Grow, Dissipate, and Propagate were repeated.



SIX PRIMARY DIRECTIONS



SIX SECONDARY DIRECTIONS

Grid points involved in propagation. The large dots on the left are for the six primary directions. For the circled point a downward propagating spectral component requiring an upstream point, an upper upstream point and a downstream point are shown. For secondary directions, the points on the inner hexagon are treated as if located at the open circles – for one time step. The shift is reversed for the next time step. (After Pierson, 1982)

APPENDIX B

THE FIB TECHNIQUE

The FIB technique analyzes the distribution of a variable by blending measurements of the variable and its gradients, which come from different sources and locations. The program uses reports from various observation stations with estimates of reliability, and it accepts regional or whole field estimates of the parameter and its derivatives (gradient, laplacian, etc.). It checks all input data, rejects gross errors, and assembles the data. From this, it blends or analyzes to produce the optimum analysis which best fits all the information at hand. The technique also produces grid-point reliabilities of the final product. All input data are reevaluated individually by comparison with the blended analysis, which includes the interacting effects of all information that went into the analysis.

Reliability or weight is a measure of the worth of a piece of information. In every step of the FIB process, information exercises only that degree of influence specified by its reliability value at that particular stage of the analysis. The ability to compute information reliability is the key to the power of the FIB technique.

In the reanalysis of the 6-hourly pressure fields, missing fields were resolved by combining forward and backward kinematic extrapolation. In order to carry information along a time axis by kinematic extrapolation, a steering field was required. The 500 mb height field was used for this purpose. From the pressure fields, the wind fields (speed and direction) were computed using the algorithm originally developed by MII for FLENUMOCEANCEN for use in their singular sea/swell model. This wind algorithm was designed to be of maximum significance when used for wave generation.

A statistical analysis of computed wind speeds versus ship-observed wind speeds was conducted. Previous investigations had determined that the wind algorithm produced no systematic bias in wind direction. From a sample of 2.3 million wind observations from ships available from 1964-65, it was concluded that the computed wind speeds on the average were 1.8% low when compared to the ship-observed wind speeds. This difference was considered insignificant. However, it should be noted that the ocean basins were treated as a whole, thereby possibly smoothing large deviations in relatively small areas or large deviations of opposite sign. Appendix F provides additional information regarding possible biases in wind speeds.

The introduction of an operational planetary boundary layer model by FLENUMOCEANCEN in October 1975 altered the algorithm used to calculate input winds for the SOWM model. In the boundary layer model the gradient wind calculated from the pressure field is modified, using similarity theory, by surface friction and thermal stratification (U. S. Navy, 1975). The winds were calculated for two levels (64 ft and 19 ft) required for the SOWM. Previous to October 1975 thermal stratification in the boundary layer was not explicitly considered in either the hindcast or the operational wind fields (Lazanoff and Stevenson, 1975; Mendenhall, 1984). This may be important since wave growth in the SOWM is dependent upon the friction velocity (the vertical transfer of horizontal momentum) which is dependent upon stability i.e., waves grow faster when the air is colder than the water compared to warm air over cold water.

APPENDIX C

PARAMETER DERIVATIONS

The output from a SOWM hindcast includes a directional variance spectrum at each grid point as represented by 12 equally divided direction bands and 15 frequency bands of varying widths as depicted in Tables C1 and C2. The direction bands are unique for each grid point, but the frequency bands remain constant for all grid points (Table C2). The lowest possible frequency in a SOWM spectrum is 0.0390 Hz which corresponds to a period of 25.6 seconds. Conversely, the highest frequency is 0.308 Hz which corresponds to a period of 3.24 seconds. The SOWM generates 'energy variances' in each cell within the 180 element matrix from input wind fields. There is a certain amount of confusion inherent in the terminology 'energy variances' since the values within each cell are not energies. It is necessary to digress somewhat to appreciate the roots of this terminology.

In a steady Sea State the record of the waves (a continuous time series of the rise and fall of the sea surface at a point) does not

TABLE C1

AN EXAMPLE OF A DIRECTIONAL VARIANCE SPECTRUM

Wind Direction = 160° Wind Speed = 21.5 kn

Central Frequency (hz)

Direction (deg)	.308	.208	.158	.133	.117	.103	.092	.081	.072	.067	.062	.056	.050	.044	.039	Directional Total
96.6																
66.6																
36.6																
6.6																
336.6																
306.6																
276.6				.01	.06	.10	.15	.42	.15	.02		.02				.93
246.6	.04	.13	.18	.13	.13	.11	.05	.03	.01			.01				.82
216.6	.06	.20	.35	.29	.33	.18	.06	.02								1.49
186.6	.06	.20	.37	.30	.28	.01	.09	.02								1.33
156.6	.04	.14	.20	.14	.12	.01	.03	.01								.69
126.6	.03	.08		.04	.03											.18
Frequency Spectrum	.23	.75	1.10	.91	.95	.41	.38	.50	.16	.02		.03				5.44 Total (ft^2)

Derived parameters: $\bar{H}_{m_o}$ = 9.3 ft., T_p = 8.57 s., α = 0.085, PWD = 212°, ρ_c = 0.77

ighest frequency is 0.308 Hz
to a period of 3.24 seconds.
s 'energy variances' in each
80 element matrix from input
ere is a certain amount of
t in the terminology 'energy
the values within each cell are
It is necessary to digress
reciate the roots of this

Sea State the record of the
us time series of the rise and
urface at a point) does not

TRUM

n

.056	.050	.044	.039	Directional Total
.02				.93
.01				.82
				1.49
				1.33
				.69
				.18
.03				5.44 Total (ft^2)

77

repeat itself exactly from one wave to the next because the waves are a superposition of sinusoids with many different frequencies and directions of travel. Every wave record of finite length as a function of time, however, can be decomposed into harmonics. The zeroth harmonic is the mean elevation of the sea and is assumed to be zero for the analysis since the contributions from much longer periods such as the tides are constants during the time of observation. The first harmonic, is a least squares fit of a sinusoid with a period equal to the wave record with its peak positioned such that its amplitude is maximized. The first

TABLE C2

BAND NUMBER, BAND WIDTH, CENTRAL FREQUENCY (AS A FRACTION AND A DECIMAL), PERIOD, AND BANDWIDTH BOUNDS (After Pierson, 1982)

Band Number	Band Width x 180	Central Frequency	Central Frequency	Period	Lower Bound x 180	Upper Bound x 180
1	24	55.5/180	$0.30833\overline{3}$	3.24	43.5	67.5
2	12	37.5/180	$0.20833\overline{3}$	4.8	31.5	43.5
3	6	28.5/180	$0.15833\overline{3}$	6.32	25.5	31.5
4	3	24.0/180	$0.13333\overline{3}$	7.5	22.5	25.5
5	3	21.0/180	$0.11666\overline{6}$	8.57	19.5	22.5
6	2	18.5/180	$0.10277\overline{7}$	9.73	17.5	19.5
7	2	16.5/180	$0.09166\overline{6}$	10.91	15.5	17.5
8	2	14.5/180	$0.08055\overline{5}$	12.4	13.5	15.5
9	1	13.0/180	$0.07222\overline{2}$	13.85	12.5	13.5
10	1	12.0/180	$0.066\overline{6}$	15.0	11.5	12.5
11	1	11.0/180	$0.0611\overline{1}$	16.4	10.5	11.5
12	1	10.0/180	$0.055\overline{5}$	18.0	9.5	10.5
13	1	9.0/180	$0.050\overline{0}$	20.0	8.5	9.5
14	1	8.0/180	$0.044\overline{4}$	22.5	7.5	8.5
15	1	7.0/180	$0.038\overline{8}$	25.7	6.5	7.5

harmonic has one maximum and minimum for the entire wave record. The second harmonic has a period of one-half the wave record with its two peaks positioned such that it too has maximum amplitude. Each subsequent harmonic can be thought of as a least squares fit of a sinusoid with the number of peaks and valleys (or the period) increasing (decreasing) corresponding to the harmonic number. By adding each new harmonic to the preceding harmonics, the harmonics or the 'Fourier Series' begin to resemble the wave record. If the number of observations on the wave record is N, then N/2 harmonics will completely describe the wave record.

The average energy in the wave motion per unit area is described by:

$$E = \tfrac{1}{2} \rho g a^2 \qquad (C1)$$

where ρ is the density of the ocean water, g is the acceleration of gravity, and a is the wave amplitude. Half of the energy is kinetic, and the other half is potential.

Recalling that each wave record can be decomposed into a number of harmonics, then if the amplitude of each harmonic is squared, multiplied by $(\frac{1}{2} \rho g)$, and plotted on a graph as the ordinate using the associated frequency or period of the harmonic as the abscissa, the resulting graph is a 'wave energy spectrum.' Initially it was customary to present the spectrum in this manner (World Meteorological Organization, 1976), but since the magnitude of the right-hand side of Eq. C1 is dominated by (a^2) the multiplication of (ρg) is now omitted. This is the format of the data generated in the SOWM hindcasts. Each cell in Table C1 can be summed to yield the quantity $(1/2a^2)$. The omission of (ρg) transforms the 'wave energy spectrum' into an 'energy variance spectrum' or more appropriately 'variance spectrum,' since the sum of each cell in Table C1 will equal the variance of the spectrum of the wave record it is representing. Likewise, the area under a variance spectrum curve as derived from the frequency spectrum totals in Table C1 will equal the variance of the spectrum represented.

WAVE HEIGHT

In Table C1 each quantity within the cel of the table has units of ft^2, and cells withc any values contain component variances less th $0.01\ ft^2$. Such small values were consider insignificant, and were not retained in t output generated from the SOWM hindcast. T total variance of each spectrum can be convert to a spectral wave height parameter (H_{m_o}) whi closely corresponds to the significant wa height ($\overline{H}_{1/3}$). The significant wave height on wave record is defined as the average height the highest one-third of the wave heights. T quantity ($\overline{H}_{1/3}$) has been shown to rough approximate the characteristic wave heig observed visually (Cartwright, 196 Nordenstrom, 1969). The spectral wave heig parameter (H_{m_o}) from Rayleigh statistics defined as:

$$H_{m_o} = 4 \, (m_o)^{\frac{1}{2}} \qquad (C$$

where m_o is the sum of the component varianc of all cells of Table C1. The quantity (m_o) commonly referred to as the moment of ord zero. The correspondence between H_{m_o} and $\overline{H}_1$ is strictly valid for a spectrum with most its energy or variance concentrated over narrow range of frequencies, but t approximation in the cases with a broad spectrum is sufficiently close for mo practical applications (World Meteorologic Organization, 1976).

WAVE PERIOD

The choice of the modal or peak wave peri (T_p) is based upon the 'variance densities' the point spectrum. 'Variance densities' wi dimension of ft^2-sec are obtained by dividi the variances by the frequency bandwidth. the SOWM the bandwidths vary in size fr 0.00560 to 0.1333 Hz. After dividing by t bandwidth, the energies are standardized wi respect to one another. T_p can then be obtain by choosing the central frequency, corresponding period, associated with the pe variance density. In Table C1, T_p is associat with the central frequency of 0.117 Hz, whi equates to a period of 8.5 seconds. The probl

WAVE HEIGHT

In Table C1 each quantity within the cells the table has units of ft^2, and cells without y values contain component variances less than 01 ft^2. Such small values were considered significant, and were not retained in the tput generated from the SOWM hindcast. The tal variance of each spectrum can be converted a spectral wave height parameter (H_{m_o}) which osely corresponds to the significant wave ight ($\overline{H}_{1/3}$). The significant wave height on a ve record is defined as the average height of e highest one-third of the wave heights. The antity ($\overline{H}_{1/3}$) has been shown to roughly proximate the characteristic wave height served visually (Cartwright, 1964; rdenstrom, 1969). The spectral wave height rameter (H_{m_o}) from Rayleigh statistics is fined as:

$$H_{m_o} = 4\ (m_o)^{\frac{1}{2}} \qquad (C2)$$

ere m_o is the sum of the component variances all cells of Table C1. The quantity (m_o) is mmonly referred to as the moment of order ro. The correspondence between H_{m_o} and $\overline{H}_{1/3}$ strictly valid for a spectrum with most of s energy or variance concentrated over a rrow range of frequencies, but the proximation in the cases with a broader ectrum is sufficiently close for most actical applications (World Meteorological ganization, 1976).

WAVE PERIOD

The choice of the modal or peak wave period) is based upon the 'variance densities' of e point spectrum. 'Variance densities' with mension of ft^2-sec are obtained by dividing e variances by the frequency bandwidth. In e SOWM the bandwidths vary in size from 00560 to 0.1333 Hz. After dividing by the ndwidth, the energies are standardized with spect to one another. T_p can then be obtained choosing the central frequency, or rresponding period, associated with the peak riance density. In Table C1, T_p is associated th the central frequency of 0.117 Hz, which ates to a period of 8.5 seconds. The problem associated with an ill-defined modal period of a specific spectrum, as occurs when there is only a small difference between the variance densities of two or more frequency bands, is minimized due to the large number of spectra included in the summaries presented in this atlas.

WAVE SLOPE

The slope associated with very high waves is considered by many ship designers to be a major contribution to operational failures. The wave slope is often estimated using the ratio of the wave height (H) to the wave length (L). However, the relationship usually used to obtain the wave length:

$$L = 5.12T^2 \qquad (C3)$$

where T is the wave period in seconds and L is the wave length in feet is valid only when the wave is a simple periodic sine wave. Pierson (1955) clearly states that Eq. C3 does not hold for the irregular sea surface. The assumptions under which Eq. C3 was derived are violated outside of the wave tank. An alternative method of estimating the wave slope is needed. Since the SOWM provides a frequency spectrum of wave energy this information is used directly in this atlas to calculate a wave slope parameter (α).

The wave slope parameter, α, is defined by:

$$\alpha = (m_4)^{\frac{1}{2}}/g \qquad (C4)$$

where m_4 is the moment of order four (the fourth moment). The moments are defined by:

$$m_n = \sum_{i=1}^{\kappa} V_i \omega_i^n \qquad (C5)$$

where ω is the circular frequency, n is the order of the moment, V_i is a component variance, and κ is the number of frequency bands. The parameter α is the root mean square of the absolute slope at any fixed point. Cummins and Bales (1980) derived the wave slope parameter α. It should be noted that α is more strongly influenced by the shorter, higher frequency components of the spectrum than by the

larger, longer, but not so steep waves near the modal frequency. Thus, a "rough sea" as measured by α, does not necessarily imply a "high sea." Information regarding the significance of its range of values can be calculated from the derivation of the root mean square wave slope of a regular wave. The resulting equation is (Gentile, 1982):

$$\alpha = \sqrt{2}\,\frac{\pi}{}\,\frac{H_w}{L_w} \qquad \text{(C6)}$$

where H_w is the wave height (crest to trough) and L_w is the wave length. Information in Table C3 is based upon Eq. C6.

TABLE C3

APPROXIMATE VALUES OF WAVE LENGTH TO WAVE HEIGHT FOR ASSOCIATED VALUES OF THE WAVE SLOPE PARAMETER (α)

Wave Slope Parameter (α)	Ratio Wave Length (L) to Wave Height (H)	Angle of Wave Slope Tan^{-1} (H/L)
0.01	222.0	0.3^0
0.02	111.0	0.5^0
0.03	74.0	0.8^0
0.04	55.5	1.0^0
0.05	44.4	1.3^0
0.06	37.0	1.5^0
0.08	27.8	2.1^0
0.10	22.2	2.6^0
0.11	20.2	2.8^0
0.12	18.5	3.1^0
0.13	17.1	3.3^0
0.14	15.9	3.6^0
0.15	14.8	3.9^0

PRIMARY WAVE DIRECTION AND DIRECTIONALITY

The primary wave direction (PWD) and t directionality (ρ_c) are two parameters which a derived from the directional spectrum totals opposed to the frequency spectrum totals. T definition of the PWD is taken directly from t FLENUMOCEANCEN's 1981 version of the operational SOWM computer program (Lazanof 1981). The PWD is determined by a multi-st process. First, the maximum variance (V_m) the directional totals is identified, where m one of the twelve directional bands. Next, t following true-false tests are performed sequence.

$$V_m > \sqrt{2}\,[\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C7}$$

$$V_{m,m+1} > \sqrt{2}\,[\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C8}$$

$$V_{m,m+1,m-1} > \sqrt{2}\,[\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C9}$$

where i is one of the 12 directional bands, a V_{m+1} is the higher of the two adjace directional variances.

If Eq. C7 is true, then the PWD is t

MARY WAVE DIRECTION AND DIRECTIONALITY

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$$_m > \sqrt{2}\ [\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C7)}$$

$$_{m,m+1} > \sqrt{2}\ [\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C8)}$$

$$_{m,m+1,m-1} > \sqrt{2}\ [\sum_{i=1}^{12} V_i]\ i \neq m \qquad \text{(C9)}$$

i is one of the 12 directional bands, and is the higher of the two adjacent ional variances.

f Eq. C7 is true, then the PWD is the direction associated with V_m. If C7 is false, Eq. C8 is tested; and thusly for Eq. C9. For the first successful test of Eq. C8 or C9, the vectors defined by the directions and variances of the quantities on the left-hand side of the inequalities are summed and the resultant direction defined as the PWD. If Eq. C9 is false, then the PWD is not defined, and a confused sea state is assumed. The methodology used for defining the PWD is somewhat arbitrary, but the technique has proved quite useful operationally (Lazanoff, 1981).

The degree of directionality is defined by:

$$\rho_c = (\rho_x^{\,2} + \rho_y^{\,2})^{\frac{1}{2}} \qquad \text{(C10)}$$

where

$$\rho_c = (1/m_o) \sum_{i=1}^{12} V_i \sin \Theta_i \qquad \text{(C11)}$$

$$\rho_y = (1/m_o) \sum_{i=1}^{12} V_i \cos \Theta_i \qquad \text{(C12)}$$

The angle Θ is the direction associated with the variances in the directional spectrum totals. The directionality has a value of one for an unidirectional sea state, and a value of zero when there is a completely symmetric distribution of variance around the compass. This parameter has the same properties as the 'constancy' parameter, often used in climatological wind summaries.

APPENDIX D

SOME APPLICATIONS OF CONTINGENCY TABLES

1. Question: What is the Climatological probability of having wave heights less than 20 ft at 56°N, 142°W in Autumn?

   Sample Application: A war at sea exercise is planned for 10 through 19 November at 56°N, 142°W. In order to complete all phases of the exercise within the 10 day period available, at least 7 days (not necessarily consecutive) with significant wave heights less than 20 feet are needed. Based on climatology, will 10 days probably be enough time to complete all phases of the exercise?

   Answer: Proceed to the Autumn wave height and wind speed contingency table for the grid point nearest to 56°N, 142°W. From Table 1 or Fig. 1 (North Pacific map) we find that this is the contingency table for sequence number 5. (For illustrative purposes the contingency table from the "Legends for Tables" is used in the following solution.) The climatological probability of having wave heights <20 ft can be found by adding the percent frequency of occurrences in the "T" or total column for wave heights <20 ft. The result is 2+3+9+14+20+17 = 65%. This means that on the average 65% of the time waves less than 20 ft will be encountered during November. Since 10 days have been allowed for the exercise on average 10 X .65 = 6.5 days will have significant wave heights less than 20 ft. Thus based on climatology, 10 days will probably not be enough time to complete the exercise. However, if the exercise period could be extended to 11 days, on average 7.2 days (.65 X 11) would have less than 20 ft waves and the exercise could probably be completed.

2. Question: How can the tables be utilized to predict the efficiency of a vessel, system, or operation, for a given area and time of the year?

   Answer: Operational enhancement by environmental tuning may be realized through the following procedure:
   (a) Identify the desired acceptable joint frequency of occurrence for the parameters of interest, i.e., wave height and wind direction, wave height and wave slope, etc.
   (b) Extract the joint percent frequency of occurrence for the parameter(s) of interest from the appropriate contingency table for the desired time interval (month, season, or annual), for the area(s) of interest.
   (c) Derive probabilities of efficiency by determining the percent of the time that the identified environmental conditions fall within the desired operable limits.

3. Question: How can the tables be used to assess how the environment may have been a contributing factor in the failure or damage of a system, operation, or equipment? (Note: This does not pertain to failures due to a specific episode, but rather to failures which result from cumulative stresses over a significant portion of the ship's "lifespan").

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Question: How can the tables be used to assess how the environment may have been a contributing factor in the failure or damage of a system, operation, or equipment? (Note: This does not pertain to failures due to a specific episode, but rather to failures which result from cumulative stresses over a significant portion of the ship's "lifespan").

Answer: Inputs to assess environmental impact on a system of operation may be gathered by:
(a) Identify the area(s), time (month) of failure or damage.
(b) Identify the wind and wave conditions which if exceeded would probably cause damage or failure.
(c) Derive the percent of occurrence of conditions, exceeding those conditions identified in Step 2, for the corresponding area(s) and time (Silver and Bales, 1983).

4. Question: How can these tables assist in ship design?

Answer: For example, U. S. Navy ship designers follow four steps when applying the information contained in this atlas to design.
(a) Define the mission of the vessel, and determine the significant wave heights in which the mission must be performed at required levels of efficiency.

2

EXAMPLE

Mission	Maximum Allowable Ship Motion	Significant Wave Height
Operation of Aircraft	5° roll	<13 ft (4m)
Continuous Total Mission	10° roll	13-20 ft (4-6m)
Limited Operation	15° roll	20-30 ft (6-9m)
Survivability	N/A	>46 ft (14m)

(b) Identify the area(s) of operation.
(c) Extract wave height percent of occurrences from the Wave Height and Modal Wave Period Contingency Table for the appropriate area(s). This can be done monthly and annually.
(d) To calculate ship responses derive the percentage of successful, limited, and unsuccessful mission operation by using the percent frequencies of occurrence of the significant wave height operating envelopes with the joint frequencies of occurrence of significant wave height and modal wave period (Bales, 1983; Comstock, Bales, and Gentile, 1982). If the percentages of success derived in Step (d) are unsatisfactory for operating specifications the designer must fine tune the vessel's hull configuration to meet the operating envelope.

5. Question: How can these tables be utilized in planning a ship trial?

Answer: Ship trial planning can be enhanced through the use of this atlas by following a procedure similar to that used by the ship designer to identify areas of the ocean likely to provoke the desired ship motions at a given time of the year.
(a) The first step is to define the seaway (upper and lower wave height limits) best suited for specific tasks of the ship trial.
(b) Identify the general geographic area of the trial.
(c) Identify the times (months) which have acceptable probability (e.g., 50%, 75%, 80%, etc.) of occurrence of the desired wave heights. Probabilities of occurrence can be derived by extracting the wave height from the wave height contingency tables.



APPENDIX E

DURATION AND INTERVAL TABLES

In the seasonal tables, durations and intervals that are underway at the beginning of a season are treated as if they began on the first day of the season. The other alternative, going backwards in time into the previous season to search for the actual beginning time, was considered less appropriate for planning purposes. When a mobile platform (ship) arrives at a location at some arbitrary time, the duration of the current episode previous to the ship's arrival is not usually important. The ship is affected only by the number of hours the episode is likely to continue for the time the ship remains in that vicinity. It is not particularly important that the beginning of a season was used for the start-up of duration or interval frequencies, whereas, actual operations may be scheduled to begin at times other than the beginning of the season; episodes are likely to occur in a near-random manner through the course of specific seasons. In terminating durations and intervals, episodes that carried beyond the end of the season were counted until they actually ended or they continued for more than one season (90 days), whichever occurred first. This prevents episodes from becoming artificially short simply due to the ending of the season. For example, if a plan calls for a ship to be at a specific location near the end of the season and remain in that vicinity for several weeks into the next season, the planner only needs to check the table for the season in which he plans to arrive and not a subsequent table for some later season.

In the summary tables covering all seasons, durations and intervals that are underway at the beginning and end of the period of record are not counted. These summary tables represent the wind or wave environment at a fixed position over the 12.5-year hindcast period. By assuming a stable climate and using appropriate statistical procedures, these tables can be used to estimate conditions which would affect a fixed platform for the expected lifetime of the platform at a fixed position.

Missing data were not replaced with estimated values. When missing data were encountered, the ongoing and subsequent episodes were excluded from the duration and interval frequencies. This tends to reduce the number of very long-duration events common to the summary tables covering all seasons. It has little effect on the statistics for shorter duration phenomena.

Definitions of column trailers in the duration and interval tables (see 'Legends for Tables') are as follows:

MAX: The maximum duration (or interval) in hours, followed by the number of times an episode of that length occurred. The abbreviation "SEA" in the seasonal tables represents episodes that lasted one season or longer.

TE: The number of events satisfying the stated criteria. An event begins with the wind speed, wave height or slope increasing to the given threshold.

TI: The number of intervals. These are episodes not satisfying the stated criteria. An interval begins with the wind speed, wave height or slope falling below the given threshold.

T: The total number of hindcasts that were included in (TE) or (TI).

T*: The total number of hindcasts that met the stated criteria. This is more than T if missing data made the duration or interval impossible to determine. It can be used to determine the probability of encountering the conditions specified (by computing T*/TH).

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T: The total number of hindcasts that were included in (TE) or (TI).

T*: The total number of hindcasts that met the stated criteria. This is more than T if missing data made the duration or interval impossible to determine. It can be used to determine the probability of encountering the conditions specified (by computing T*/TH).

TH: The total number of hindcasts examined.

If the number of the 'duration of events' or 'intervals between events' exceeds 999, the symbol 'K' is used to denote thousands, and the '$\geq$' symbol is used to denote greater than or equal to. For example, $\geq$1K implies greater than or equal to 1,000 durations or intervals. In order to correctly interpret the tabulations, specific examples of the various types of duration and interval tables are provided in the 'Legends for Tables.'

When answering questions using the duration and interval tables, it is important to distinguish between questions that require the use of the number of episodes and those that require the number of hindcasts. Answers for questions regarding the <u>percentage of time</u> at or above, or below, certain thresholds require the use of the number of hindcasts. On the other hand, questions concerned with the <u>percentage of episodes</u> at or above, or below, certain thresholds demand the use of episode frequencies, where a one-day episode and a 60-day episode will each count as one episode.

The following examples are provided to illustrate applications of the tables. The numbers in the examples are extracted from the sample tables in the legends. Regardless of the type of parameter used (wind speed, wave height or slope), the procedures are not altered.

APPLICATIONS OF DURATION AND INTERVAL TABLES

1. Question: Of all the events with winds of 34 knots or more during a particular season, what percentage had durations of longer than one day?

   Sample Application: Winds have just increased to gale force (34 knots or more) at a ship's location. What is the climatological probability that the gale force winds will persist longer than one day?

Answer: The number of events (or episodes) ≥34 knots is 39 (from the TE column of the duration table in the 'Legends for Tables'). The number of events of winds ≥34 knots lasting more than one day is 1 + 3 + 1 + 1 = 6. The percentage of events with winds ≥34 knots lasting one day or more is thus 6 39 X 100% = 15.4%.

2. Question: What percentage of the time during a particular season can waves greater than or equal to 20 ft be expected to persist longer than 24 hours?

Sample Application: Carrier flight operations have been scheduled for a specified operating area during a particular season. Flight operations need to commence within 24 hours of arrival within the operating area. They cannot be conducted if the significant wave height is 20 ft or more. What is the climatological probability that the carrier will be unable to conduct flight operations in the operating area for more than 24 hours due to high seas?

Answer: This problem involves computations using hindcasts from the seasonal duration table rather than episodes from the duration table since we are answering a question regarding the percentage of time. The solution can be found by computing the joint percentage as follows: (percent of waves ≥20 ft times percent of ≥20 foot waves that persist longer than 24 hours). Note that the percent of ≥20 foot waves that lasted <24 hours plus the percent of ≥20 foot waves that lasted ≥24 hours is 100% so we can compute whichever is easier and subtract from 100% if necessary. Percentages are used because of the difference between T and T* caused by missing data. Step 1. Compute the percent of ≥20 foot waves that lasted >24 hours. In this example it will be easier to find the percent for ≤24 hours then subtract from 100% to obtain the percent we require. This requires the calculation of the total number of hindcasts meeting this criterion.

This procedure is as follows:

Duration	Hindcasts Per Event		Frequency (From Table)		Hindcasts ≥20 ft La ≤24 Hours
6 hours	1	X	7	=	7
12 hours	2	X	2	=	4
18 hours	3	X	8	=	24
24 hours	4	X	7	=	28
			TOTAL:		63

Thus, the percent of ≥20 foot waves that lasted ≤24 hours is (63 175) X 100% = 36.0%. The percent of ≥20 foot waves lasted >24 hours is 100% - 36.0% = 64.0%.
Step 2. The percent of waves ≥20 feet is (T*/TH) X 100% or (181 1236) X 100% = 14.6%.
Step 3. The answer is 64.0% X 14.6% = 9.4%

NOTE: If an answer is required for a period which spans two seasons an approximate procedure would be to calculate the answer for each season to get a range of expected duration or intervals.

3. Question: Considering all the intervals between events with significant

whichever is easier and subtract from 100% if necessary. Percentages are used because of the difference between T and T* caused by missing data. Step 1. Compute the percent of ≥20 foot waves that lasted >24 hours. In this example it will be easier to find the percent for ≤24 hours then subtract from 100% to obtain the percent we require. This requires the calculation of the total number of hindcasts meeting this criterion.

This procedure is as follows:

Hindcasts Per Event		Frequency (From Table)		Hindcasts ≥20 ft Lasting ≤24 Hours
1	X	7	=	7
2	X	2	=	4
3	X	8	=	24
4	X	7	=	28
		TOTAL:		63

Thus, the percent of ≥20 foot waves that lasted ≤24 hours is (63 175) X 100% = 36.0%. The percent of ≥20 foot waves lasted >24 hours is 100% - 36.0% = 64.0%.
Step 2. The percent of waves ≥20 feet is (T*/TH) X 100% or (181 1236) X 100% = 14.6%.
Step 3. The answer is 64.0% X 14.6% = 9.4%

NOTE: If an answer is required for a period which spans two seasons an approximate procedure would be to calculate the answer for each season to get a range of expected duration or intervals.

estion: Considering all the intervals between events with significant wave heights greater than or equal to 9 feet during a specific season, what percentage persisted more than 24 hours?

Sample Application: A tug has just arrived at the location of a salvage operation. Seas are less than 9 ft. In order to successfully conduct the salvage operation, the significant wave height must remain less than 9 ft for at least 24 hours. What is the climatological probability that the operation can successfully be conducted?

Answer: This problem involves the use of the seasonal interval tables, since we want intervals between wave height ≥9 ft. The number of intervals between events of waves ≥9 ft is 72 (from the TI column of the interval table). The number of intervals between events (episodes) of wave height ≥9 ft lasting 24 hours or less is 12 + 13 + 5 + 8 = 38. The percentage of intervals between waves ≥9 ft lasting 24 hours or less is thus (38 72) X 100% = 52.8%. In other words, 52.8% of all the episodes with waves <9 ft persisted 24 hours or less, and the percentage of <9 ft wave episodes lasting longer than 24 hours is 100% - 52.8% = 47.2%. Thus, the climatological probability that the operation can successfully be conducted is 47.2%.

4. Question: What percentage of the time can significant wave heights less than 12 ft be expected to persist longer than two days?

Sample Application: A particular location is being considered as an ASW (anti-submarine warfare) exercise area. Significant wave heights

less than 12 ft are required for the exercises, which normally last at least two days. On an annual basis, what percentage of the time could exercises be successfully conducted at the location?

Answer: This problem requires the use of hindcast frequencies from the interval table which summarizes all seasons. We proceed following the steps outlined in Question 2. Step 1. Compute the percent of <12 ft waves that lasted >2 days. This requires estimation of the total number of hindcasts meeting this criterion. Estimation is necessary because beyond one day, the 0.25 day resolution of the hindcasts is lost in the summary process, so we must approximate the average number of hindcasts per interval. Since the 1 to 2 day interval includes episodes consisting of 1.25, 1.5, 1.75 and 2 days (that is 5, 6, 7, and 8 hindcasts), the average hindcasts per interval is 6.5. In this example it will be easier and more accurate to find the percent for ≤2 days then subtract from 100 to obtain the percent we require. The procedure is as follows:

Interval	Hindcasts per Interval		Frequency (From Table)		Hindcasts Not ≥12 Ft Lasting ≤2 Days
0.25 day	1	X	53	=	53
0.50 day	2	X	34	=	68
0.75 day	3	X	25	=	75
1 day	4	X	15	=	60
1-2 days	6.5	X	52	=	338
			TOTAL:		594

Thus, the percent of <12 foot waves that lasted <2 days is (594 -9056) X 100% = 6.6%. The percent of <12 foot waves that lasted >2 days is 100% - 6.6% = 93.4%.

Step 2. The percent of waves <12 ft is (T*/TH) X 100% or (10761-13606) X 100% = 79.1%.

Step 3. The answer is 93.4% X 79.1% = 73.9%.

APPENDIX F

COMPARISON OF SOWM WITH OTHER CLIMATOLOGIES

In this section three other sources of wind and wave data are compared to the SOWM hindcast data (hereafter referred to as SOWM) namely: (1) U. S. Navy Marine Climatic Atlas of the World, Volume II, North Pacific Ocean; (1977) (hereafter referred to as SHIP) (2) U. S. Army Pacific Coast Hindcast, Deepwater, Wave Information; (1984) (hereafter referred to as ARMY); and (3) Climatic Summaries for NOAA Data Buoys; (1983) (hereafter referred to as BUOY). Detailed information regarding the origin of data from each of these three sources is contained within each atlas, but a brief summary of each of these data sources follow. Some additional data has been added to the ARMY and BUOY data. This includes another year of BUOY data, i.e. 1983 data and ARMY data summarized by month (Corson, 1984), as opposed to an annual basis.

The SHIP atlas contains climatic summaries of wind and wave data derived from archived observations of transient ships and Ocean Weather Stations (OWS) across the North Pacific Ocean. The summaries are based on data dating back to the nineteenth century, but the overwhelming majority of the data comes from the 1950s and 1960s, and early to mid 1970s. The wind speed from transient ships is often estimated rather than measured, while the OWS winds are measured. Quayle (1974, 1980) has shown that the long-term climatologies from measured winds (particularly at high wind speeds) at OWS are in fair agreement with estimated winds from transient ship observations. Cardone (1969) summarizes previous investigations of bias in winds reported by ships using the following formula (in knots):

$$U_C = 2.16\, U_O^{7/9} \qquad (F1)$$

Where U_C is the corrected wind speed and U_O is the observed wind speed from a single observation. The results of Quayle (1980) and Cardone (1969) are not necessarily in disagreement since the results of Quayle's study refer to climatological means and Cardone's study to individual ship observations. On the other hand, it has been generally recognized that wave data climatologies based upon visual ship observations reflect heights that are too low. Quayle and Changery (1982) provide several reasons for this discrepancy.

1. Until July 1963, only the higher wave train was digitized from the ship report. Therefore, to mix pre-July 1963 data with later data in a consistent fashion, one could use only the higher of sea and swell. This, indeed, is the recommended procedure by the World Meteorological Organization (1960). By using only the higher of sea and swell, the significant wave height $H_{1/3}$ (average height of the highest one-third of all waves present) is underestimated; a better estimate being:

$$H_s = (H^2\text{sea} + H^2\text{swell})^{1/2} \qquad (F2)$$

according to Darbyshire and Draper (1963), further elaborated by Jardine (1979), and Jardine and Lathan (1981). In the preparation of Pilot Charts of Monthly Weather Hazards - Waves for the Defense Mapping Agency (In Press) this discrepancy has been found to amount to only a 5% underestimation of the significant wave height. It is possible however, that additional biases are introduced because ship observers sometimes either cannot or do not distinguish between sea and swell waves in their observations.

2. A fair-weather bias toward lower waves is sometimes suspected, as ships may try to avoid bad weather (Quayle, 1974). However, since ships often must slow down in storms, more data will be reported, thus possibly counteracting the fair-weather bias. Further, winds appear to be relatively more accurate than waves (Quayle, 1980), a situation that complicates simple "fair-weather bias" hypotheses.

3. The height of the bridge on a typical ship may be some tens of meters above the sea

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1. Until July 1963, only the higher wave ain was digitized from the ship report. erefore, to mix pre-July 1963 data with later ta in a consistent fashion, one could use only e higher of sea and swell. This, indeed, is e recommended procedure by the World teorological Organization (1960). By using ly the higher of sea and swell, the gnificant wave height $H_{1/3}$ (average height of e highest one-third of all waves present) is derestimated; a better estimate being:

$$H_s = (H^2sea + H^2swell)^{1/2} \qquad (F2)$$

cording to Darbyshire and Draper (1963), rther elaborated by Jardine (1979), and rdine and Lathan (1981). In the preparation Pilot Charts of Monthly Weather Hazards - ves for the Defense Mapping Agency (In Press) is discrepancy has been found to amount to ly a 5% underestimation of the significant ve height. It is possible however, that ditional biases are introduced because ship servers sometimes either cannot or do not stinguish between sea and swell waves in their servations.

2. A fair-weather bias toward lower waves sometimes suspected, as ships may try to oid bad weather (Quayle, 1974). However, nce ships often must slow down in storms, more ta will be reported, thus possibly nteracting the fair-weather bias. Further, nds appear to be relatively more accurate than ves (Quayle, 1980), a situation that nplicates simple "fair-weather bias" otheses.

3. The height of the bridge on a typical lp may be some tens of meters above the sea surface, thus making waves appear smaller than they actually are.

Wave heights in the ARMY have been summarized for grid points off the west coast of North America and Hawaii. Like the SOWM these data were also derived from a discrete spectral model (Resio, 1981). However, for fetch-limited and duration-limited waves in their early stages of development, Dexter (1974), and Resio and Vincent (1979) indicate that a model such as used in the ARMY may result in significant differences from other discrete spectral models. For example, the SOWM does not use parameterized nonlinear wave growth theory, but the ARMY model does contain such parameterization. The ARMY model was run for the 20-year period 1956-1975 based on reconstructed sea-level pressure fields, initially similar to those used in the SOWM model, but with important modifications in and around extratropical cyclones (U.S. Army Hydraulics Laboratory, 1980; 1982; Corson, 1984). These modifications included a re-analysis of pressure gradients and storm central pressures using data from the Northern Hemisphere Historical Weather Map Series National Weather Service (NWS) in order to more accurately define the pressure fields. Using these reconstructed sea-level pressure fields a quasi-geostrophic wind field is estimated at the geostrophic level, and after consideration of thermal stability and baroclinicity it is reduced to a level of 64 feet.

Climatic summaries for the BUOY are derived from six NOAA data buoys 46001 through 46006. They provide one of the few sources of measured wave data. Unfortunately, the period of record available for summarization is rather short (generally 1976-1983) with frequent missing observations until about 1980. Of the six buoys available for comparison most are located within a few hundred nautical miles of the North American West Coast. The number of hourly or three-hourly observations at each buoy varies for any given month or buoy but generally is near 4,000 observations for the period of record used in this comparative study. A number of different buoy hulls were used during the period of record. Wind speeds were obtained primarily from the 10-m level, but buoy 46005 had wind

sensors located at the 5-m level during the latter part of this study. Since Dobson (1981) indicates that there is more or less (depending on stability) only about a 5% difference in the wind speeds at these two levels, corrections for height differences were not applied. In the climatological comparisons a 5% difference is too small to readily detect because of other sources of noise, such as differences in the period of record from which the climatologies are derived, and the fact that each point compared has slightly different geographic locations.

Each buoy payload included a strapped down accelerometer and an electronic double integration system. A digital filter called the "Wave Spectrum Analyzer" (WSA) was used to process the output through most of 1979. Although the quality of these data was not as good as had been desired due to a noisy signal and numerous periods of missing data, they have been deemed acceptable to most users (NOAA Data Buoy Office, 1981). Higher quality data were available after 1978 by using a more advanced payload system and a refined spectral system, the "Wave Data Analyzer" (WDA).

Comparisons of the wave period between various atlases have purposely been avoided. Users should be cautioned that the wave periods summarized in the SHIP atlas are associated with the higher of the two wave components, the sea or the swell. In the BUOY atlas, the wave period summarized refers to the average wave period. In this atlas and the ARMY atlas the wave period, as described in Appendix C, is the period associated with the largest variance density in the variance spectrum.

Where possible wave height and wind speed cumulative relative frequencies were calculated for various percentiles: 5%, 20%, 50%, 80% and 95% for each of the mid season months, February, May, August, and November. The percentiles were derived from ogives constructed from the upper limits of the class intervals used in this atlas, the SHIP atlas, and the ARMY atlas. Logarithmic interpolation was used to derive the appropriate wave height or wind speed when the percentiles associated with the upper class limits did not coincide with the desired percentiles. For the BUOY the observed hourly and three-hourly data were used to calculate the derived percentiles.

The results of the SOWM and SHIP comparisons of wind speed and wave height for 17 areas in the North Pacific Ocean are depicted in Figs. F1 through F8, respectively. From Figs. F1 through F4 it is readily apparent that there is reasonable agreement between the SOWM and SHIP wind speeds in most areas of the open ocean. There are some notable exceptions however, as the SOWM winds are considerably less than the SHIP winds in the proximity of the Kuroshio Current. This discrepancy may be attributed to the underestimation of the intensity and central pressures of rapidly developing extratropical storms and the effects of thermal stratification, particularly during arctic outbreaks. Similar underestimates were also found off the eastern coast of North America. This is another area of rapid wintertime cyclogenesis and thermal instability (U. S. Navy Hindcast Spectral Ocean Wave Model Climatic Atlas: North Atlantic Ocean, 1983). South of approximately 30°N the SOWM and SHIP winds do not agree as closely as they do to areas north of 30°N. In this area there is a tendency for the SOWM winds to be higher than the SHIP winds during the winter and spring months and lower during the summer and fall months.

The SOWM wave heights are shown to be

95% for each of the mid season months, February, May, August, and November. The percentiles were derived from ogives constructed from the upper limits of the class intervals used in this atlas, the SHIP atlas, and the ARMY atlas. Logarithmic interpolation was used to derive the appropriate wave height or wind speed when the percentiles associated with the upper class limits did not coincide with the desired percentiles. For the BUOY the observed hourly and three-hourly data were used to calculate the derived percentiles.

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The SOWM wave heights are shown to be significantly higher than SHIP wave heights for nearly all areas and all times of the year (Figs. F5 through F8). They help substantiate the bias toward lower wave heights in the SHIP atlas, sometimes even when the wind field in the SOWM is considerable less (up to 30%) than that observed by ship observations. Pierson (1982) states that despite lower winds, the SOWM often gives higher waves compared to visual estimates. This is at least partially attributed to the processing and observational biases in the SHIP atlas. In areas just off the coastal waters of Asia however, some SOWM wave heights are equal to or lower than those reported in the SHIP atlas. The general characteristics of the wave height comparisons more or less substantiate the underestimation of the wind field in the proximity of the Kuroshio Current. Pierson (1982) also indicates that the errors in the SOWM's wave heights are strongly dependent upon wind speed specification errors. Assuming a simple relation between a fully developed wave spectrum (sea) to the local wind speed (a gross simplification), Pierson (1982) shows that

$$\bar{H}_{1/3} = 1.82 \times 10^{-2} u^2 \qquad \text{(F3)}$$

where $\bar{H}_{1/3}$ is in feet and u^2 is the wind speed in knots. As an example, Table F1 depicts the differences in wave height for the month of November that would be expected if the wind speed as summarized in the SHIP atlas for the location 39N, 153E (Ocean Weather Ship X) was used in Eq. F3 as opposed to the speeds from the SOWM grid point at 39.5N, 153.8E. Of particular interest is the fact that for approximately the same difference in wind speeds (rows 3 and 4 in Table F2) the difference at a higher wind speed results in larger errors of wave height.

A qualitative summary of the differences between the SOWM and SHIP atlas is given in Table F2 for both the upper 20 percentiles (upper quintiles) and the lower 20 percentiles

2

TABLE F1

THE EFFECT OF DIFFERENT WIND SPEED ESTIMATES ON THE SIGNIFICAN

WIND SPEED (kn)				WAVE HEIGH	
SOWM 39.5 N 153.8 E	SHIP 39 N 153 E	SOWM / SHIP	DIFFERENCE SOWM–SHIP	SOWM 39.5 N 153.8 E	SHIP 39 N 153 E
8.4	13.0	0.7	4.6	1.2	3.1
15.5	21.8	0.7	−6.3	4.4	8.6
24.1	31.8	0.8	−7.7	10.6	18.4
32.5	39.9	0.8	−7.4	19.2	29.0

(lower quintiles). Based on Figs. F1 - F4 and Table F2 it is apparent that the wind speeds derived from the SOWM are for the most part reasonably close to those contained in the SHIP atlas, except for areas near the Asian Coast and some areas south of 30°N. Based on the wind field comparisons, the SOWM atlas wave height climatology should be an overall improvement over the SHIP atlas wave climatology in much of the North Pacific. However, in cases where the SOWM input winds are significantly low, the resulting wave heights may not be as high as they should be. This could occur even when the wave heights produced in the SOWM were comparable to those reported in the SHIP atlas. In these instances the wave heights reported in both the SHIP and SOWM atlases might, in fact, underestimate the actual wave height.

Since the ARMY did not contain wind summaries, comparisons with the SOWM are available for wave heights only (Figs. F9 through F12). The SOWM and ARMY wave heights are compared using five grid points, four near the coastal waters of the United States and Canada and one near the Hawaiian Islands. A fairly simple pattern emerges from the comparative climatologies. The SOWM wave heights are approximately 20% higher than the ARMY wave heights in the upper quintiles, but for the lower quintiles they are about 20% to 50% lower than the ARMY wave heights.Undoubtedly, a large portion of this difference can be attributed to the input wind fields generating the waves (see Appendix B). One exception to this generality is for the grid points near the Hawaiian Islands where the SOWM wave heights are lower than the ARMY wave heights at all percentiles, sometimes by as much as 50%.

TABLE F1

RENT WIND SPEED ESTIMATES ON THE SIGNIFICANT WAVE HEIGHT

) (kn)		WAVE HEIGHT (ft)			
SOWM / SHIP	DIFFERENCE SOWM - SHIP	SOWM 39.5 N 153.8 E	SHIP 39 N 153 E	SOWM / SHIP	DIFFERENCE SOWM-SHIP
0.7	4.6	1.2	3.1	0.4	-1.9
0.7	-6.3	4.4	8.6	0.5	-4.2
0.8	-7.7	10.6	18.4	0.6	-7.8
0.8	-7.4	19.2	29.0	0.7	-9.8

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Figs. F13 through F16 provided comparative climatologies between BUOY and SOWM data for the winds. Generally, the SOWM wind speeds are higher, by about 20% to 30%, than the BUOY wind speeds during the spring, fall, and winter months at the higher percentiles, but generally within 10% of the BUOY speeds at the lower percentiles. During the summer month of August the BUOY winds tend to be 10 to 20% higher than the SOWM winds south of 50°N and nearly equal to the SOWM winds north of 50°N. These wind speed differences have at least to some extent worked their way into the wave height climatologies since the SOWM wave heights during the spring, fall, and winter months are generally 20% to 50% higher for the upper quintiles than those at the NOAA BUOYS (Figs. F17 through F20). During the same seasons for the lower quintiles the SOWM wave heights are usually within 10 to 20% of the BUOY wave

TABLE F 2

QUALITATIVE SUMMARY OF DIFFERENCES BETWEEN DATA TYPES IN THE NORTH PACIFIC OCEAN FOR SOWM, ARMY, BUOY, AND SHIP DATA

UPPER 20 PERCENTILE

AREA	DATA SOURCE	TIME PERIOD							
		FEB		MAY		AUG		NOV	
		Wind	Wave	Wind	Wave	Wind	Wave	Wind	Wave
OPEN OCEAN NORTH OF 30 N	SOWM	H	H	L	H	H	H	H	H
	SHIP	H	L	L	L	L	L	H	L
	BUOY	L	L	H	L	H	L	L	L
	ARMY	X	X	X	X	X	X	X	X
OPEN OCEAN 15 N to 30 N	SOWM	H	H	H	H	L	L	L	H
	SHIP	L	L	L	L	H	H	H	L
	BUOY	X	X	X	X	X	X	X	X
	ARMY	X	X	X	X	X	X	X	X
PROXIMITY OF NORTH AMERICAN WEST COAST	SOWM	H	H	H	H	L	H	H	M
	SHIP	H	L	H	L	M	M	H	L
	BUOY	L	M	L	M	H	L	L	M
	ARMY	X	M	X	M	X	H	X	H
PROXIMITY OF JAPAN CURRENT	SOWM	L	H	L	H	L	H	L	H
	SHIP	H	L	H	L	H	L	H	L
	BUOY	X	X	X	X	X	X	X	X
	ARMY	X	X	X	X	X	X	X	X

LOWER 20 PERCENTILE

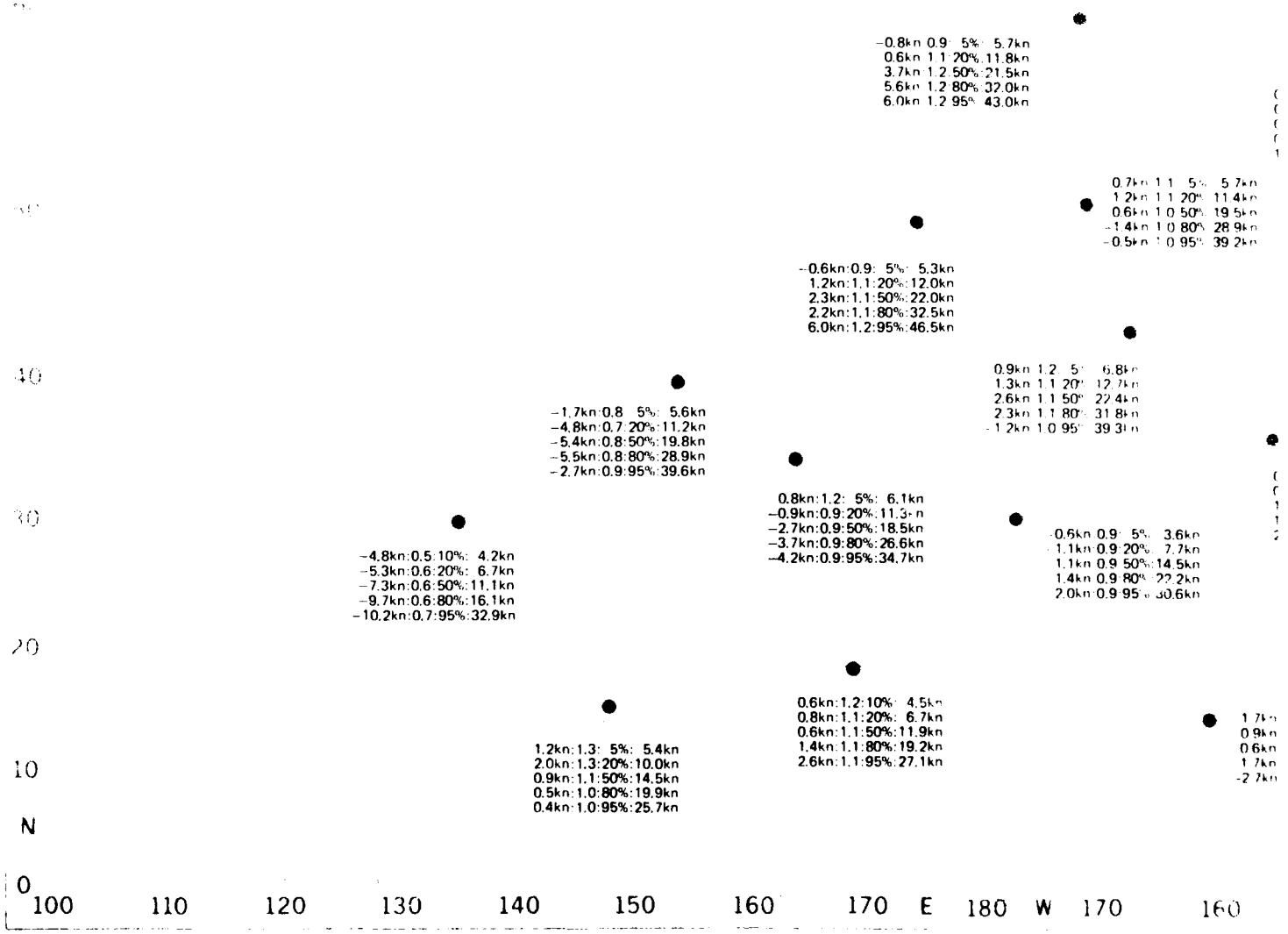
TIME PERIOD							
FEB		MAY		AUG		NOV	
Wind	Wave	Wind	Wave	Wind	Wave	Wind	Wave
H	M	M	H	L	L	M	M
H	L	L	L	L	L	M	L
L	M	H	M	H	H	M	H
X	X	X	X	X	X	X	X
H	H	H	H	L	M	H	H
L	L	L	L	H	M	L	L
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
H	M	H	M	M	M	H	M
H	L	L	L	H	L	H	L
L	M	L	M	L	M	L	M
X	H	X	H	X	H	X	H
L	H	L	H	L	L	L	H
H	L	H	L	H	H	H	L
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X

L Low M Middle H High X Unknown at present

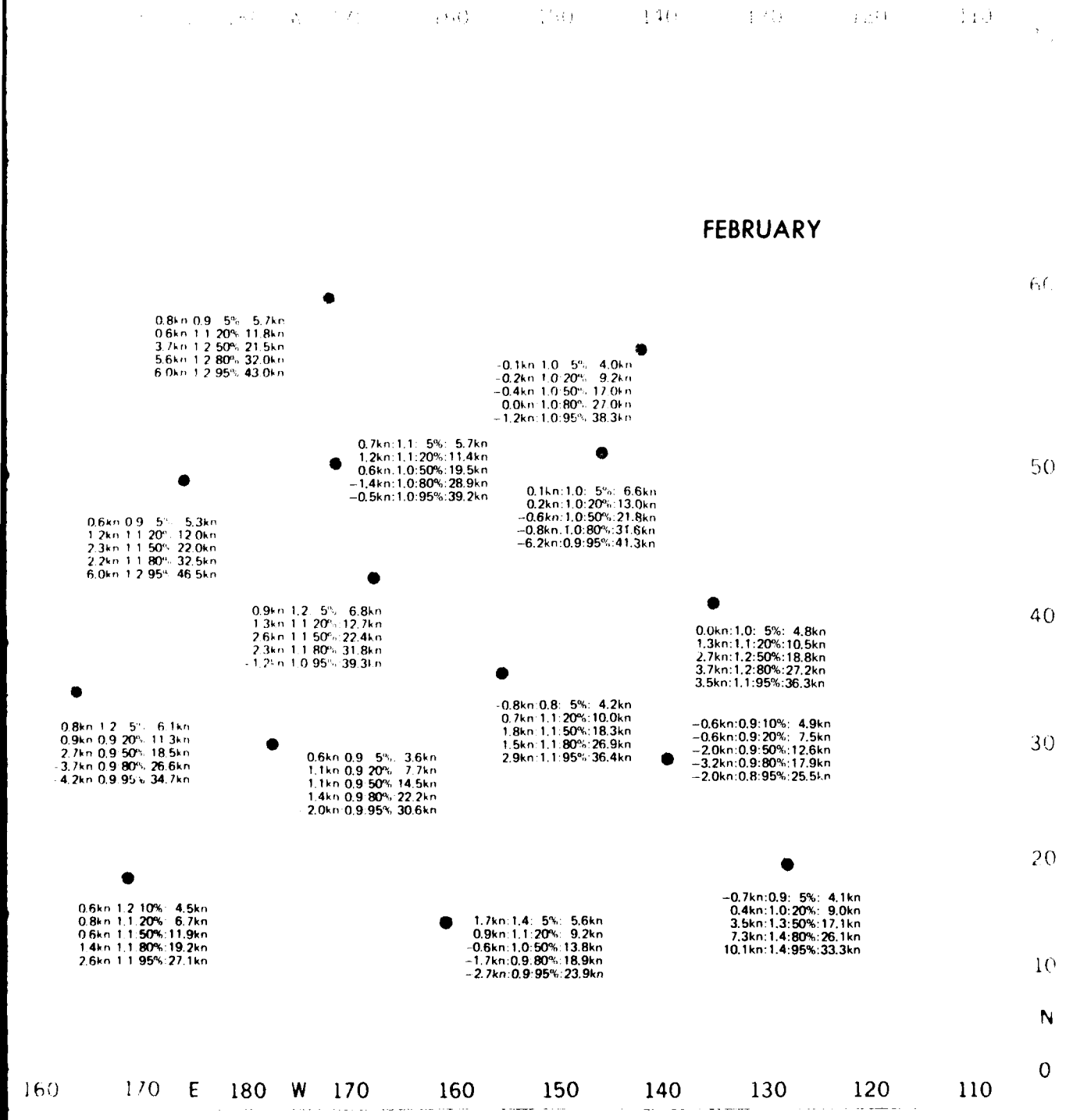
heights. During the summer month of August the SOWM wave heights tend to be higher than the BUOY wave heights north of 50°N and somewhat lower than the BUOY wave heights south of 50°N.

It cannot be overemphasized that the data sources in Table F-2 do not include matching years of data. In the BUOY climatologies data from the late 70's and early 80's do not overlap the years used in the SOWM atlas (late 60's to mid 70's) or the ARMY atlas (late 50's to mid 70's). It would be incorrect to assume that the SOWM or ARMY climatologies should exactly reproduce the BUOY climatologies.

FIG. F1 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS

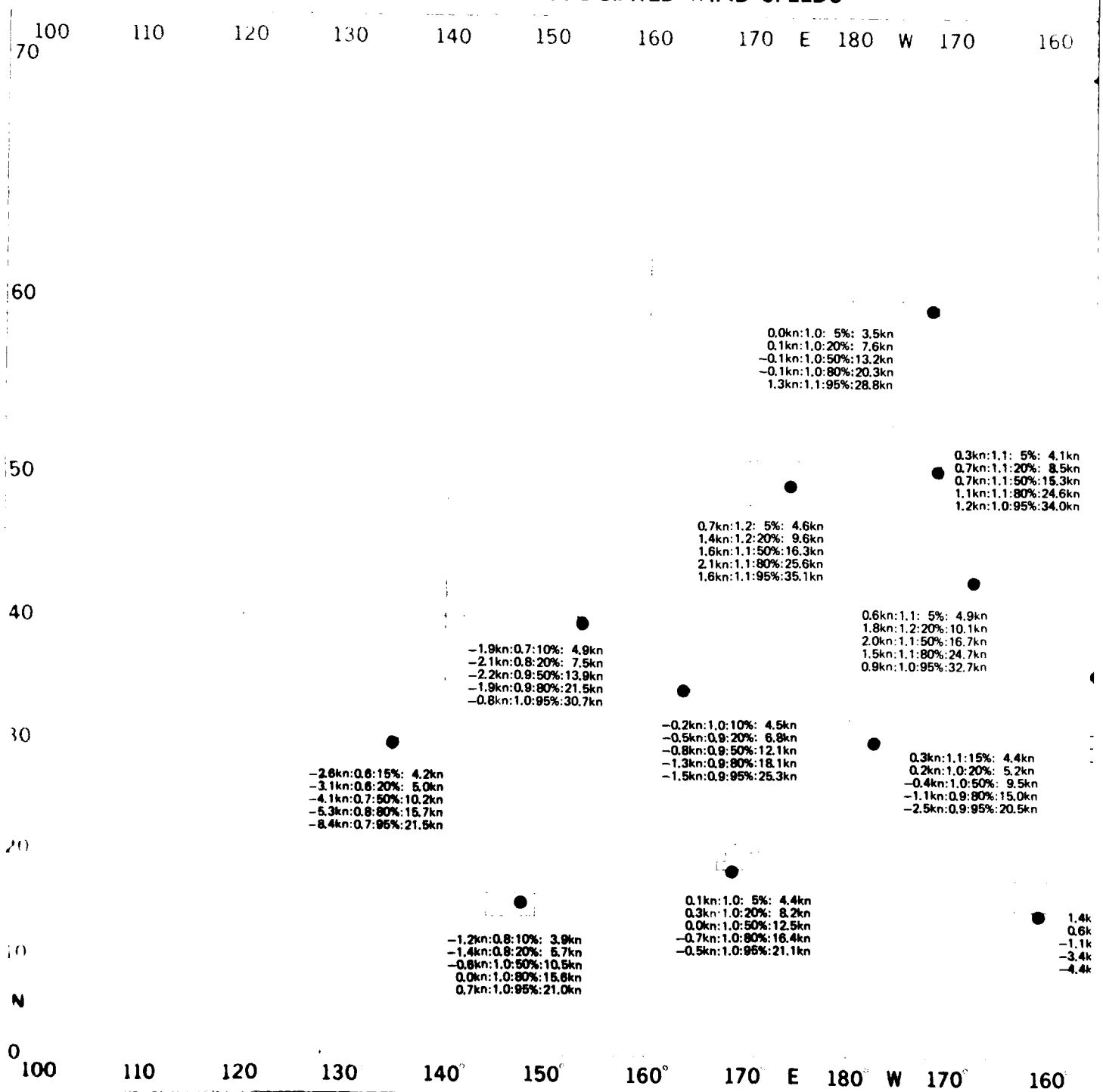


TIOS (SOWM/SHIP) OF SOWM AND SHIP WIND SPEEDS FOR SELECTED SOWM
TED WIND SPEEDS

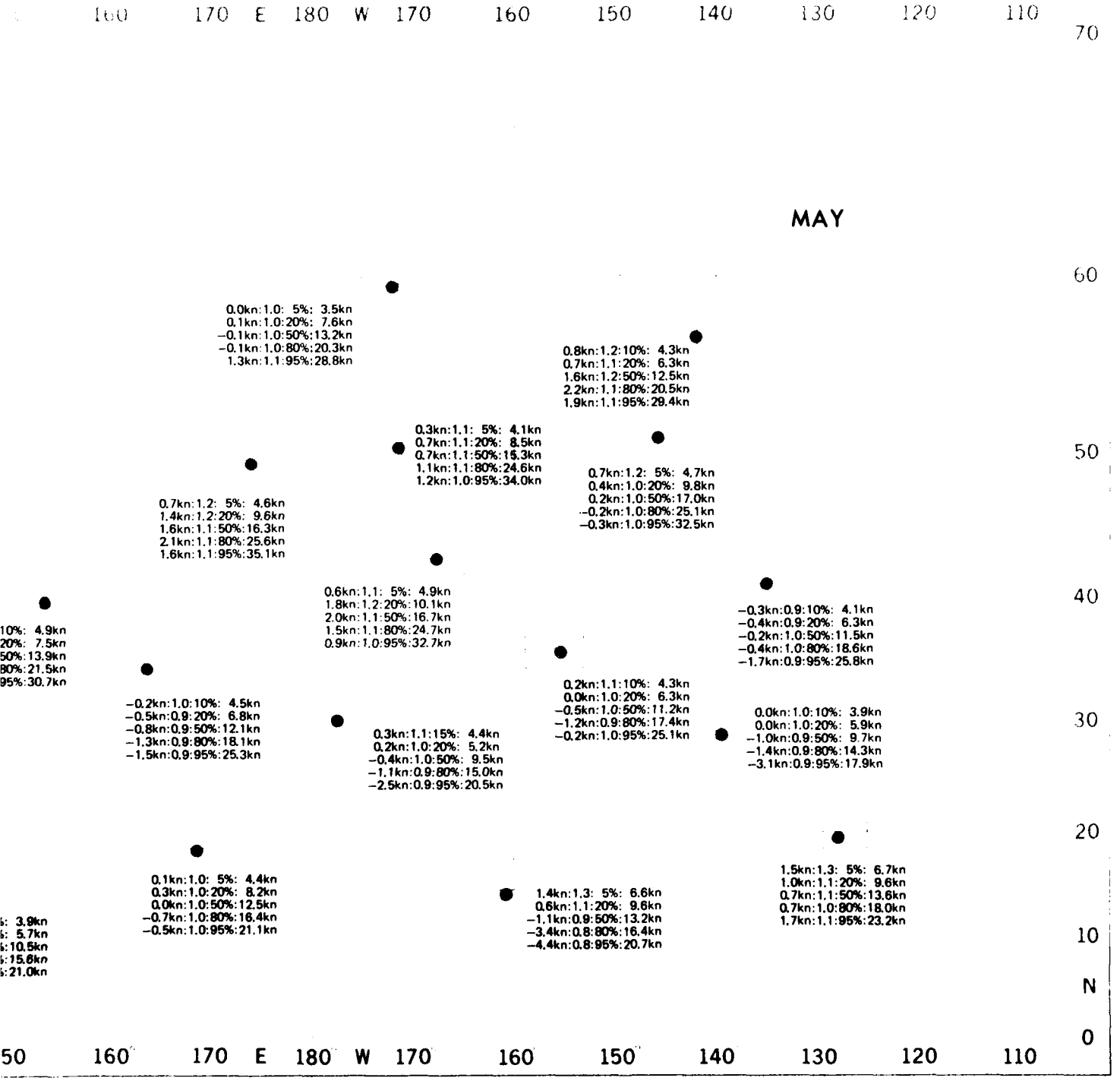


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FIG. F2 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS



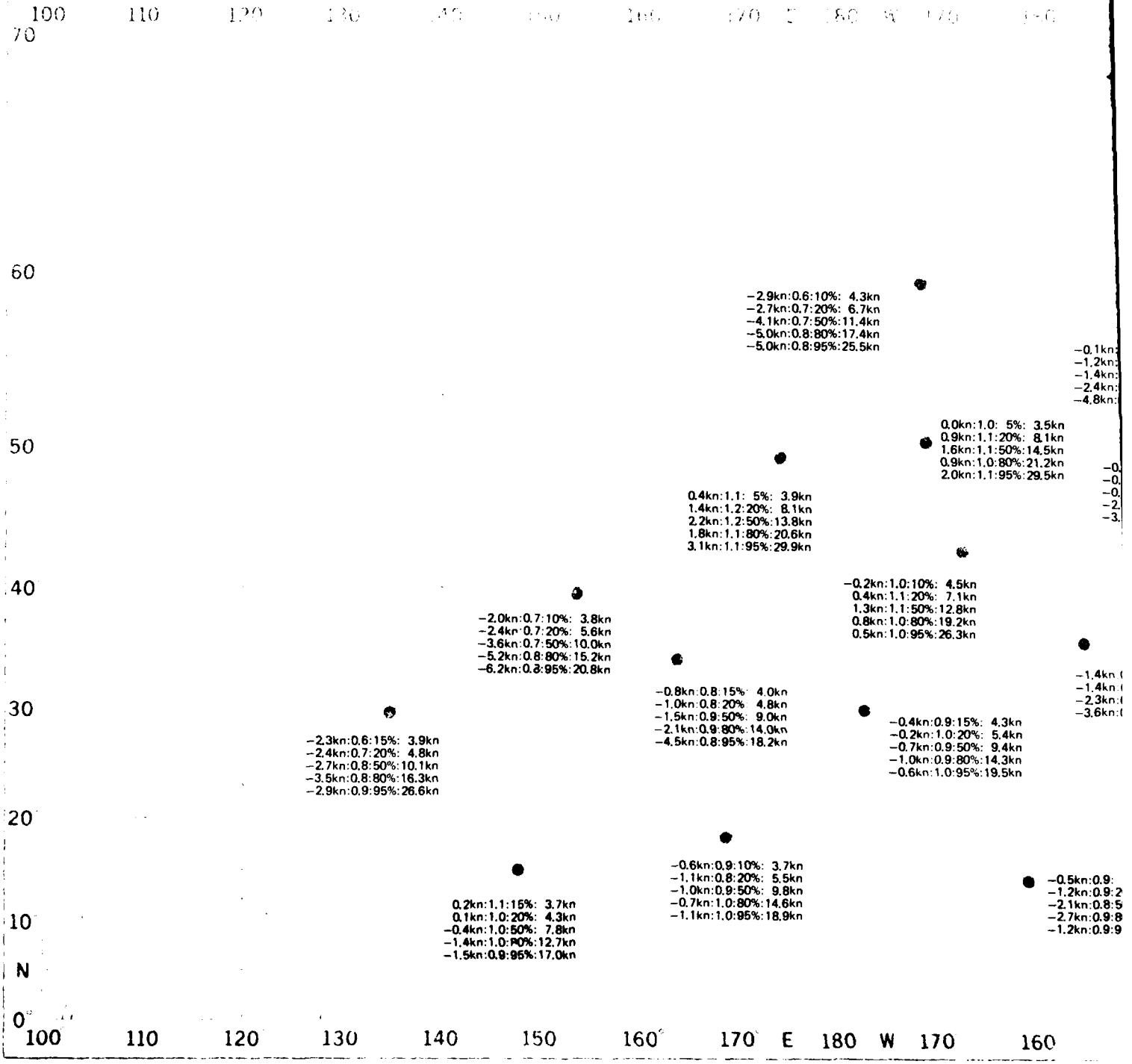
ND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WIND SPEEDS FOR SELECTED SOWM SSOCIATED WIND SPEEDS



315

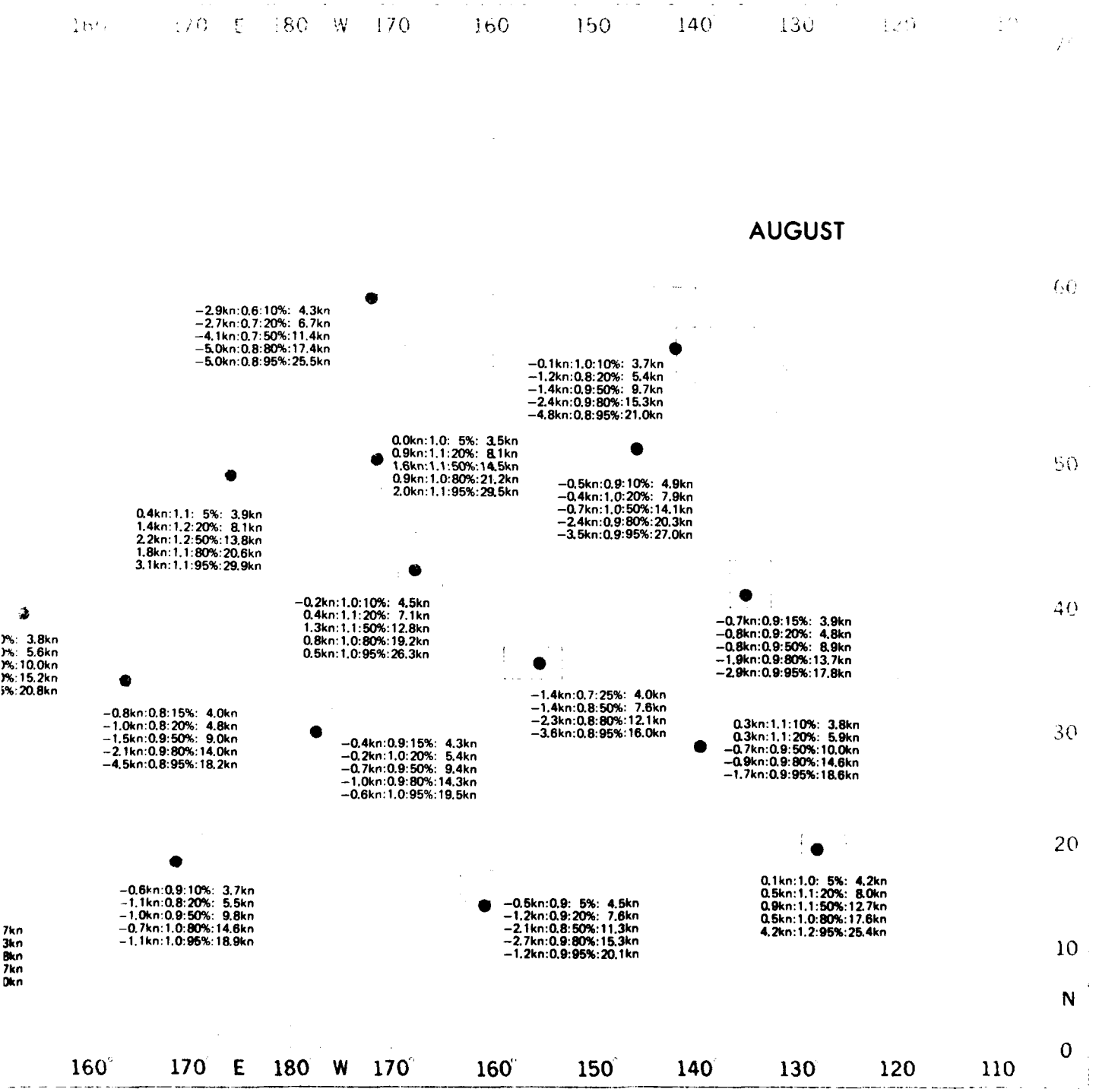
2

FIG. F3 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP W
PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS



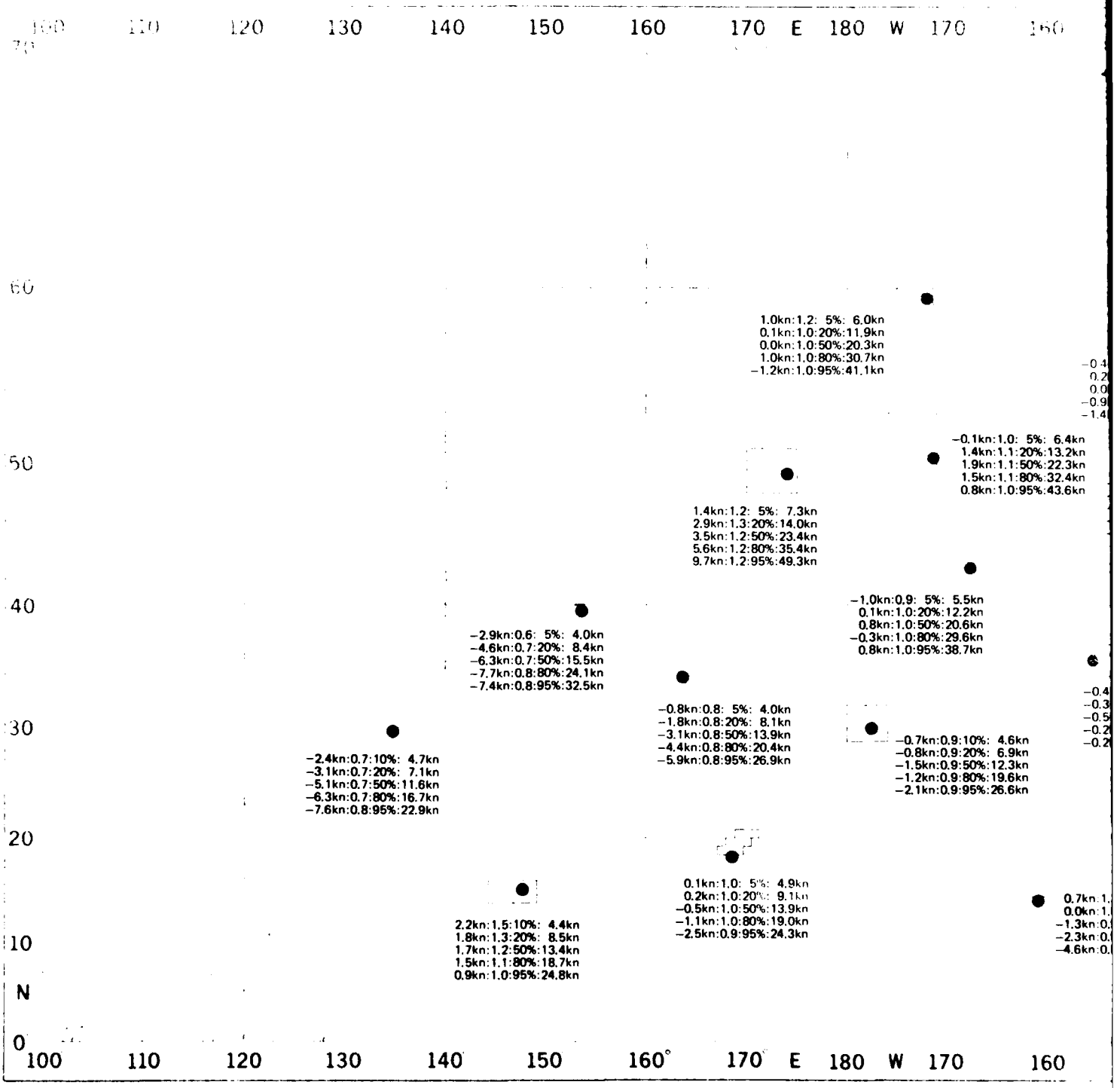
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ND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WIND SPEEDS FOR SELECTED SOWM
OCIATED WIND SPEEDS

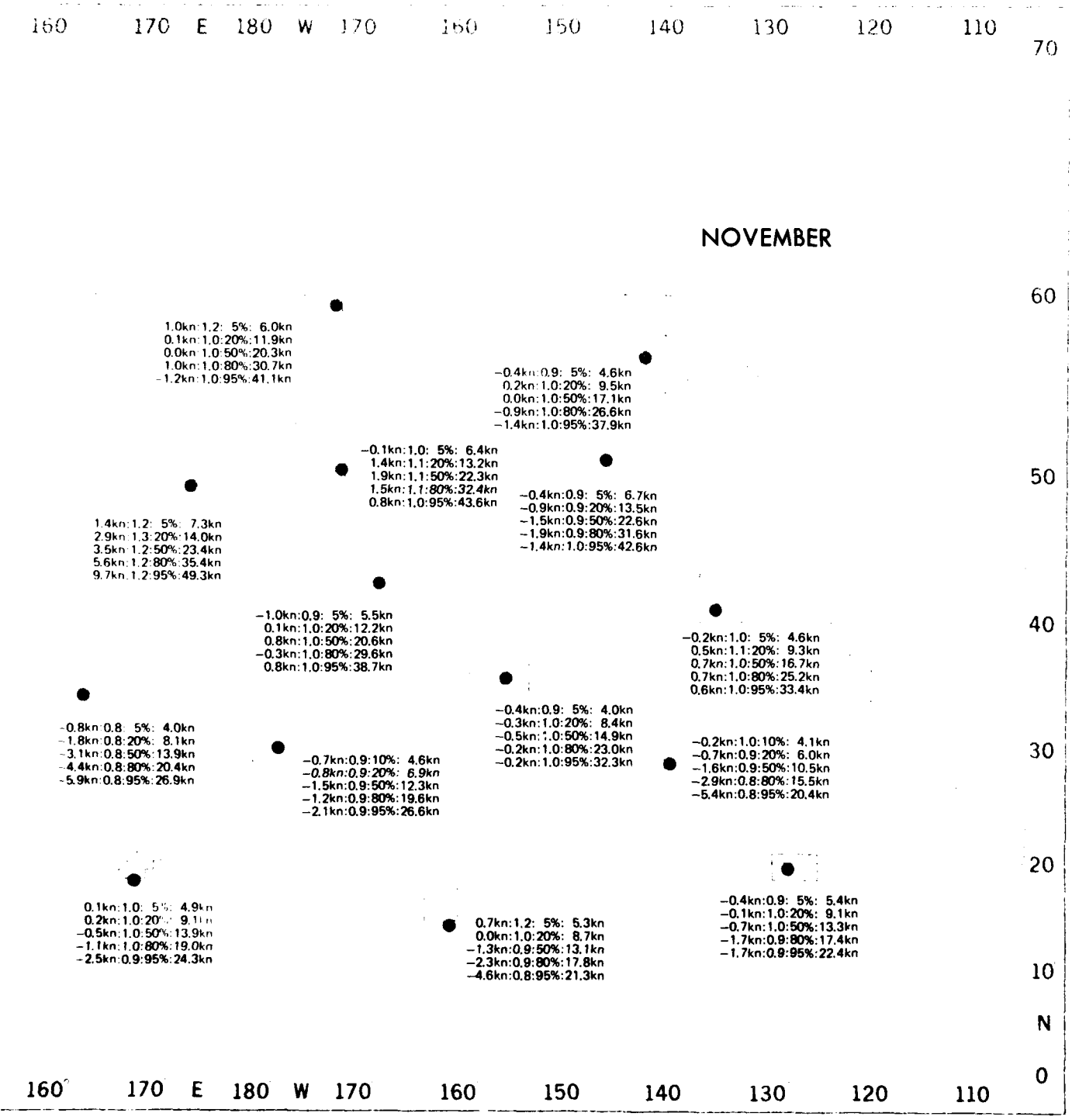


4

FIG. F4 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP W
PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS



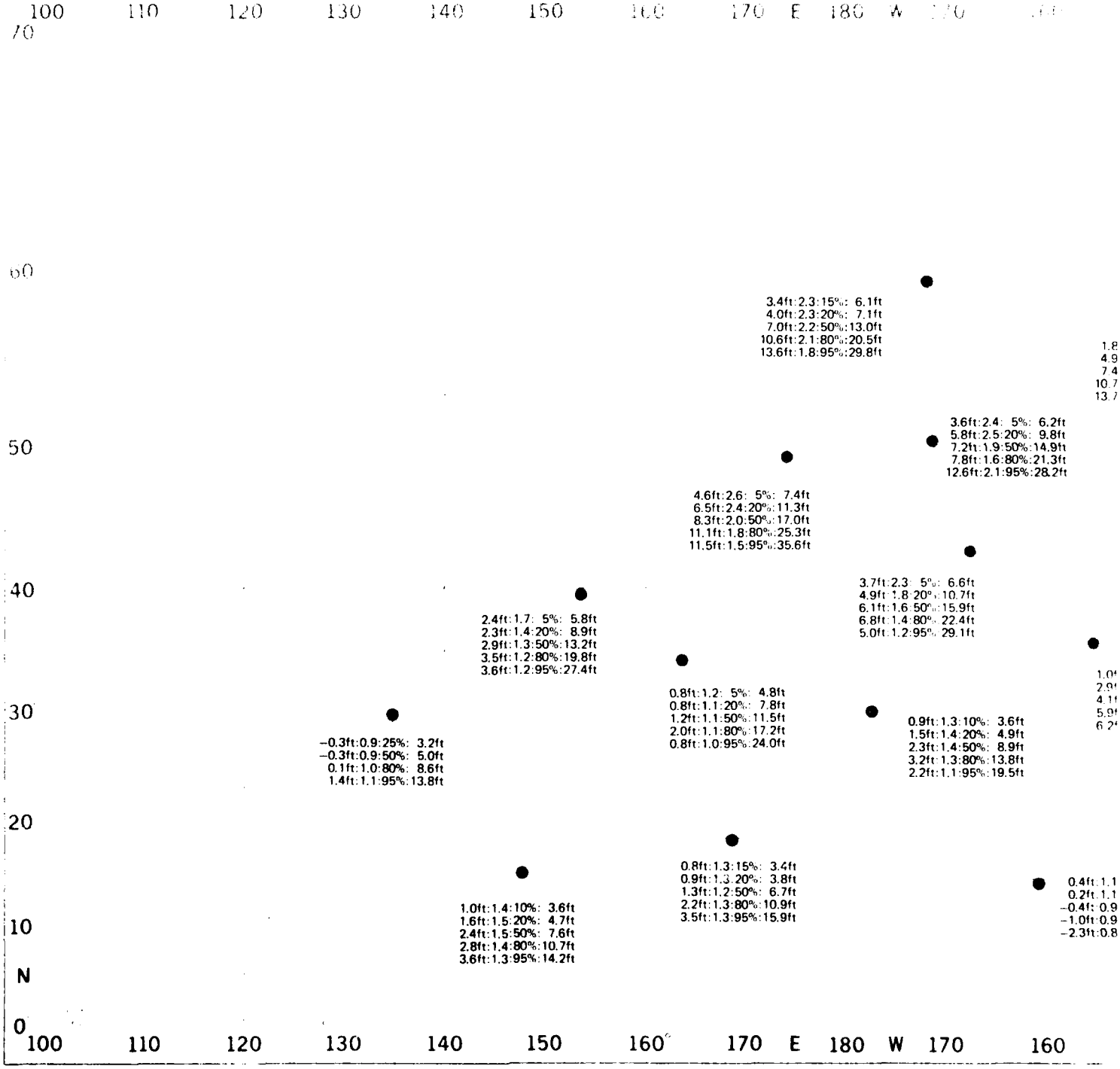
ATIOS (SOWM/SHIP) OF SOWM AND SHIP WIND SPEEDS FOR SELECTED SOWM ATED WIND SPEEDS



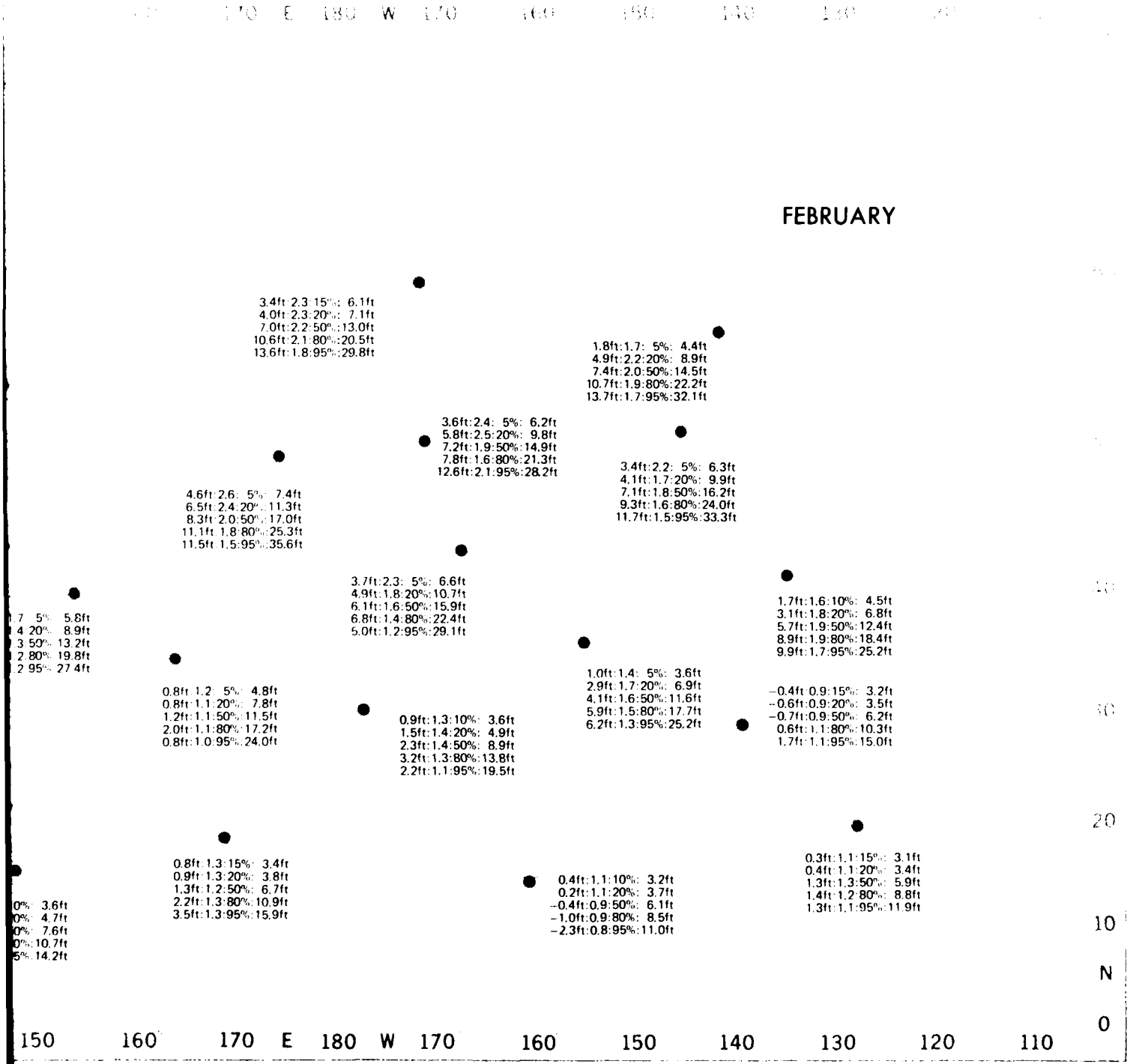
317

2

FIG. F5 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WA
PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

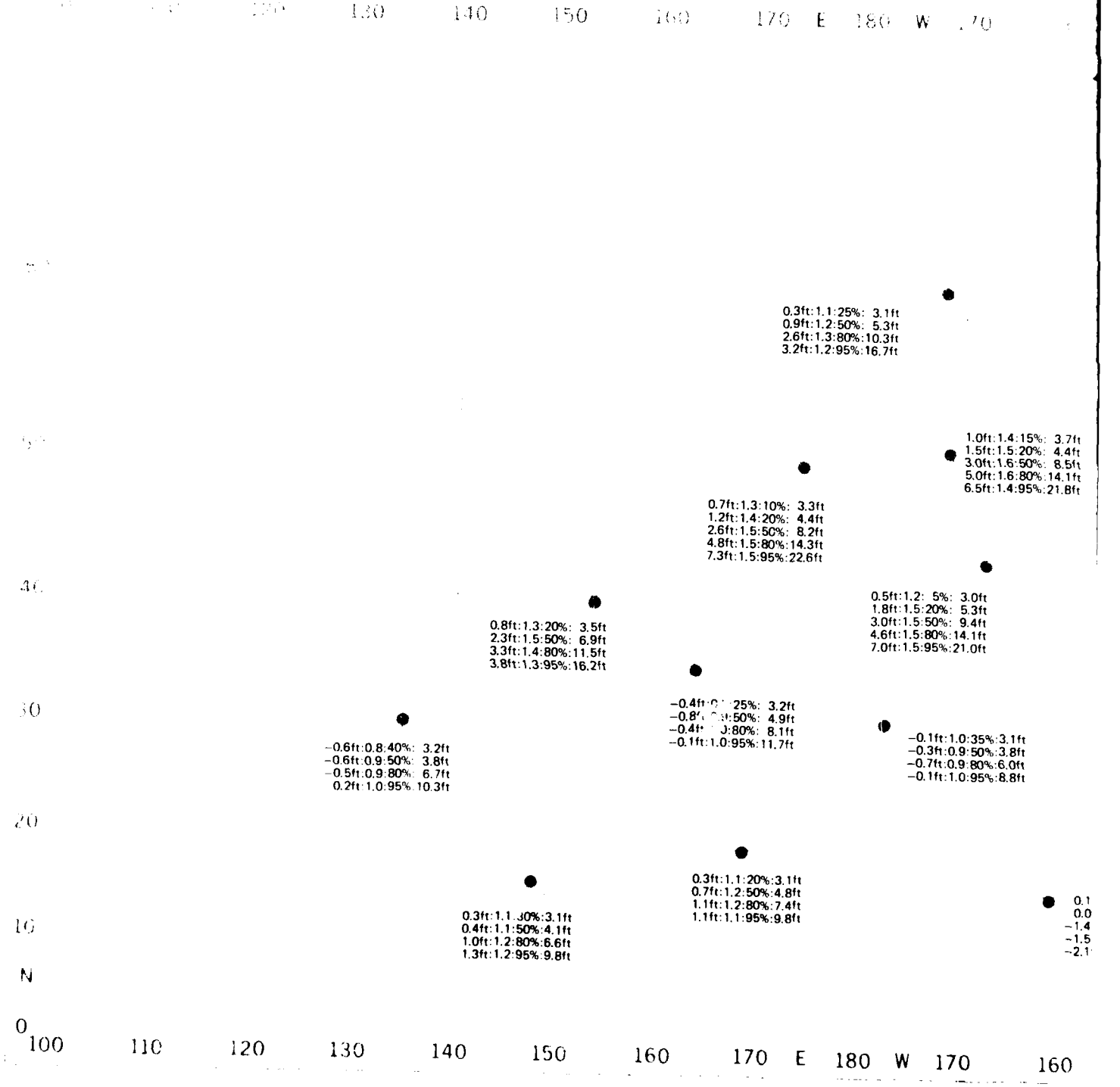


) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WAVE HEIGHTS FOR SELECTED SOWM ASSOCIATED WAVE HEIGHTS



4

FIG. F6 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS



RATIOS (SOWM/SHIP) OF SOWM AND SHIP WAVE HEIGHTS FOR SELECTED SOWM CIATED WAVE HEIGHTS

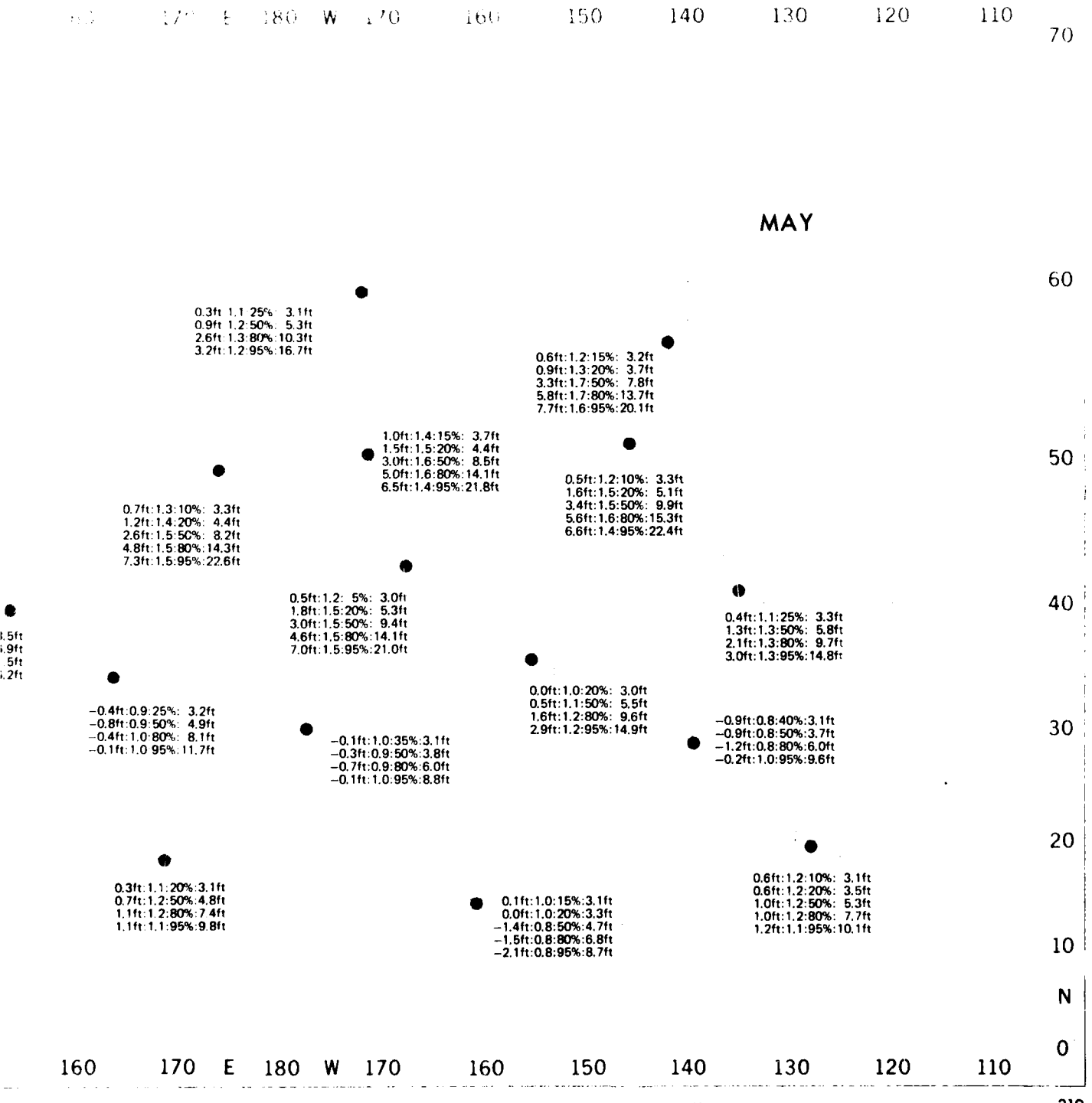
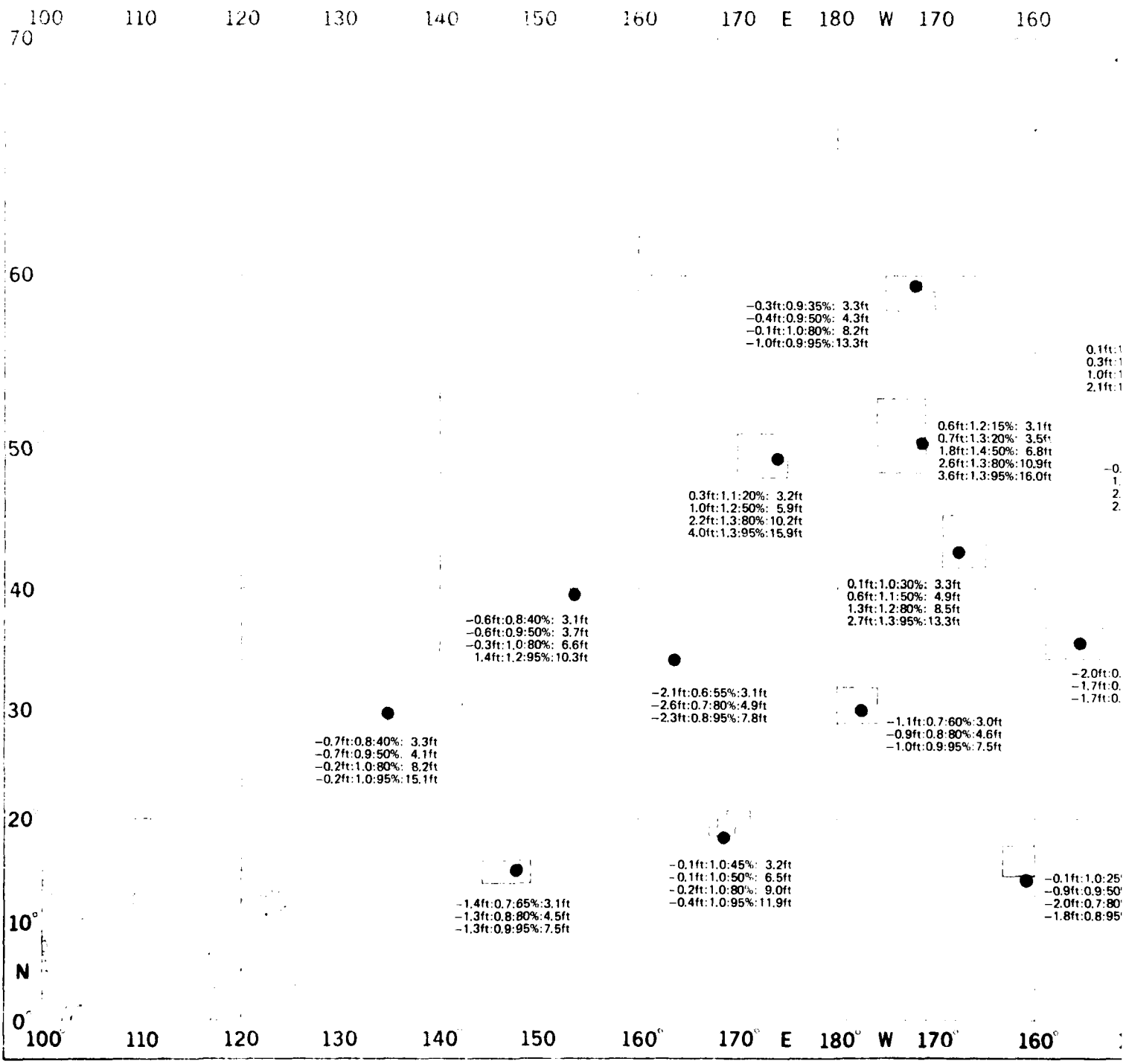


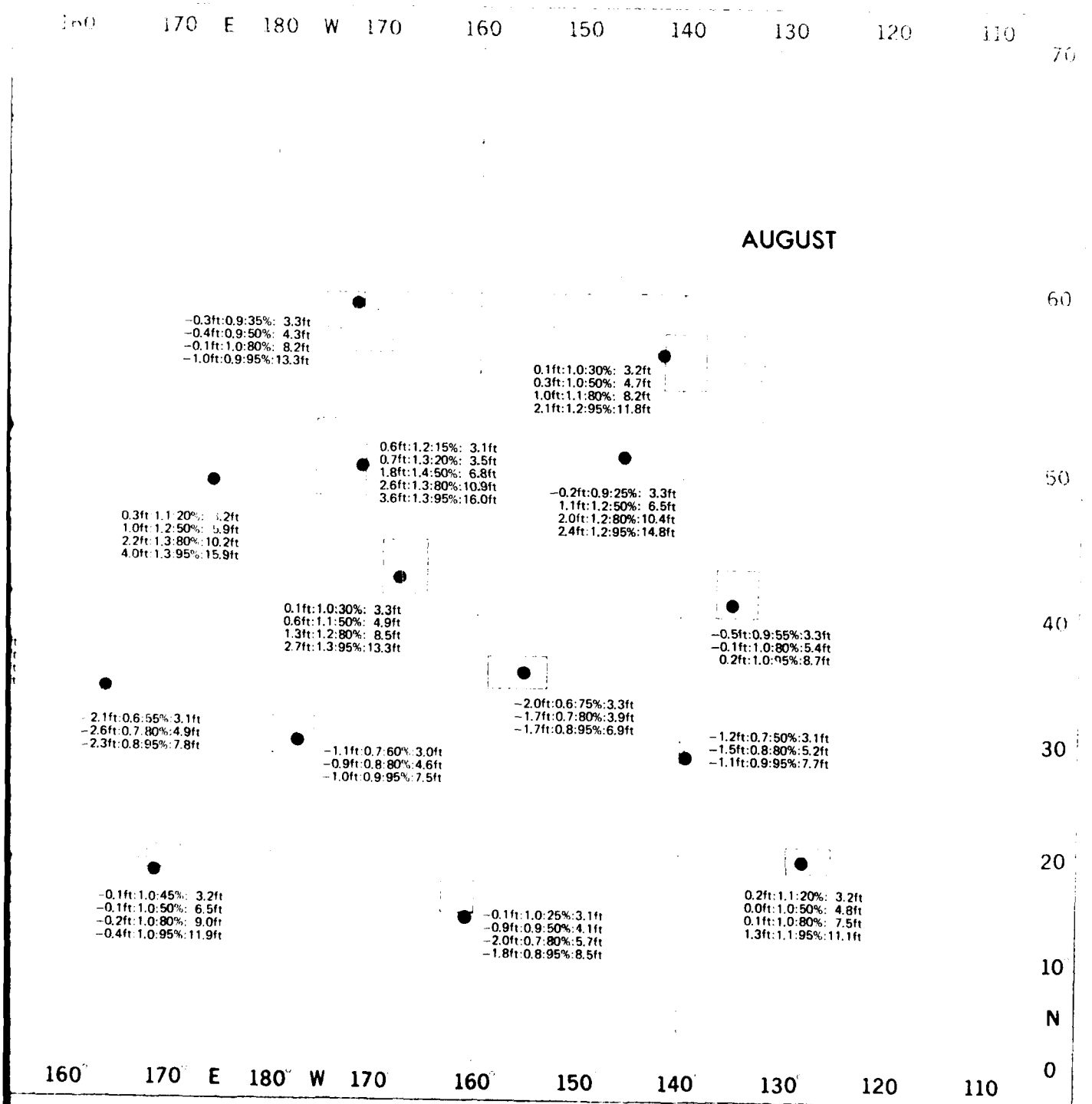
FIG. F7 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WAV
PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS



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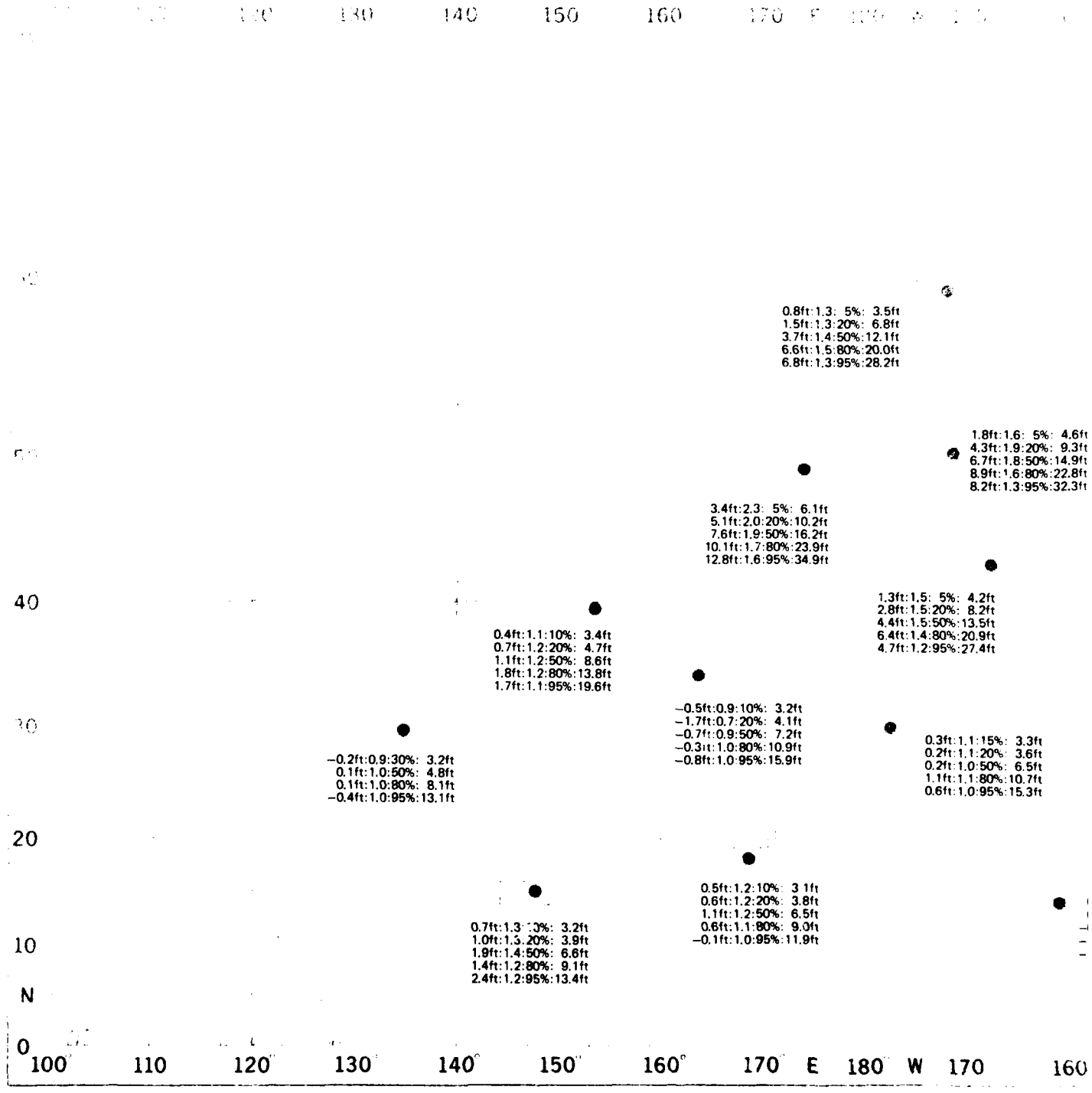
320

RATIOS (SOWM/SHIP) OF SOWM AND SHIP WAVE HEIGHTS FOR SELECTED SOWM
CIATED WAVE HEIGHTS



4

FIG. F8 DIFFERENCE (SOWM-SHIP) AND RATIOS (SOWM/SHIP) OF SOWM AND SHI
PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS



AND RATIOS (SOWM/SHIP) OF SOWM AND SHIP WAVE HEIGHTS FOR SELECTED SOWM
ASSOCIATED WAVE HEIGHTS

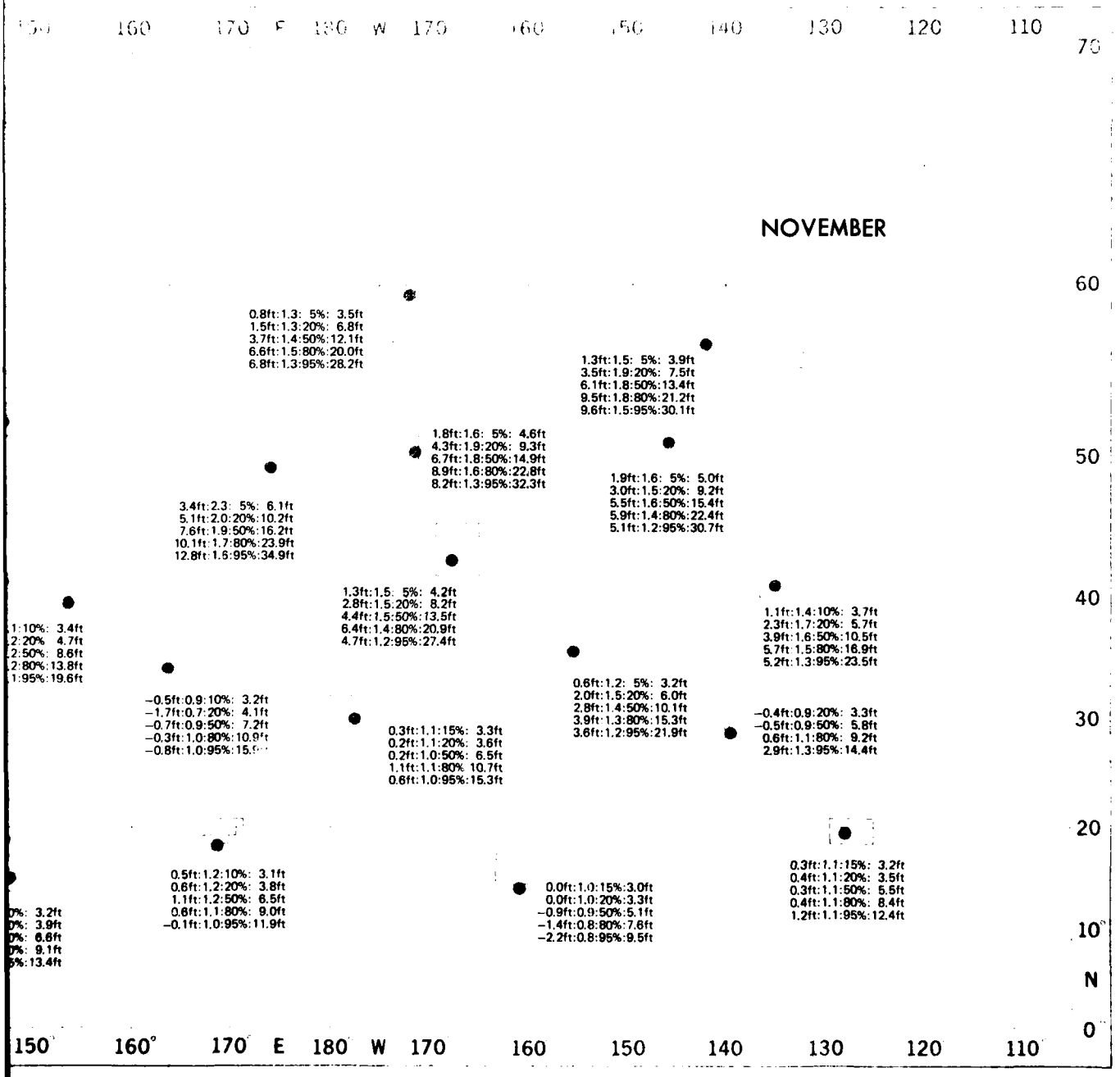


FIG. F9 DIFFERENCE (SOWM-ARMY) AND RATIOS (SOWM/ARMY) OF SOWM AND ARMY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

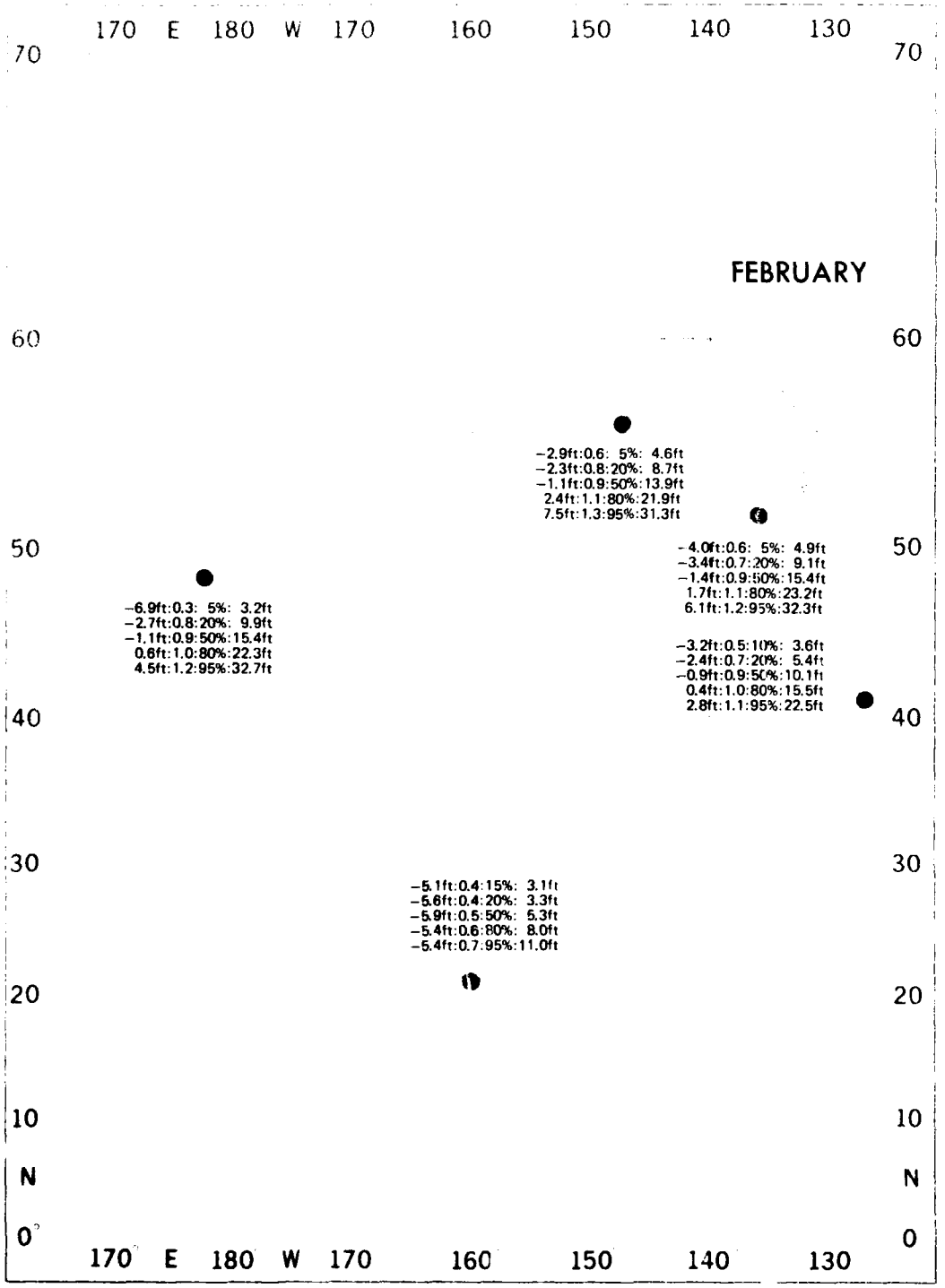
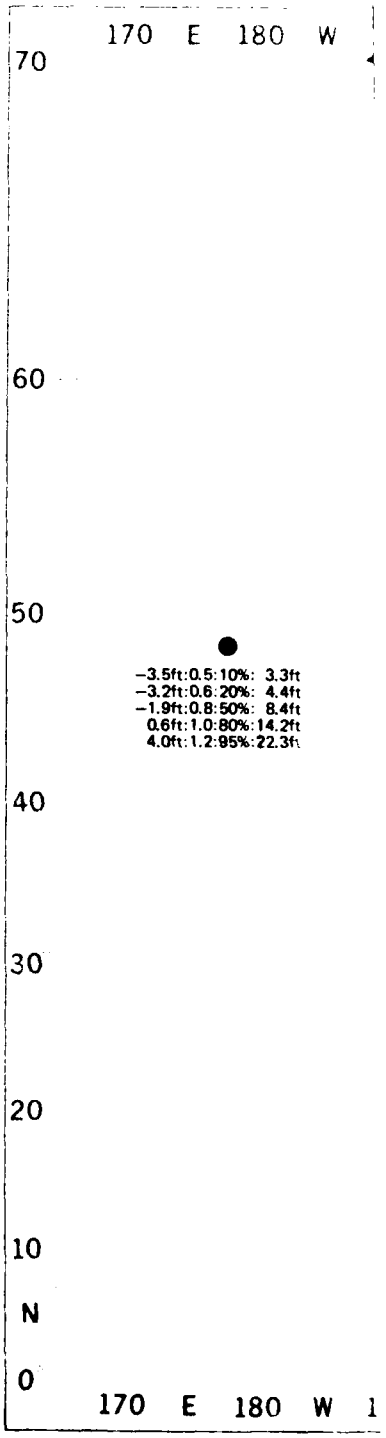


FIG. F10 DIFFERENCE (S
OF SOWM AN
SOWM PERCE
HEIGHTS



DS (SOWM/ARMY)
S FOR SELECTED
CIATED WAVE

FIG. F10 DIFFERENCE (SOWM-ARMY) AND RATIOS (SOWM/ARMY) OF SOWM AND ARMY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

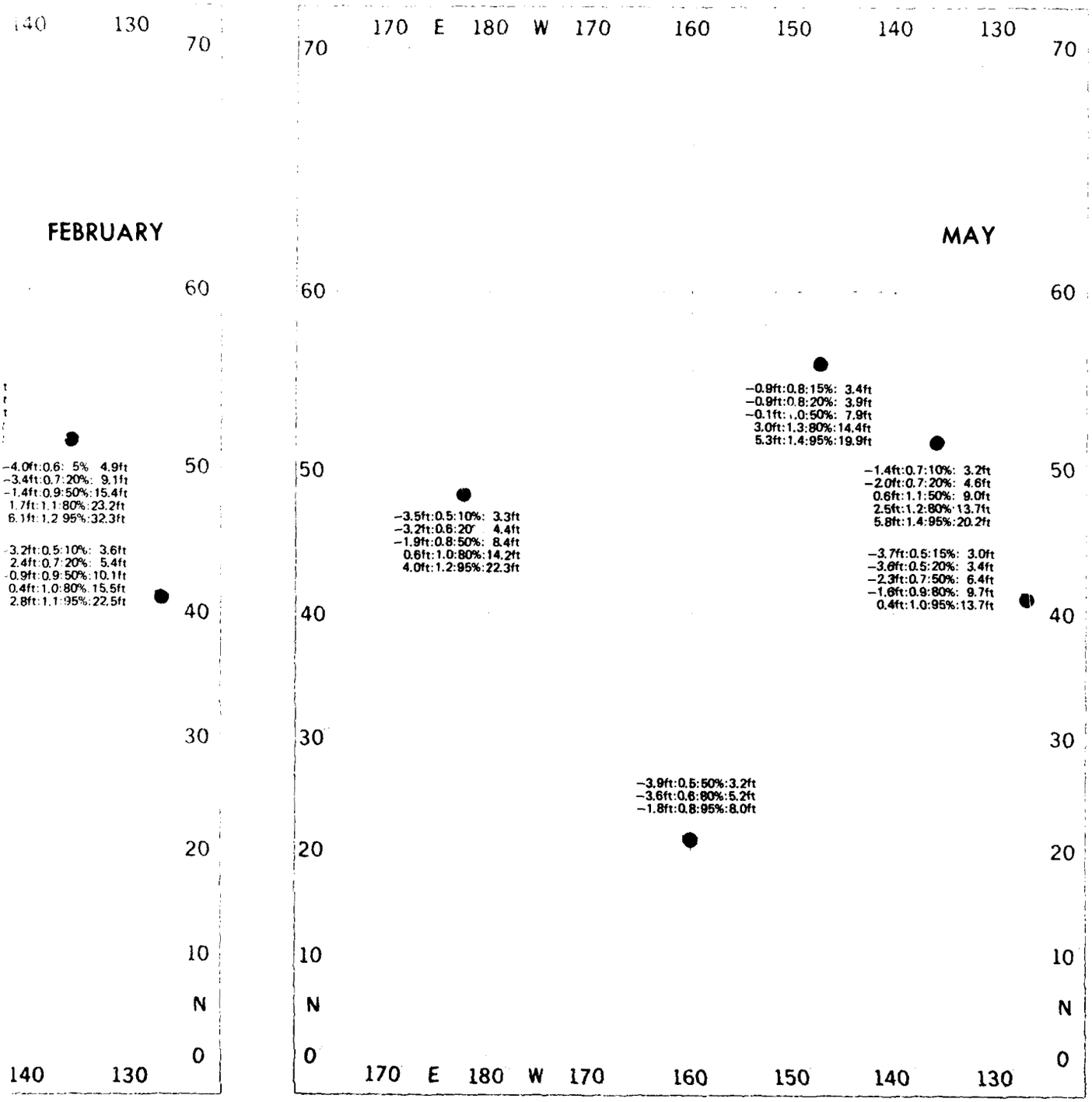


FIG. F11 DIFFERENCE (SOWM-ARMY) AND RATIOS (SOWM/ARMY) OF SOWM AND ARMY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

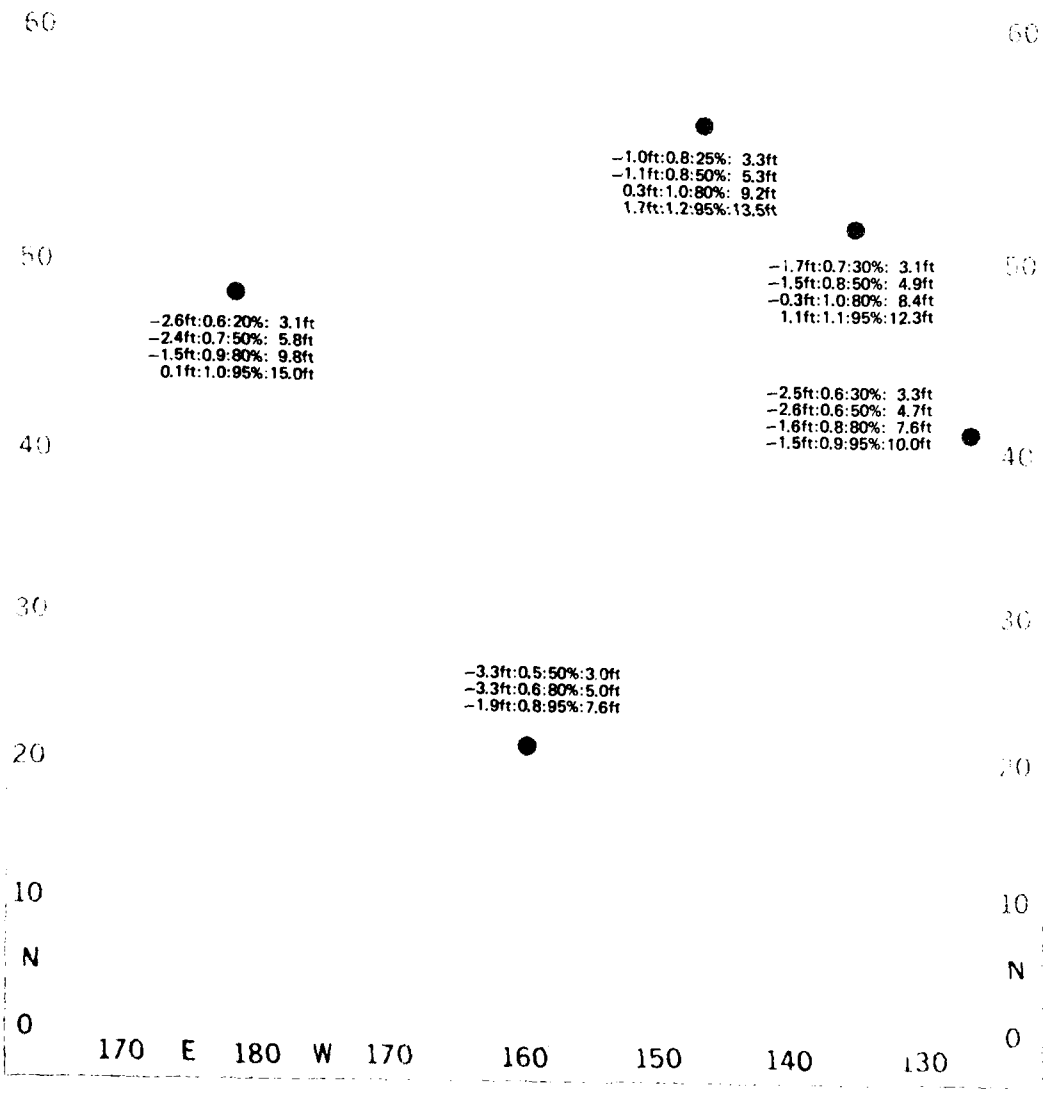
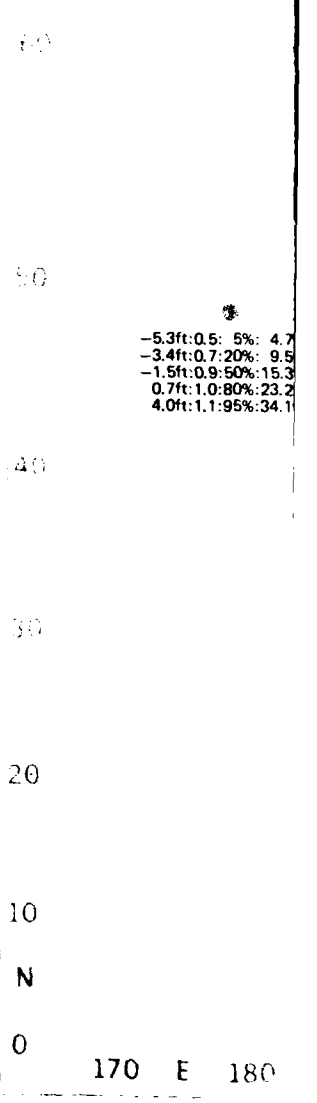
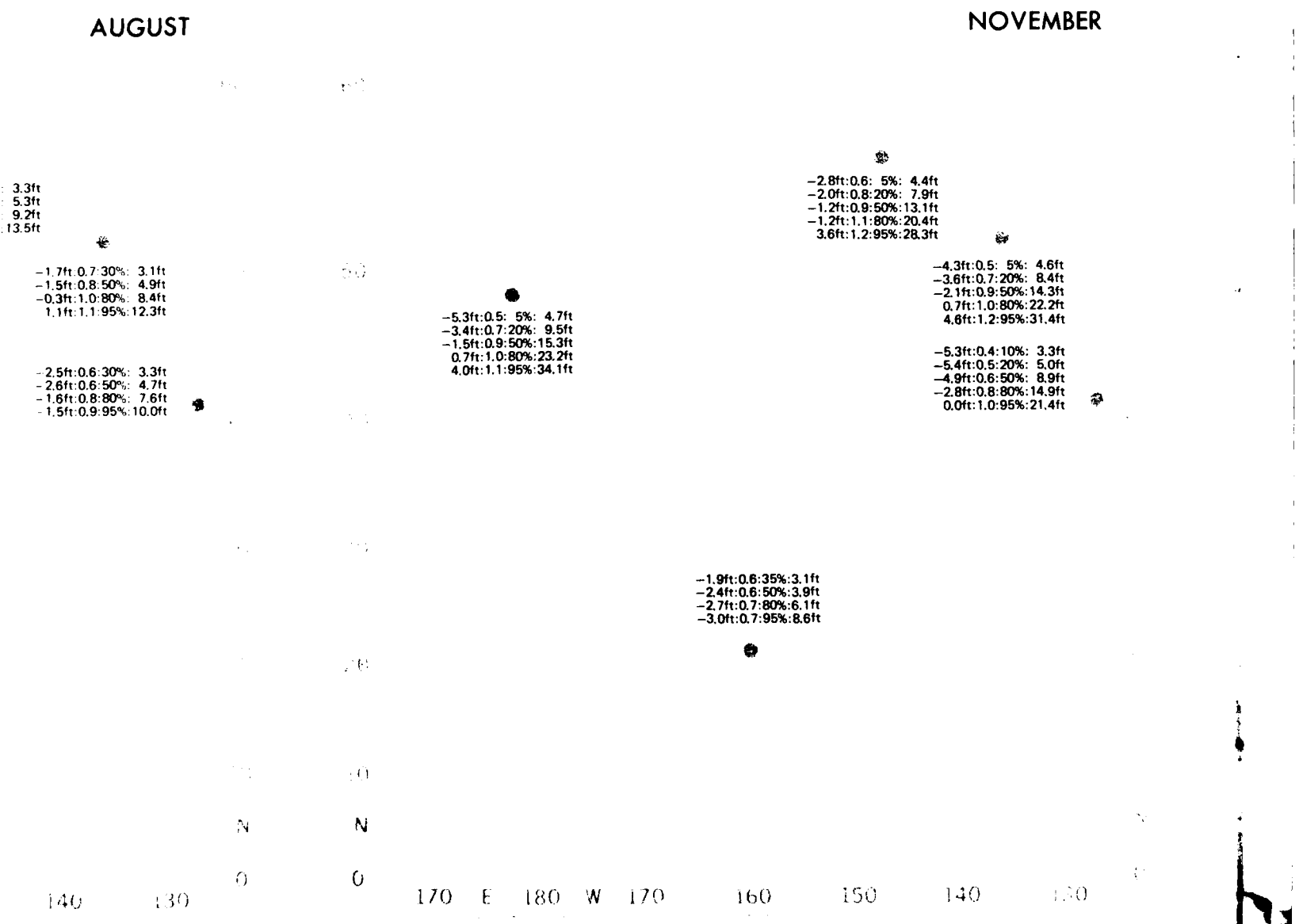


FIG. F12 DIFFERE
OF SOV
SOWM
HEIGHT



TIOS (SOWM/ARMY)
HTS FOR SELECTED
SOCIATED WAVE

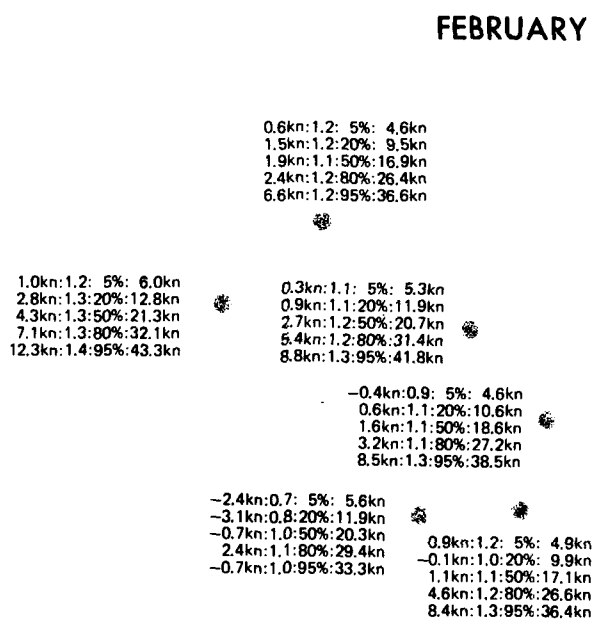
FIG. F12 DIFFERENCE (SOWM-ARMY) AND RATIOS (SOWM/ARMY) OF SOWM AND ARMY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS



2

FIG. F13 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WIND SPEEDS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS

FIG. F14 DIFFERENCE
OF SOWM
SOWM PERC
SPEEDS



IOS (SOWM/BUOY)
FOR SELECTED
)CIATED WIND

FIG. F14 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WIND SPEEDS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS

FEBRUARY

4.6kn
9.5kn
16.9kn
26.4kn
36.6kn

%: 5.3kn
%:11.9kn
%:20.7kn
%:31.4kn
%:41.8kn

kn:0.9: 5%: 4.6kn
kn:1.1:20%:10.6kn
kn:1.1:50%:18.6kn
kn:1.1:80%:27.2kn
kn:1.3:95%:38.5kn

0.9kn:1.2: 5%: 4.9kn
−0.1kn:1.0:20%: 9.9kn
1.1kn:1.1:50%:17.1kn
4.6kn:1.2:80%:26.6kn
8.4kn:1.3:95%:36.4kn

MAY

−1.4kn:0.8:10%: 4.6kn
−0.9kn:0.9:20%: 7.1kn
0.6kn:1.1:50%:13.6kn
2.2kn:1.1:80%:21.2kn
6.1kn:1.3:95%:30.1kn

0.1kn:1.0: 5%: 5.1kn
−0.3kn:1.0:20%: 9.7kn
2.2kn:1.2:50%:17.2kn
6.0kn:1.3:80%:26.0kn
8.5kn:1.3:95%:34.5kn

0.8kn:1.2: 5%: 4.8kn
−0.4kn:1.0:20%: 9.6kn
0.3kn:1.0:50%:16.3kn
4.3kn:1.2:80%:25.3kn
9.0kn:1.4:95%:35.0kn

−0.5kn:0.9: 5%: 3.5kn
−0.9kn:0.9:20%: 7.1kn
−1.5kn:0.9:50%:12.5kn
0.3kn:1.0:80%:19.3kn
3.1kn:1.1:95%:27.1kn

−0.5kn:0.8:10%: 4.5kn
−1.2kn:0.9:20%: 6.8kn
−0.6kn:1.0:50%:12.4kn
1.4kn:1.1:80%:19.4kn
3.9kn:1.2:95%:26.9kn

−1.1kn:0.8:10%: 4.9kn
−0.6kn:0.9:20%: 7.4kn
−0.4kn:1.0:50%:12.6kn
0.3kn:1.0:80%:18.3kn
3.3kn:1.2:95%:25.3kn

FIG. F15 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WIND SPEEDS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS

FIG. F16 DIFFERE
OF SO
SOWM
SPEEDS

AUGUST

−0.4kn:0.9:10%: 4.6kn
−0.1kn:1.0:20%: 6.9kn
−0.4kn:1.0:50%:11.6kn
0.8kn:1.1:80%:16.8kn
2.0kn:1.1:95%:23.0kn

−1.6kn:0.8:10%: 5.4kn
−0.6kn:0.9:20%: 8.4kn
0.7kn:1.1:50%:14.7kn
2.2kn:1.1:80%:21.2kn
4.5kn:1.2:95%:28.5kn

−1.6kn:0.7:10%: 4.4kn
−1.4kn:0.8:20%: 6.6kn
−1.8kn:0.9:50%:11.2kn
−0.6kn:1.0:80%:16.4kn
1.7kn:1.1:95%:23.7kn

−2.5kn:0.6:15%: 4.5kn
−2.5kn:0.7:20%: 5.5kn
−3.5kn:0.7:50%: 9.5kn
−2.4kn:0.9:80%:14.6kn
−2.4kn:0.9:95%:19.6kn

−2.0kn:0.7:15%: 4.0kn
−2.3kn:0.7:20%: 4.7kn
−3.4kn:0.7:50%: 8.6kn
−2.3kn:0.9:80%:13.7kn
−1.2kn:0.9:95%:18.8kn

−1.1kn:0.8:10%: 3.9kn
−0.6kn:0.9:20%: 6.4kn
−0.9kn:0.9:50%:11.1kn
0.1kn:1.0:80%:16.1kn
1.1kn:1.1:95%:21.1kn

ATIOS (SOWM/BUOY)
DS FOR SELECTED
SOCIATED WIND

FIG. F16 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WIND SPEEDS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WIND SPEEDS

AUGUST

9 10%: 4.6kn
0 20%: 6.9kn
0 50%: 11.6kn
80%: 16.8kn
95%: 23.0kn

0.7 10%: 4.4kn
0.8 20%: 6.6kn
0.9 50%: 11.2kn
1.0 80%: 16.4kn
1.1 95%: 23.7kn

−2.5kn:0.6:15%: 4.5kn
−2.5kn:0.7:20%: 5.5kn
−3.5kn:0.7:50%: 9.5kn
−2.4kn:0.9:80%:14.6kn
−2.4kn:0.9:95%:19.6kn

4.0kn
4.7kn
8.6kn
13.7kn
18.8kn

−1.1kn:0.8:10%: 3.9kn
−0.6kn:0.9:20%: 6.4kn
−0.9kn:0.9:50%:11.1kn
0.1kn:1.0:80%:16.1kn
1.1kn:1.1:95%:21.1kn

NOVEMBER

0.4kn:1.1: 5%: 4.4kn
1.0kn:1.1:20%:1[illegible]0kn
1.5kn:1.1:50%:17.5kn
3.7kn:1.2:80%:26.7kn
7.7kn:1.3:95%:36.7kn

−0.9kn:0.9: 5%: 6.1kn
−0.4kn:1.0:20%:12.6kn
1.3kn:1.1:50%:21.3kn
4.5kn:1.2:80%:30.5kn
6.5kn:1.2:95%:39.5kn

1.7kn:1.3: 5%: 6.7kn
1.7kn:1.2:20%:12.7kn
1.9kn:1.1:50%:20.9kn
5.3kn:1.2:80%:30.3kn
6.2kn:1.2:95%:40.2kn

0.7kn:1.2: 5%: 4.7kn
−0.1kn:1.0:20%: 9.9kn
−1.1kn:0.9:50%:16.9kn
1.4kn:1.1:80%:26.4kn
6.9kn:1.2:95%:37.9kn

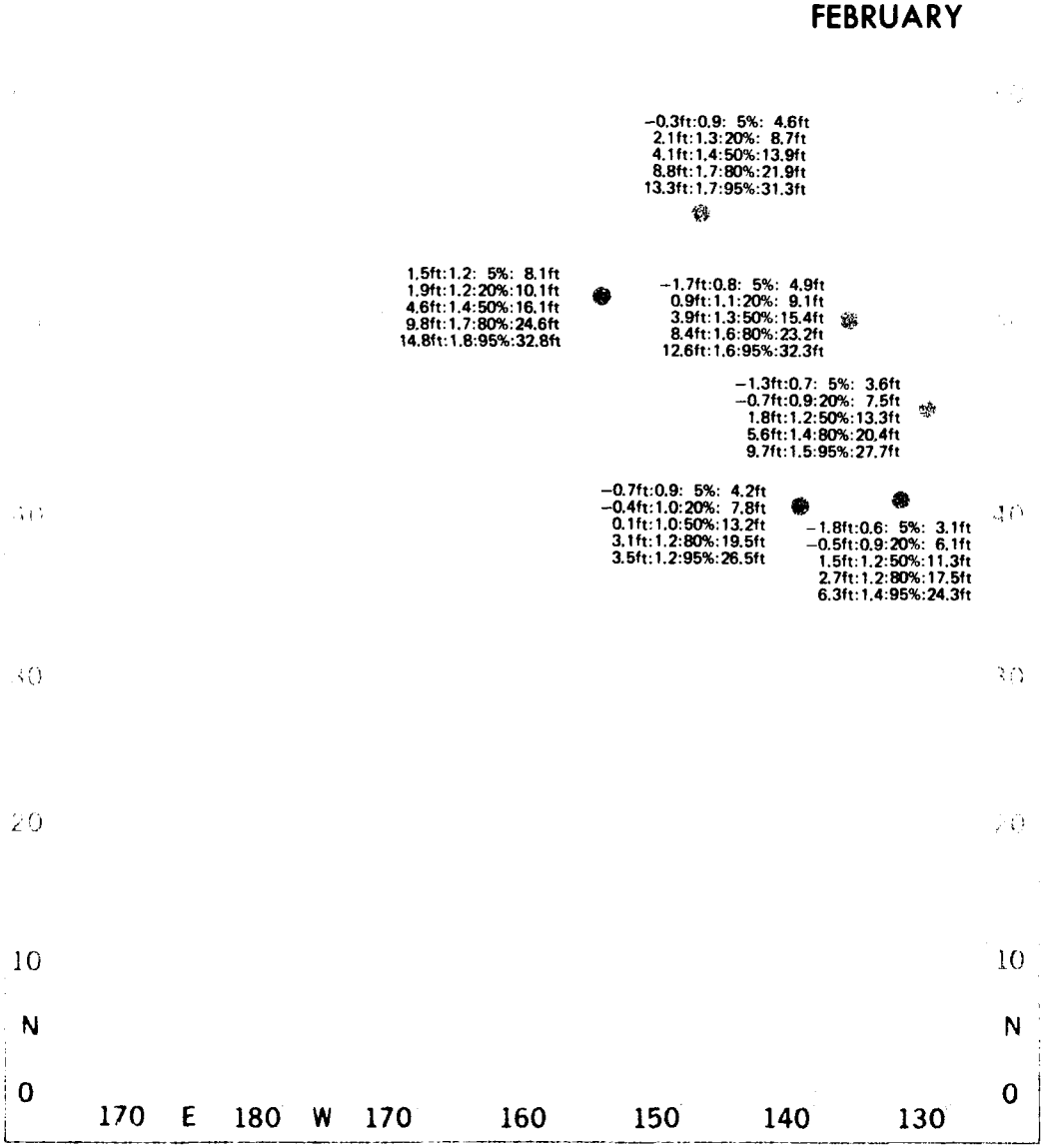
−2.3kn:0.7: 5%: 4.7kn
−4.0kn:0.7:20%:10.0kn
−2.1kn:0.9:50%:17.9kn
−0.7kn:1.0:80%:26.3kn
3.4kn:1.1:95%:36.4kn

−0.7kn:0.9: 5%: 4.3kn
−0.9kn:0.9:20%: 9.1kn
−0.1kn:1.0:50%:16.9kn
3.4kn:1.2:80%:25.4kn
6.3kn:1.2:95%:34.3kn

2

FIG. F17 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

FIG. F18 DIFFERENCI
OF SOWM
SOWM PER
HEIGHTS



(SOWM/BUOY)
OR SELECTED
ATED WAVE

FIG. F18 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

FEBRUARY

MAY

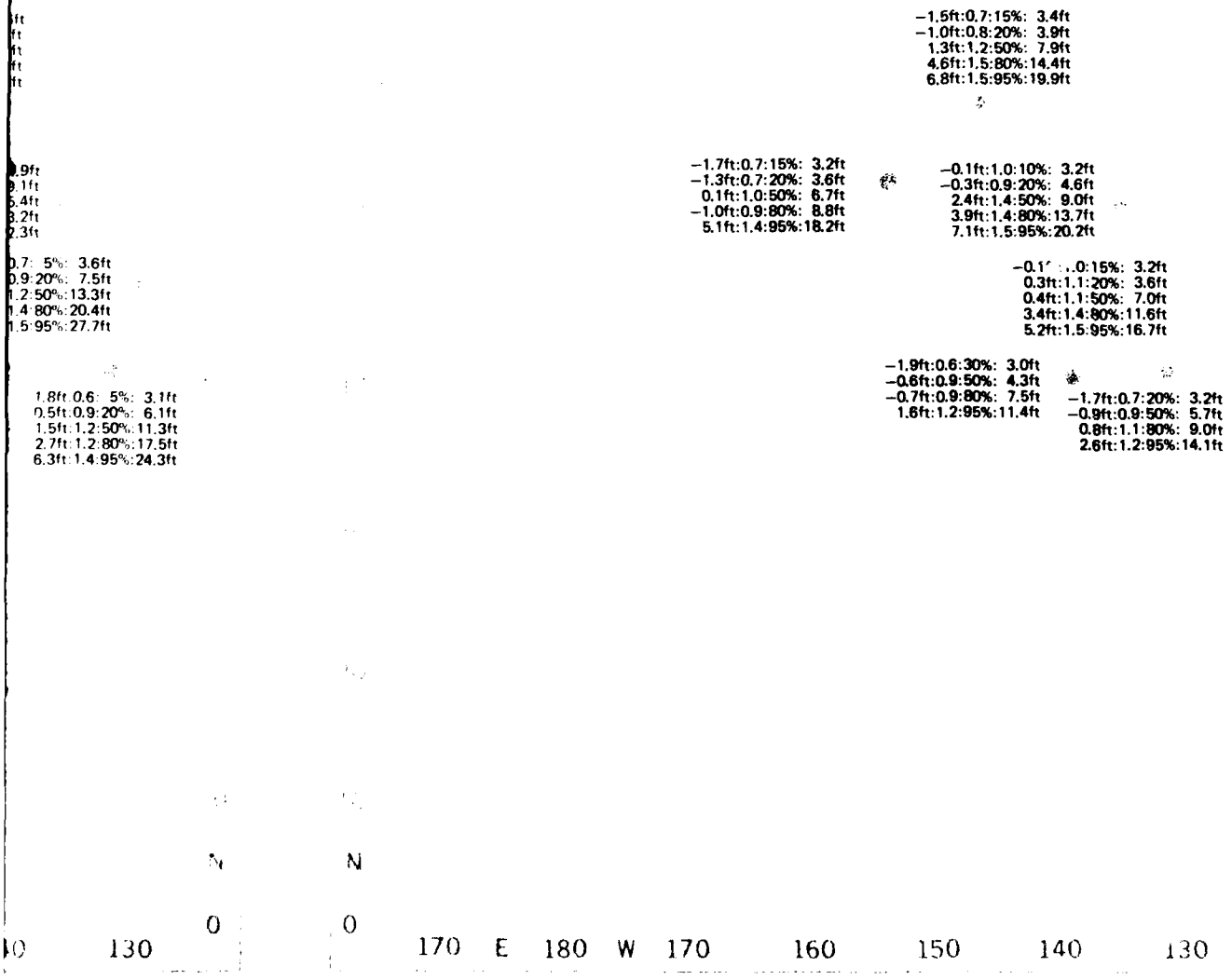
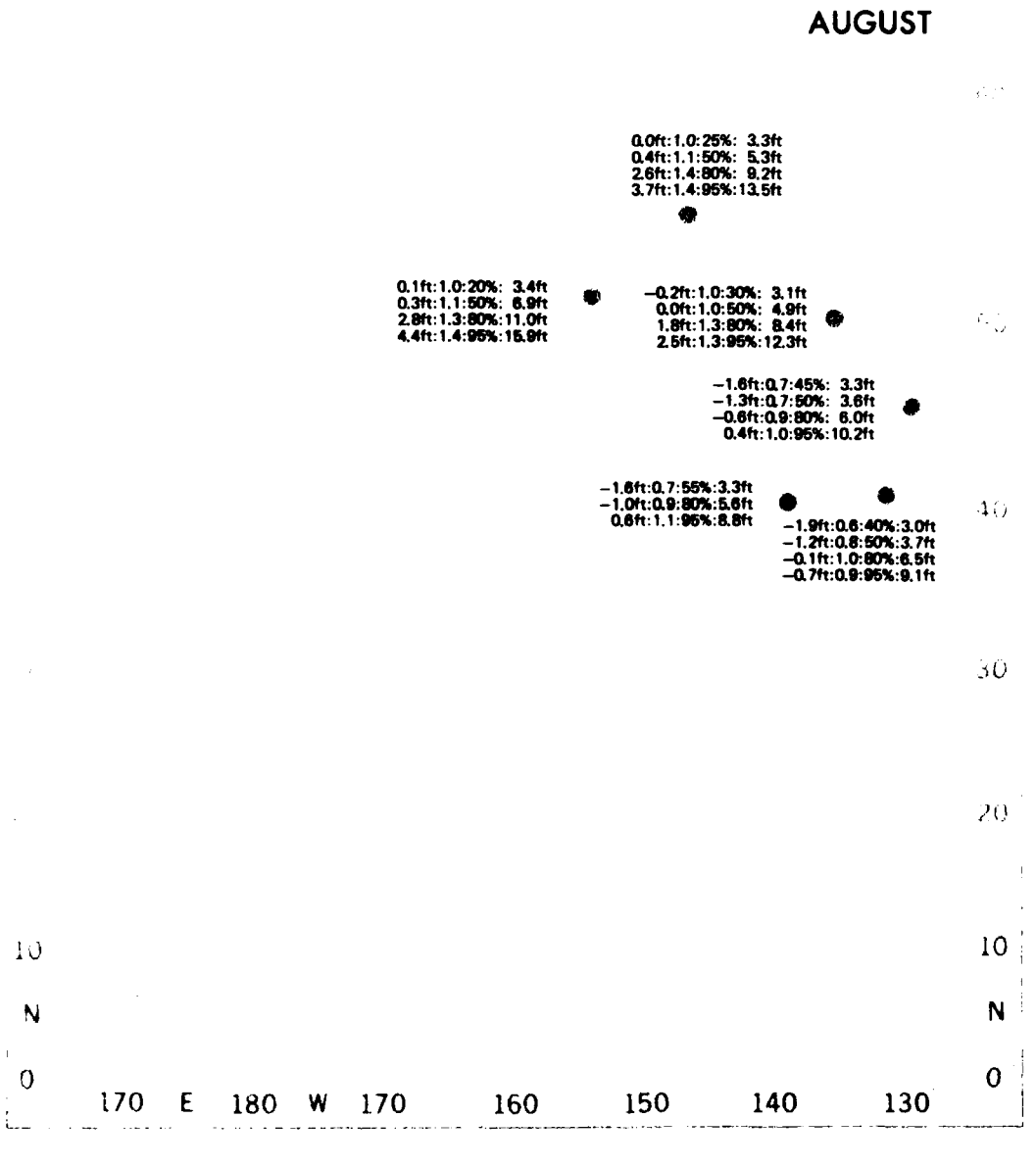


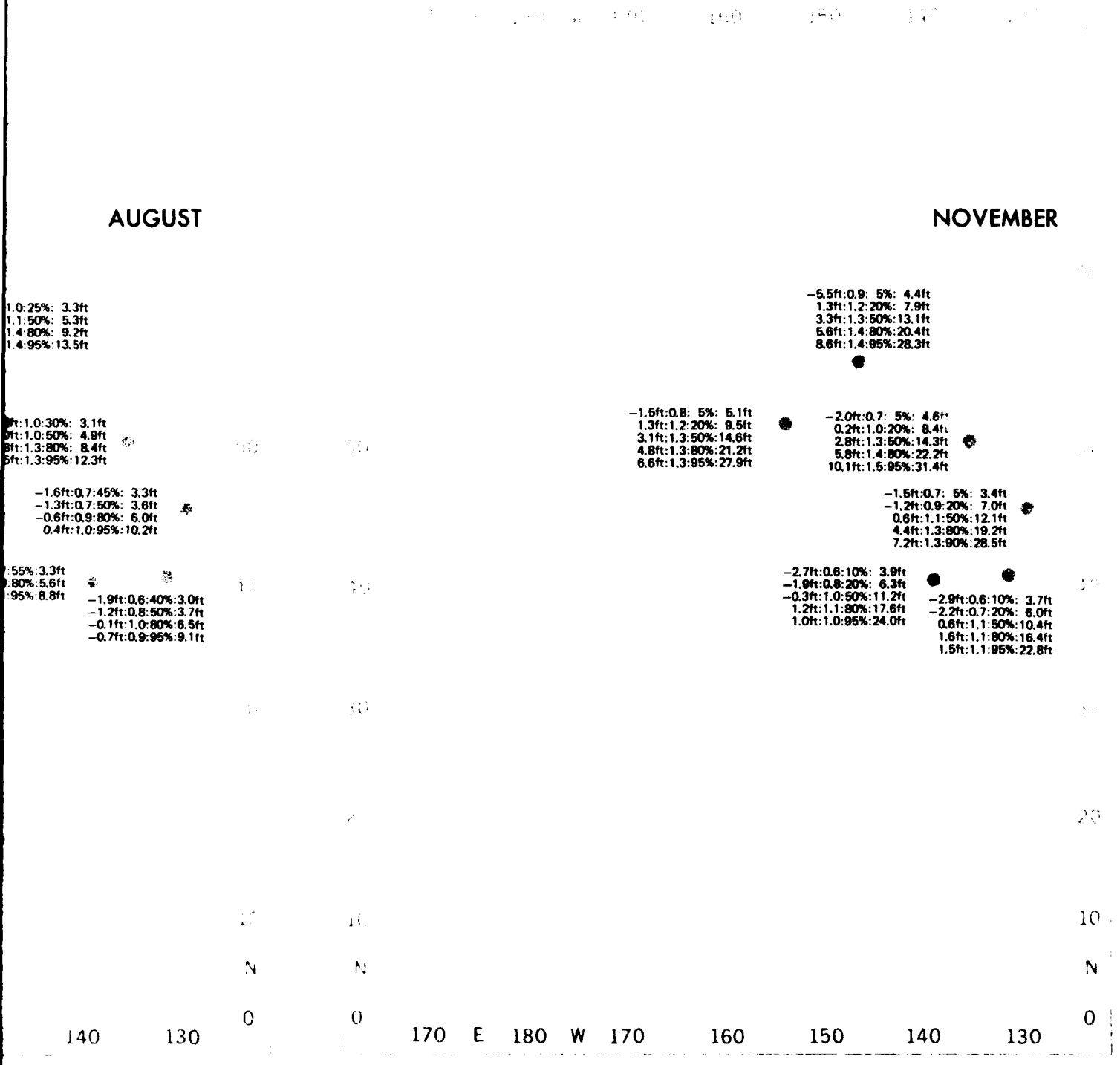
FIG. F19 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS

FIG. F20 DIFFEREN
OF SOWM
SOWM PE
HEIGHTS



ATIOS (SOWM/BUOY)
GHTS FOR SELECTED
SSOCIATED WAVE

FIG. F20 DIFFERENCE (SOWM-BUOY) AND RATIOS (SOWM/BUOY) OF SOWM AND BUOY WAVE HEIGHTS FOR SELECTED SOWM PERCENTILES AND THEIR ASSOCIATED WAVE HEIGHTS



2

BIBLIOGRAPHY

Bales, S. L., 1983: Designing ships to the natural environment. Naval Engineers Journal, March 1983, 31-40.

Cardone, V. J., 1969: Specification of the wind distribution in the marine boundary layer for wave forecasting. New York University, 147 pp.

Cartwright, D. E., 1964: A comparison of instrumental and visually estimated wave heights and periods recorded on Ocean Weather Ships. Appendix to Hogben, N. and F. E. Lumb, 1964: The presentation of wave data from voluntary observing ships, National Physical Laboratory, SHIP REF. 49.

Comstock, E. N., S. L. Bales and D. M. Gentile, 1982: Seakeeping performance comparison of air capable ships. Naval Engineers Journal, April 1982, 101-117.

Cummins, W. E. and S. L. Bales, 1980: Extreme values and rare occurrence wave statistics for Northern Hemispheric shipping lanes. SNAME - STAR.

Corson, W. D, 1984: U.S. Army Hydraulics Laboratory. Personal Communications.

Darbyshire, M. and L. Draper, 1963: Forecasting wind-generated sea waves. Engineering (London), 195, 482-484.

Dexter, P. E., 1974: Tests of some programmed numerical wave forecast models. J. Phys. Oceanogr., 4, 635-644.

Dobson, F. W., 1981: Review of reference height for averaging time of surface wind measurements at sea. World Meteorological Organization, Marine Meteorology and Related Oceanographic Activities, Report No. 3.

Gentile, D. M., 1982: ORI, Incorporated, Silver Spring, Maryland. Personal Communication.

Hubert, W. E. and B. R. Mendenhall, 1970: The FNWC Singular Sea/Swell Model, Technical Note 59, Fleet Numerical Weather Center, Monterey, California.

Jardine, T. P., 1979: The reliability of visually observed wave heights. Coastal Engineering, 3, 33-38.

Jardine, T. P., and F. R. Lathan, 1981: An analysis of wave height records for the Northeast Atlantic. Q.J.R.M.S., 107, 415-426.

Lazanoff, S. M., 1981: Fleet Numerical Oceanography Center, Monterey, California. Personal communication.

Lazanoff, S. M., N. M. Stevenson, 1975: An Evaluation of a Hemispheric Operational Wave Spectral Model. Fleet Numerical Weather Center, Monterey, California.

Mendenhall, B. R., M. M. Hale, and M. J. Cumming, 1977: Development of a marine history of analyzed sea level pressure fields and diagnosed wind fields. Fleet Numerical Weather Center, N00228-76-C3273, Monterey, CA 93940, June 1977.

Mendenhall, B. R., 1984: Science Applications. International Corporation. Personal Communication.

Nordenstrom, N., 1969: Methods for predicting long-term distributions of wave loads and probability of failure for ships. App. II, Relationships between visually estimated and theoretical wave heights and periods, DnV Report No. 69-21-5, Oslo, Norway.

NOAA Data Buoy Office, 1981 Personal Communication.

Pierson, W. J., Jr., 1982: The spectral ocean wave model (SOWM), a Northern Hemisphere computer model for specifying and forecasting ocean wave spectra. David W. Taylor Naval Ship Research and Development Center, DTNSRDC-82/011, Bethesda, Maryland 20084, July 1982.

rt, W. E. and B. R. Mendenhall, 1970: The WC Singular Sea/Swell Model, Technical Note , Fleet Numerical Weather Center, Monterey, lifornia.

ine, T. P., 1979: The reliability of sually observed wave heights. Coastal gineering, 3, 33-38.

ine, T. P., and F. R. Lathan, 1981: An alysis of wave height records for the rtheast Atlantic. Q.J.R.M.S., 107, 415-426.

noff, S. M., 1981: Fleet Numerical eanography Center, Monterey, California. rsonal communication.

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enhall, B. R., M. M. Hale, and M. J. mming, 1977: Development of a marine story of analyzed sea level pressure fields d diagnosed wind fields. Fleet Numerical ather Center, N00228-76-C3273, Monterey, CA 940, June 1977.

enhall, B. R., 1984: Science Applications. ternational Corporation. Personal mmunication.

enstrom, N., 1969: Methods for predicting ng-term distributions of wave loads and obability of failure for ships. App. II, lationships between visually estimated and eoretical wave heights and periods, DnV port No. 69-21-5, Oslo, Norway.

Data Buoy Office, 1981 Personal mmunication.

son, W. J., Jr., 1982: The spectral ocean ve model (SOWM), a Northern Hemisphere mputer model for specifying and forecasting an wave spectra. David W. Taylor Naval lp Research and Development Center, WSRDC-82/011, Bethesda, Maryland 20084, ly 1982.

Pierson, W. J., Jr., G. Newman, and R. W. James, 1955: Practical Methods of Observing and Forecasting Ocean Waves by Means of Wave Spectra and Statistics, U. S. Navy Hydrographic Office.

Quayle, R. G., 1974: A climatic comparison of ocean weather stations and transient ship records. Mariners Weather Log, 18, 307-311.

Quayle, R. G., 1980: Climatic comparisons of estimated and measured winds from ships. JAM, 19, 142-156.

Quayle, R. G. and M. J. Changery, 1982: Preliminary height and period adjustments for visual wave data. Mariners Weather Log, 26, 2-3.

Resio, D. T., 1981: The estimation of wind-wave generation in a discrete spectral model. J. Phys. Oceanogr., 11, 511-525.

Resio, D. T. and C. L. Vincent, 1979: A comparison of various numerical wave prediction techniques. Presented at Offshore Technology Conference, Houston, Mar. Tech. Soc. and Amer. Soc. of Civ. Eng., Paper 3642.

Silver, A. L., and S. L. Bales, 1983: Application of Numerical Wave Models to Analysis of FF-1052 Class Casualties. David W. Taylor Naval Ship Research and Development Center, DTNSROC/SPD-1008-01, Bethesda, Maryland 20084, January 1983.

U. S. Army Hydraulics Laboratory: Surface Pressure Field Reconstruction for Wave Hindcasting Purposes, WIS Report 1, July 1980. U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, Mississippi 39180.

U. S. Army Hydraulics Laboratory: Pacific Coast Hindcast, Deep Water, Significant Wave Information, WIS Report 14, In Press. U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, Mississippi 39180.

U. S. Army Hydraulics Laboratory: Objective Specification of Atlantic Ocean Wind Fields from Historical Data, WIS Report 4, May 1982. U. S. Army Engineer Waterways Experiment Station, P. O. Box 631, Vicksburg, Mississippi 39180.

U. S. Department of Commerce: Climatic Summaries for NOAA Data Buoys. January 1983. National Oceanic and Atmospheric Administration, National Weather Service, NOAA Data Buoy Center, NSTL Station, Mississippi 39529.

U. S. Navy, Naval Weather Service Command: Marine Climatic Atlas of the World, Volume 1 (Revised), North Pacific Ocean. NAVAIR 50-1C-529, 1977.

U. S. Navy, Naval Weather Service Command: Numerical Environmental Products Manual. NAVAIR 50-1G-522, June 1975.

U. S. Navy, Naval Oceanographic Office: Monthly Charts of Mean, Minimum, and Maximum Sea Surface Temperature of the North Pacific Ocean. SP-123, Washington, DC 20373, 1969.

U. S. Navy, Naval Oceanography Command: U. S. Navy Hindcast Spectral Ocean Wave Model Climatic Atlas: North Atlantic Ocean. NAVAIR 50-1C-538, 1983.

World Meteorological Organization, 1960: Guide to Climatological Practices (Supplement No. 5, 1966). Geneva, Switzerland, P. IX. 32.

World Meteorological Organization, 1976: Handbook on Wave Analysis and Forecasting WMO No. 446, Geneva, Switzerland.

World Meteorological Organization, 1981: WMO Guide to Marine Meteorological Services, 1981. See WMO Resolution 35 (Congress IV) as amended by recommendation 36 (1968-CMM).