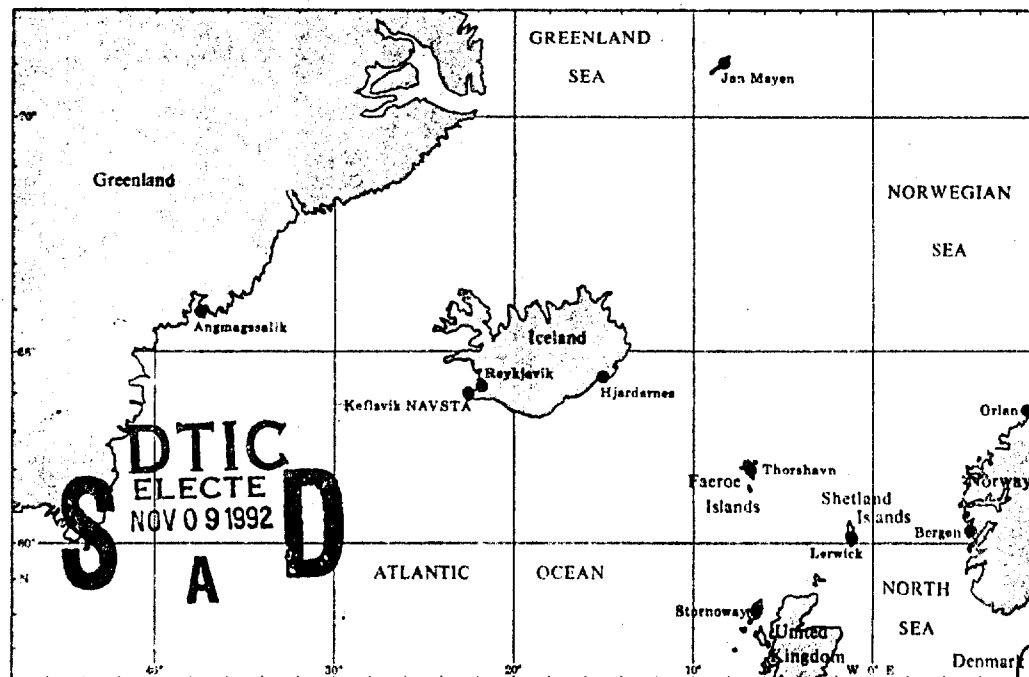


U.S. NAVY REGIONAL CLIMATIC STUDY OF THE GREENLAND-ICELAND- UNITED KINGDOM GAP and ASSOCIATED WATERS

MARCH, 1992



PREPARED BY
NAVAL OCEANOGRAPHY COMMAND DETACHMENT
ASHEVILLE, NC

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC

PREPARED UNDER AUTHORITY OF
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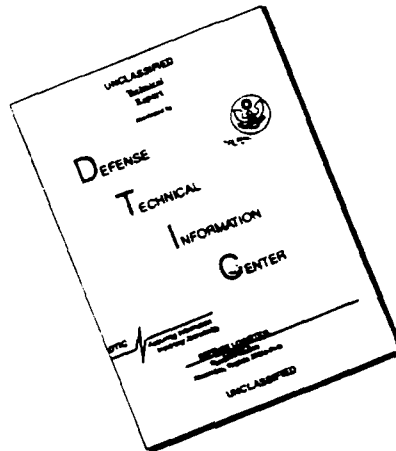


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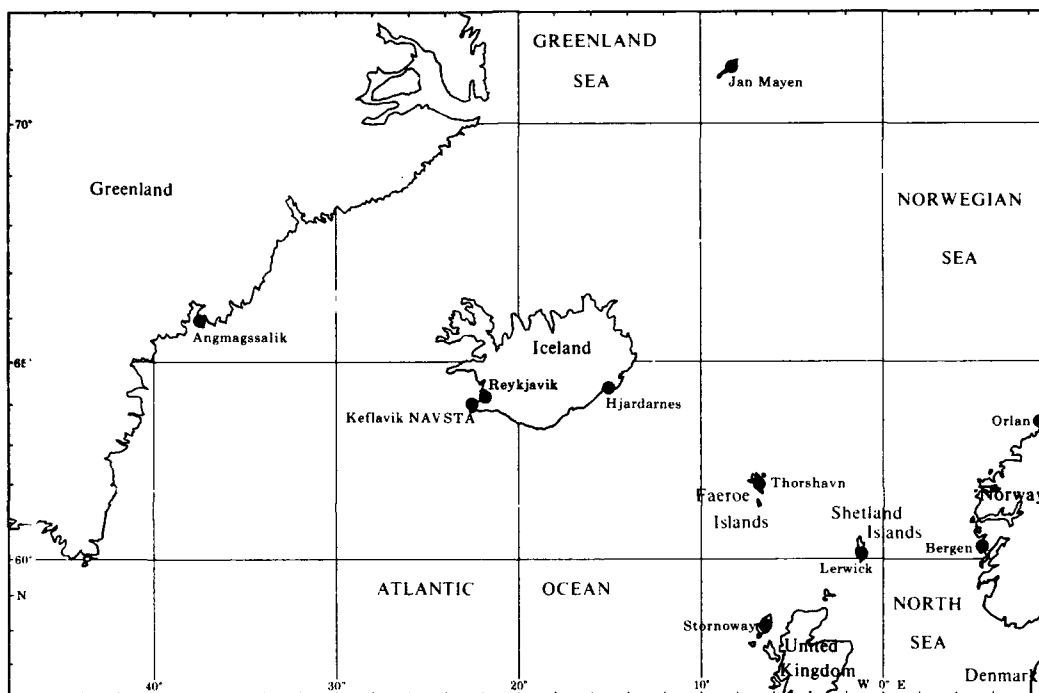
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U.S. NAVY REGIONAL CLIMATIC STUDY OF THE
GREENLAND-ICELAND-UNITED KINGDOM GAP AND ASSOCIATED WATERS

The U.S. Navy Regional Climatic Study of the Greenland-Iceland-United Kingdom Gap and Associated Waters was prepared for the Commander, Naval Oceanography Command (CNO) by the Officer in Charge, Naval Oceanography Command Detachment, Asheville, North Carolina. The work was performed in Asheville at the National Oceanic and Atmospheric Administration's (NOAA) National Climatic Data Center (NCDC). The surface marine and coastal station statistics presented in this study were made possible through programs designed at the NCDC and funded primarily by CNO in support of the U.S. Navy's continuing marine climatology requirements.

Special acknowledgement is given to the following meteorologists of the NCDC's Global Climate Laboratory (GCL): William A. Brower, Jr., for serving as project leader and chief climatic analyst; William O. Brown, for serving as assistant climatic analyst and production of the Station Climatic Summaries; Phala L. Franks, for performing the computer processing and editing of marine data; M. Lawrence Nicodemus, for development of the Station Climatic Summaries; and Michael J. Changery, for performing an editorial evaluation of the text, isopleth analyses, and graphics products. Specific acknowledgment is also made to the GCL's Ronald G. Baldwin, computer programmer/analyst, for production of the computer-generated graphic presentations; and to meteorological technicians Charles W. Thomason, Michael G. Burgin, Scott J. Miller, and David A. McKittrick for editing the isopleth analyses and drafting skills in preparation of this publication for printing.

Geographical Coverage

This first of four volumes of the climatic study covers the Greenland-Iceland-United Kingdom Gap and associated waters from 56 degrees north to 72 degrees north latitude and from 48 degrees west to 9 degrees east longitude. Figure 1 shows the area and the locations of 10 coastal and island stations for which climatic statistics are presented. This area is only part of a much larger area analyzed for the four volume publication incorporating the region from 70 degrees west to 30 degrees east longitude and from 40 degrees north to 75 degrees north latitude. An analysis was performed on the entire marine and coastal study area in order to permit continuity between the four atlas areas. Meteorologists, aided by technicians, drew isopleths (lines connecting points of equal magnitude) on 252 monthly element maps, and made subjective adjustments to the analyses when data biases or insufficient observations were evident. They also performed consistency checks in the sets of monthly patterns for each element and among elements, as well as comparative checks with other marine atlases and publications.

Climatic Data and Summaries

Surface marine statistics are presented on monthly charts in the form of graphs, tables, and isopleth maps. Statistics include the means or percent frequency of occurrence of threshold values for wind, visibility, clouds, precipitation, air and sea surface temperatures, ocean waves and sea ice for the given month. The marine statistics, for other than sea ice, are based on approximately 17.5 million hourly observations taken from the NCDC's Tape Data Family (TDF) 1129. Of these 17.5 million total observations, approximately 6.9 million relate directly to this publication. These observations were collected by ships of various registry frequenting the marine area over the period 1854-1989.

Many of the ships' observations are presently transmitted over the Global Telecommunications System, captured and archived. Other observations are digitized from ship log forms by various participating members of the World Meteorological Organization, and exchanged under international agreement among the various maritime nations of the world. Although data for this study date from 1854, most of the observations have been collected in the past 40 years, which is significant because recent observations contain more elements than pre-1949 reports. The density of observations is greatest along major shipping routes concentrated toward the southeastern quadrant of the region and, of course, the near coastal waters. The heaviest shipping traffic lies to the south of the study area along the major routes between Europe and points to the south and west.

The TDF-1129 data were subjected to thorough computer and visual quality control to eliminate duplicate observations and exclude questionable elements detected during internal consistency and extreme value checks. The edited data were computer summarized and plotted by one-degree quadrangles and subjectively analyzed by meteorologists in order to produce isopleth maps. Subjective adjustments were made to the analyses when data biases or insufficient observations were evident. Consistency checks were also made in the sets of monthly patterns for each element and among elements, as well as comparative checks with other marine atlases and publications.

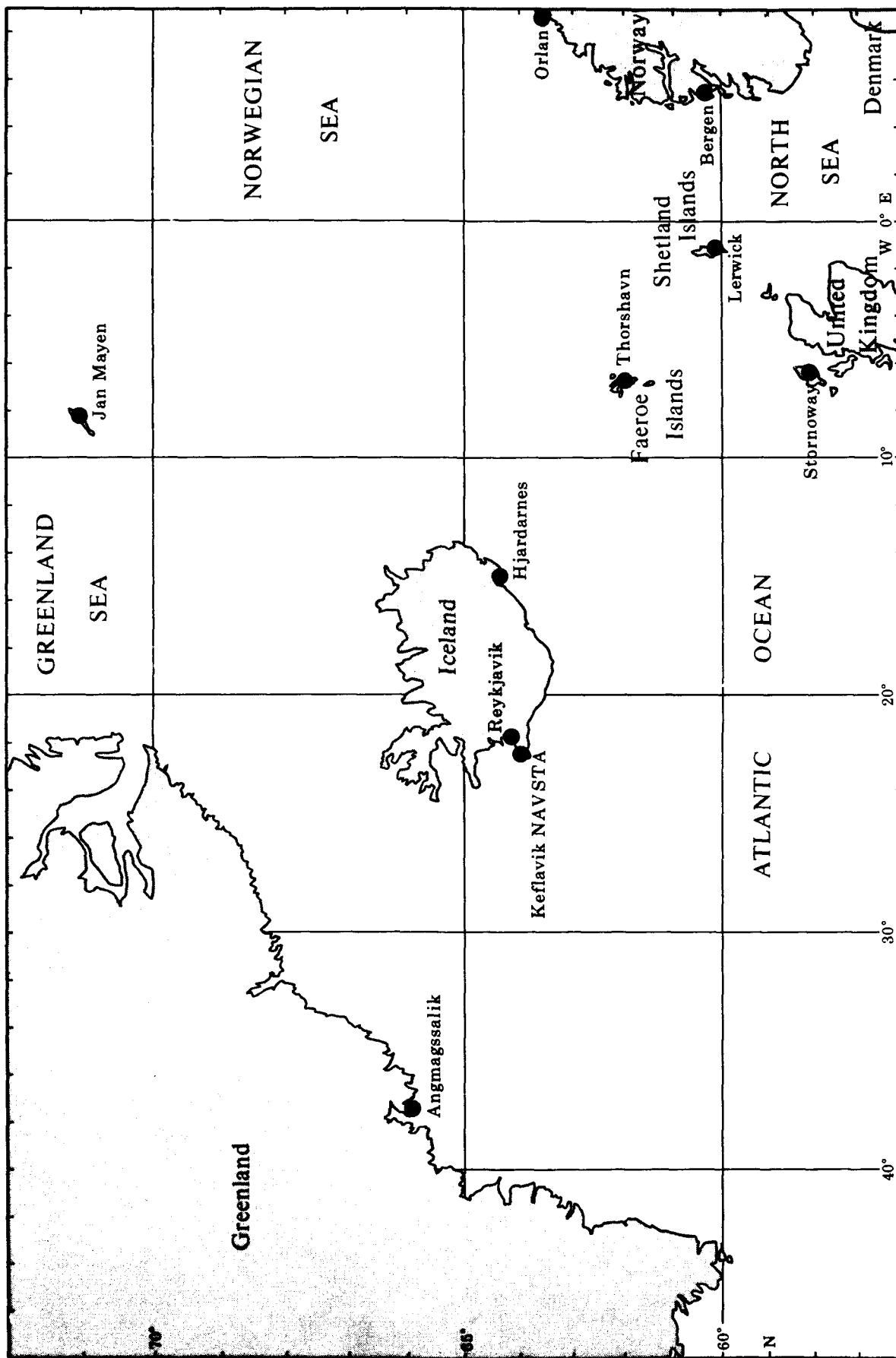


Figure 1. Station location and geographical coverage map

Computer graphs and tables of visibility, wave heights, and wind roses are also presented by quadrangle on monthly charts. The legends on the charts contain detailed instructions on how to read the graphics. The graphs and tables represent the objective compilation of available data. These data were not adjusted for suspected biases (low observation count, heavy weighting of observations taken during relatively short time intervals, biases in coding of observations from various source decks, etc.); hence, differences may be found when comparing the graphical data with the isopleth analyses. The total number of observations for a given quadrangle should always be considered when interpreting the data because there may not be a sufficient number for the calculation of climatically representative statistics.

Sea ice in the northern areas, throughout the year, restricts shipping and the collection of marine observations in these regions. For this reason, the mean sea ice edge is displayed on each month's isopleth chart, and all isopleths terminate at the ice edge so as to decrease the subjectiveness of the analysis. If any observations do occur within the mean ice edge, they are based on ship reports during warmer than normal periods and thus bias the averages towards these periods. The ice statistics were taken from the U.S. Navy's Sea Ice Climatic Atlas: Volume II Arctic Ice East (NAVAIR 50-1c-541).

Station Climatic Summaries (SCS) are presented in tables for the 10 coastal and island stations shown in Figure 1. Table 1 lists the station name, location coordinates, and period of record for the hourly (telecommunications) data which were processed for each of the stations. Data for these 10 stations were taken from the October 1990 version of the International Station Meteorological Climate Summary (ISMCS) produced jointly by the Naval Oceanography Command Detachment-Asheville (NOCD), the United States Air Force Environmental Technical Applications Center-Asheville (USAFETAC OL-A), and the National Climatic Data Center based on data taken from the edited digital files of the ETAC.

TABLE 1. Climatic Summary Stations

WMO NO.	STATION NAME	LAT (N)	LON (E/W)	POR
010010	Jan Mayan, NO	70-56 N	008-40 W	1973-90
012410	Orlan, NO	63-42 N	009-36 E	1973-90
013110	Bergen, NO	60-18 N	005-13 E	1973-90
030050	Lerwick, UK	60-08 N	001-11 W	1973-90
030260	Stornoway, UK	58-13 N	006-19 W	1973-90
040180	Keflavik Navsta, IL	63-58 N	022-36 W	1949-90
040300	Reykjavik, IL	64-08 N	021-54 W	1973-90
040820	Hjardarnes, IL	64-15 N	015-11 W	1973-90
043600	Angmagssalik, GL	65-36 N	037-38 W	1973-90
060110	Thorshavn, FA	62-01 N	006-46 W	1973-90

A word of caution. The intent of this atlas presentation is to gather and present existing data on climatological conditions within the marine and near coastal areas of the Greenland-Iceland-United Kingdom Gap and adjacent waters. The data are presented without discussion and interpretation. Given the information presented in the introductory text, legend descriptions on all charts, and numbers of observations displayed with the graphics presentations, the user should be able to assess the degree of statistical confidence in the presented climatology for a given month and location. The climatological statistics for the 10 coastal and island stations are presented to afford a better climatological picture of the coastal area. Differences, however, may be found when comparing the station tabular data with the marine isopleth analyses.

PHYSICAL FEATURES

The Greenland-Iceland-United Kingdom Gap is bordered on the northwest by Greenland, the world's largest island. Icecaps cover nearly four-fifths of the island (all but the extreme coastal areas) and peaks rim nearly the entire circumference rising abruptly to elevations in excess of seven thousand feet; Greenland can be compared to an ice-filled cup which is rimmed by high coastal ranges. In locations, this icecap is in excess of 11,000 feet thick, 1,500 miles long and 700 miles wide.

Located in the center of the study area, considered the northern boundary of the Atlantic Ocean or the southern boundary of the Norwegian and Greenland Seas, is the island of Iceland where mountain tops tower above the six thousand foot level. Sitting on the Mid-Atlantic Ridge and created by volcanic activity, the island has numerous active volcanoes and hot springs. Many glaciers dot the island, the largest being Vatnajökull which covers over 3,400 square miles and is in excess of 750 feet thick in some places.

To the southeast, midway between Iceland and the coast of Scotland, sitting on the submarine Faeroe-Icelandic Ridge, lies the small Faeroe Island chain comprising an area of only 540 square miles. The southeastern border of the study area is made up of the northern islands of the United Kingdom, specifically the Shetland Islands, Orkney Islands and Outer Hebrides as well as mainland Scotland. This area is of little climatological significance because of its small land area and relative lack of elevation.

Other represented land masses include western Norway on the eastern border of the study area whose jagged, rocky coastline rises to mountainous terrain with peaks in excess of eight thousand feet and the island of Jan Mayen lying in the extreme northern regions. Jan Mayen, a Norwegian trustee of only 144 square miles, is volcanic in nature. The entire northern portion of the island is occupied by the volcano Beerenberg which rises almost directly from the floor of the Greenland Sea to an elevation of nearly seven thousand five hundred feet, making it one of the tallest volcanic mountains on earth.

Figure 2 provides some general topography information and Figure 3 provides some general bathymetry information.

GENERAL CIRCULATION AND CLIMATE

Perhaps the most notable climatic feature in this region is the presence of the Icelandic Low, a semi-permanent low pressure area which is most dominant during the winter months. At this time, it is usually over the Denmark Strait, but may be located anywhere within the Iceland area, and is readily found at the 500 millibar level. This, in conjunction with a somewhat weakened high pressure system south of the study area referred to as the Azores high, creates rather strong and consistent westerly and southwesterly winds both at the surface and aloft between Iceland and the Scandinavian coast and is directly responsible for the moderate temperatures experienced as far north as northern Scandinavia and the northwestern parts of the Soviet Union. Contrary to popular belief, the Gulf Stream plays a significant role in modification of the climate of northern Europe but is truly secondary when compared to the near continuous southwesterly flow of air created by this semi-permanent low pressure system. Not only does this near-continuous flow of air help direct the Gulf Stream but the wind is warmed by the waters below. This near-persistent flow also creates a very pronounced storm track for North Atlantic storms which also allows for warmer air to be transported northward into western Europe.

During the summer the Icelandic Low regresses northward near Jan Mayen and weakens significantly while the Azores high pressure system strengthens and moves poleward. This typical pattern permits winds from a more northwesterly quadrant to infiltrate northern and western Europe and allows cooler air from the Greenland and Norwegian Seas to move over the area, thus resulting in a somewhat maritime and cool summer climate contrasting with areas further inland. Figure 4 shows the mean sea-level pressure distribution in January and July for the area 70 degrees west to 30 degrees east and 40 degrees north to 70 degrees north.

The Greenland-Iceland-United Kingdom Gap and associated waters are influenced by three ocean currents; two warm and one cool. Figure 5 defines these ocean currents. By far the most significant feature influencing surface currents is the Gulf Stream, or the North Atlantic Drift as it's called in these latitudes. The main part of the drift flows through the Faeroe-Shetland Channel at an average annual temperature of between 44 and 47 degrees Fahrenheit (6.7 and 8.1 degrees Celsius). This Atlantic inflow is by far the most important current and heat transport mechanism for the region, therefore any minor change in flow or temperature causes a significant difference to conditions in the surrounding area. As the current progresses northward, a fork enters the North Sea while the main flow weakens and becomes known as the Norway Current as it continues northward toward the Barents Sea.

In the Greenland Sea, the East Greenland Current migrates southwestward from the Arctic waters and merges with the warmer Irminger Current originating as a northwestward moving spur from the North Atlantic Current south of Iceland. The mixing of these two currents is what allows for moderation of the climate along the southeastern coast of Greenland.

Seasonal location of sea ice in the area varies greatly from year to year but never completely disappears. A permanent tongue of polar pack ice exists on the eastern Greenland coast throughout the year near the extreme northwest quadrant of the study area. The greatest concentration of ice occurs in the Greenland-Iceland area along the Denmark Strait and reaches an average maximum concentration in late March to mid April when there is a 20 percent or greater chance that the northern coast of Iceland will be iced-in. At this time, the entire east coast of Greenland is enclosed in ice southward to the Cape Farewell/Julianehab area. The ice pack starts retreating around May 15 and continues until its minimum coverage about the middle of September. Seldom is pack ice seen in the Norwegian Sea at these latitudes due specifically to the warm waters of the Norway Current.

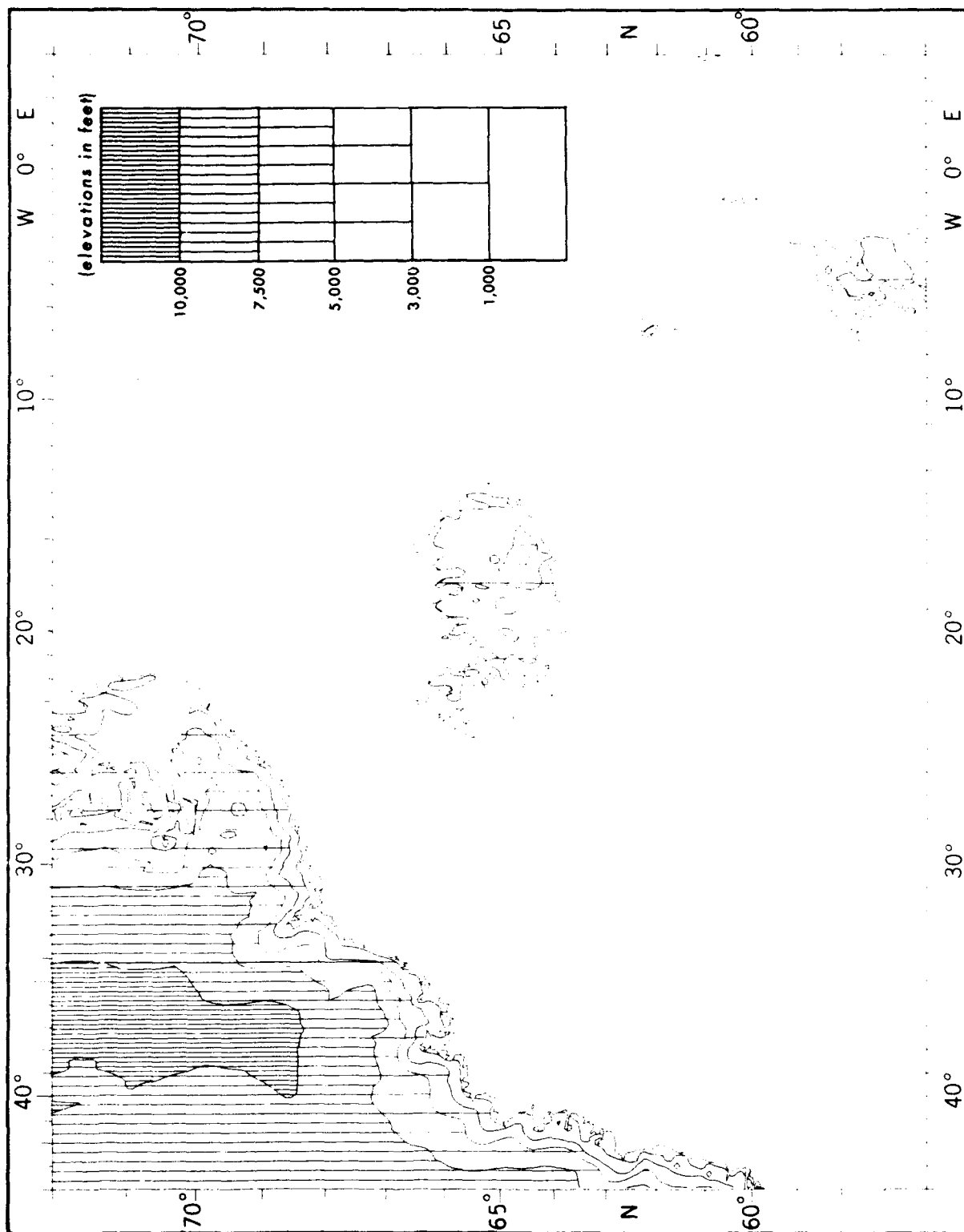


Figure 2. Topography map

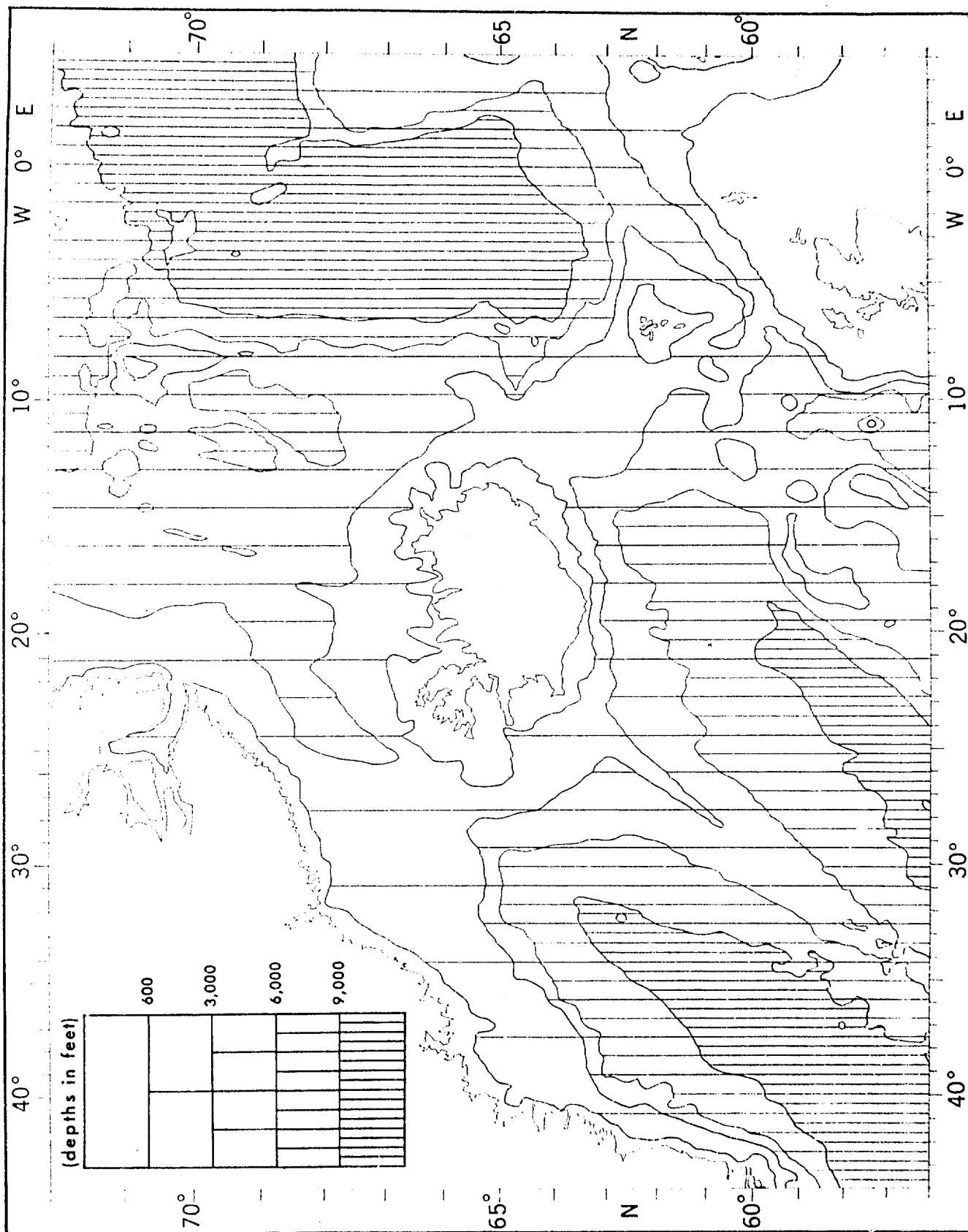


Figure 3. Bathymetry map

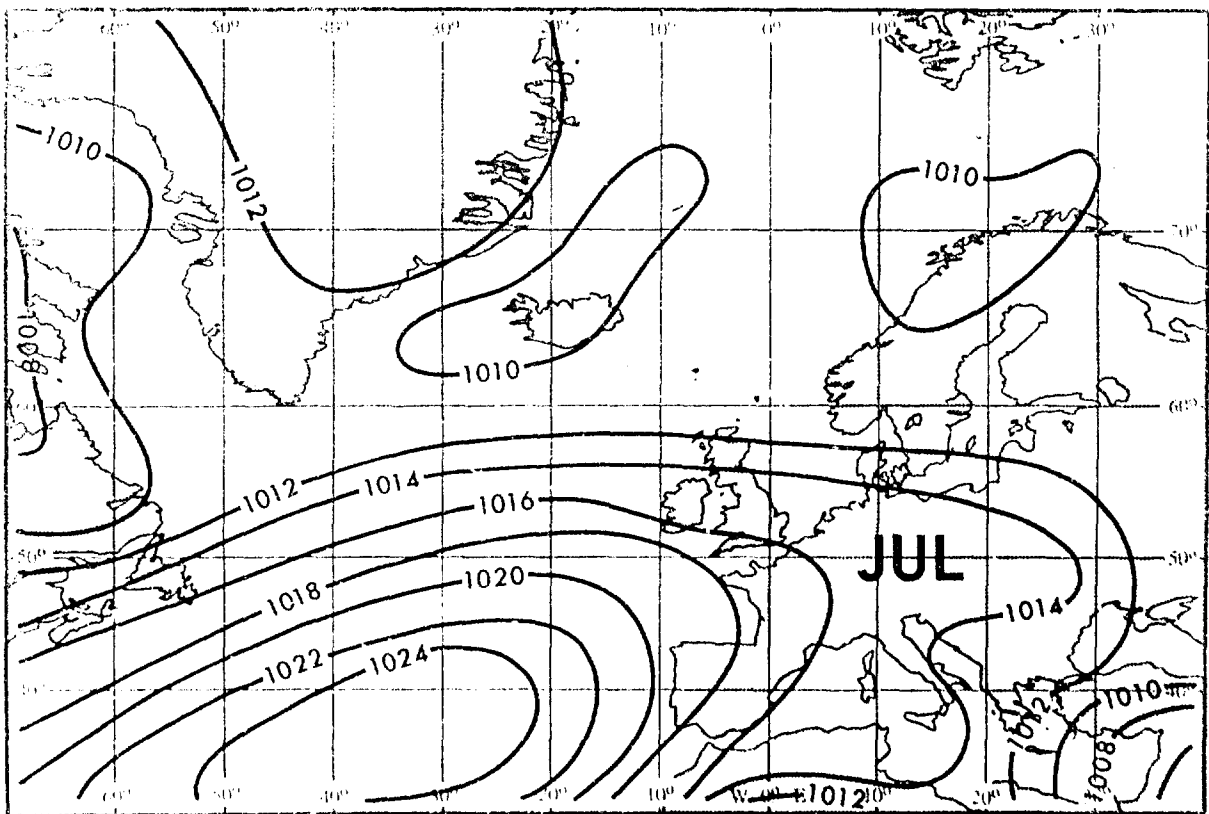
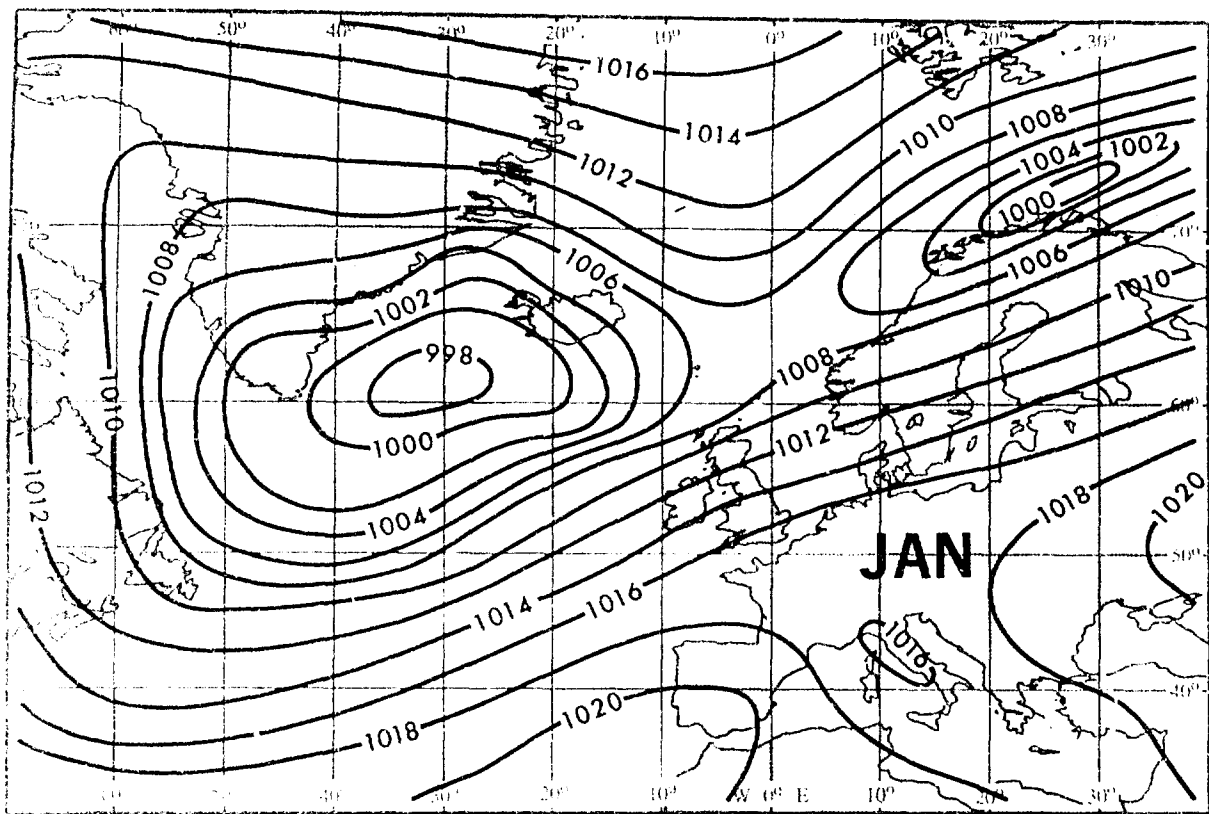


Figure 4. Sea-level pressure (millibars)

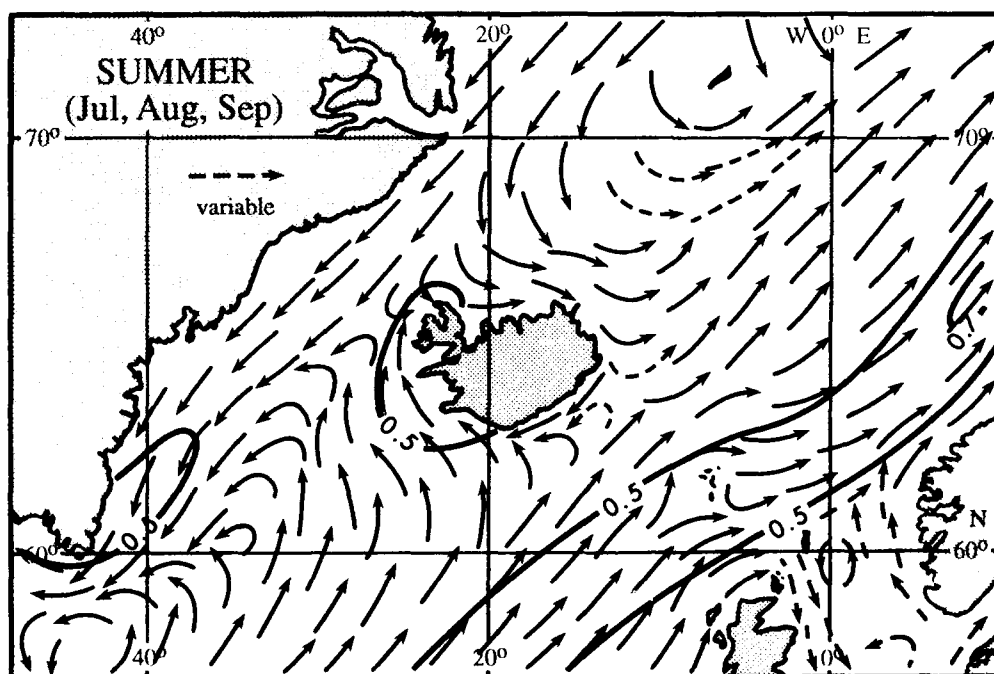
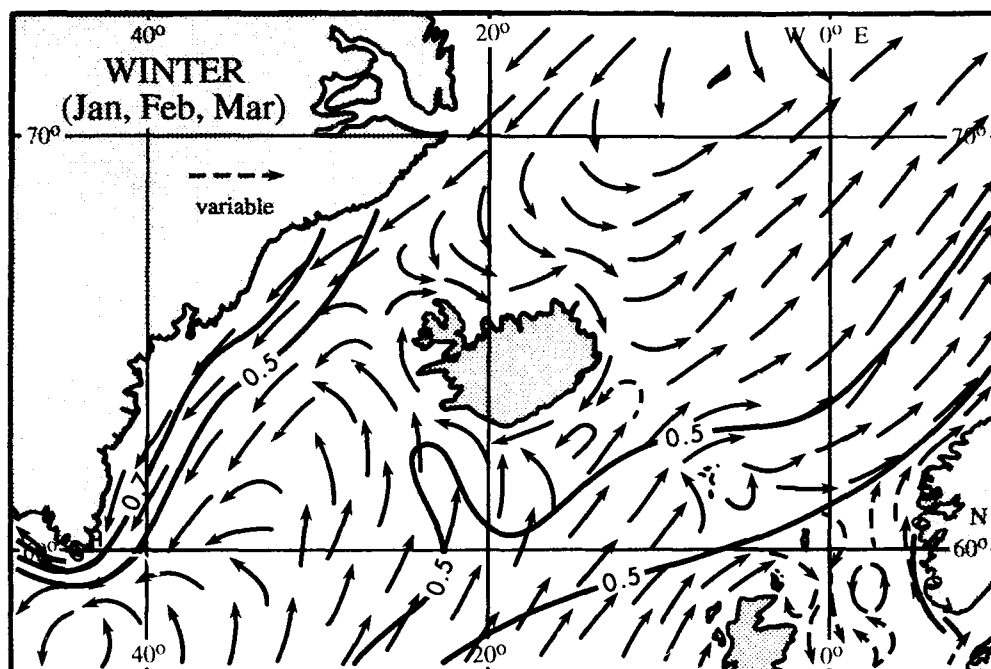


Figure 5. Surface currents (knots)

Marine Climatological Elements

Precipitation

Of the elements recorded in the marine data base, precipitation is the one most subject to error in both the way it is observed and the way it is interpreted. For example, it is often inferred in the literature that ships often try to avoid foul weather and thereby bias the data towards fair weather with fewer precipitation observations. Elms (1986) compared the Volunteer Observing Ship (VOS) and buoys, finding little evidence that "fair weather bias" is a serious problem for most applications of marine climatic data. With the introduction, in 1982, of a present weather indicator (i_x) to the International Ship Synoptic code FM13-VII, users have to be careful not to bias the data, especially those from between January 1982 and March 1985 when the indicator was inadvertently left out of the international data exchange format.

Assessing oceanic precipitation is always a major problem because transit ships are unable to take quantitative measurements. A number of studies have been conducted in an effort to predict precipitation amounts, or rates of fall based on estimates derived from readings from satellites (Rao, et al., 1976). For the monthly presentations of percent frequency of precipitation, the present weather codes 20-27 (precipitation within the past hour) were included with codes 50 through 99 to compute the percent frequency of precipitation in an effort to correct an apparent observational bias. This brings the frequencies more in line with results obtained from ocean weather station observations, the most reliable bench-mark for the open ocean.

Air Temperature

Air temperature is one of the elements most frequently observed by mariners. It should be noted that on many ships the heating effect of the ship's structure has a tendency to produce higher than actual ambient air temperature readings because of instrument exposure (Folland, et al., 1984; Wright, 1986). This is especially true under calm, sunny conditions. Therefore, some ship temperature observations have a warm bias; however, the aggregate is relatively representative after erroneous outliers have been eliminated and the numerous nighttime observations and unbiased daytime observations are included. Also, true extremes are rarely captured since continuous observations are not made at most ocean locations. It is highly unlikely that a ship-of-opportunity would be taking its synoptic weather observations at the exact time that an extreme was occurring.

Sea-Surface Temperature

Sea-surface temperatures are recorded with fairly high frequency in marine observations. The principle methods for sampling are with ship water-intake thermometers and by reading the temperature of sea water retrieved with buckets. Even though the two methods can produce slightly different results (Barnett, 1984), the data can be used with considerable confidence when examining the long-term means.

Surface Winds

Surface wind is one of the most commonly observed elements. Many of the observations from the NCDC data base are visual observations based on the roughness of the sea. In recent years, more ships acquired anemometers and reported measured winds. Prior to 1963, many observed wind speeds were recorded in the Beaufort scale; such estimates have proven to be quite reliable and can be used with a high degree of confidence. Five sets of wind speed isopleths are presented: the scalar mean speed and the percent frequency of winds less than 11 knots, from 11 to 21 knots, from 22 to 33 knots, and greater than or equal to 34 knots. Also given are wind roses for one degree quadrangles.

Visibility

Visibilities are difficult to measure at sea because of the lack of distance reference points. Climatically, many low visibility observations are probably missed because the observer is too busy with other duties (a contrasting form of fair weather bias). However, the coarseness of visibility (code) intervals helps to minimize the problem, thereby permitting the summarized data to be relatively consistent.

Clouds

A survey of the cloud data (total and low cloud amount) from the surface marine observations data base shows that the number of total cloud reports are significantly greater than that of low cloud amounts. This is because many of the early marine observations contain only total cloud amount. For the two presentations (total cloud amount less than/equal to 2/8, and low cloud amount greater than/equal to 5/8), only those observations

reporting both total and low cloud amounts were summarized. This helps eliminate problems introduced as a result of different size data sets (n-count). The use of satellite data helps to bolster confidence in the total cloud analyses because they show fairly close agreement with those observed from the surface (U.S. Department of Commerce and United States Air Force, 1971).

Ceiling and Visibility

Aircraft-type ceilings are not available from marine observations. The ceilings are estimated from the height of the lowest cloud when low clouds cover more than half the sky. When the sky is totally obscured by rain, fog, dust, or other phenomena, the total obscuration is considered a ceiling with a height of zero. Mid-range ceiling and visibility charts (ceiling less than 1000 feet and/or visibility less than 5 nautical miles; ceiling less than 8000 feet and/or visibility less than 10 nautical miles) and low-range ceiling and visibility charts (ceiling less than 300 feet and/or visibility less than 1 nautical mile; ceiling less than 600 feet and/or visibility less than 2 nautical miles) are presented.

Wave-Heights

Wave-heights have been recorded in consistent quantitative code since the late 1940's. The reluctance of many observers to take wave observations in the earlier years and the difficulty in estimating waves, especially in confused seas, make wave observations one of the least commonly observed elements. The observations are also subject to biases. Generally, the heights are too low, the periods too short, and the sea-swell discrimination poor (Quayle, 1980). The data in this study have not been adjusted for the suspected biases, but were processed through a quality control procedure wherein an internal check was made between wind speed and sea-height. The data were also matrix-arrayed and apparent erroneous outlier data values were deleted from both the sea and swell data. Wave-height presentations include isopleth maps showing percent frequencies of wave-heights greater than or equal to 3 feet and greater than or equal to 8 feet. In addition, wave-height tables by quadrangle show frequencies by six wave-height categories. In these presentations, the higher of the sea or swell was selected for summarization. If heights are equal, the wave with the longer period was selected.

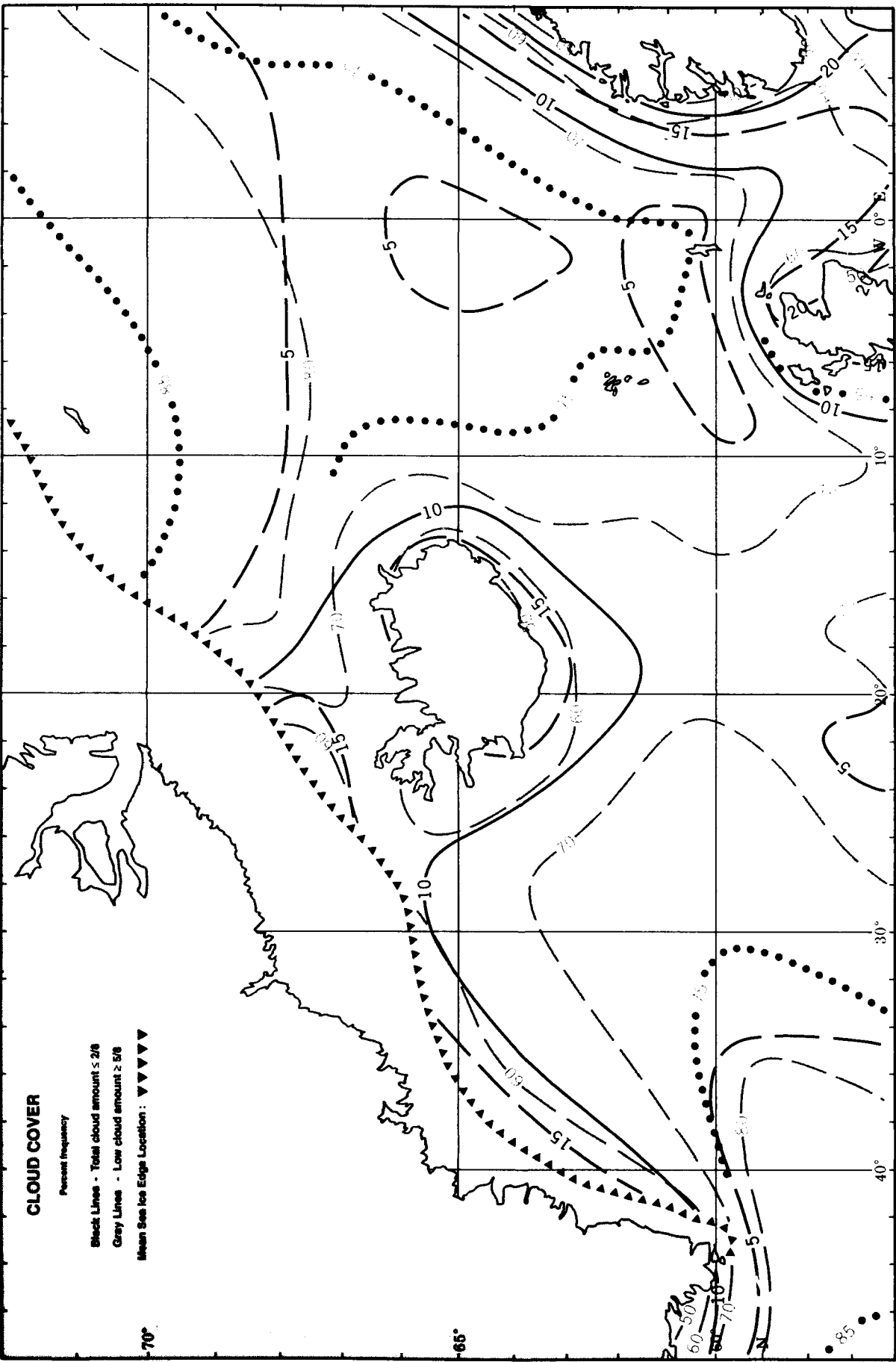
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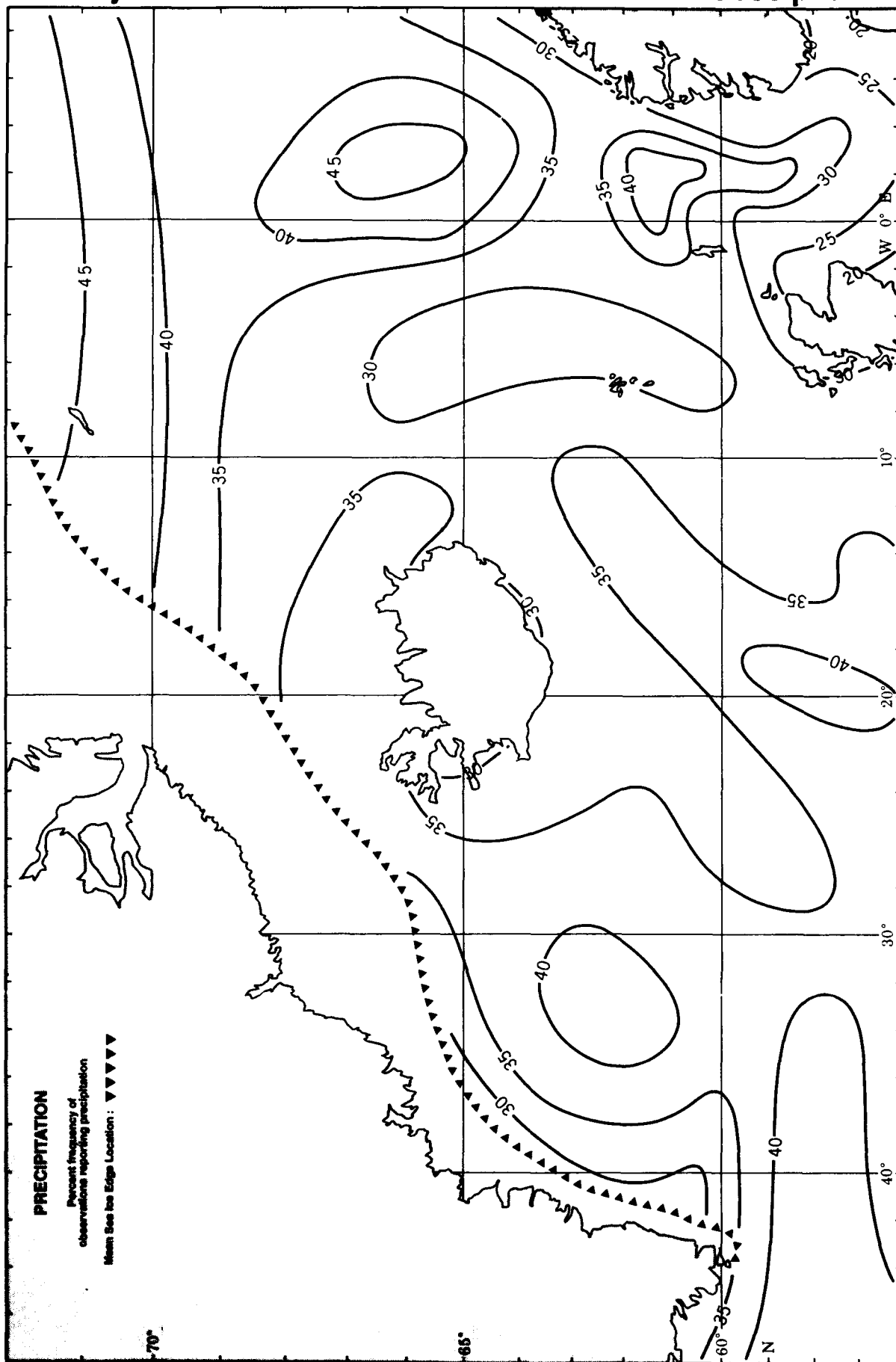
ELEMENT *	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Clouds	2	22	42	62	82	102	122	142	162	182	202	222
Precipitation	3	23	43	63	83	103	123	143	163	183	203	223
Visibility - Tables	4	24	44	64	84	104	124	144	164	184	204	224
Ceiling - Visibility (mid range)	6	26	46	66	86	106	126	146	166	186	206	226
Ceiling - Visibility (low range)	7	27	47	67	87	107	127	147	167	187	207	227
Wind - Visibility - Cloudiness	8	28	48	68	88	108	128	148	168	188	208	228
Mean Scalar Wind Speed	9	29	49	69	89	109	129	149	169	189	209	229
Wind Speed < 11 and ≥ 34 Knots	10	30	50	70	90	110	130	150	170	190	210	230
Wind Speed 11-21 and 22-33 Knots	11	31	51	71	91	111	131	151	171	191	211	231
Surface Wind Roses	12	32	52	72	92	112	132	152	172	192	212	232
Mean Air Temperature	14	34	54	74	94	114	134	154	174	194	214	234
Sea Temperature & Ice Edge Location	15	35	55	75	95	115	135	155	175	195	215	235
Waves ≥ 3 Feet & Ice Concentration	16	36	56	76	96	116	136	156	176	196	216	236
Waves ≥ 8 Feet & Ice Concentration	17	37	57	77	97	117	137	157	177	197	217	237
Wave Height - Tables	18	38	58	78	98	118	138	158	178	198	218	238
Surface Currents	20	40	60	80	100	120	140	160	180	200	220	240
Station Climatic Summaries	242 - 251											

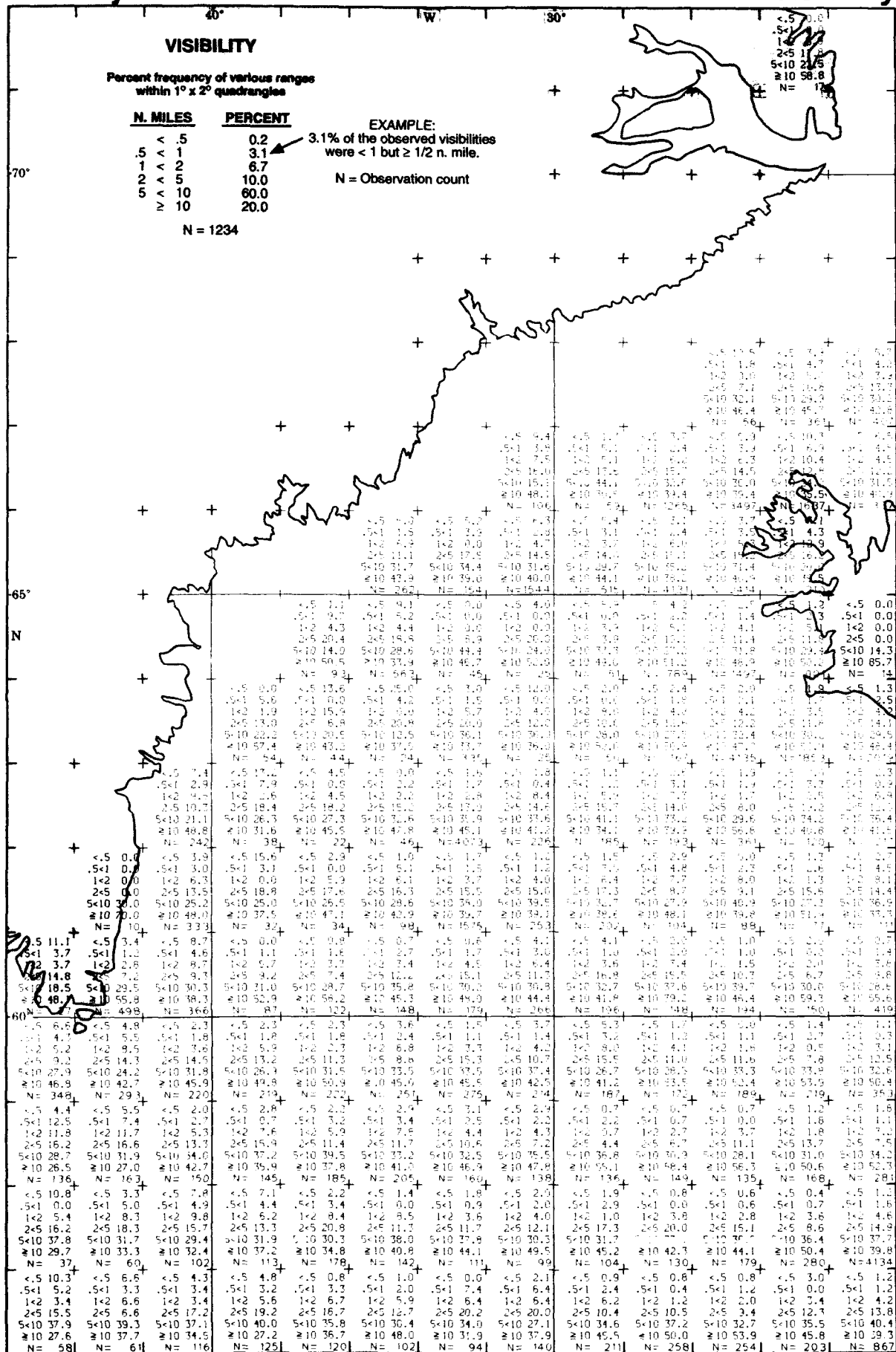
* Mean ice edge location is shown on all isopleth charts.



January

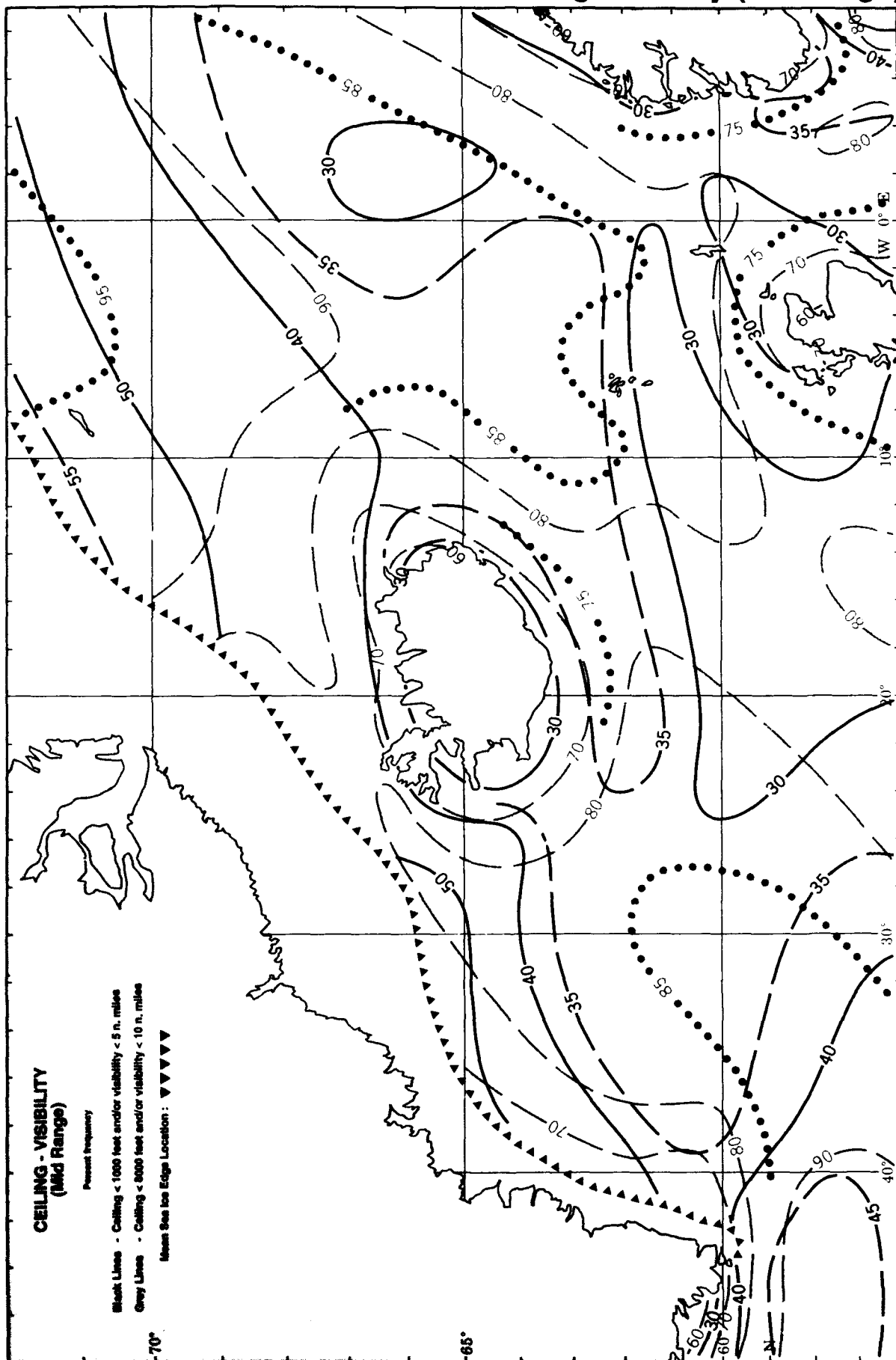
Precipitation





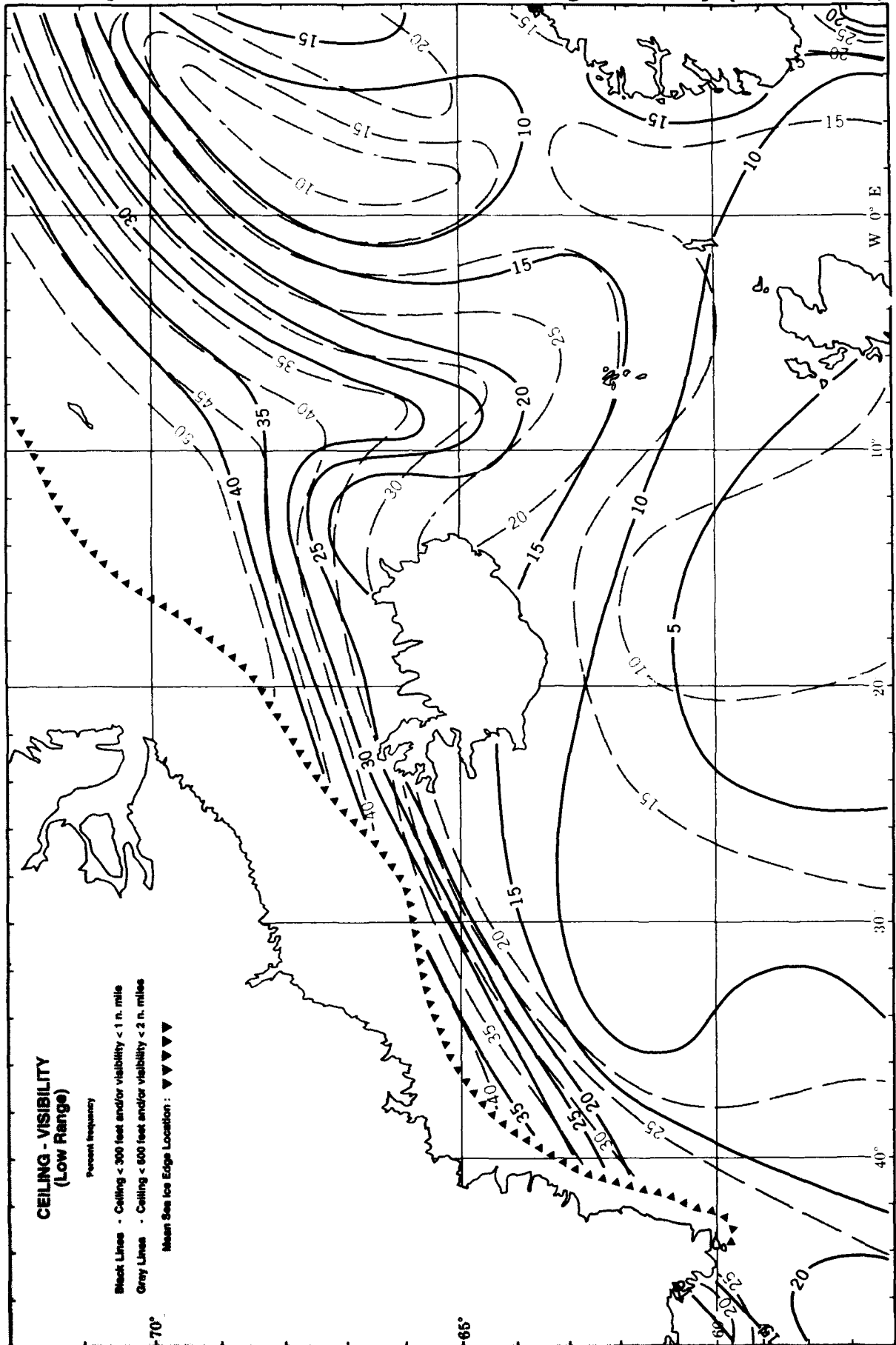
January

Ceiling-Visibility (mid range)



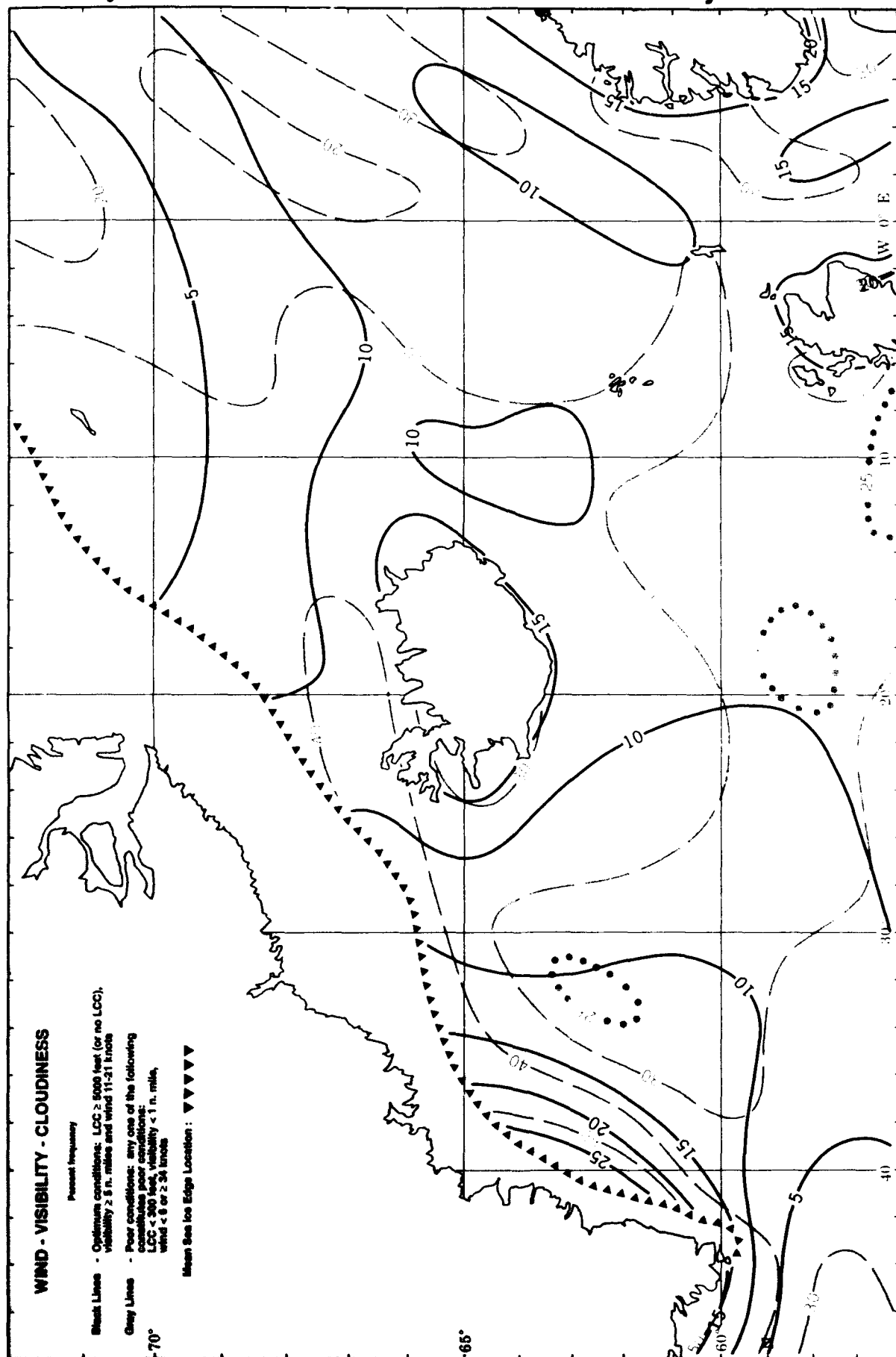
January

Ceiling-Visibility (low range)



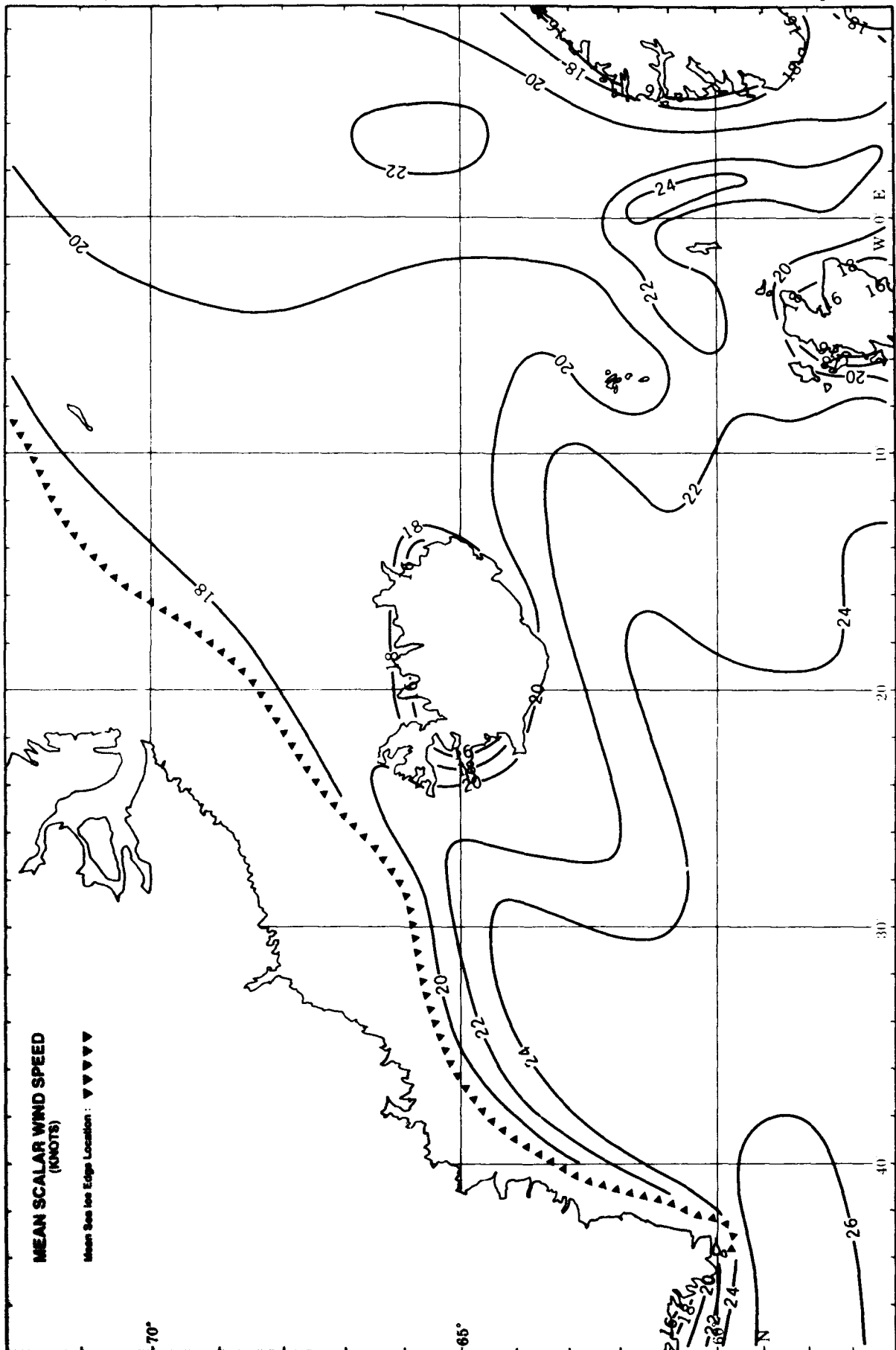
January

Wind-Visibility-Cloudiness



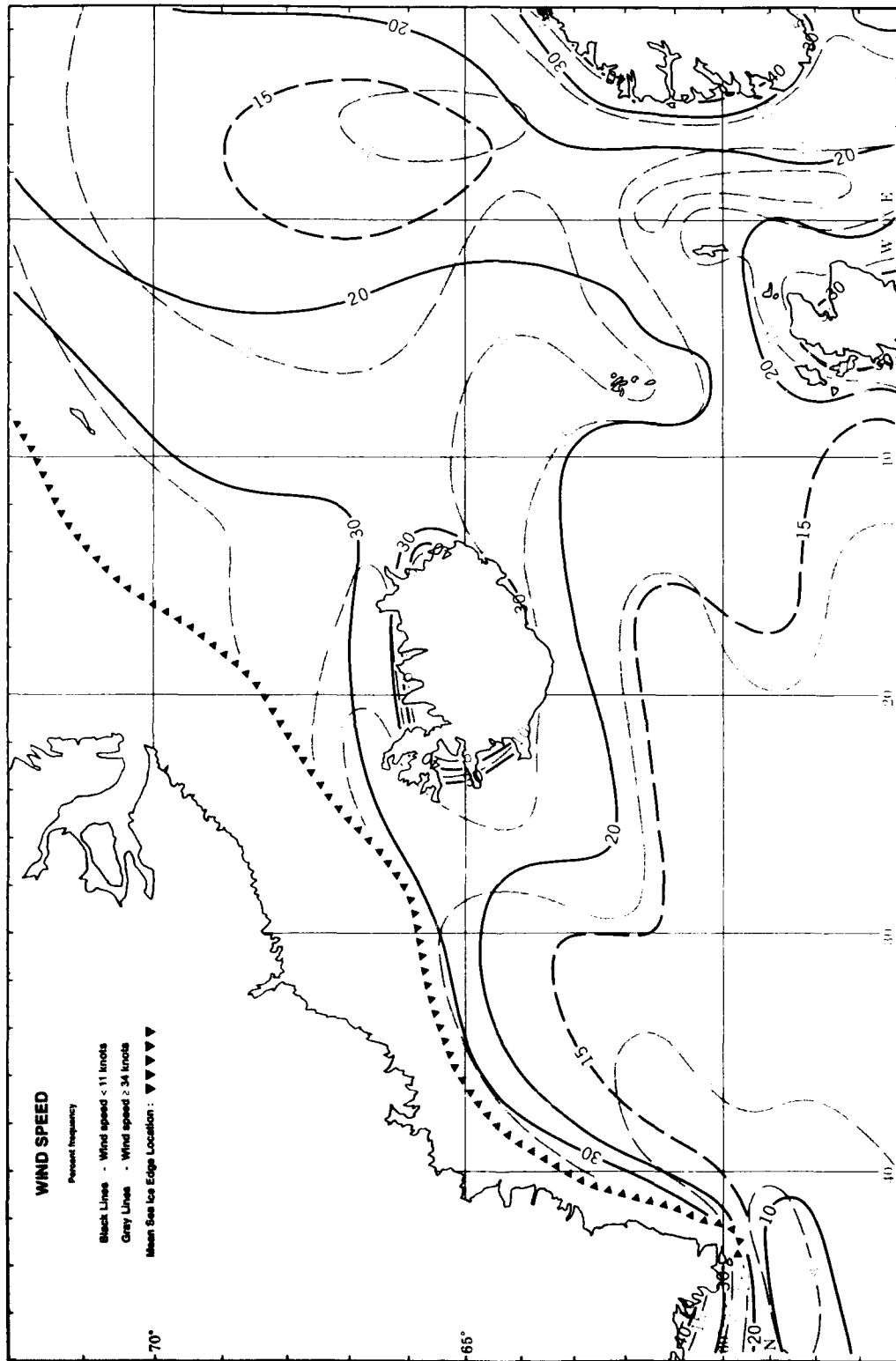
January

Mean Scalar Wind Speed



January

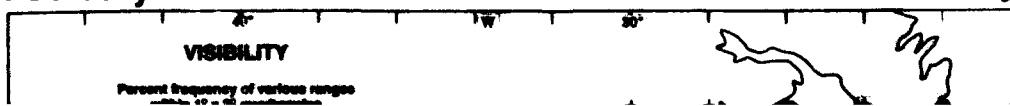
Wind Speed < 11 and ≥ 34 Knots



10

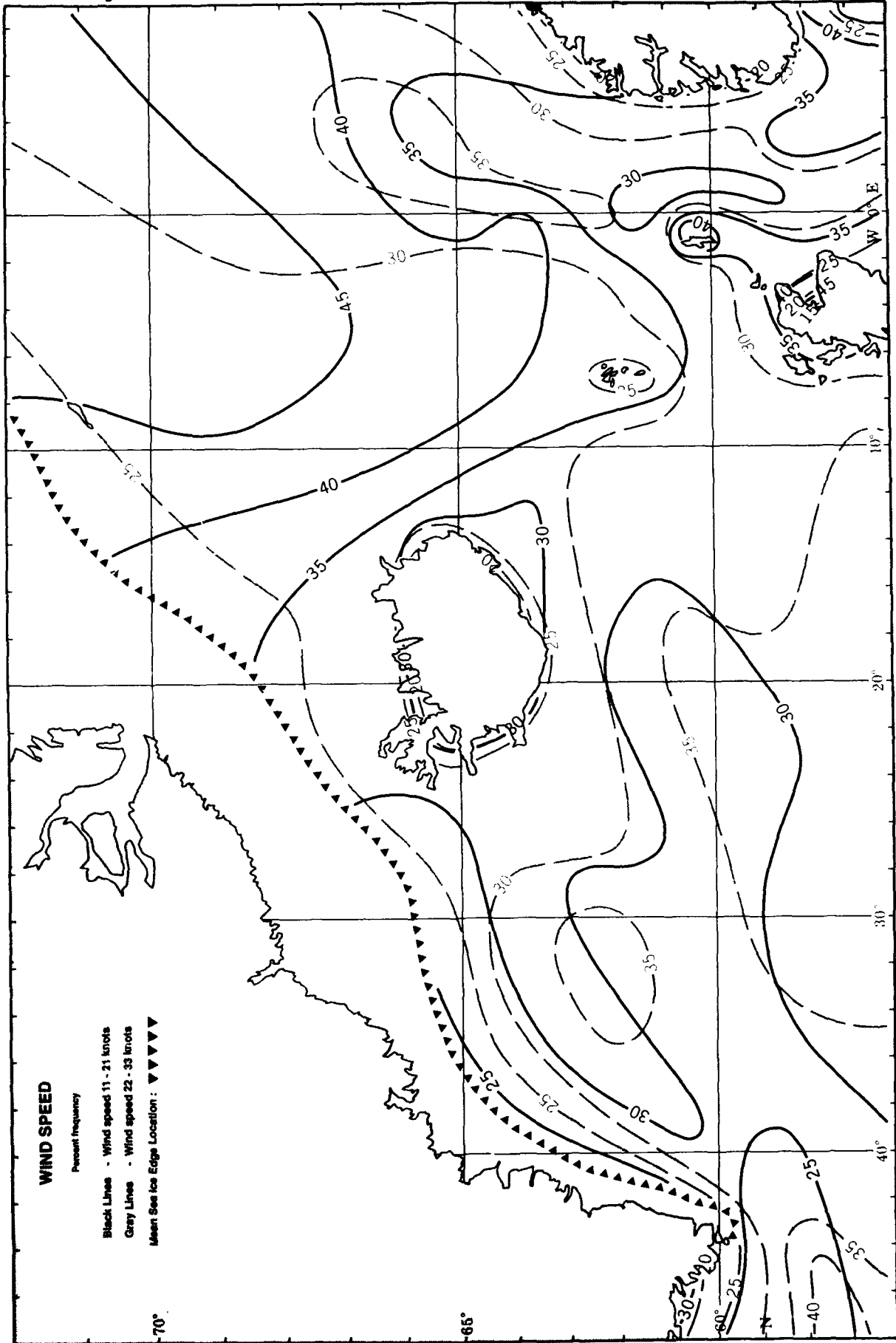
February

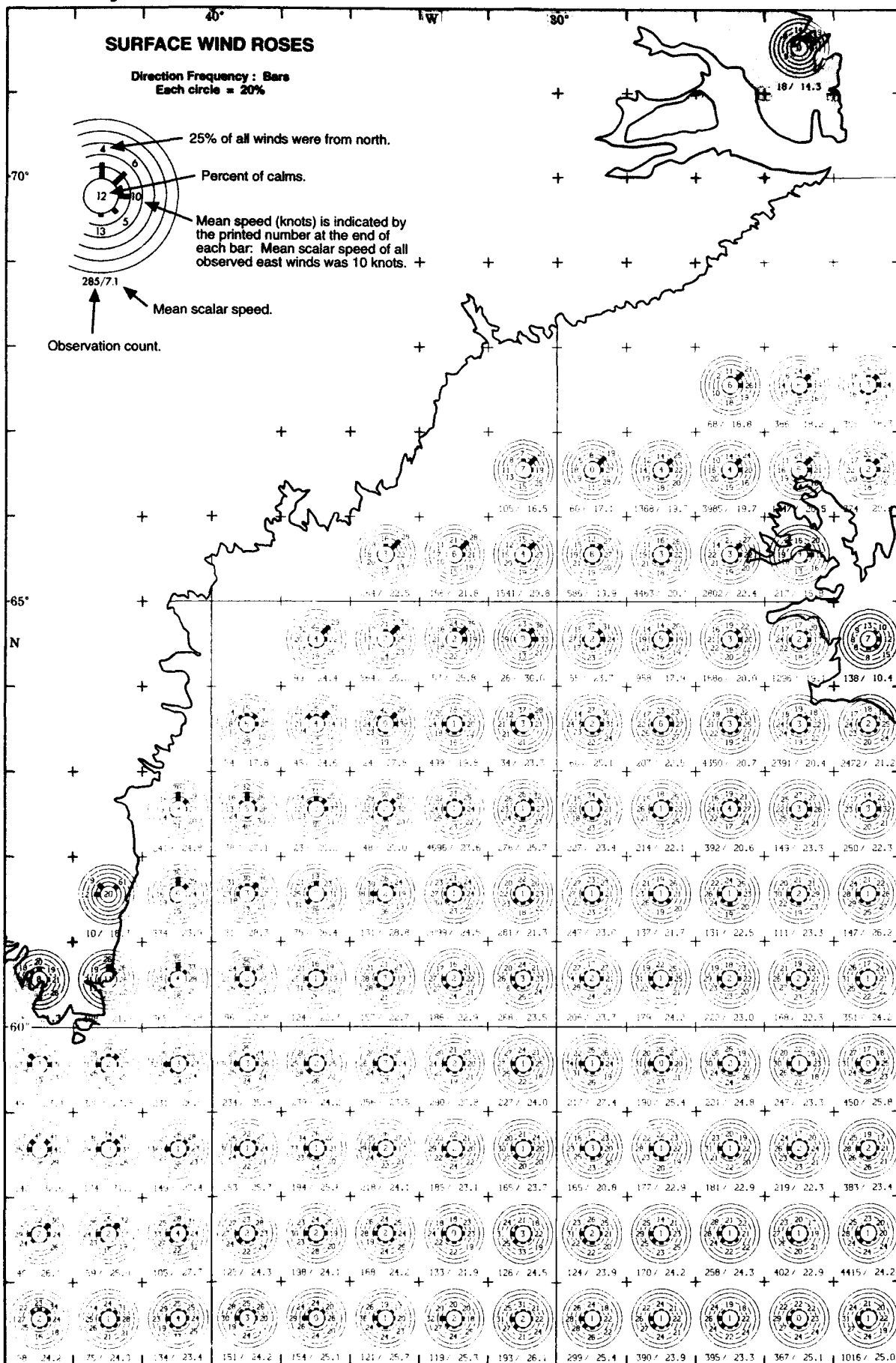
Visibility



January

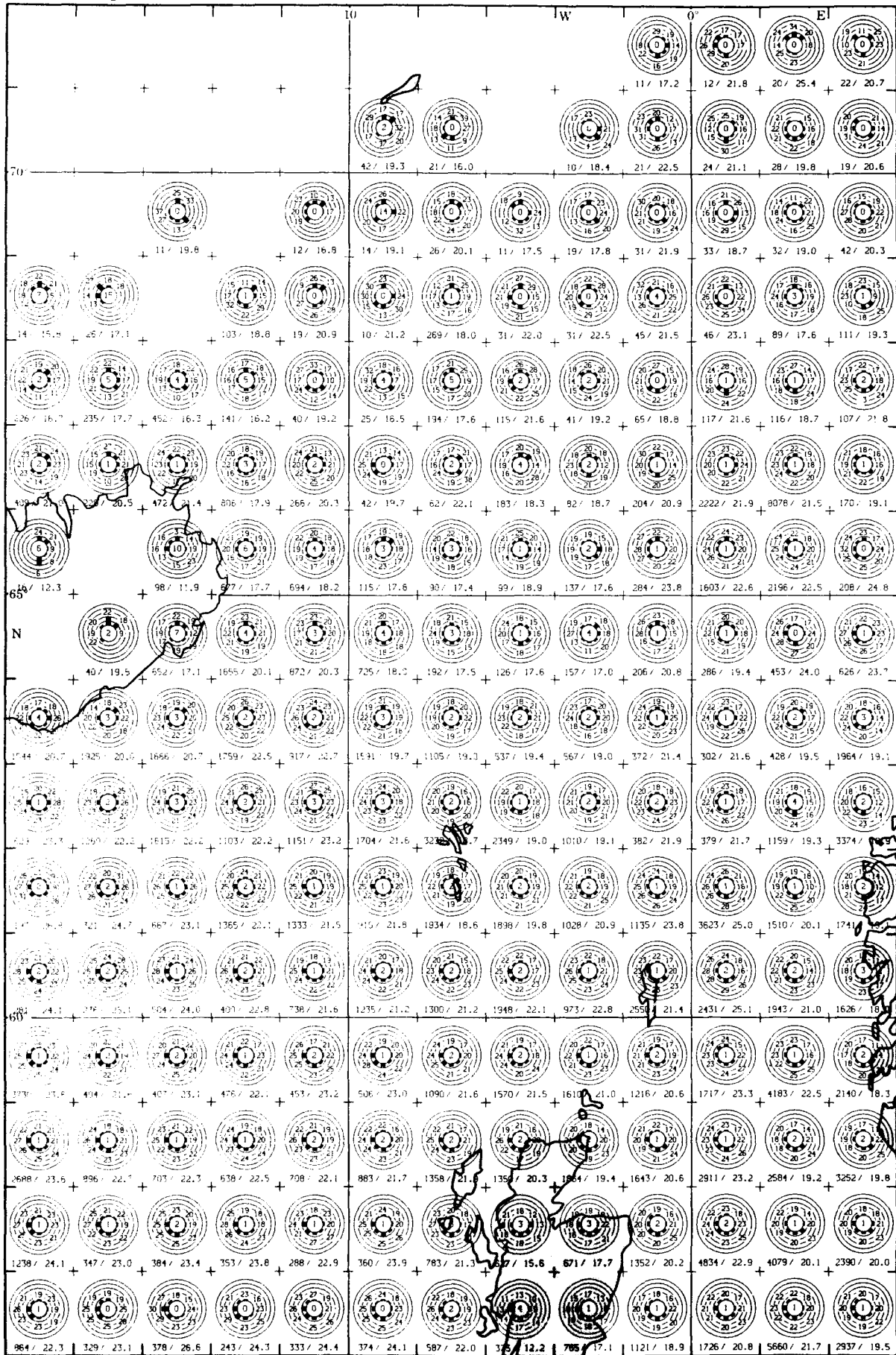
Wind Speed 11-21 and 22-33 Knots





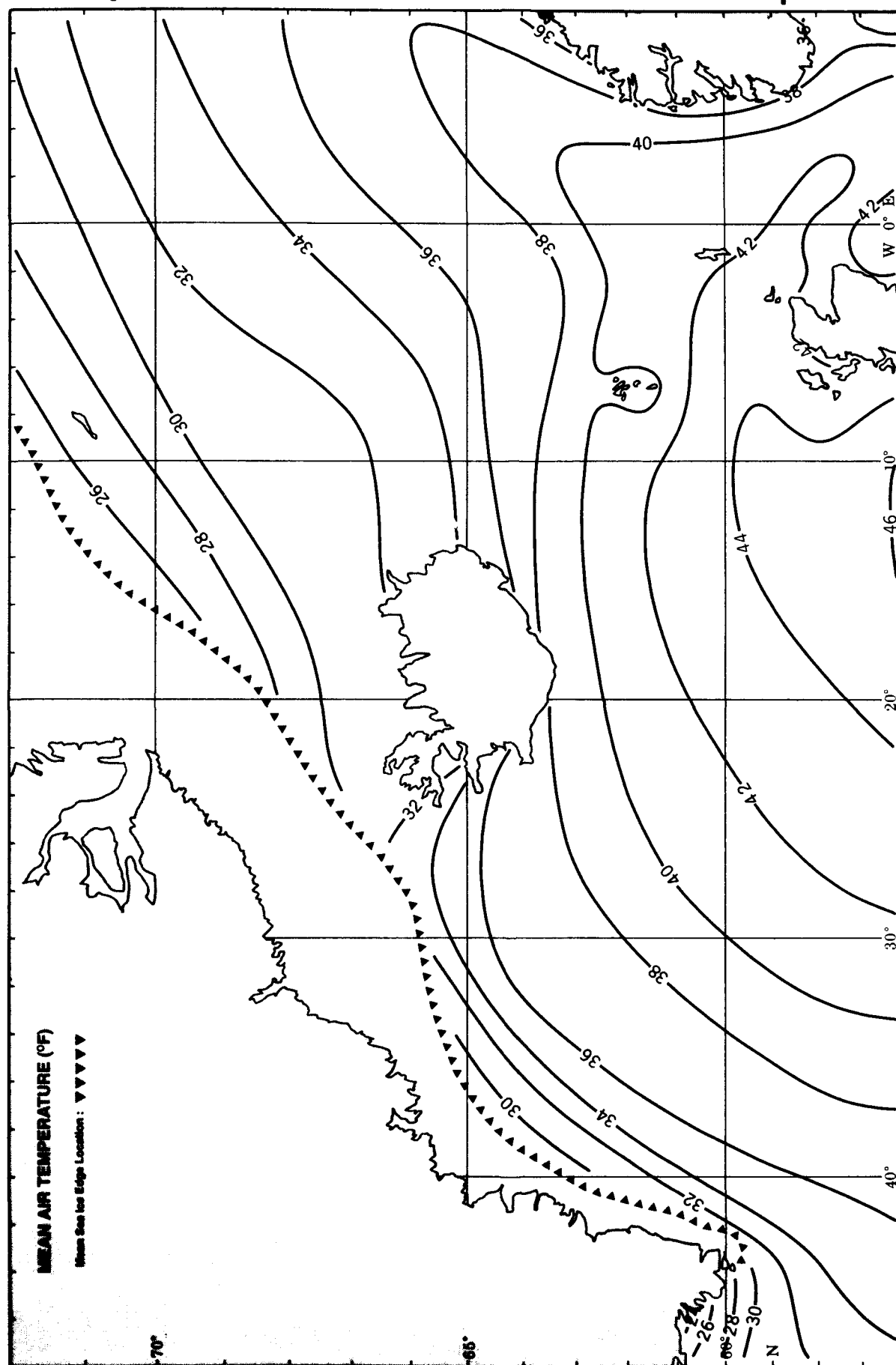
January

Surface Wind Roses



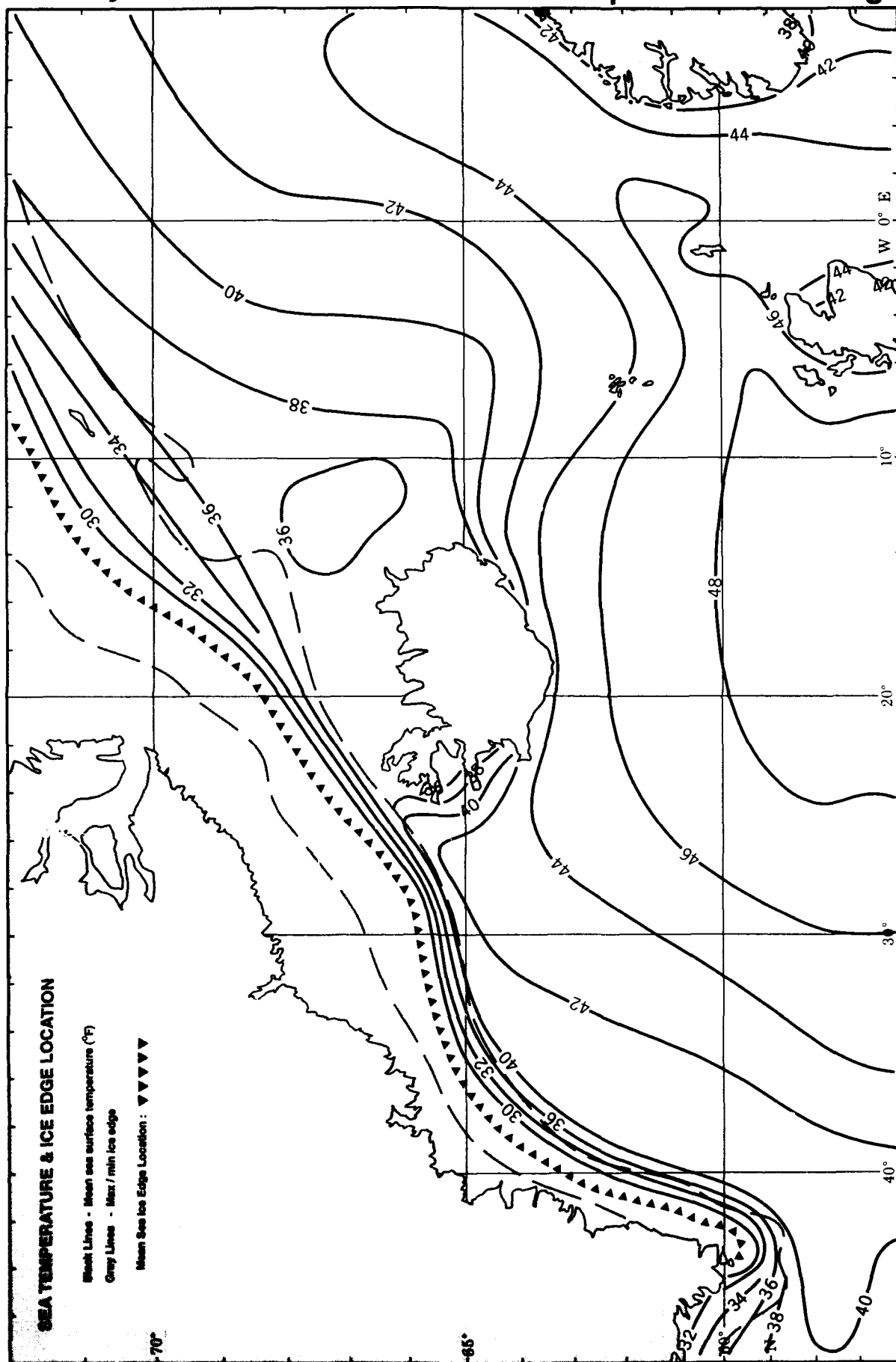
January

Mean Air Temperature



January

Mean Sea Temperature & Ice Edge



Wave Height ≥ 3 Ft. & Ice Concentration



Black Lines - Wave height ≥ 3 feet

Energy Losses - Mean Ice concentration

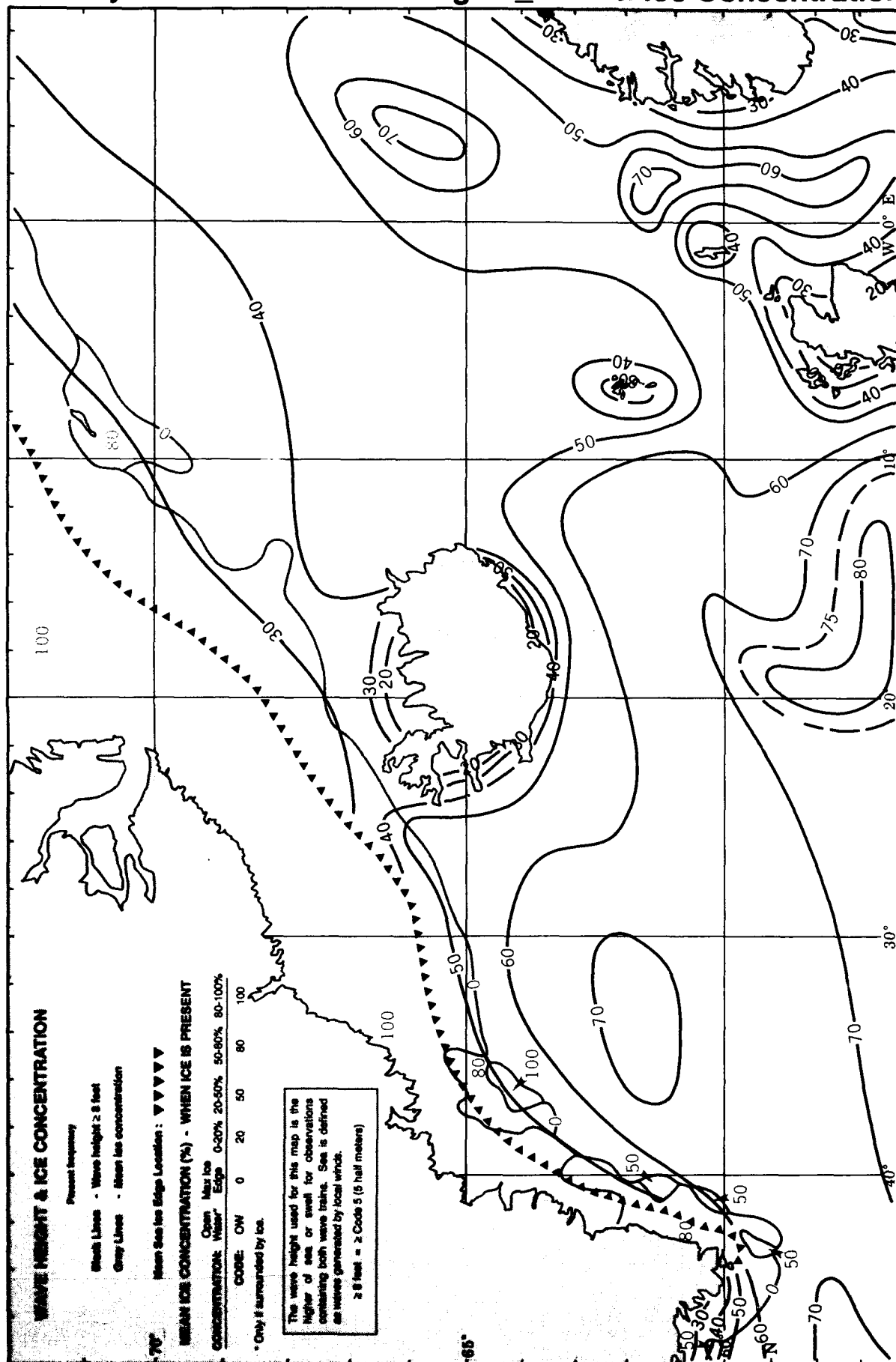
Reference: See the Editor's Introduction: ▼▼▼▼▼

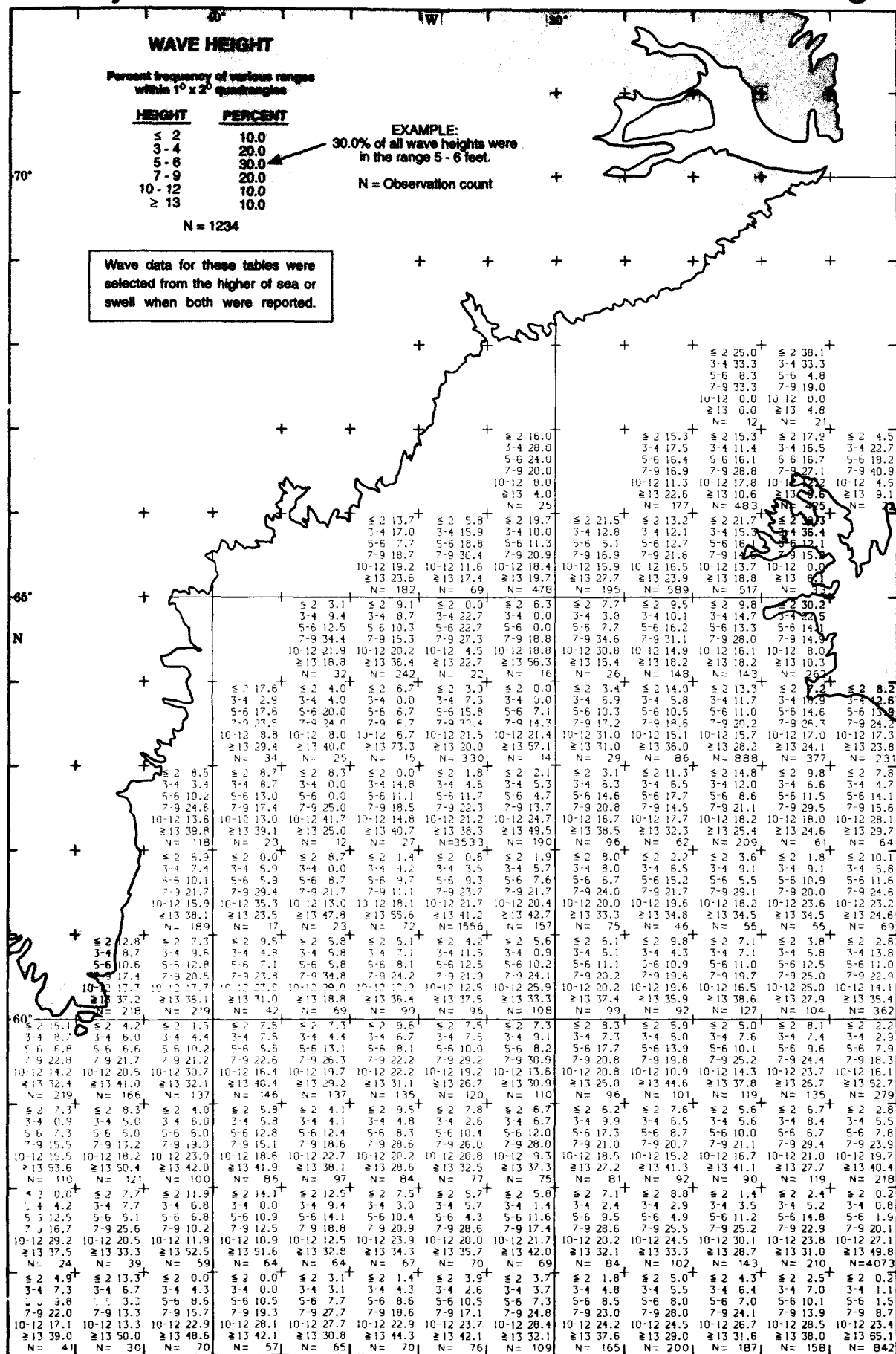
The waves height used for this map is the higher of sea or swell for observations containing both wave trains. Sea is defined as waves generated by local winds.

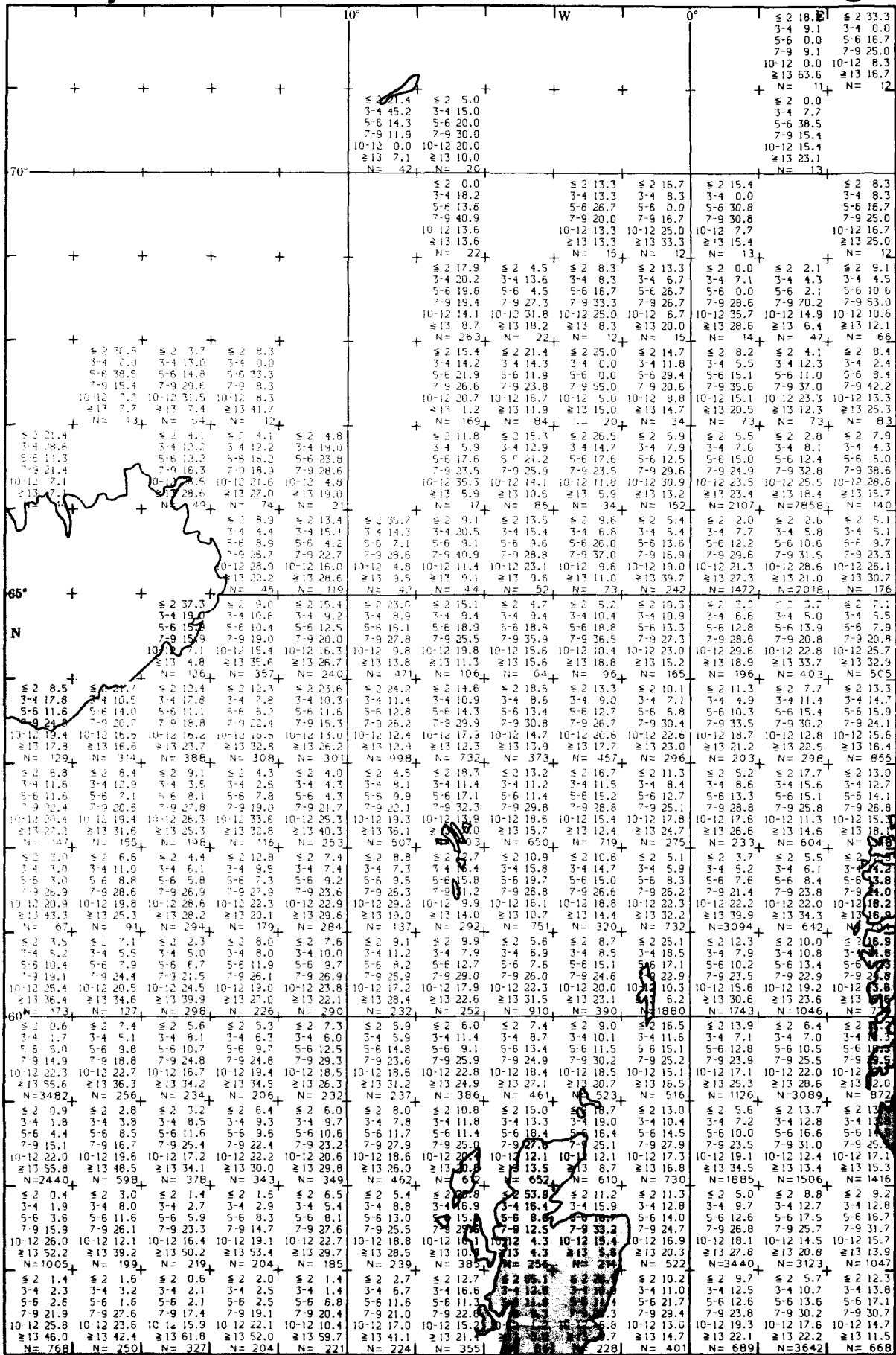
≥ 3 feet = 2 Code 2 (2 half meters)

January

Wave Height ≥ 8 Ft. & Ice Concentration



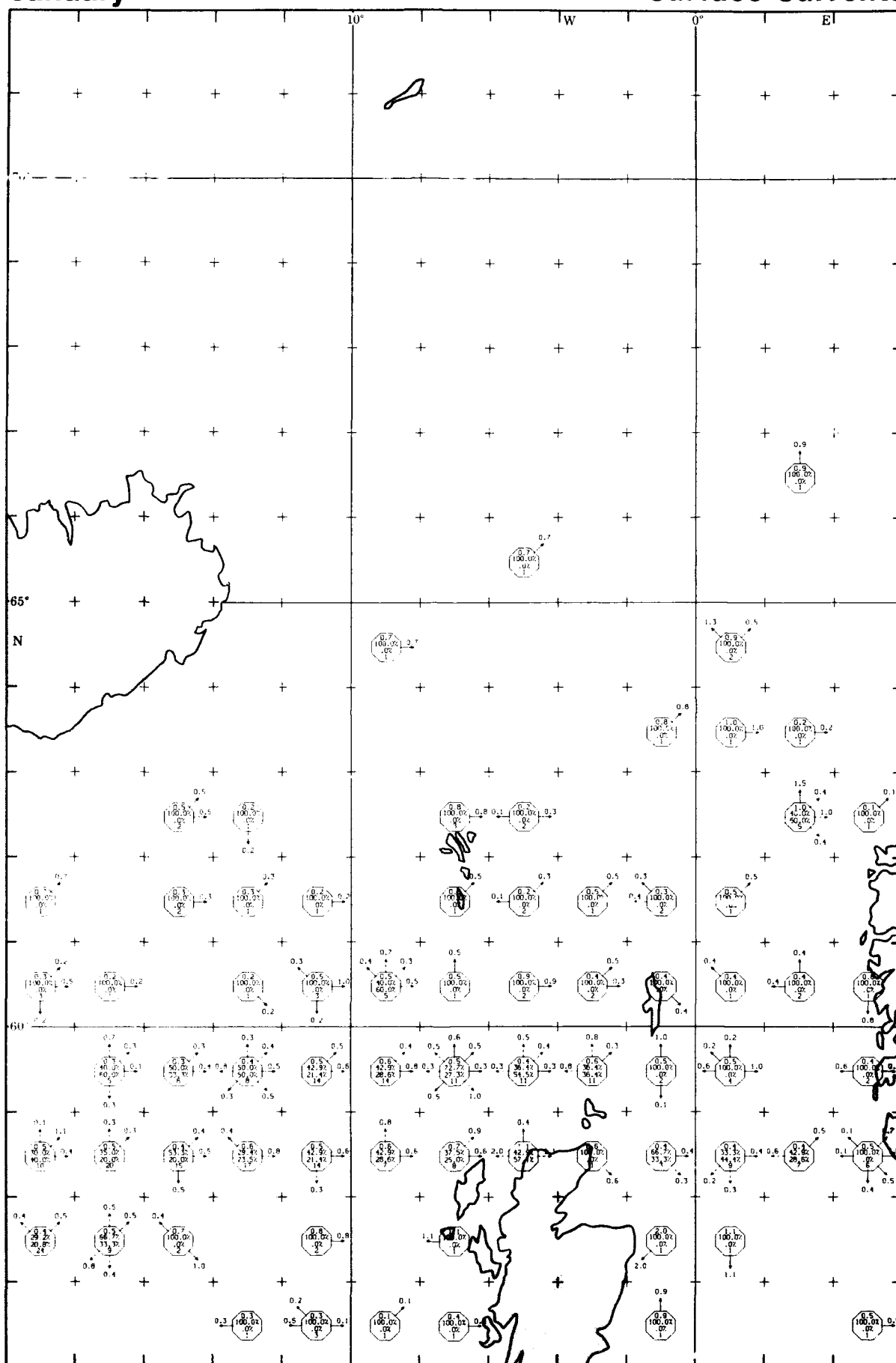






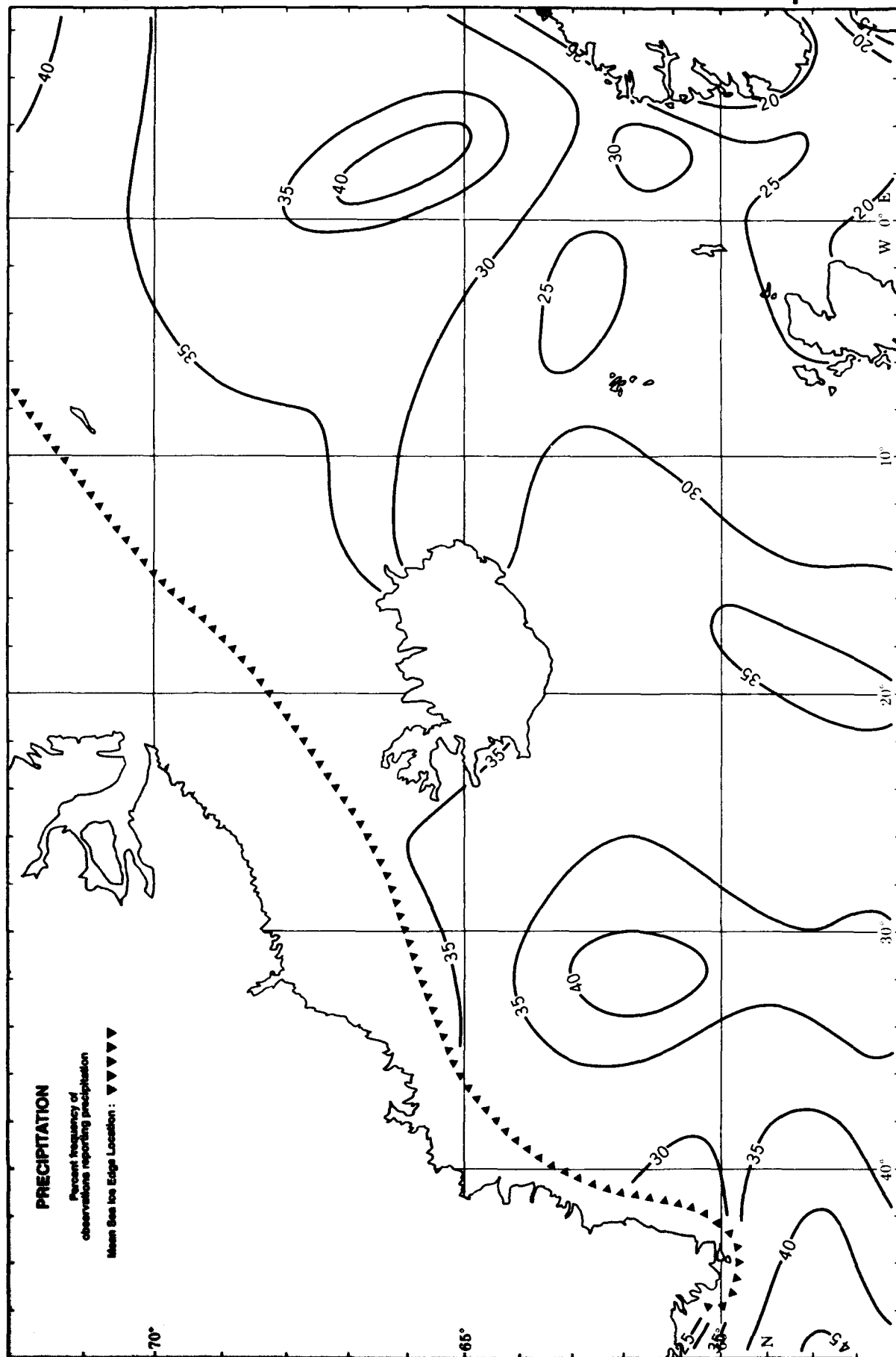
January

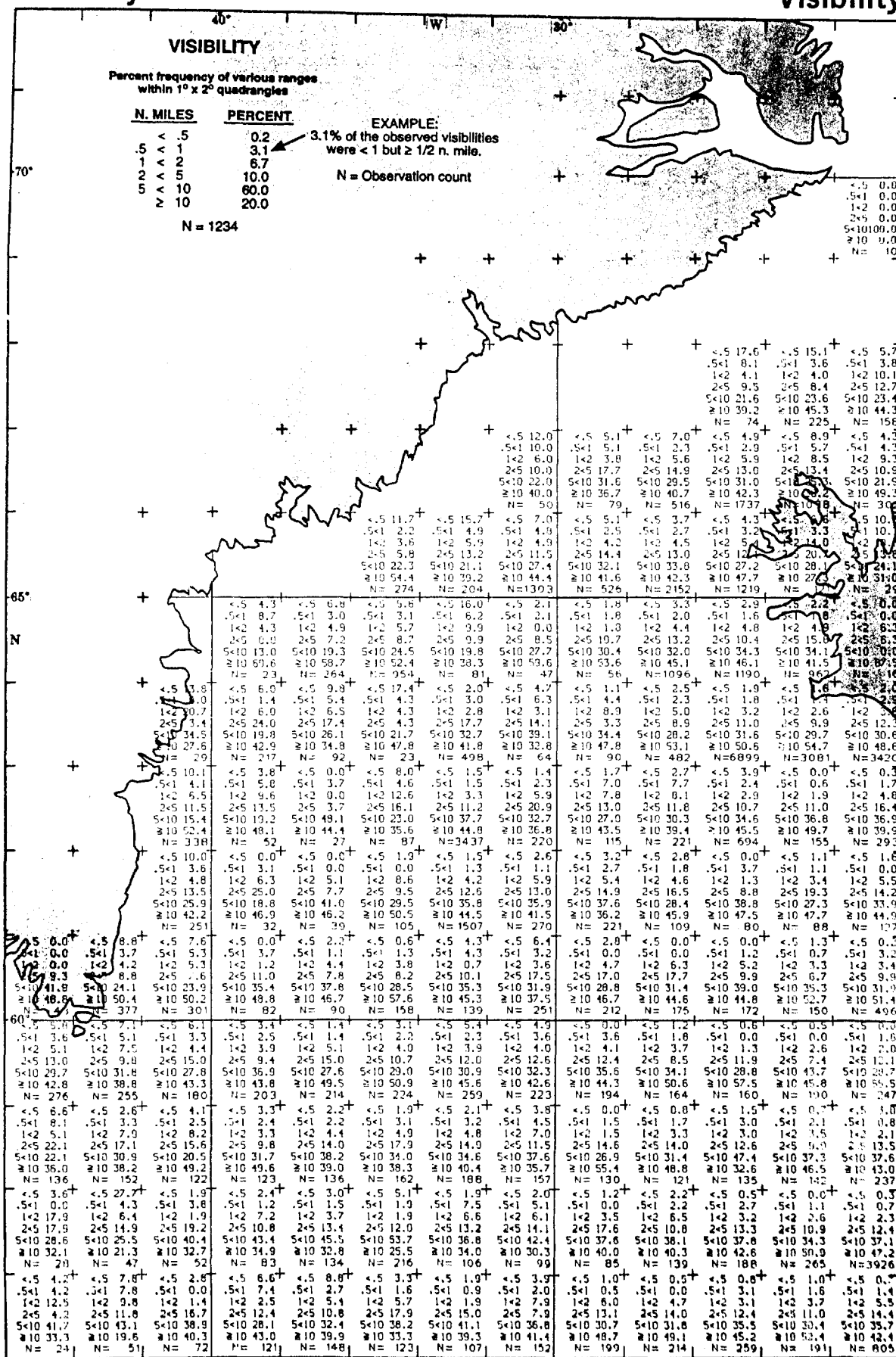
Surface Currents



February

Precipitation





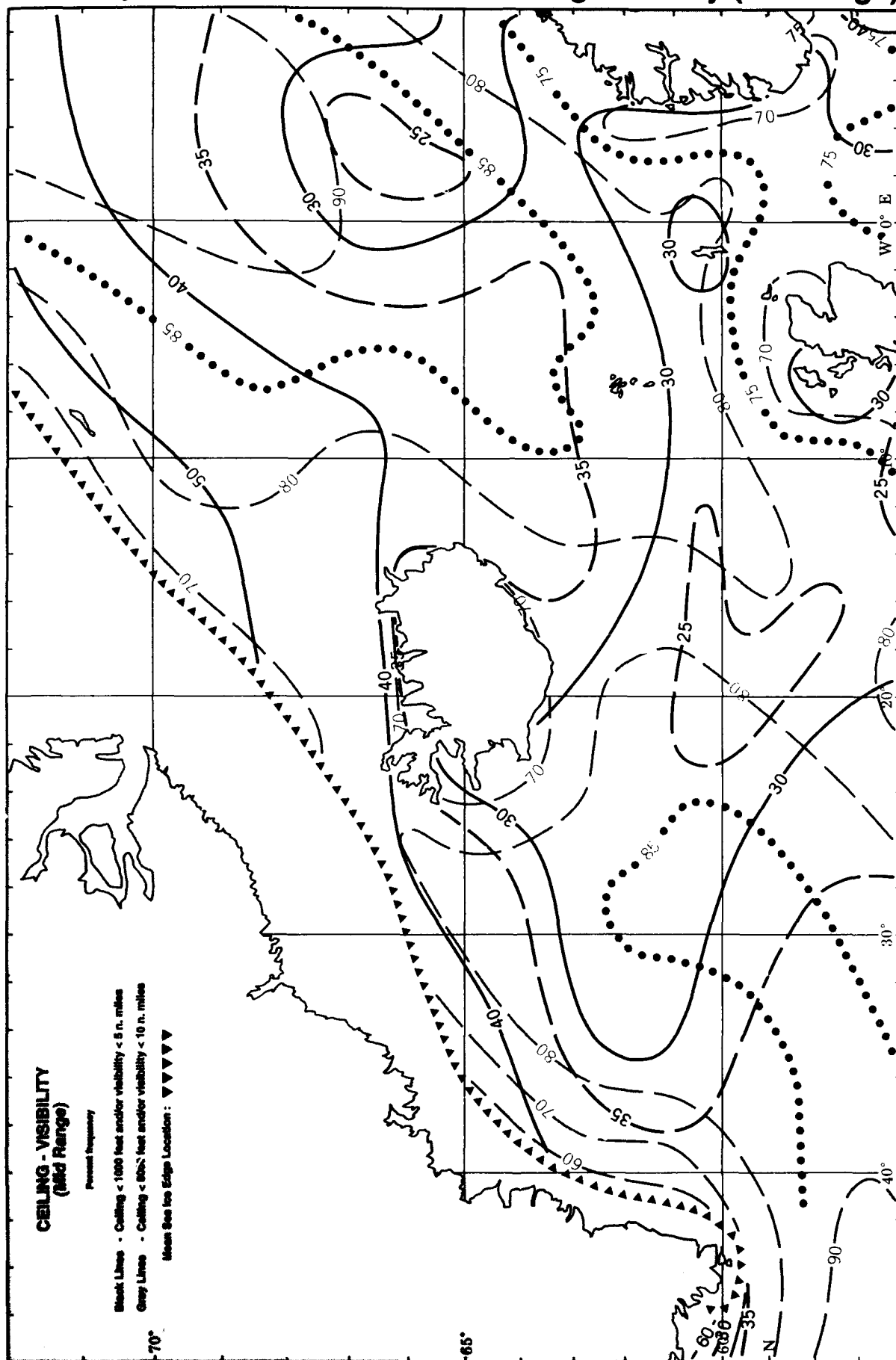
February

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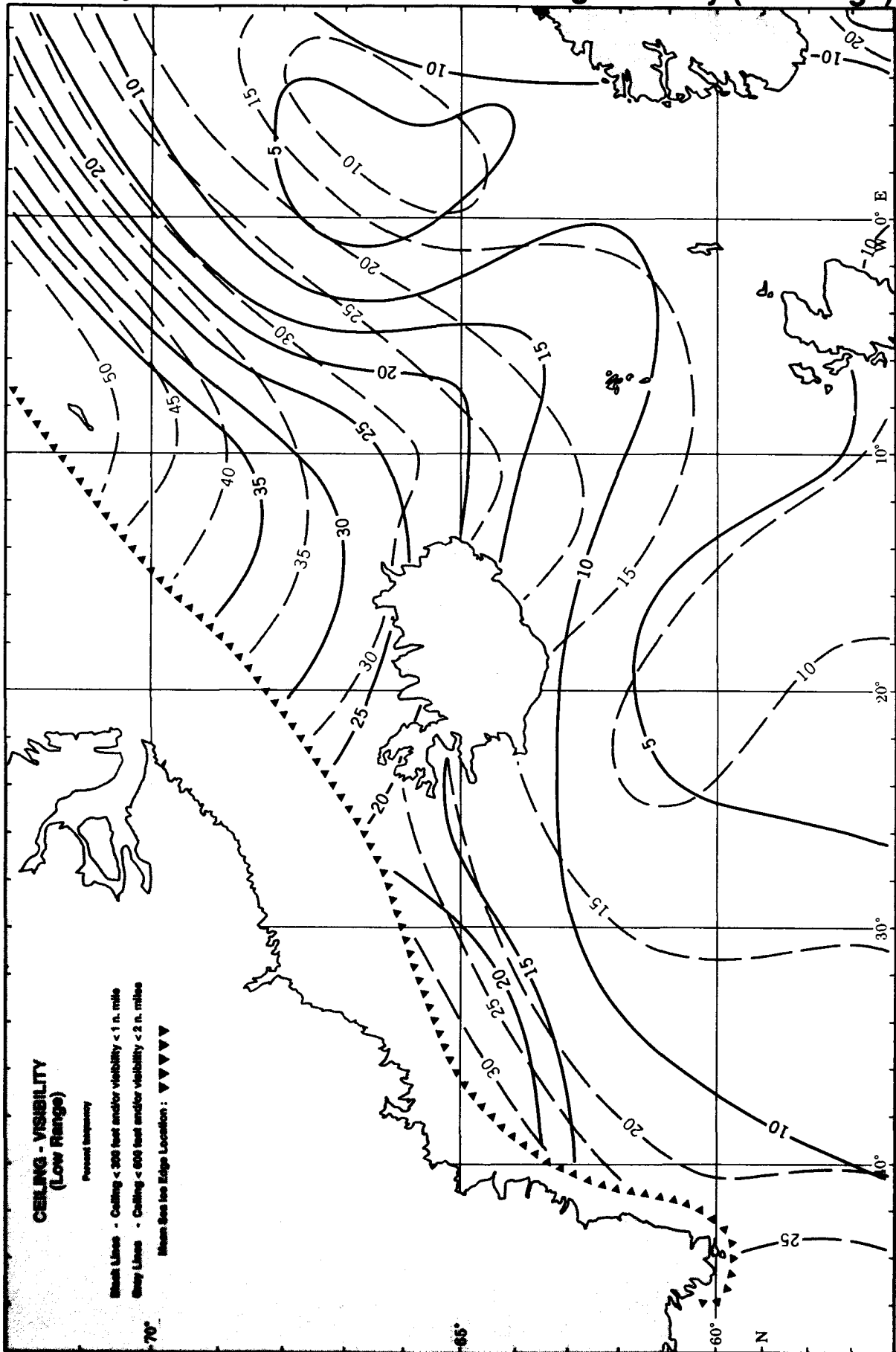
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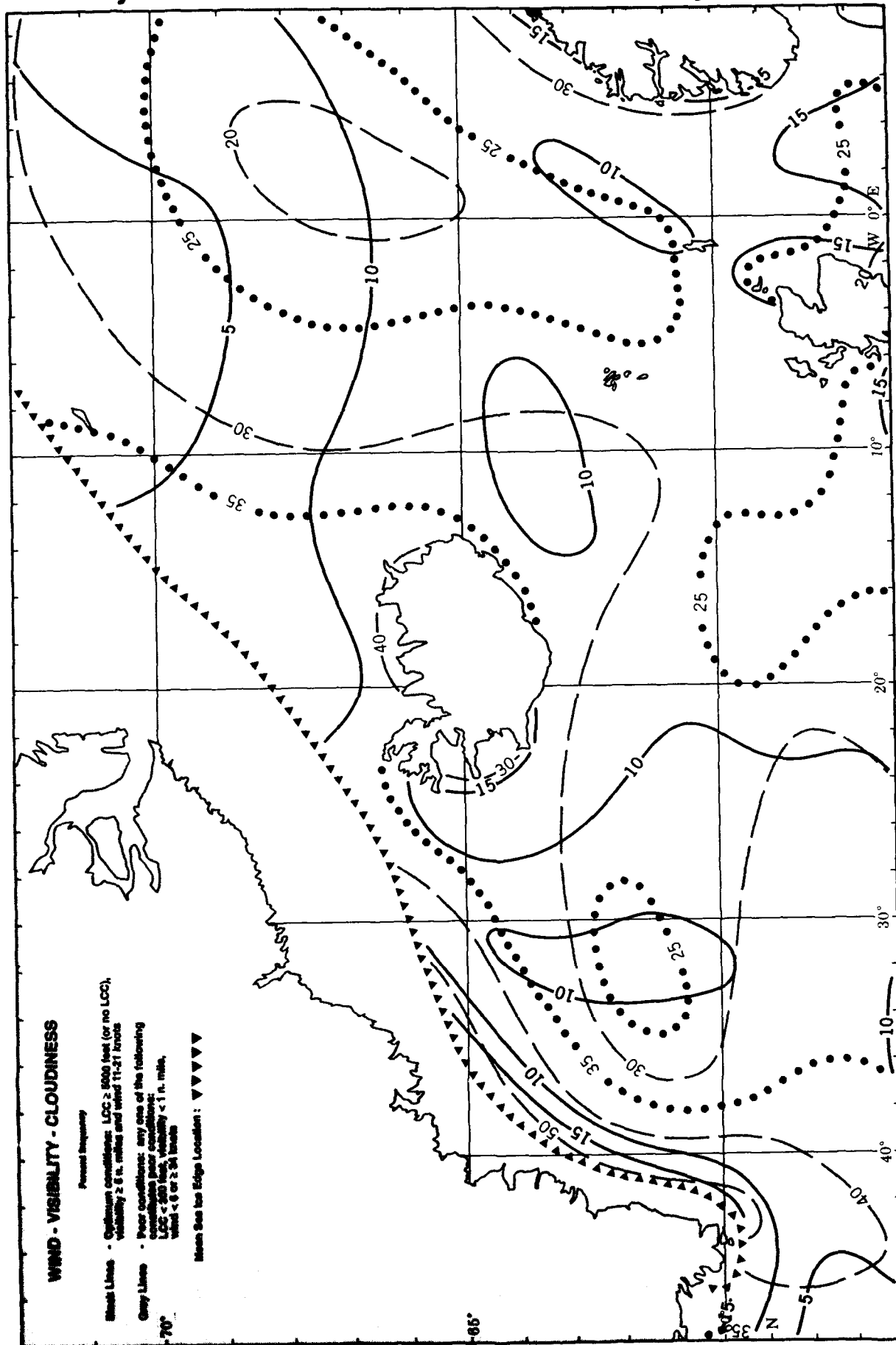
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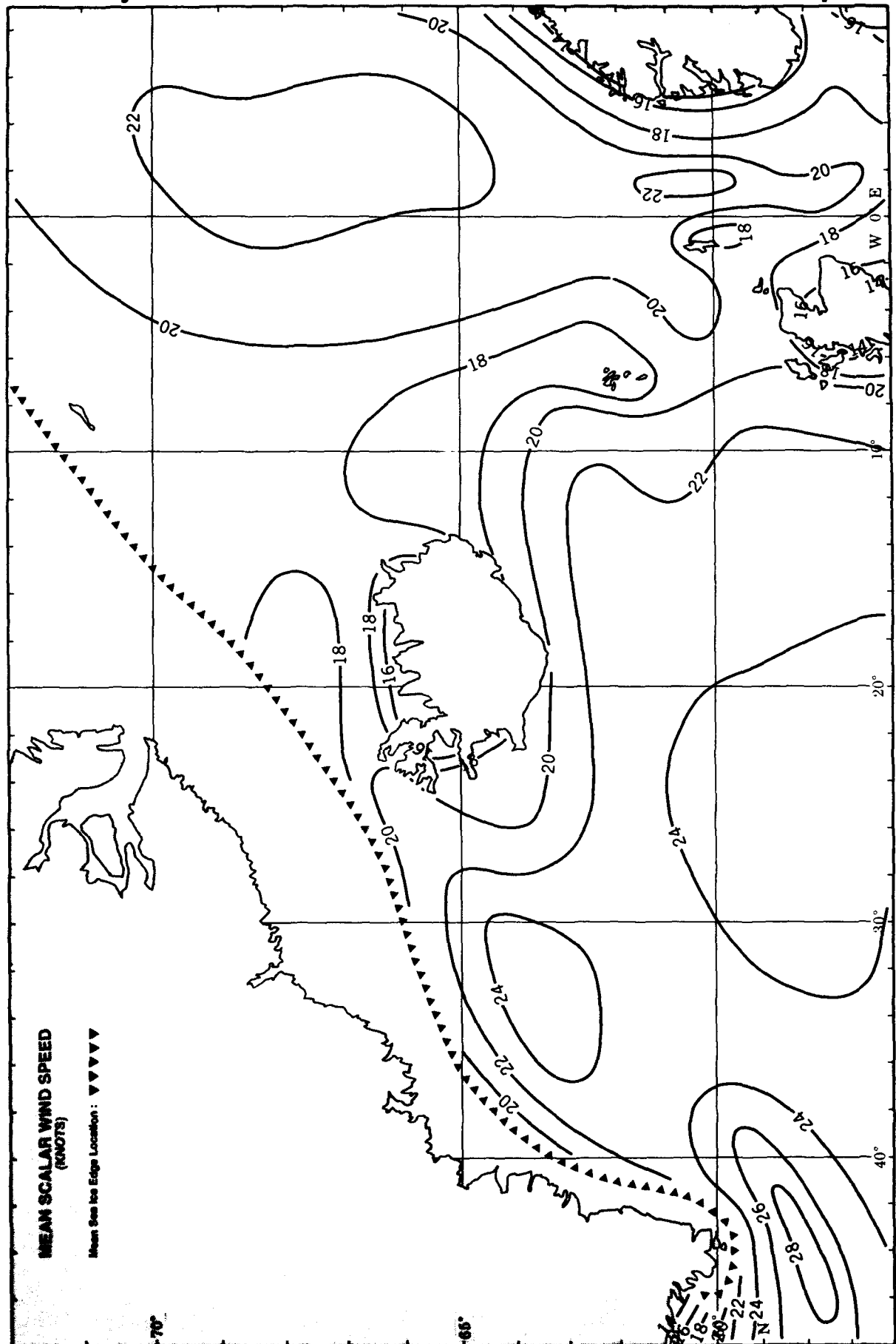
February

Wind-Visibility-Cloudiness



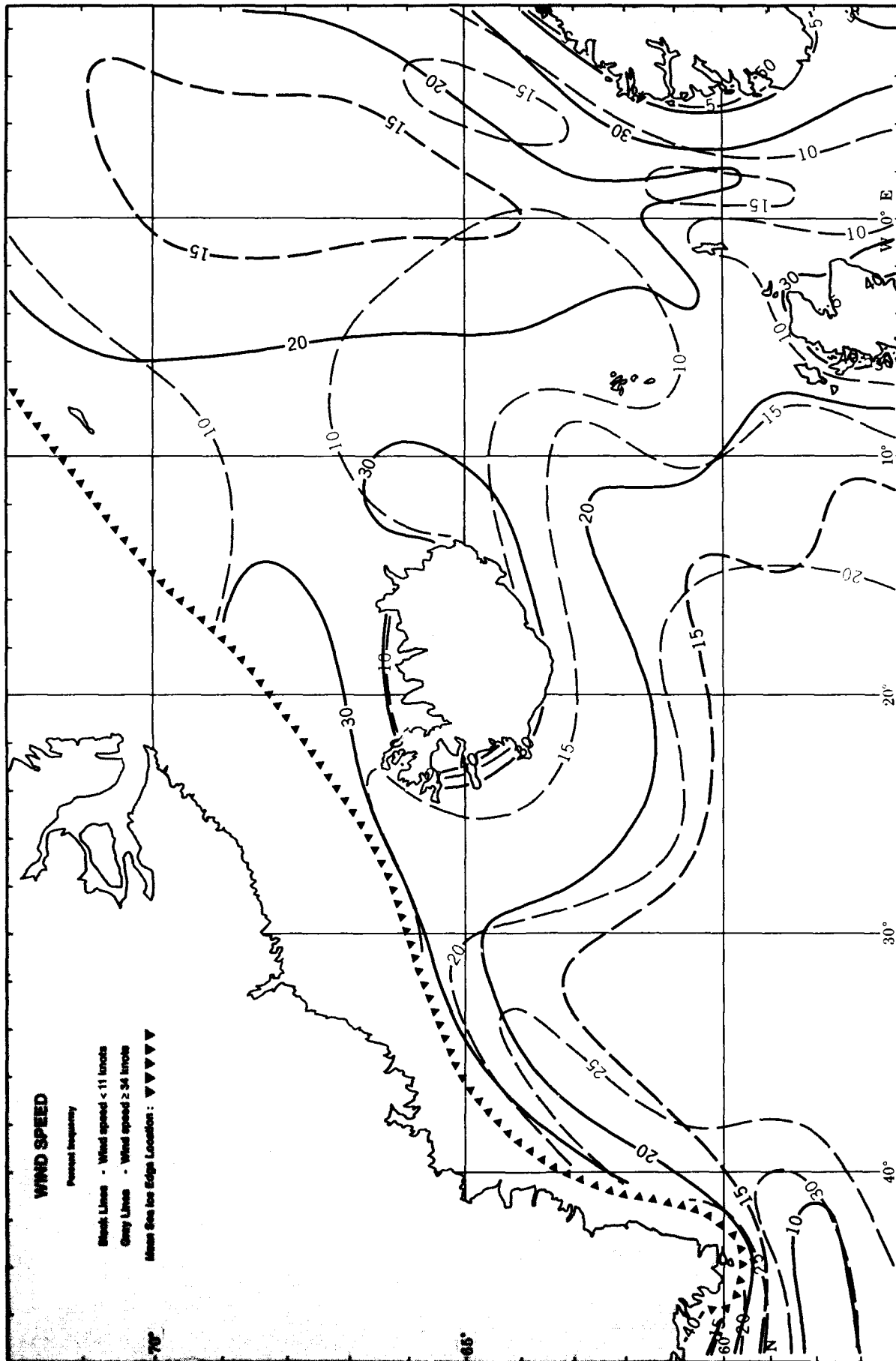
February

Mean Scalar Wind Speed



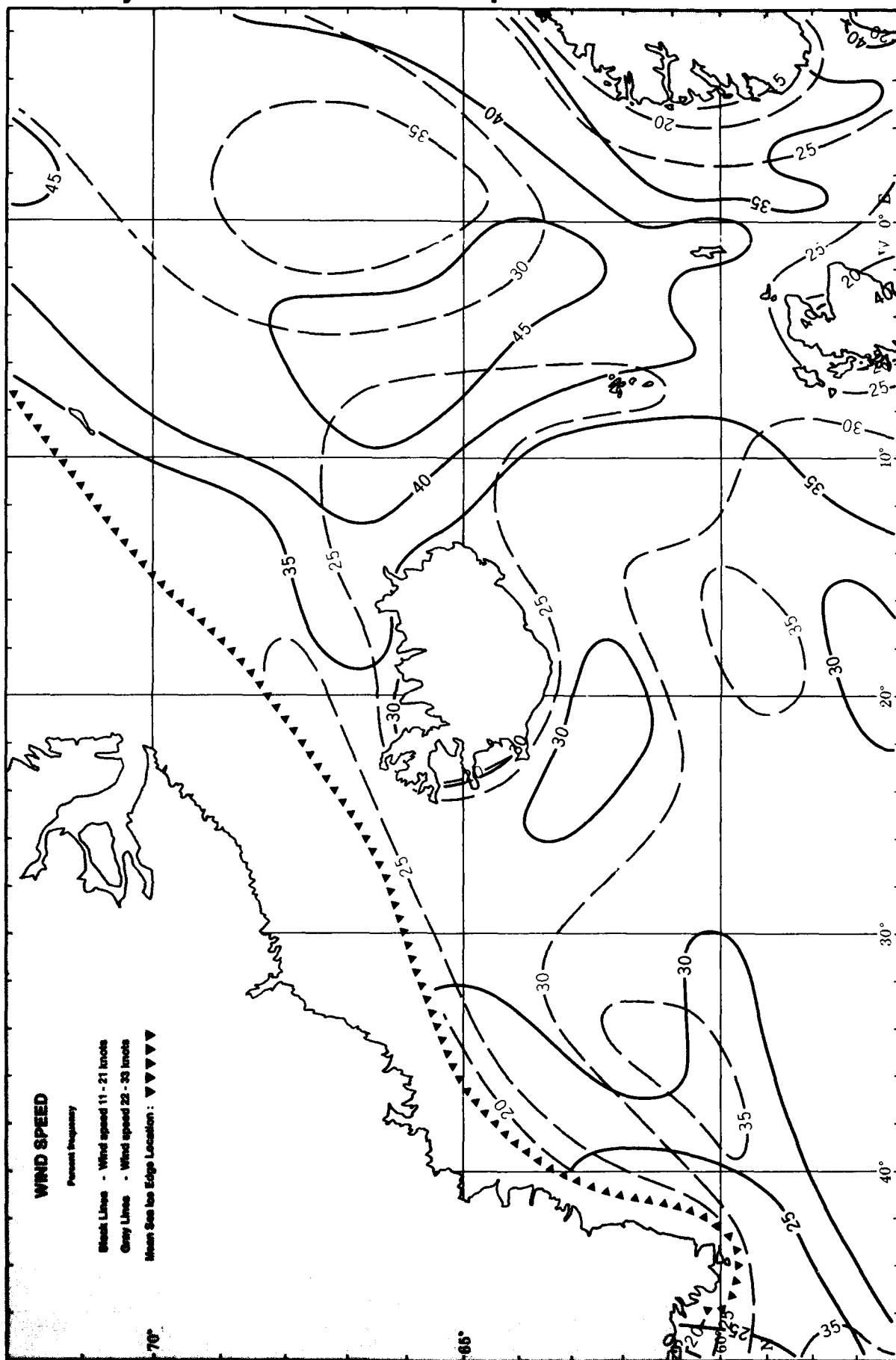
February

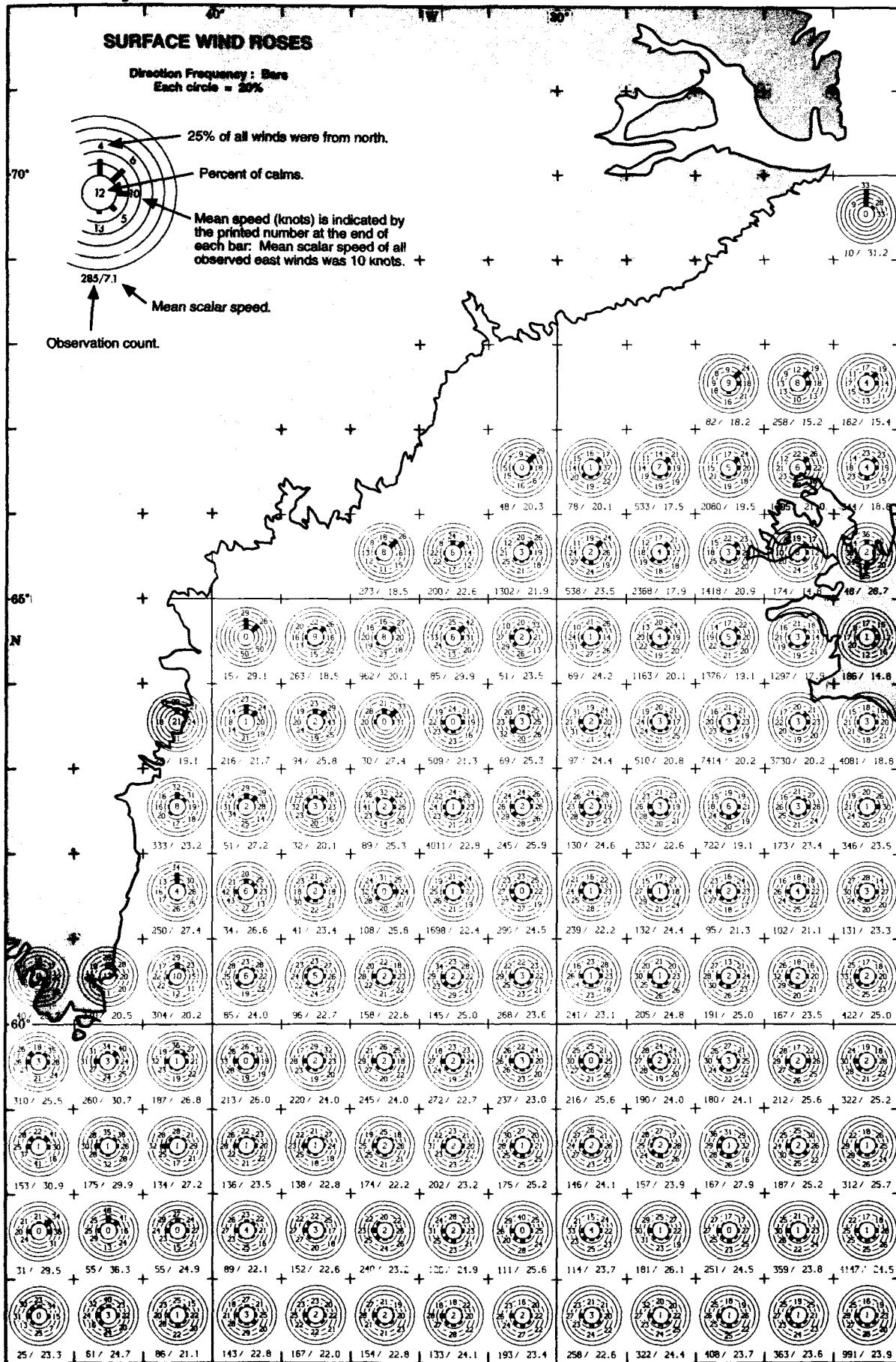
Wind Speed < 11 and ≥ 34 Knots



February

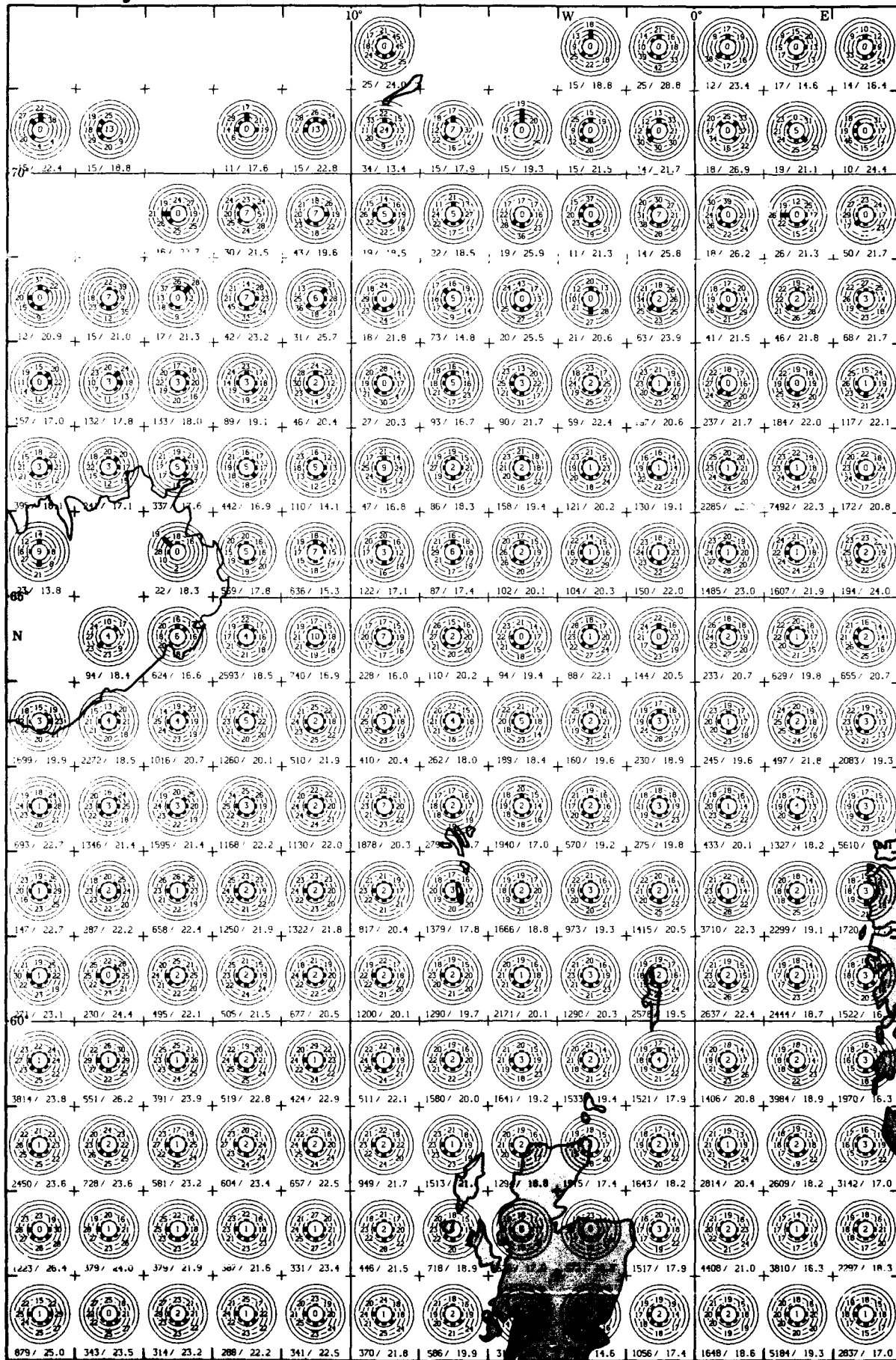
Wind Speed 11-21 and 22-33 Knots





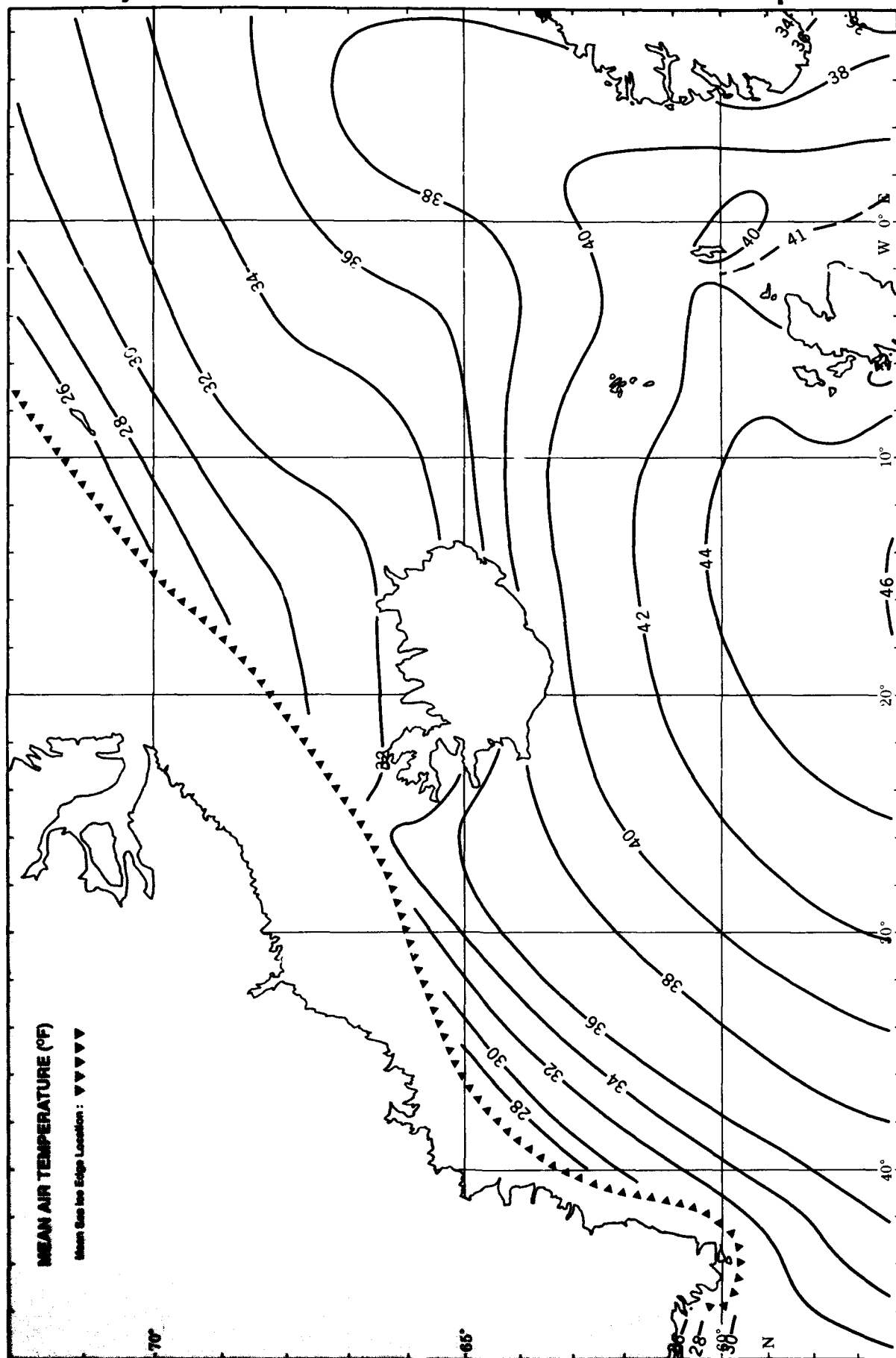
February

Surface Wind Roses



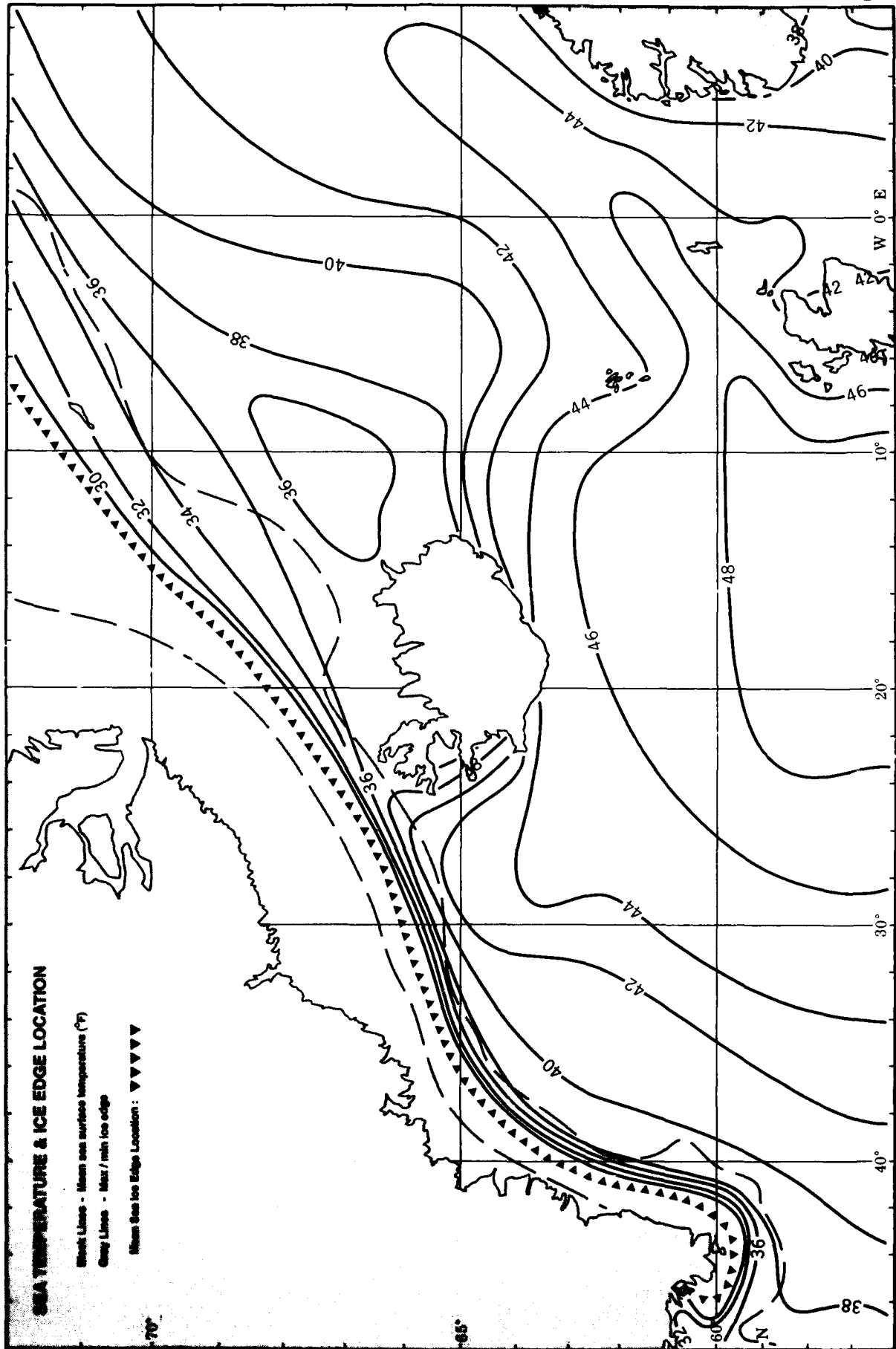
February

Mean Air Temperature



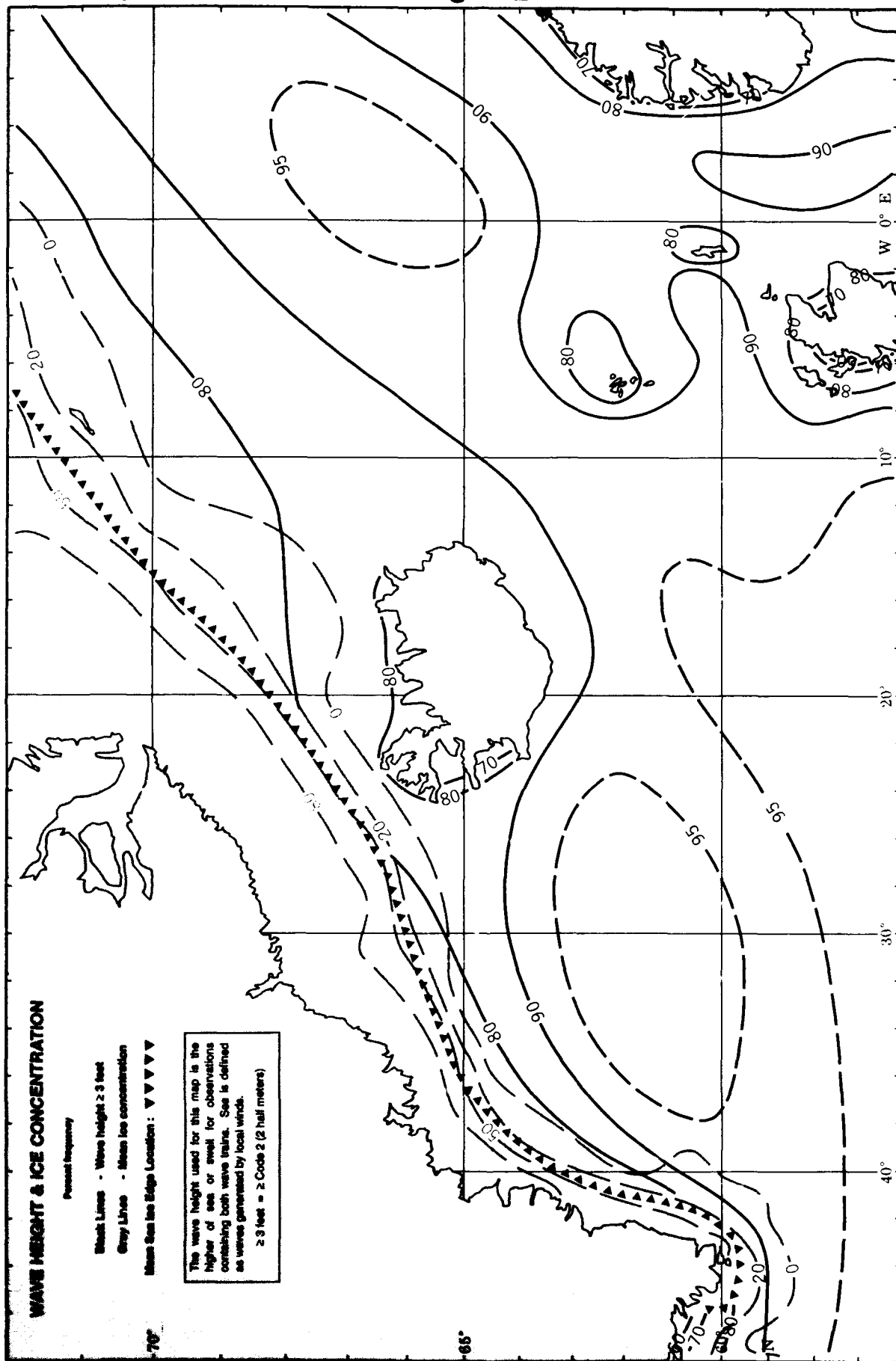
February

Mean Sea Temperature & Ice Edge



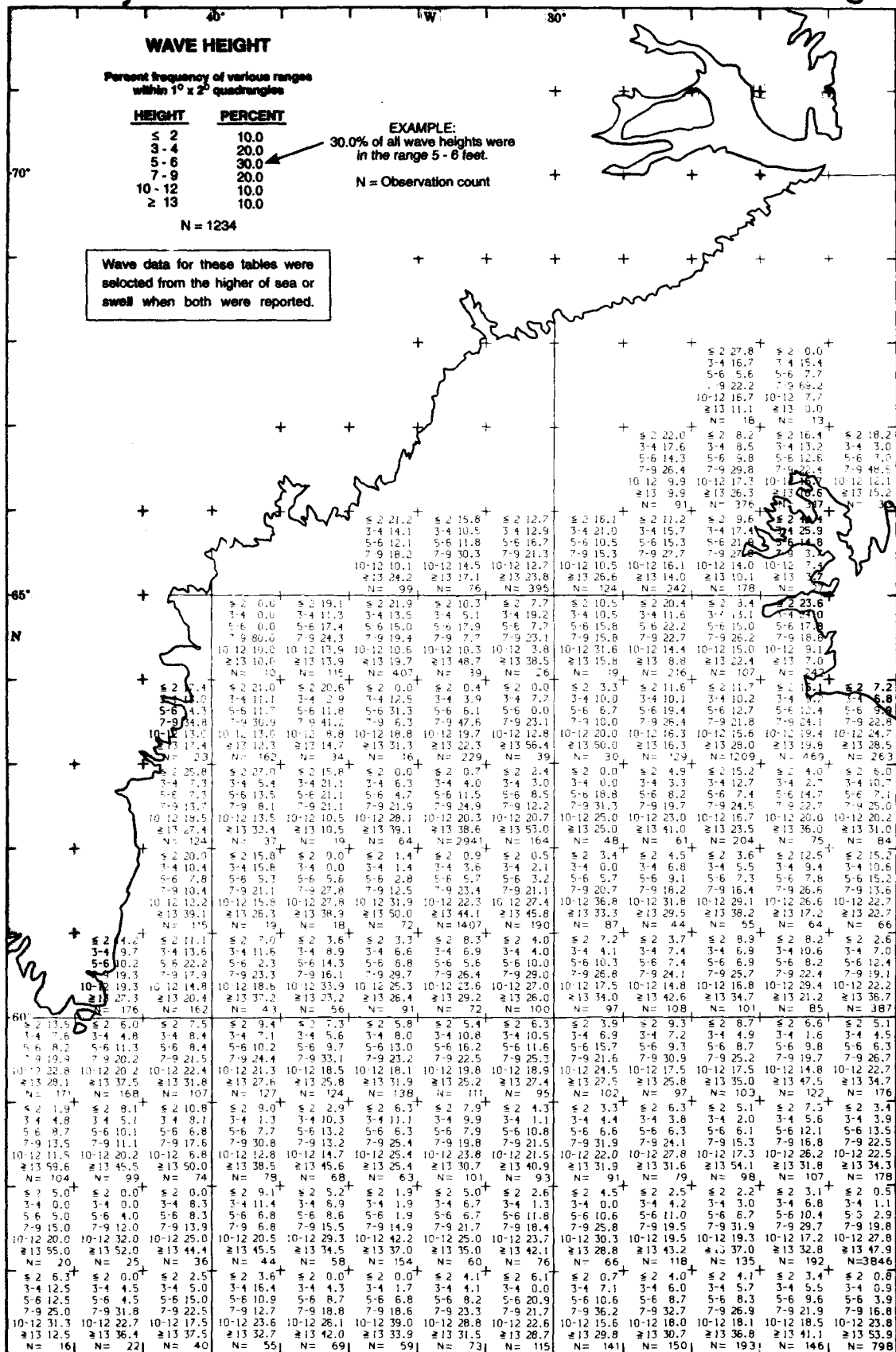
February

Wave Height ≥ 3 Ft. & Ice Concentration



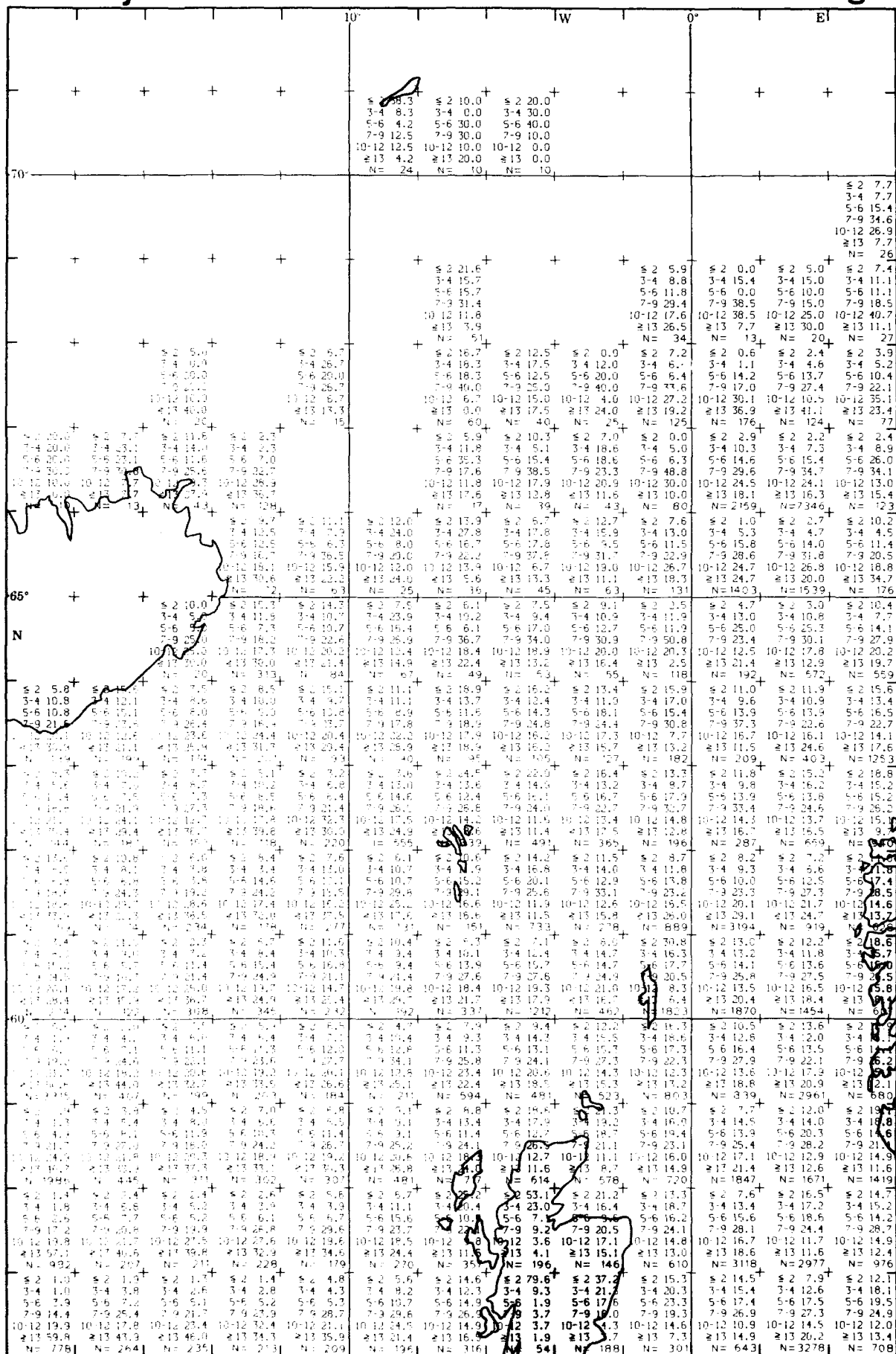
February

Wave Height



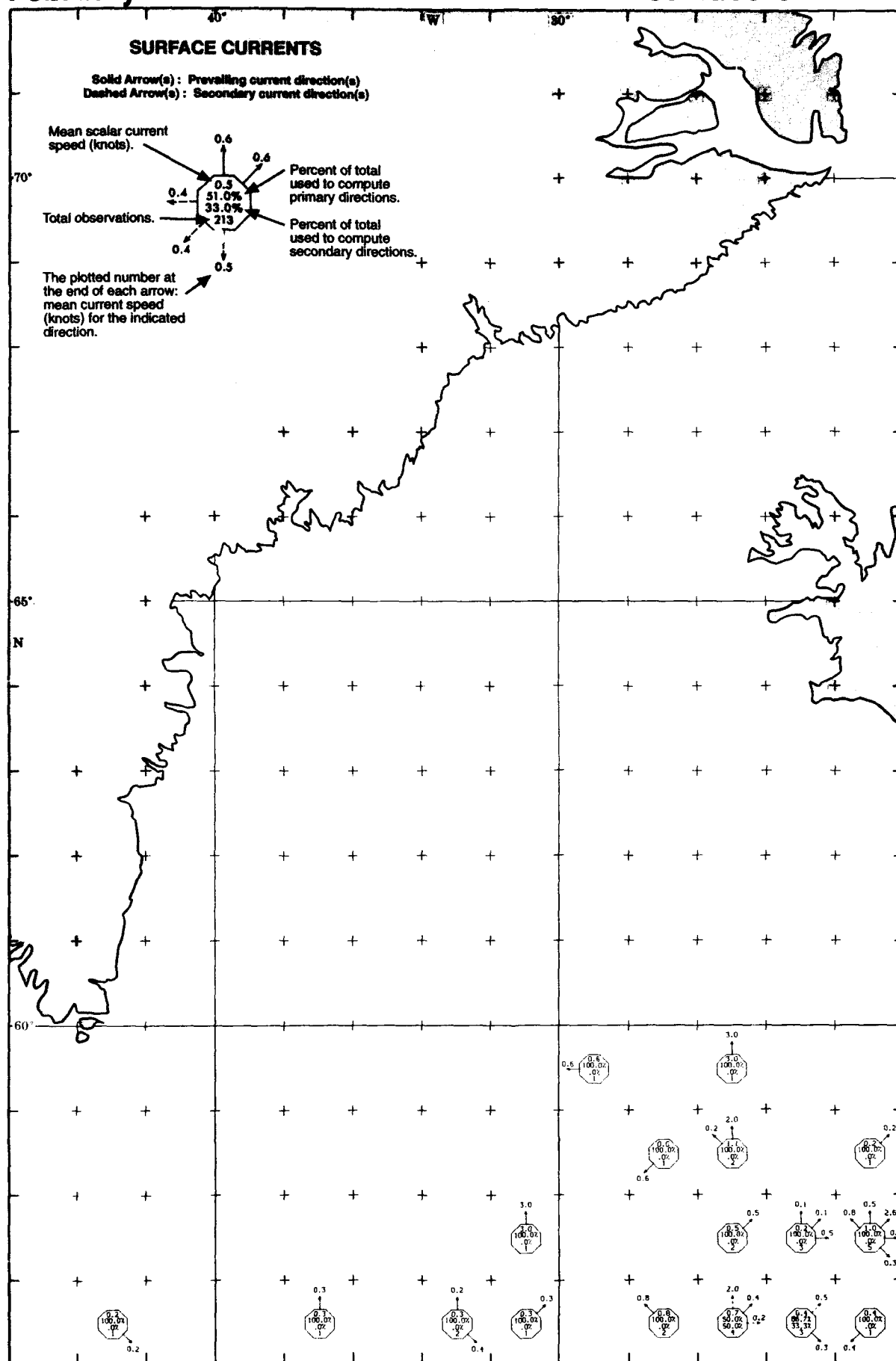
February

Wave Height



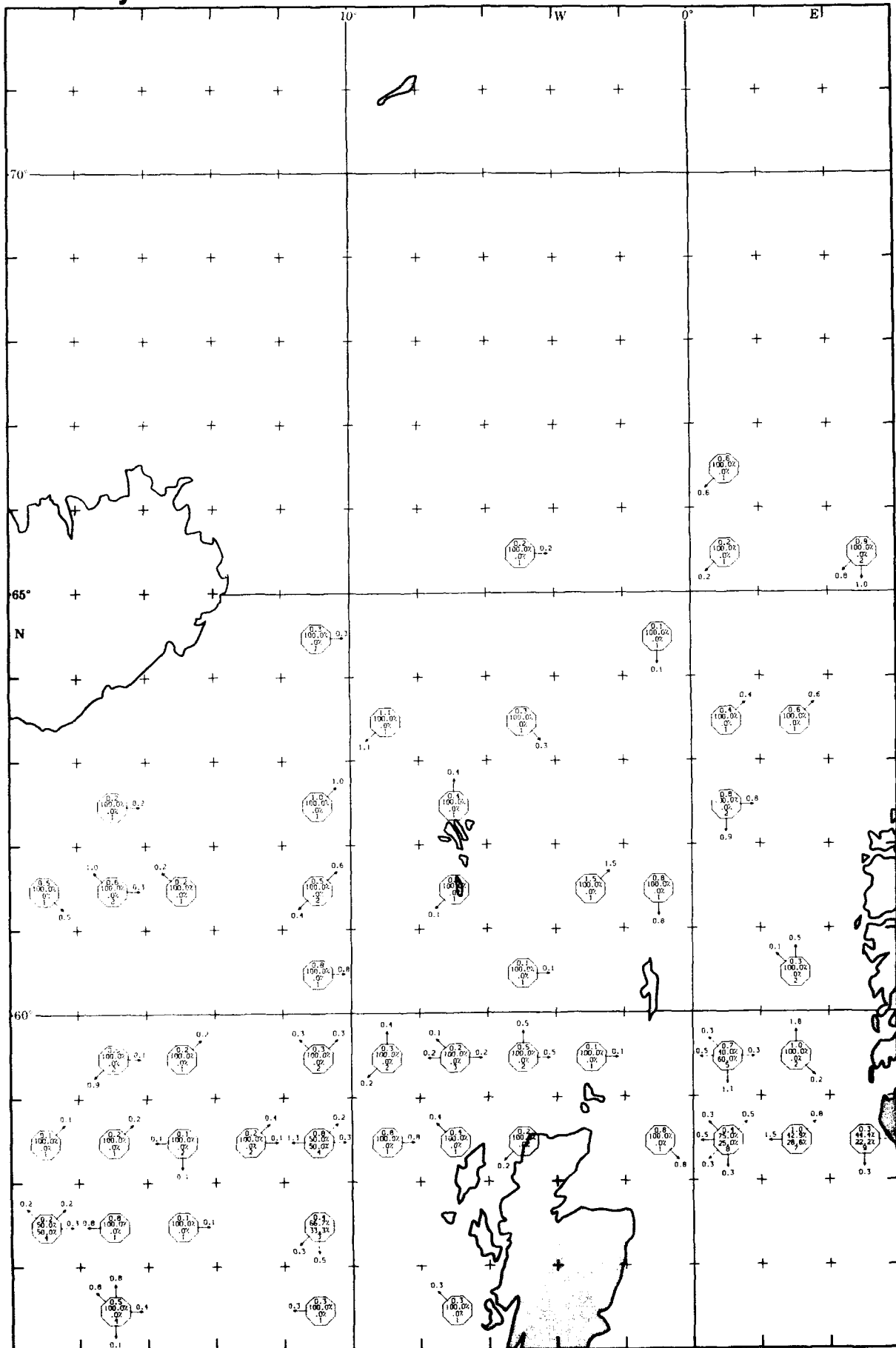
February

Surface Currents



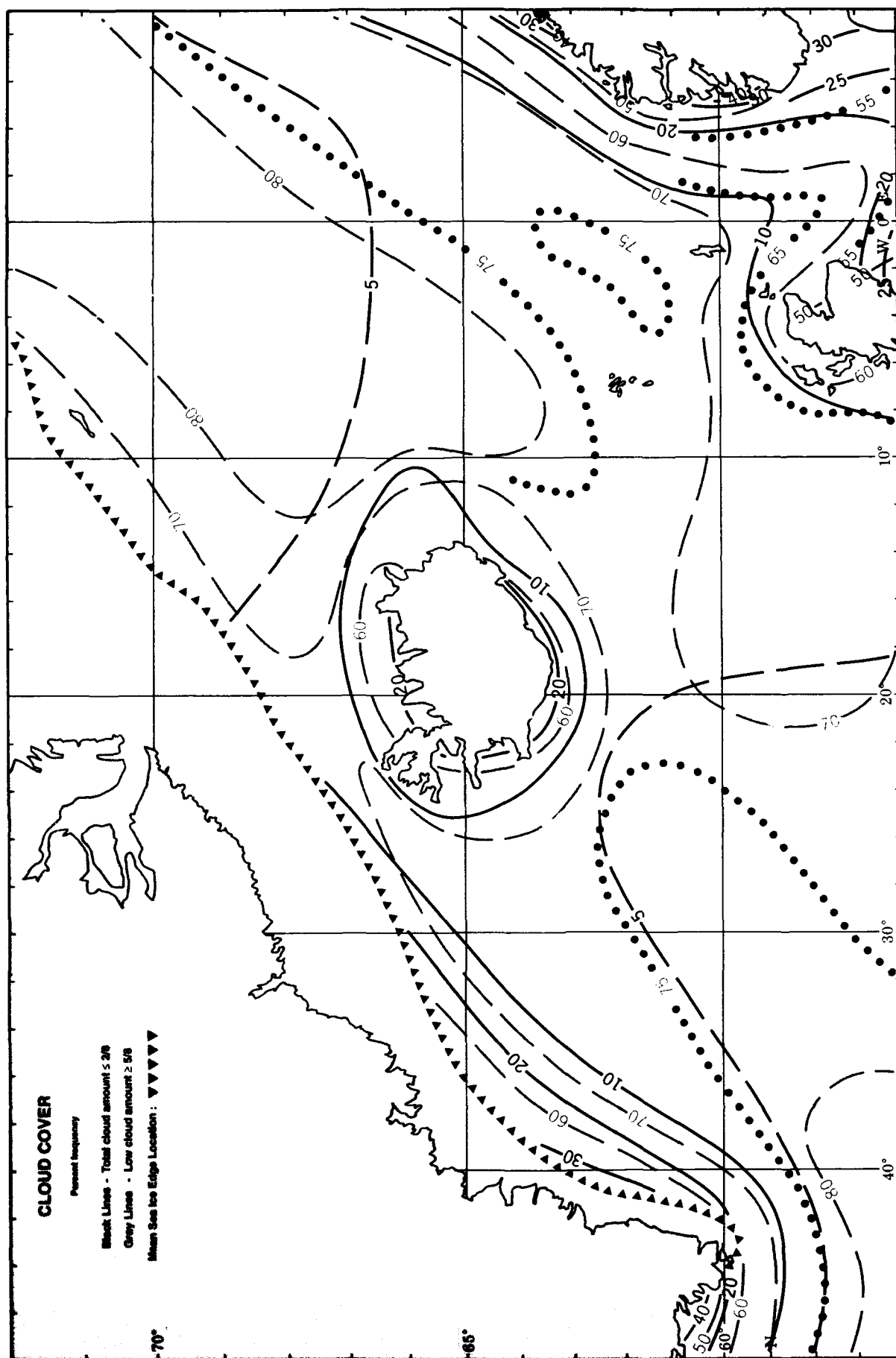
February

Surface Currents



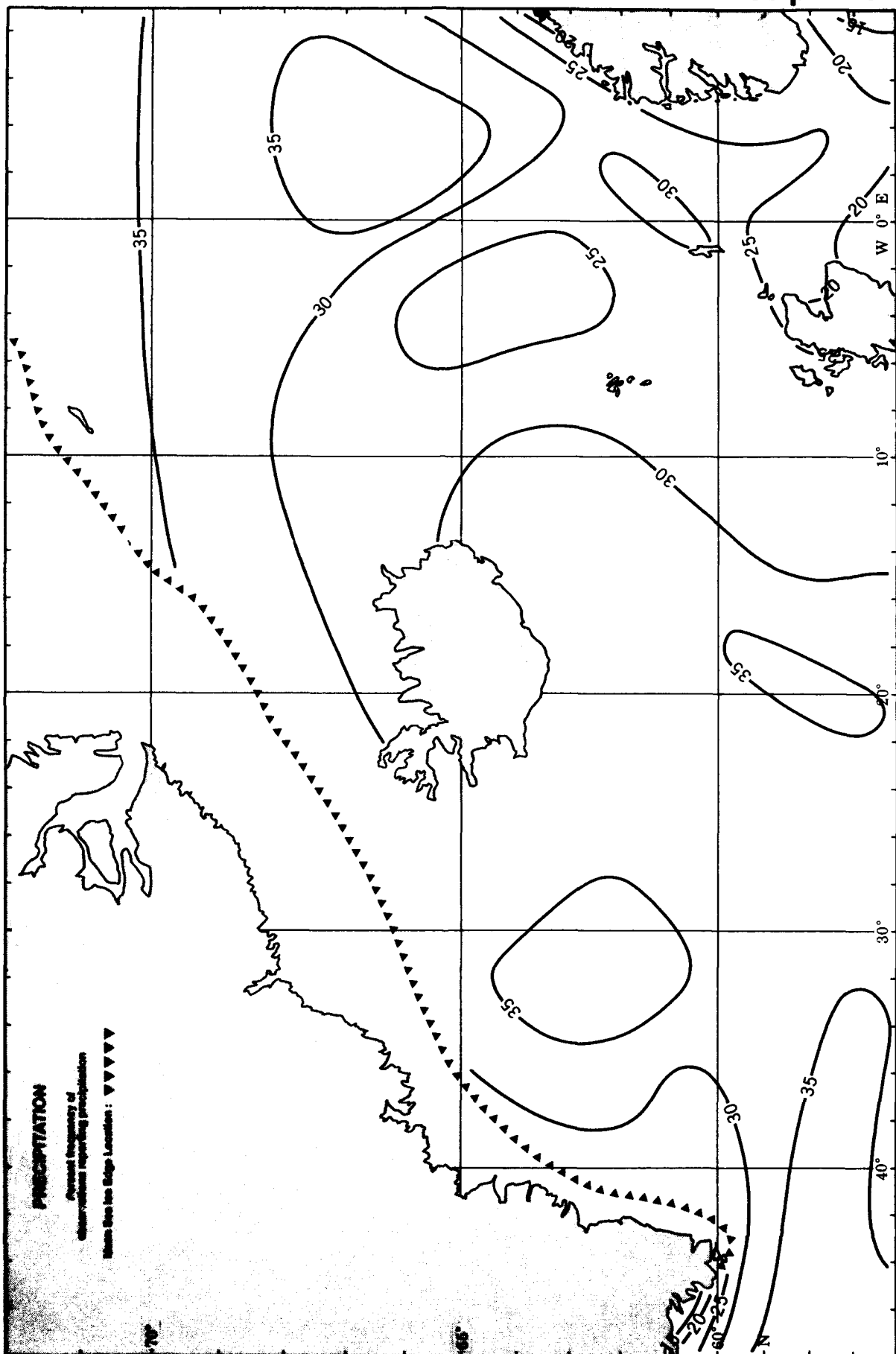
March

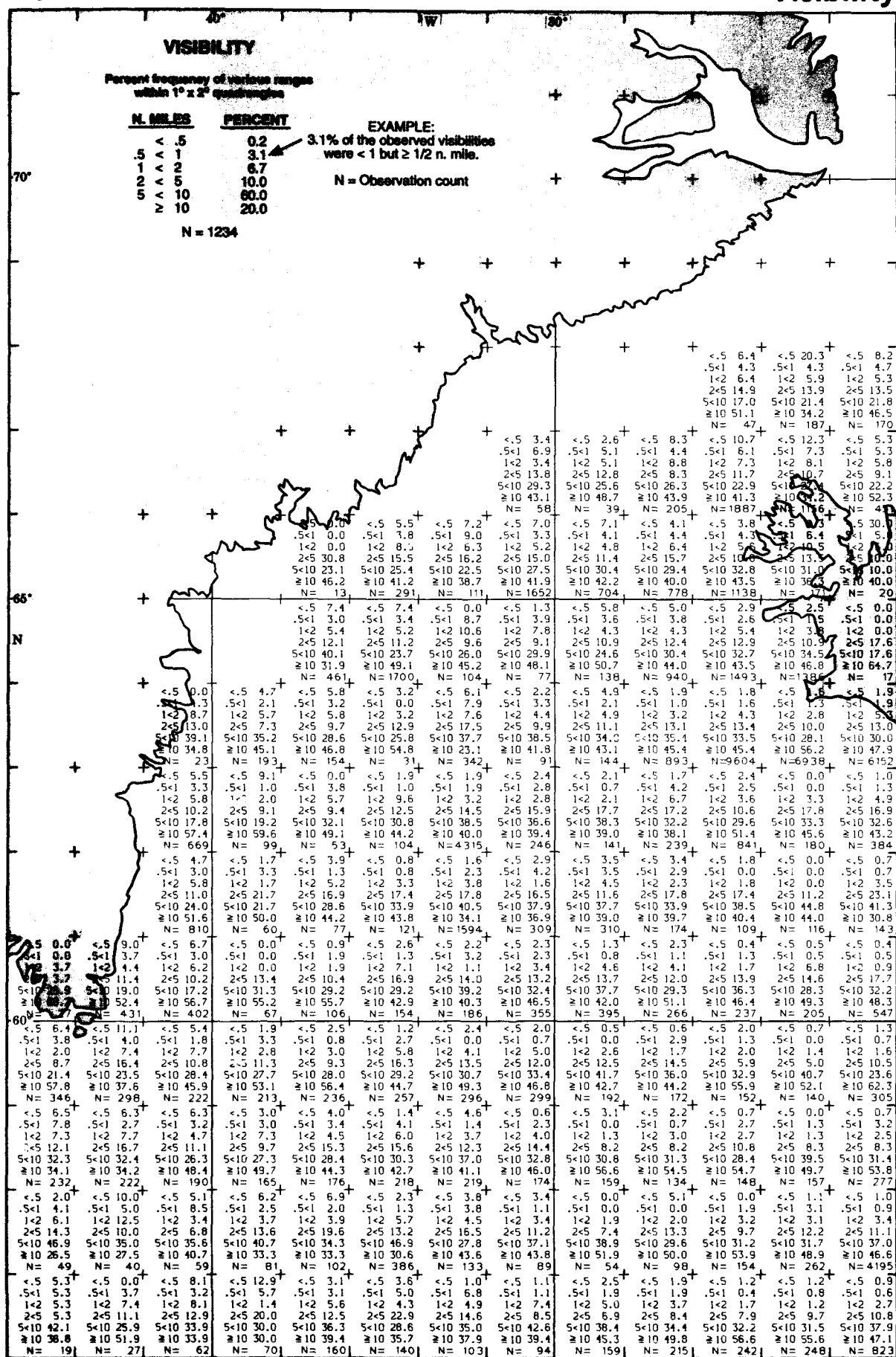
Clouds



March

Precipitation





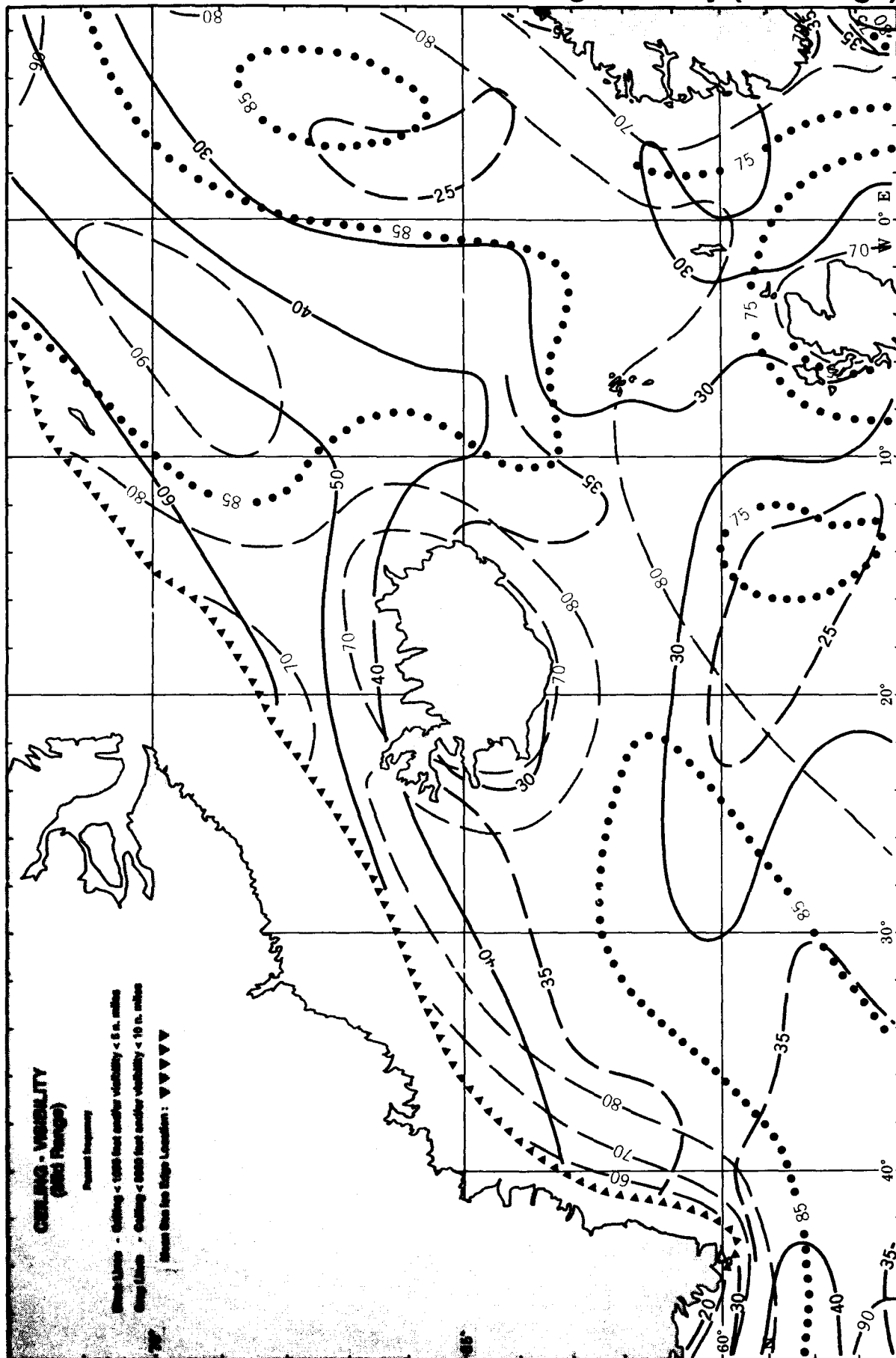
March

Visibility

	<5 13.8 5<1 18.4 1<2 11.5 2<5 16.1 5<10 14.9 ≥10 25.3 N= 87	<5 39.5 5<1 11.7 1<2 23.3 2<5 9.3 5<10 16.3 ≥10 7.0 N= 43	<5 3.7 5<1 13.0 1<2 16.7 2<5 22.2 5<10 5.6 ≥10 38.9 N= 54	<5 28.10° 5<1 11.7 1<2 21.7 2<5 6.7 5<10 13.3 ≥10 18.3 N= 60	<5 8.8 5<1 14.3 1<2 19.8 2<5 16.5 5<10 26.4 ≥10 14.3 N= 168	<5 15.5 5<1 8.3 1<2 8.3 2<5 18.5 5<10 29.2 ≥10 20.2 N= 130	<5 13.1 5<1 8.5 1<2 10.0 2<5 23.8 5<10 29.5 ≥10 31.1 N= 61	W<5 4.9 5<1 8.2 1<2 11.5 2<5 14.8 5<10 27.0 ≥10 13.5 N= 37	<5 16.20° 5<1 13.5 1<2 8.1 2<5 18.2 5<10 28.6 ≥10 36.4 N= 11	<5 18.2 5<1 0.0 1<2 0.0 2<5 11.1 5<10 28.6 ≥10 50.0 N= 14	<5 7.2 5<1 0.0 1<2 0.0 2<5 14.3 5<10 28.6 ≥10 48.3 N= 18	<5 5.6 5<1 0.0 1<2 0.0 2<5 11.1 5<10 44.4 ≥10 38.9 N= 18	
	<5 9.1 5<1 4.2 1<2 20.0 2<5 18.2 5<10 36.4 ≥10 36.4 N= 11	<5 4.2 5<1 7.1 1<2 20.8 2<5 16.7 5<10 20.8 ≥10 33.3 N= 24	<5 28.6 5<1 7.1 1<2 14.3 2<5 16.7 5<10 17.9 ≥10 28.6 N= 28	<5 12.0 5<1 2.0 1<2 14.0 2<5 15.0 5<10 16.0 ≥10 40.0 N= 50	<5 19.8 5<1 17.7 1<2 4.2 2<5 9.4 5<10 15.6 ≥10 33.3 N= 96	<5 14.7 5<1 5.5 1<2 9.7 2<5 16.4 5<10 25.2 ≥10 28.6 N= 238	<5 12.1 5<1 8.8 1<2 20.9 2<5 14.3 5<10 14.3 ≥10 29.7 N= 91	<5 6.5 5<1 22.6 1<2 6.5 2<5 19.4 5<10 32.3 ≥10 11.5 N= 31	<5 7.7 5<1 3.8 1<2 15.4 2<5 26.9 5<10 34.6 ≥10 11.8 N= 26	<5 17.6 5<1 17.6 1<2 11.8 2<5 9.5 5<10 42.9 ≥10 11.8 N= 17	<5 28.6 5<1 0.0 1<2 9.5 2<5 15.0 5<10 25.0 ≥10 50.0 N= 21	<5 5.0 5<1 5.0 1<2 0.0 2<5 15.0 5<10 50.0 ≥10 48.3 N= 20	<5 6.9 5<1 3.4 1<2 6.9 2<5 15.0 5<10 27.6 ≥10 48.3 N= 29
70	<5 15.4 5<1 0.0 1<2 23.1 2<5 15.4 5<10 7.7 ≥10 38.5 N= 13	<5 13.3 5<1 6.7 1<2 6.7 2<5 26.7 5<10 13.3 ≥10 33.3 N= 15	<5 3.4 5<1 0.3 1<2 3.4 2<5 6.9 5<10 27.6 ≥10 58.6 N= 29	<5 8.9 5<1 3.6 1<2 10.7 2<5 12.5 5<10 30.4 ≥10 33.9 N= 56	<5 12.5 5<1 4.8 1<2 9.4 2<5 15.6 5<10 31.3 ≥10 21.9 N= 32	<5 4.8 5<1 4.8 1<2 9.5 2<5 23.8 5<10 30.0 ≥10 33.3 N= 21	<5 5.0 5<1 5.0 1<2 0.0 2<5 15.0 5<10 40.0 ≥10 30.0 N= 20	<5 0.0 5<1 0.0 1<2 0.0 2<5 9.1 5<10 81.8 ≥10 9.1 N= 11	<5 0.0 5<1 0.0 1<2 9.5 2<5 33.3 5<10 28.6 ≥10 28.6 N= 21	<5 0.0 5<1 0.0 1<2 9.5 2<5 33.3 5<10 28.6 ≥10 28.6 N= 21	<5 3.1 5<1 6.3 1<2 3.1 2<5 15.6 5<10 37.5 ≥10 37.5 N= 19	<5 3.1 5<1 6.3 1<2 3.1 2<5 15.6 5<10 37.5 ≥10 37.5 N= 19	<5 0.0 5<1 0.0 1<2 2.2 2<5 10.9 5<10 63.0 ≥10 23.9 N= 46
	<5 20.0 5<1 8.3 1<2 0.0 2<5 20.0 5<10 20.0 ≥10 30.0 N= 10	<5 8.3 5<1 8.3 1<2 8.3 2<5 16.7 5<10 8.3 ≥10 50.0 N= 10	<5 6.5 5<1 3.2 1<2 6.5 2<5 22.6 5<10 32.3 ≥10 29.0 N= 31	<5 12.3 5<1 3.5 1<2 10.5 2<5 22.8 5<10 21.1 ≥10 29.8 N= 57	<5 9.1 5<1 6.1 1<2 9.1 2<5 12.1 5<10 48.5 ≥10 15.2 N= 33	<5 0.0 5<1 5.3 1<2 21.1 2<5 21.1 5<10 26.3 ≥10 10.4 N= 19	<5 6.7 5<1 0.0 1<2 6.7 2<5 33.3 5<10 13.3 ≥10 40.0 N= 50	<5 12.1 5<1 3.0 1<2 0.0 2<5 9.1 5<10 33.3 ≥10 42.4 N= 52	<5 2.1 5<1 2.1 1<2 6.4 2<5 4.3 5<10 46.8 ≥10 38.3 N= 47	<5 2.1 5<1 2.1 1<2 6.4 2<5 4.3 5<10 46.8 ≥10 38.3 N= 47	<5 3.6 5<1 1.8 1<2 1.8 2<5 9.1 5<10 34.5 ≥10 26.5 N= 55	<5 2.2 5<1 0.0 1<2 2.2 2<5 13.0 5<10 48.2 ≥10 60.1 N= 46	<5 0.9 5<1 1.0 1<2 1.0 2<5 15.3 5<10 48.2 ≥10 32.0 N= 222
	<5 2.2 5<1 8.8 1<2 7.7 2<5 15.4 5<10 20.9 ≥10 45.1 N= 9	<5 3.6 5<1 6.0 1<2 7.2 2<5 14.5 5<10 25.1 ≥10 53.0 N= 8	<5 9.1 5<1 2.5 1<2 5.0 2<5 12.4 5<10 27.6 ≥10 47.9 N= 12	<5 5.2 5<1 6.9 1<2 6.9 2<5 17.2 5<10 27.6 ≥10 36.2 N= 58	<5 10.9 5<1 10.9 1<2 2.0 2<5 10.9 5<10 21.8 ≥10 43.6 N= 101	<5 10.8 5<1 4.1 1<2 8.2 2<5 10.2 5<10 29.7 ≥10 24.3 N= 37	<5 2.0 5<1 2.0 1<2 8.0 2<5 18.0 5<10 26.5 ≥10 46.0 N= 50	<5 7.7 5<1 5.8 1<2 1.9 2<5 15.4 5<10 26.9 ≥10 42.3 N= 52	<5 4.8 5<1 1.2 1<2 3.6 2<5 4.8 5<10 49.4 ≥10 36.1 N= 83	<5 0.8 5<1 0.0 1<2 5.8 2<5 15.7 5<10 35.5 ≥10 42.1 N= 121	<5 1.3 5<1 4.7 1<2 5.3 2<5 15.3 5<10 46.7 ≥10 27.3 N= 150	<5 0.0 5<1 1.3 1<2 5.3 2<5 15.3 5<10 46.7 ≥10 27.3 N= 150	<5 0.0 5<1 0.6 1<2 7.9 2<5 20.0 5<10 47.9 ≥10 23.6 N= 165
	<5 7.9 5<1 4.6 1<2 7.5 2<5 9.3 5<10 20.8 ≥10 19.2 N= 18	<5 4.7 5<1 3.9 1<2 6.0 2<5 17.5 5<10 17.4 ≥10 58.2 N= 235	<5 4.5 5<1 3.9 1<2 6.8 2<5 17.5 5<10 19.1 ≥10 47.2 N= 309	<5 5.9 5<1 1.9 1<2 7.8 2<5 15.7 5<10 19.8 ≥10 44.5 N= 83	<5 15.7 5<1 3.6 1<2 5.9 2<5 15.7 5<10 24.1 ≥10 36.1 N= 34	<5 5.9 5<1 2.9 1<2 4.5 2<5 22.4 5<10 26.9 ≥10 34.3 N= 67	<5 4.5 5<1 4.5 1<2 4.5 2<5 8.0 5<10 36.4 ≥10 45.5 N= 74	<5 3.4 5<1 2.3 1<2 5.4 2<5 13.5 5<10 45.9 ≥10 31.1 N= 74	<5 1.4 5<1 2.7 1<2 8.9 2<5 20.2 5<10 34.7 ≥10 23.4 N= 124	<5 5.6 5<1 7.3 1<2 7.3 2<5 10.9 5<10 46.5 ≥10 37.1 N= 2654	<5 0.9 5<1 1.5 1<2 3.1 2<5 13.7 5<10 43.2 ≥10 37.1 N= 2654	<5 1.2 5<1 1.6 1<2 3.1 2<5 13.7 5<10 43.2 ≥10 37.1 N= 2654	<5 2.1 5<1 1.0 1<2 5.2 2<5 18.5 5<10 48.7 ≥10 30.6 N= 193
	<5 31.8 5<1 18.9 1<2 13.6 2<5 9.1 5<10 13.6 ≥10 13.6 N= 22	<5 0.0 5<1 2.8 1<2 4.8 2<5 11.4 5<10 11.3 ≥10 74.2 N= 62	<5 3.6 5<1 2.9 1<2 6.2 2<5 12.4 5<10 26.4 ≥10 51.2 N= 1821	<5 4.7 5<1 3.0 1<2 5.0 2<5 13.1 5<10 38.4 ≥10 35.0 N= 466	<5 7.2 5<1 1.1 1<2 4.6 2<5 13.8 5<10 30.4 ≥10 37.1 N= 186	<5 7.2 5<1 4.6 1<2 7.2 2<5 13.8 5<10 27.7 ≥10 36.9 N= 65	<5 6.3 5<1 5.2 1<2 0.0 2<5 15.6 5<10 33.0 ≥10 37.7 N= 69	<5 3.6 5<1 0.9 1<2 3.1 2<5 11.6 5<10 29.9 ≥10 38.5 N= 96	<5 0.8 5<1 2.4 1<2 1.6 2<5 9.6 5<10 34.4 ≥10 50.9 N= 224	<5 3.2 5<1 0.3 1<2 1.6 2<5 12.3 5<10 40.8 ≥10 44.1 N= 125	<5 0.8 5<1 1.2 1<2 3.5 2<5 13.1 5<10 35.7 ≥10 44.7 N= 263	<5 0.8 5<1 1.2 1<2 3.5 2<5 13.1 5<10 35.7 ≥10 44.7 N= 263	<5 0.7 5<1 0.7 1<2 1.6 2<5 11.4 5<10 40.1 ≥10 37.0 N= 1887
	<5 0.9 5<1 2.1 1<2 3.2 2<5 12.2 5<10 35.7 ≥10 45.8 N= 746	<5 1.4 5<1 1.4 1<2 3.9 2<5 14.6 5<10 33.5 ≥10 45.3 N= 1401	<5 0.9 5<1 1.8 1<2 4.3 2<5 12.6 5<10 38.1 ≥10 42.4 N= 1481	<5 1.5 5<1 1.5 1<2 4.9 2<5 13.5 5<10 34.7 ≥10 43.9 N= 1016	<5 2.2 5<1 2.3 1<2 5.1 2<5 13.7 5<10 32.3 ≥10 45.7 N= 827	<5 0.9 5<1 1.4 1<2 3.4 2<5 12.2 5<10 41.0 ≥10 36.4 N= 442	<5 1.1 5<1 1.6 1<2 2.7 2<5 16.0 5<10 43.8 ≥10 41.0 N= 187	<5 1.3 5<1 1.3 1<2 2.6 2<5 16.8 5<10 40.4 ≥10 41.4 N= 156	<5 1.8 5<1 0.5 1<2 2.3 2<5 16.8 5<10 37.3 ≥10 41.4 N= 220	<5 1.4 5<1 0.5 1<2 4.2 2<5 12.9 5<10 29.5 ≥10 54.8 N= 210	<5 3.0 5<1 0.3 1<2 2.1 2<5 15.2 5<10 30.4 ≥10 44.9 N= 263	<5 1.2 5<1 2.1 1<2 3.5 2<5 13.1 5<10 35.7 ≥10 44.7 N= 263	<5 1.5 5<1 1.4 1<2 3.6 2<5 14.5 5<10 31.9 ≥10 47.3 N= 143
	<5 0.5 5<1 1.1 1<2 3.8 2<5 10.9 5<10 33.9 ≥10 49.7 N= 183	<5 0.6 5<1 2.9 1<2 4.8 2<5 12.5 5<10 37.8 ≥10 41.3 N= 312	<5 1.2 5<1 1.4 1<2 2.2 2<5 12.0 5<10 32.8 ≥10 50.4 N= 760	<5 1.2 5<1 1.4 1<2 3.1 2<5 12.6 5<10 35.6 ≥10 46.1 N= 1263	<5 0.6 5<1 0.8 1<2 3.7 2<5 13.7 5<10 41.1 ≥10 40.1 N= 1464	<5 0.9 5<1 1.2 1<2 3.5 2<5 10.9 5<10 35.5 ≥10 46.7 N= 925	<5 1.0 5<1 1.2 1<2 4.0 2<5 14.3 5<10 33.9 ≥10 46.7 N= 1739	<5 0.8 5<1 1.1 1<2 4.2 2<5 13.0 5<10 33.1 ≥10 47.1 N= 1049	<5 0.3 5<1 1.0 1<2 3.2 2<5 11.0 5<10 36.9 ≥10 47.6 N= 1441	<5 1.0 5<1 1.0 1<2 3.4 2<5 10.9 5<10 35.7 ≥10 48.5 N= 1277	<5 0.8 5<1 1.8 1<2 3.2 2<5 10.9 5<10 29.9 ≥10 53.5 N= 3546	<5 0.8 5<1 1.8 1<2 3.2 2<5 10.9 5<10 29.9 ≥10 53.5 N= 3546	<5 1.9 5<1 1.3 1<2 4.2 2<5 15.9 5<10 32.2 ≥10 42.3 N= 2295
	<5 0.3 5<1 0.5 1<2 3.2 2<5 11.2 5<10 37.9 ≥10 46.9 N= 3953	<5 1.5 5<1 0.6 1<2 3.3 2<5 10.7 5<10 37.0 ≥10 49.8 N= 338	<5 0.0 5<1 0.3 1<2 4.0 2<5 10.6 5<10 35.2 ≥10 49.8 N= 201	<5 0.7 5<1 3.6 1<2 4.1 2<5 11.8 5<10 30.9 ≥10 48.9 N= 417	<5 0.6 5<1 0.8 1<2 2.3 2<5 11.3 5<10 32.7 ≥10 52.4 N= 355	<5 0.6							

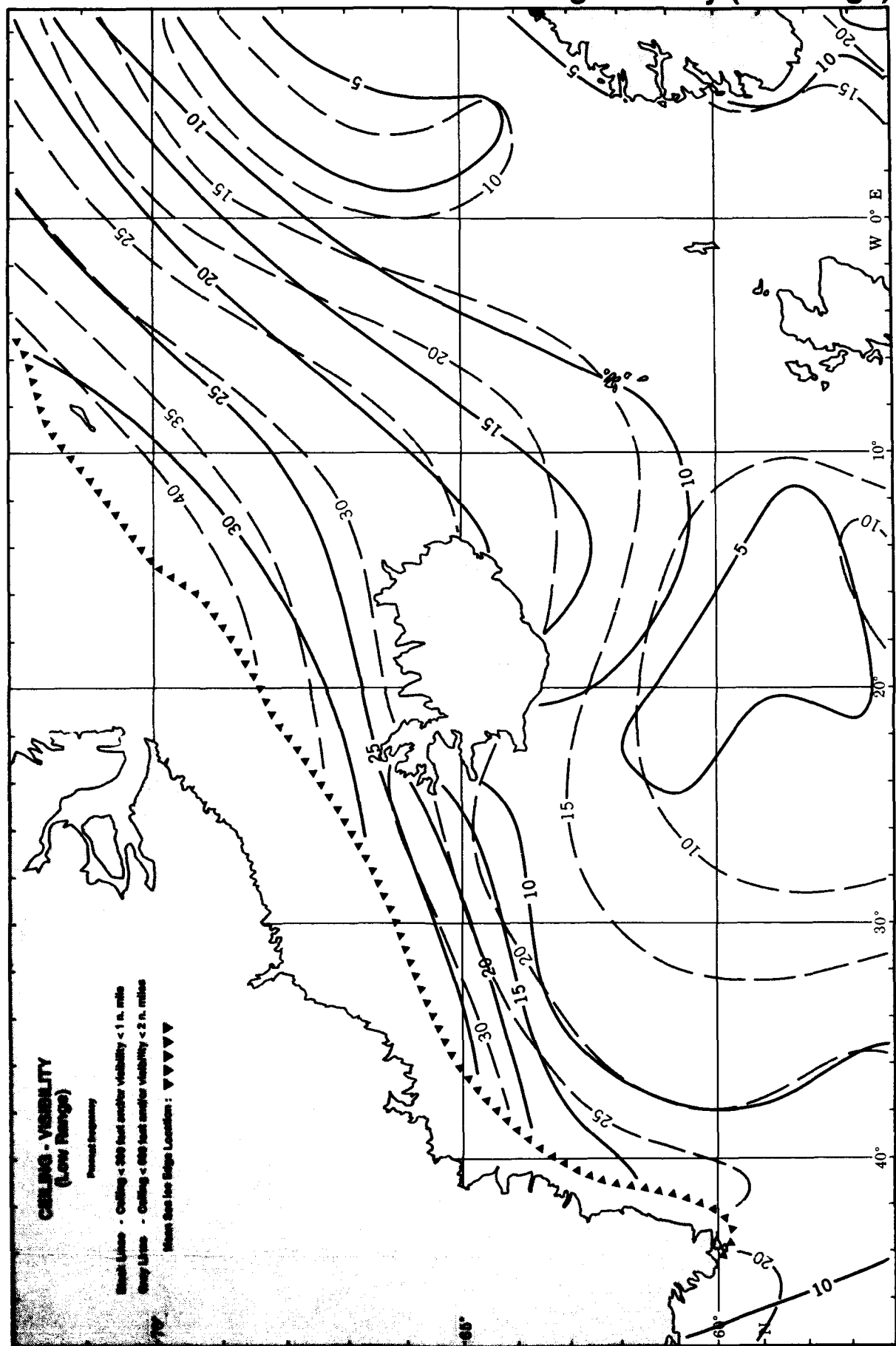
March

Ceiling-Visibility (mid range)



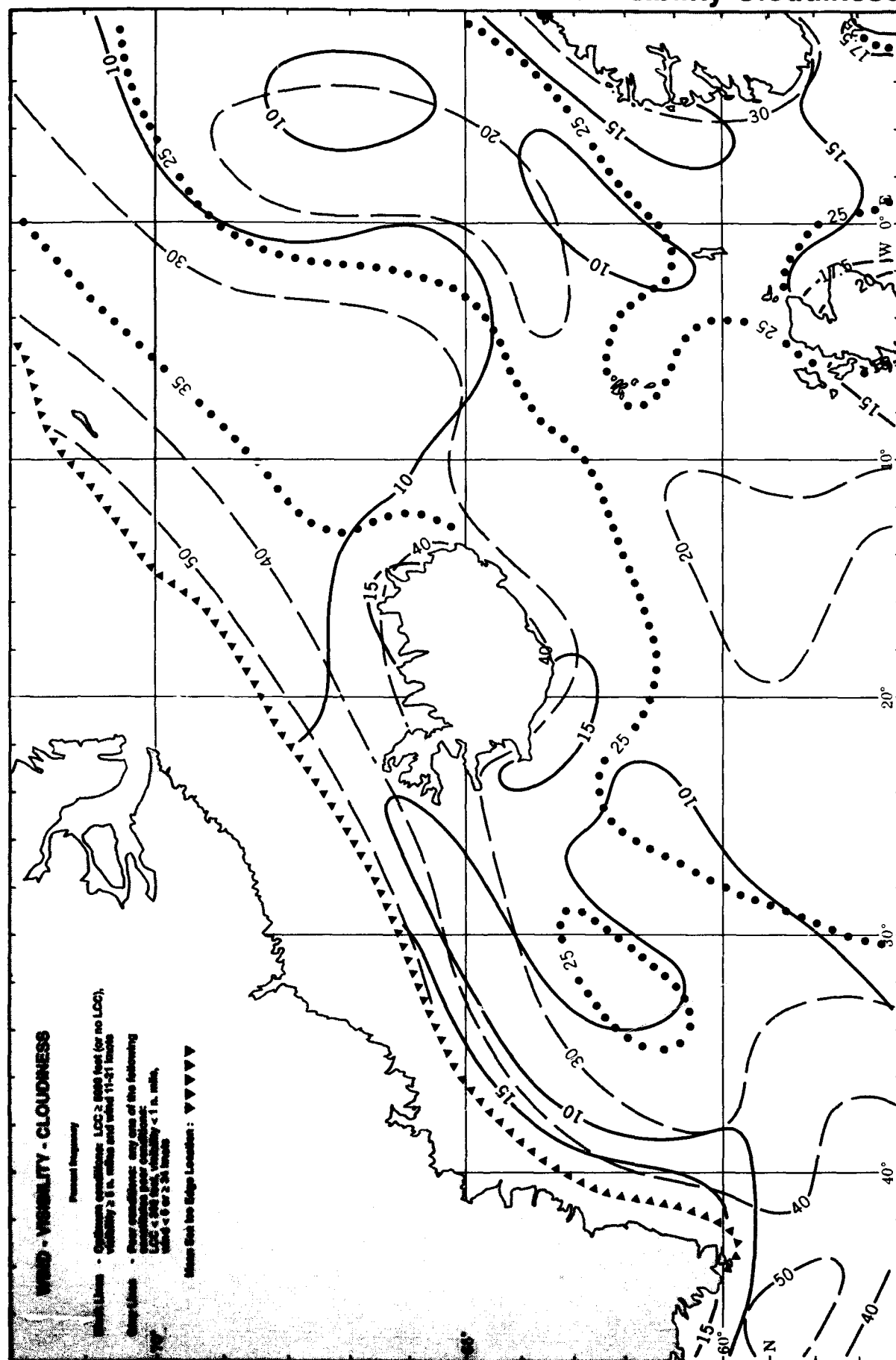
March

Ceiling-Visibility (low range)



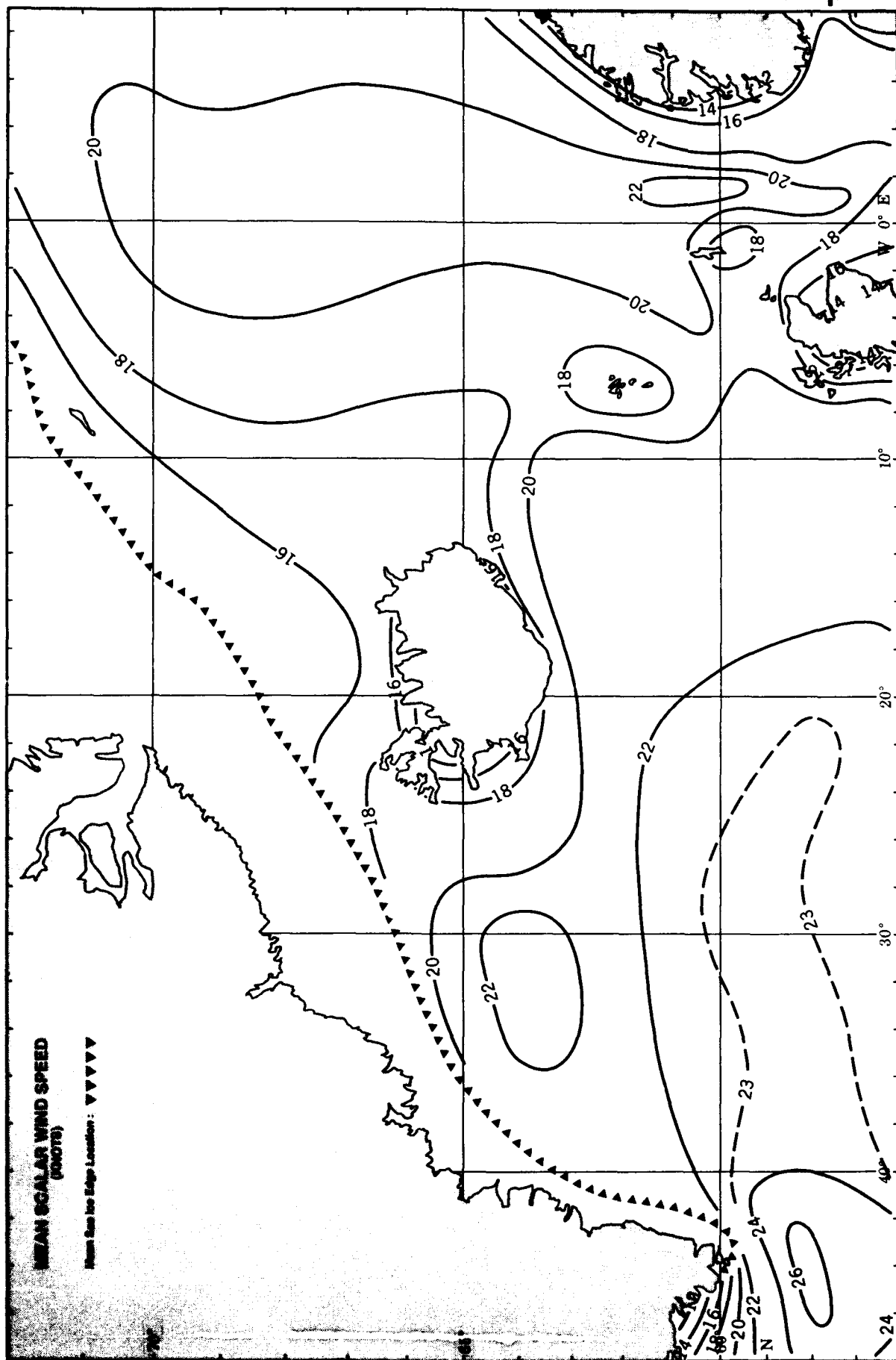
March

Wind-Visibility-Cloudiness



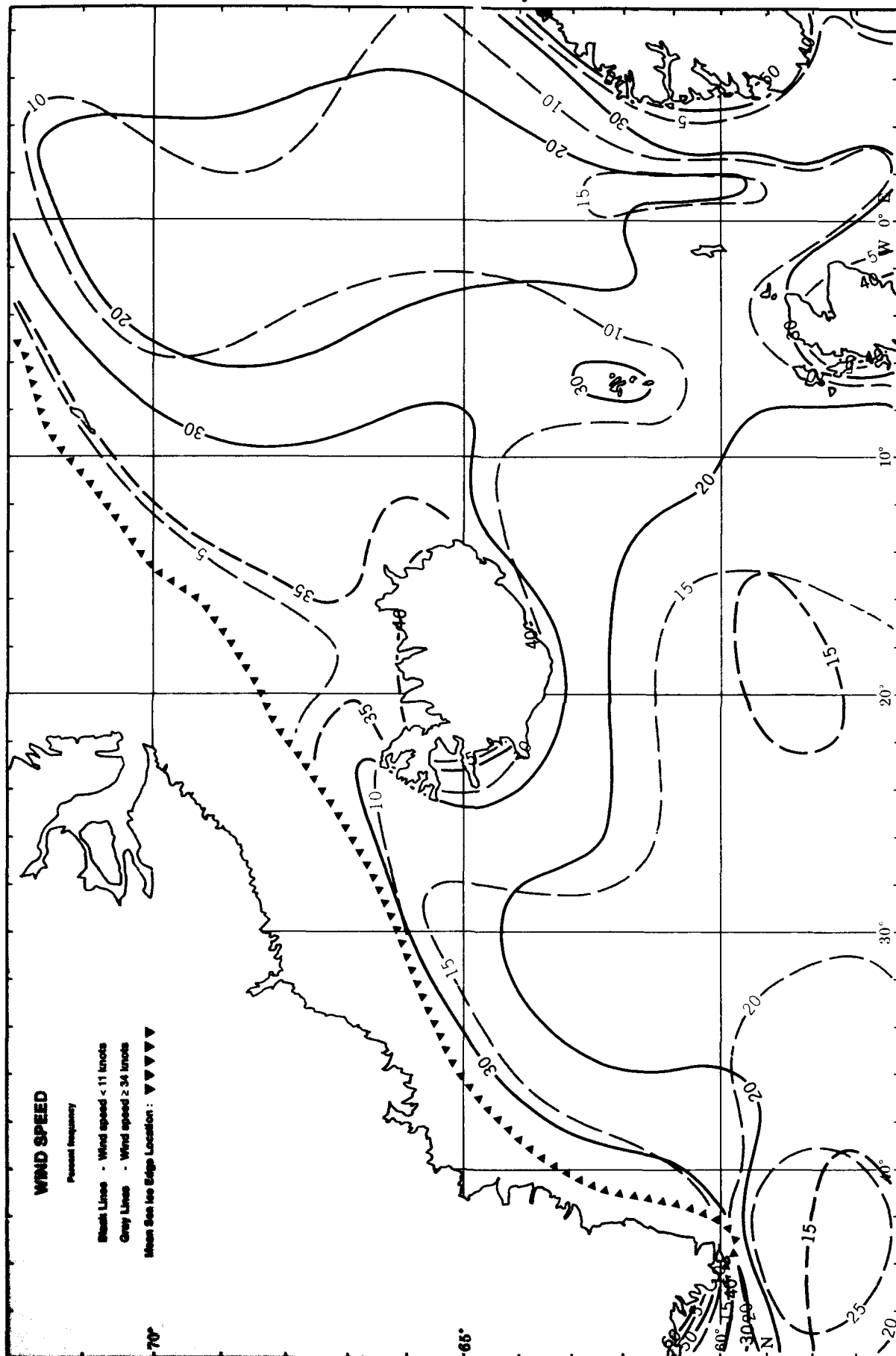
March

Mean Scalar Wind Speed



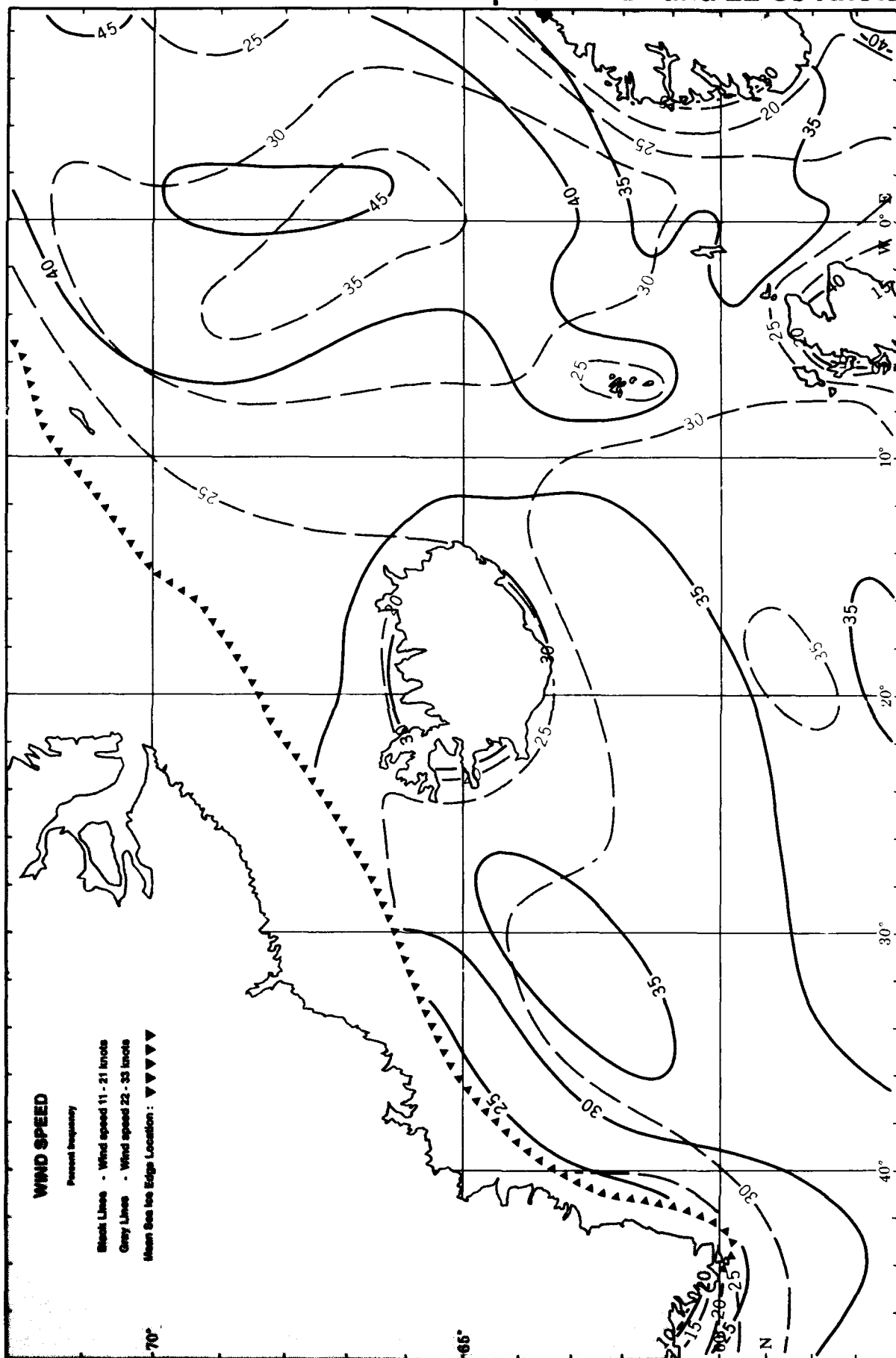
March

Wind Speed < 11 and ≥ 34 Knots



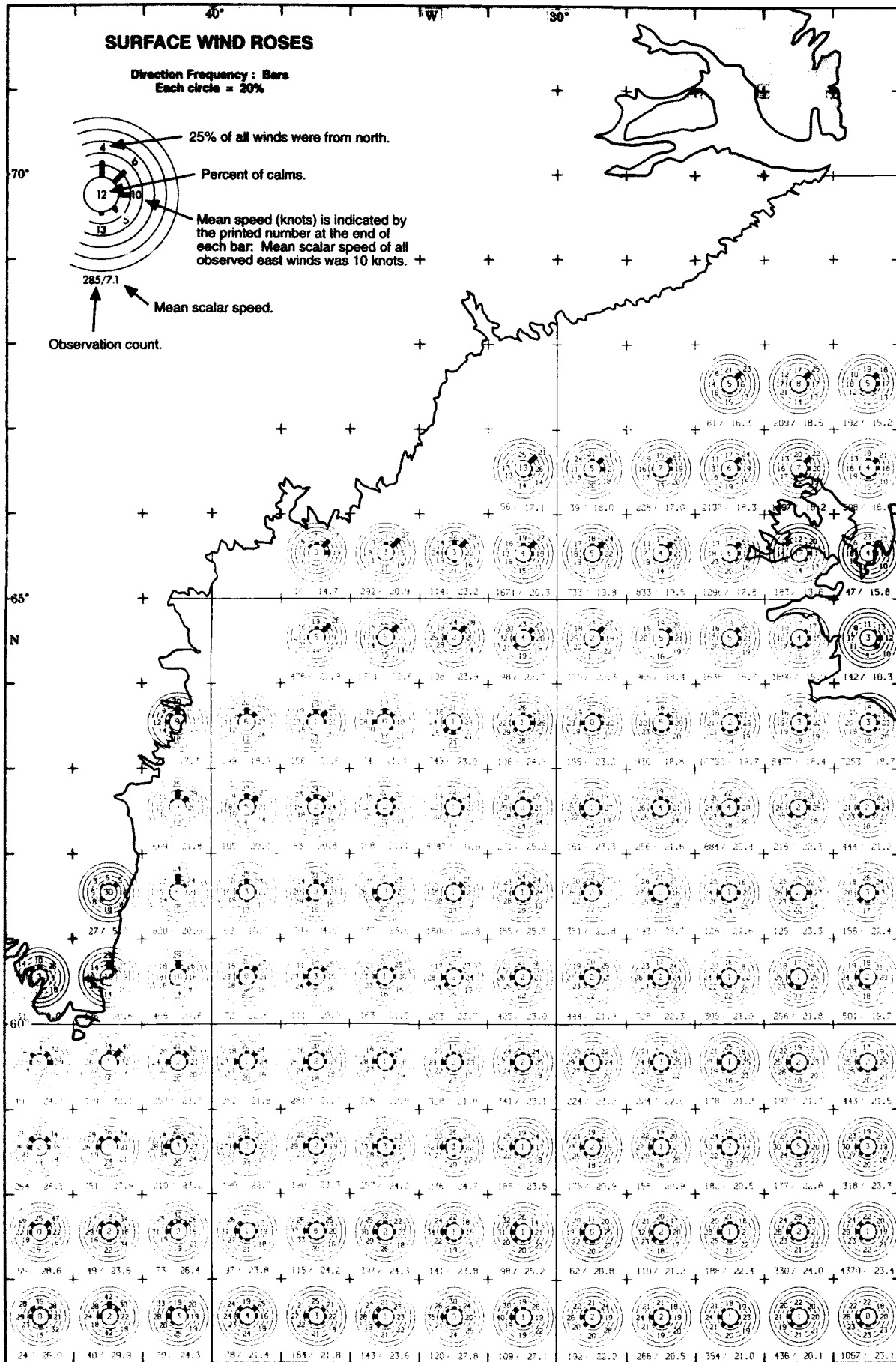
March

Wind Speed 11-21 and 22-33 Knots



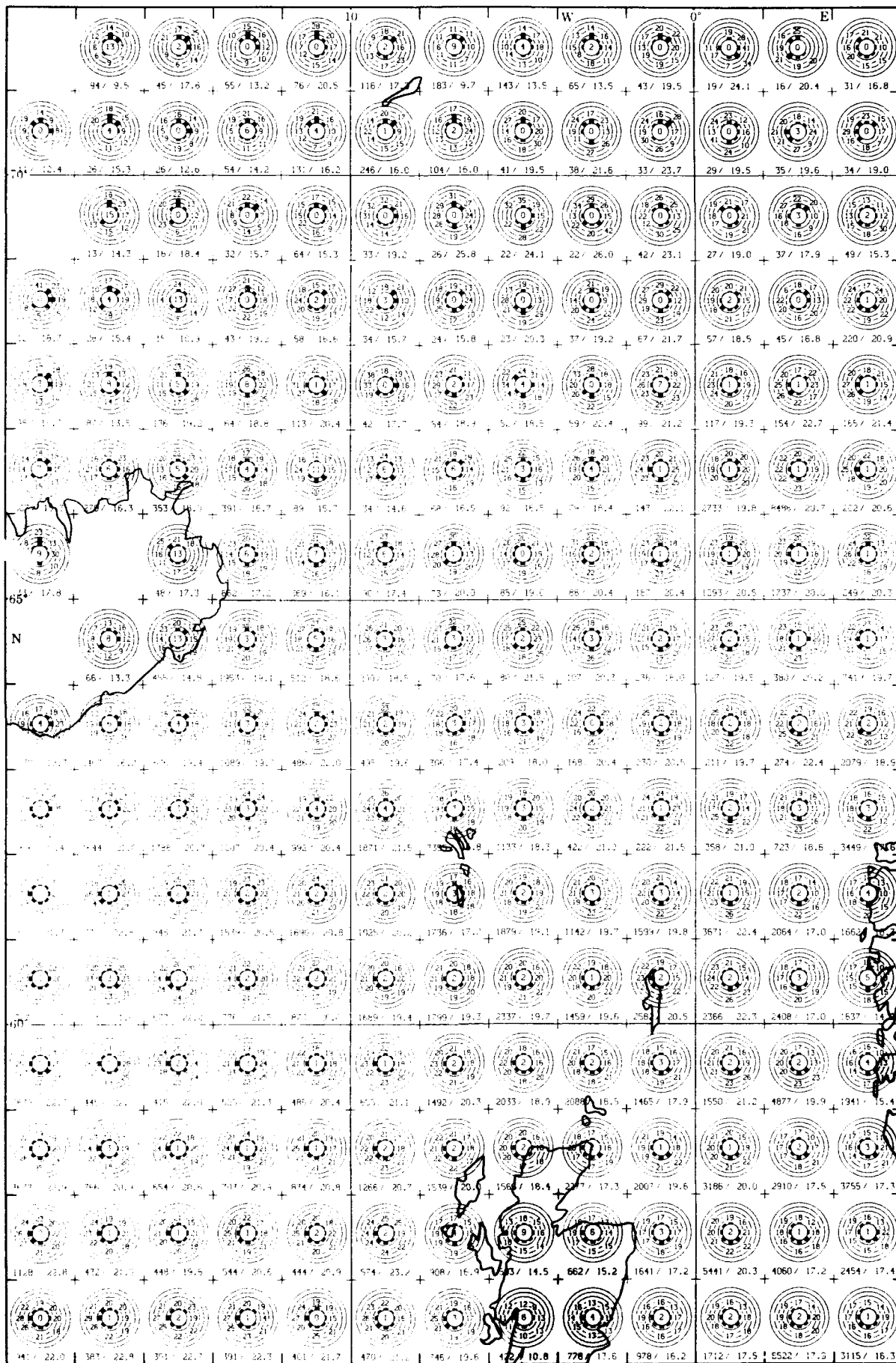
March

Surface Wind Roses



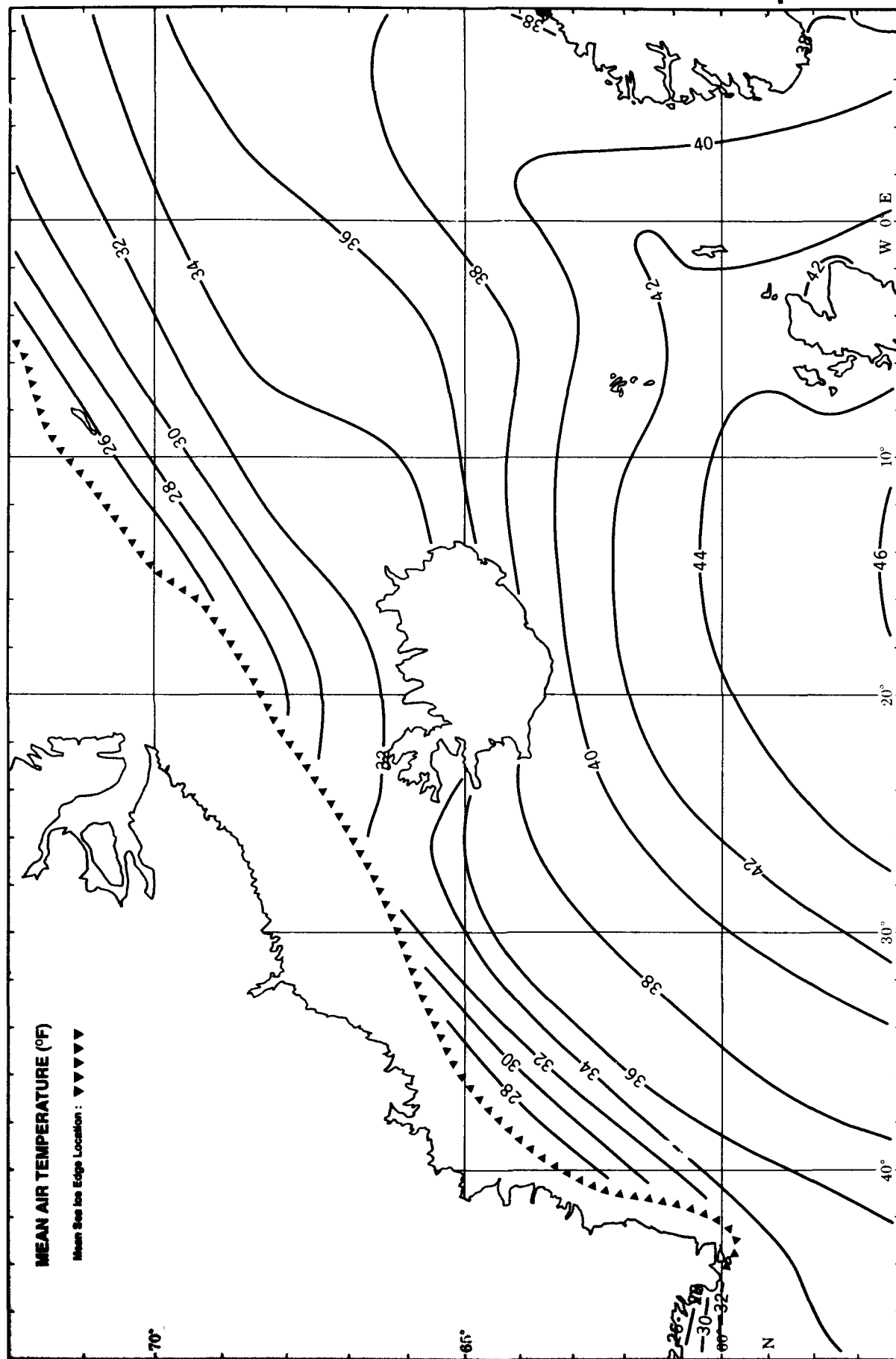
March

Surface Wind Roses



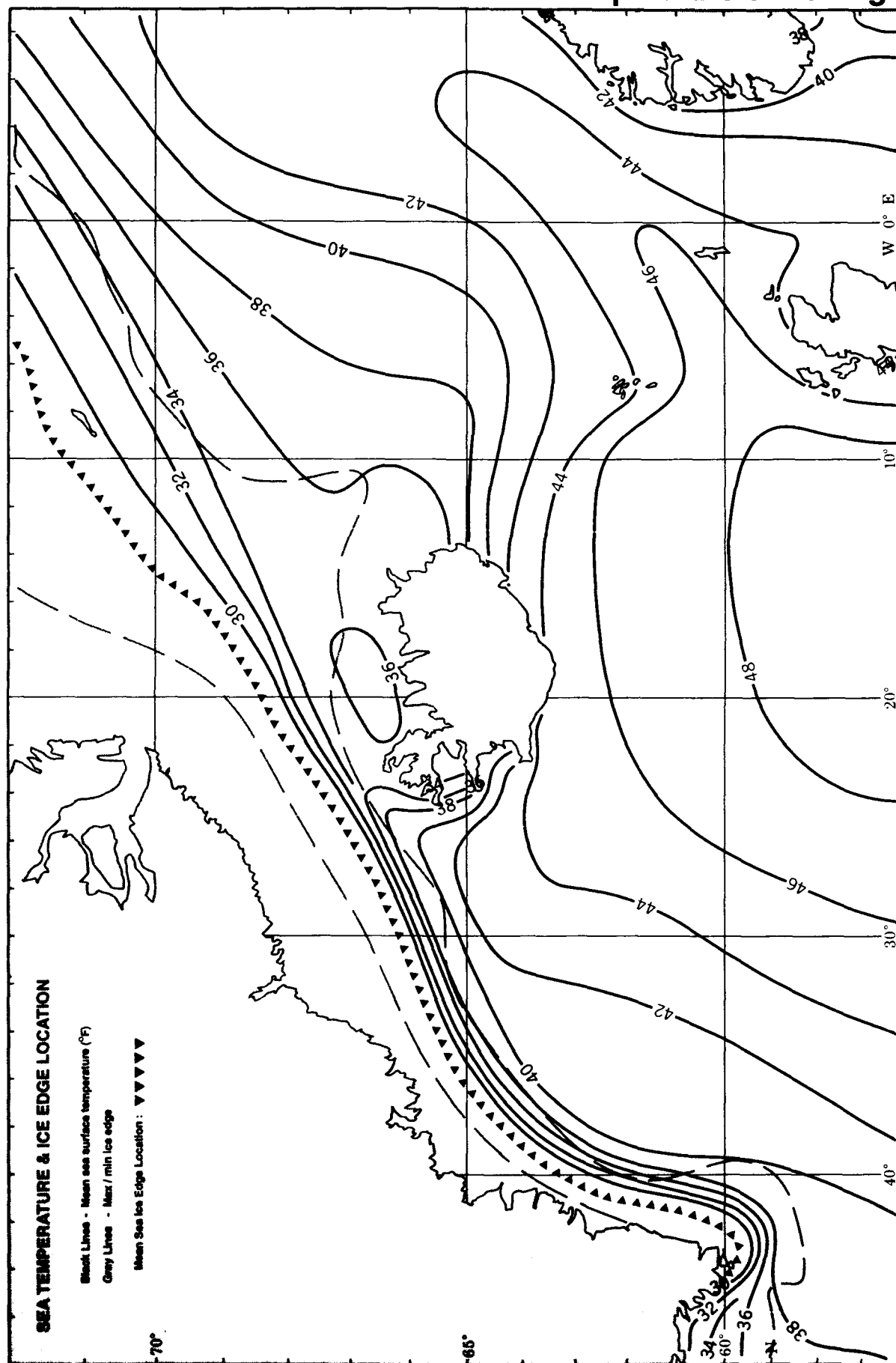
March

Mean Air Temperature



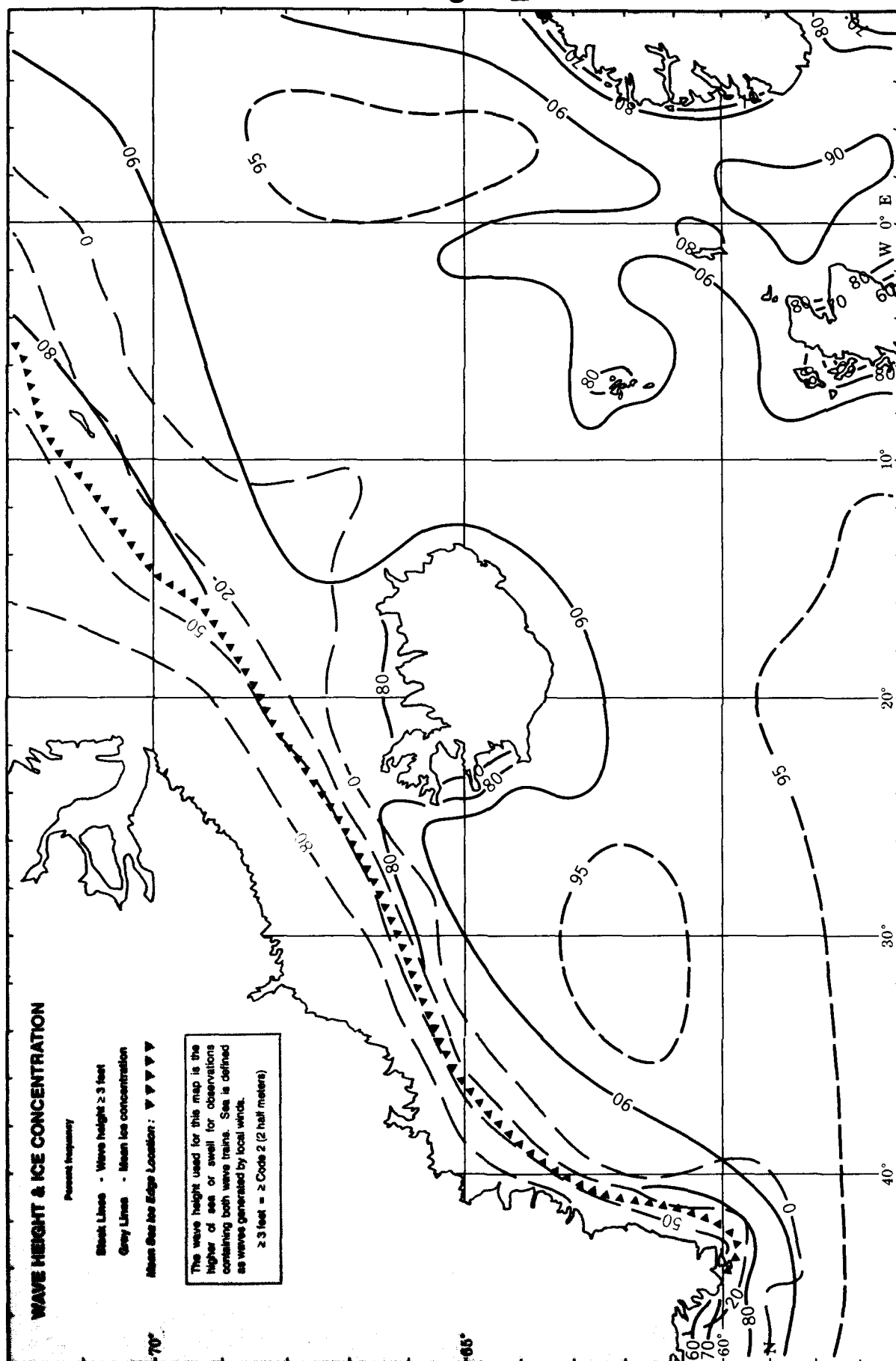
March

Mean Sea Temperature & Ice Edge



March

Wave Height ≥ 3 Ft. & Ice Concentration



Wave Height

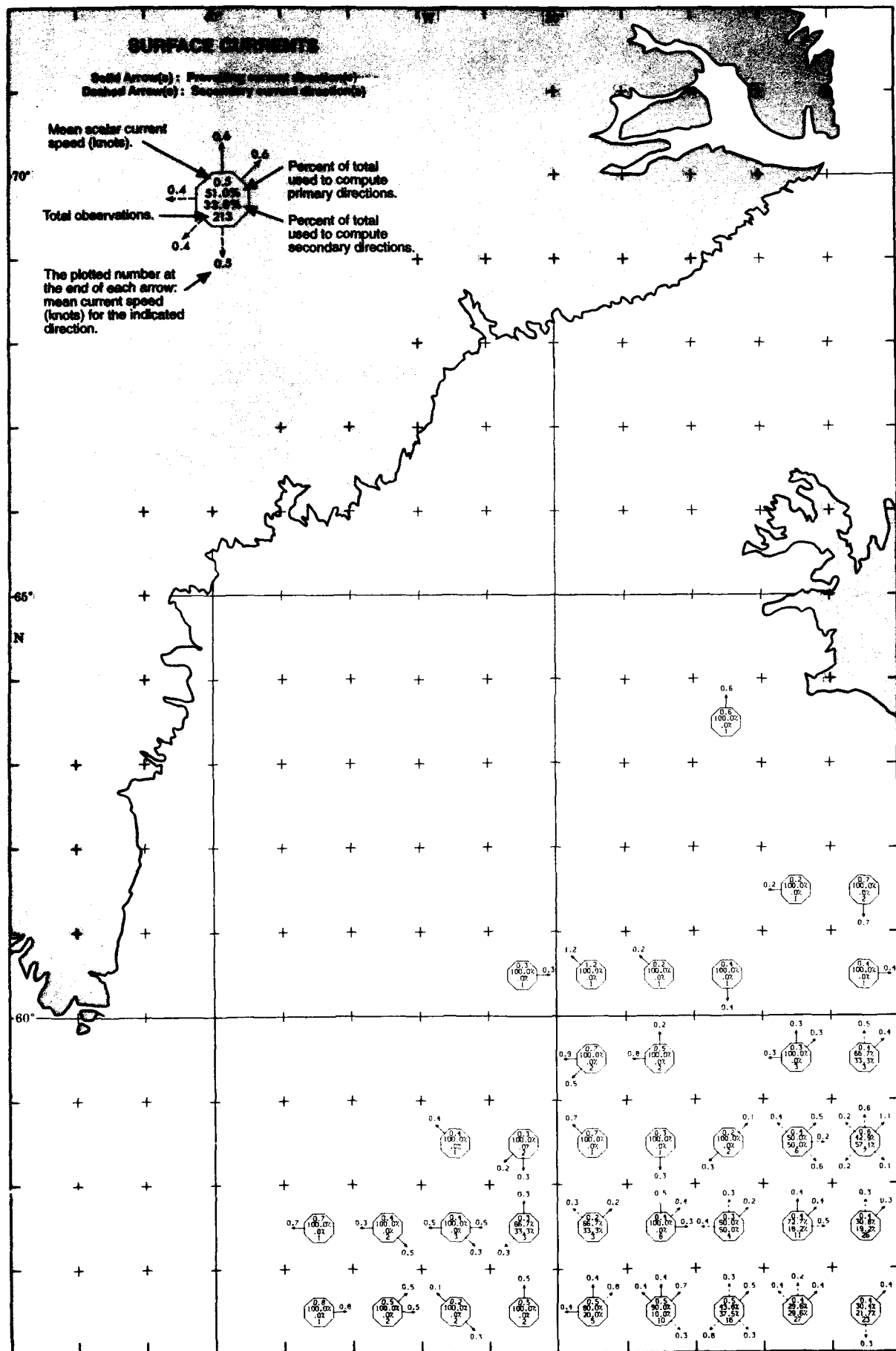


Wave Height

59

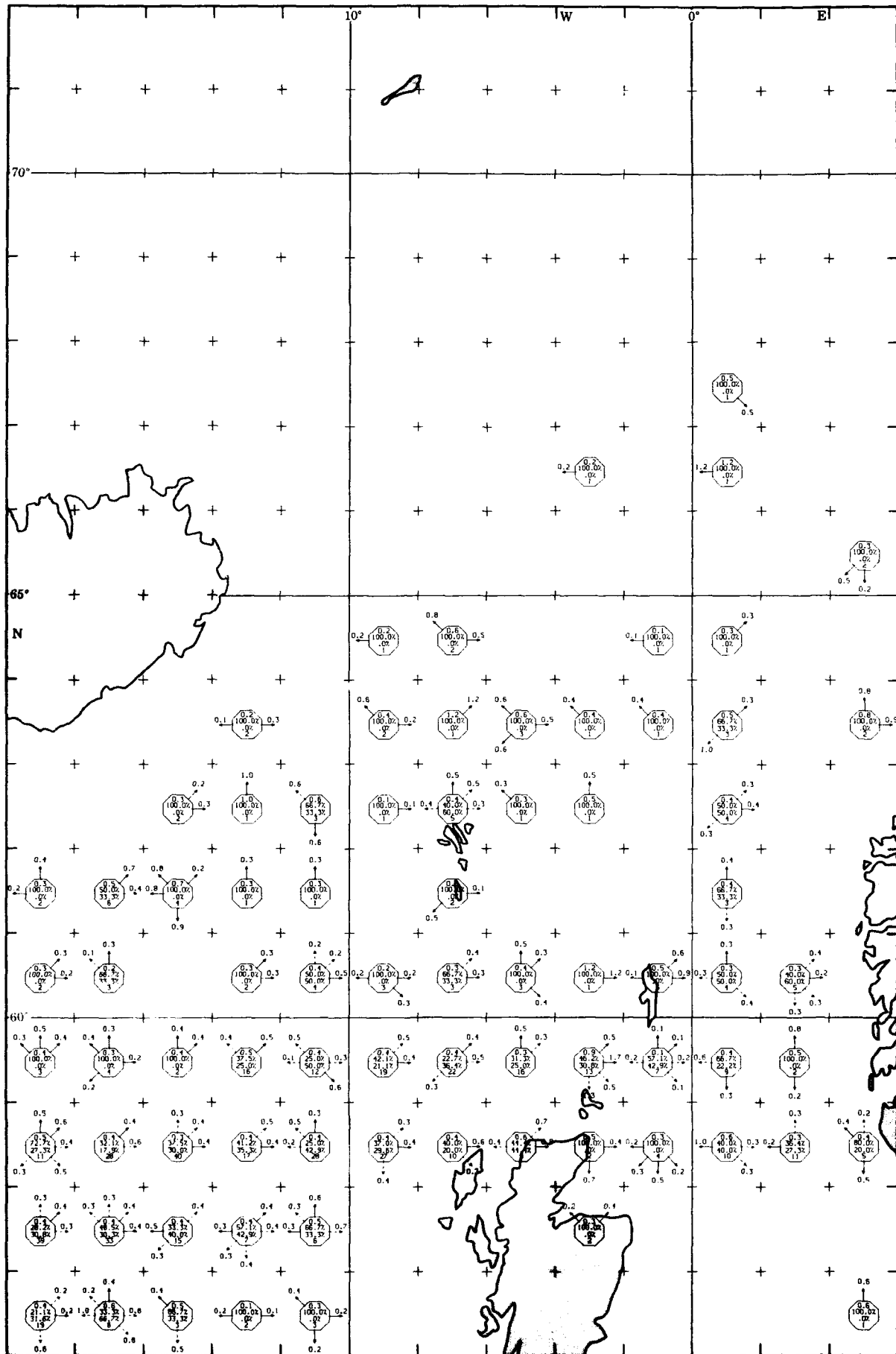
March

Surface Currents



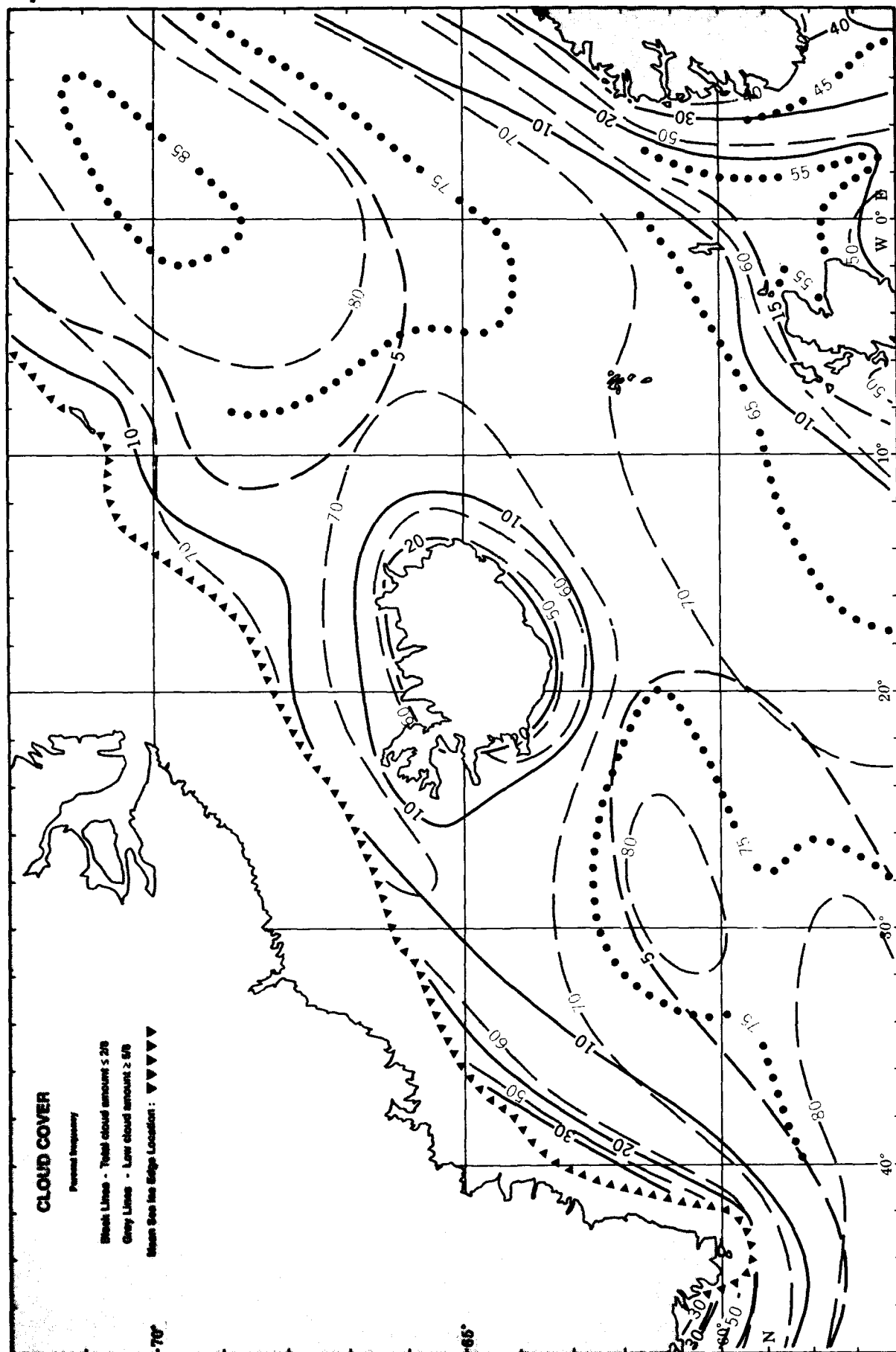
March

Surface Currents



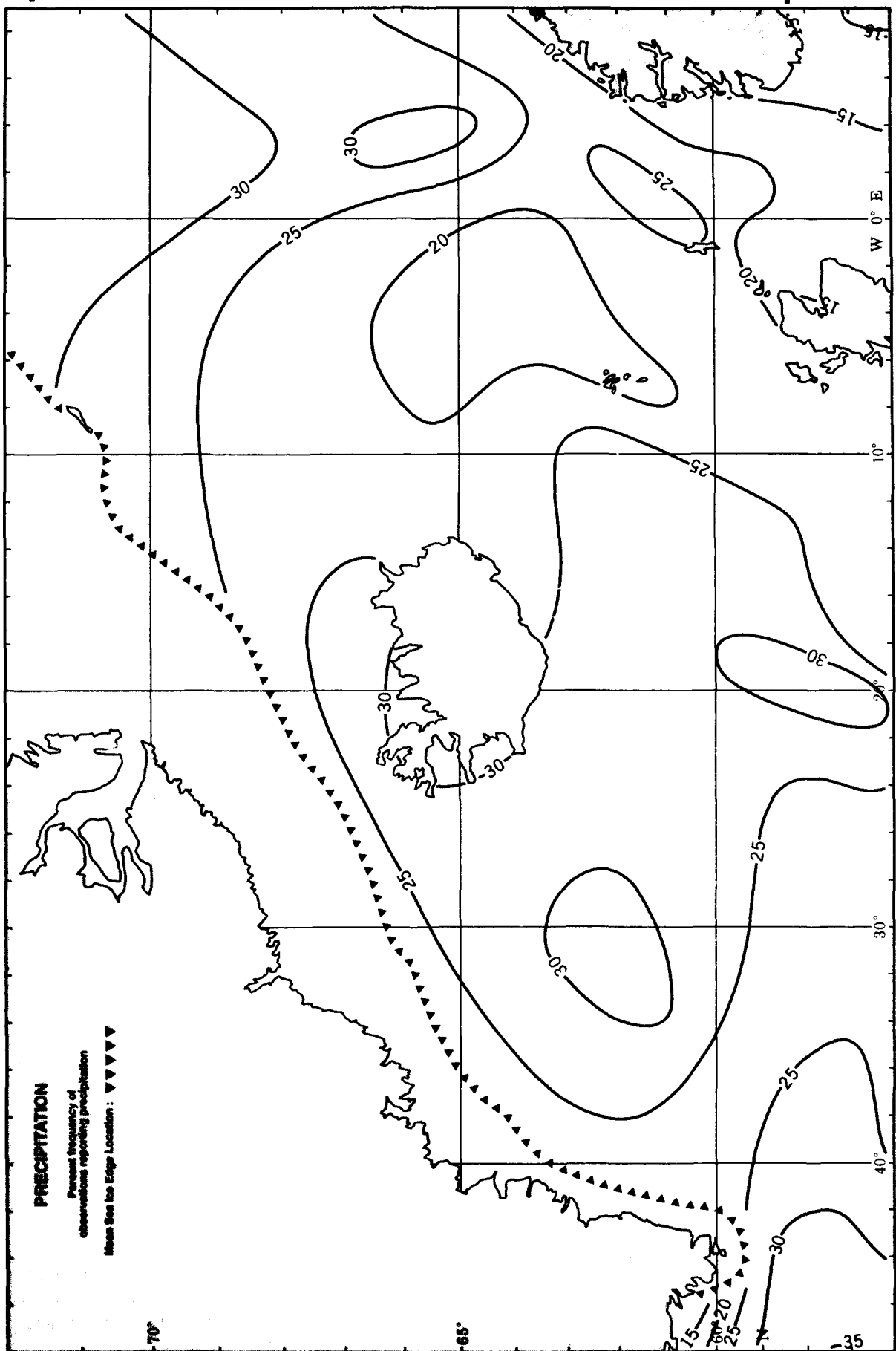
April

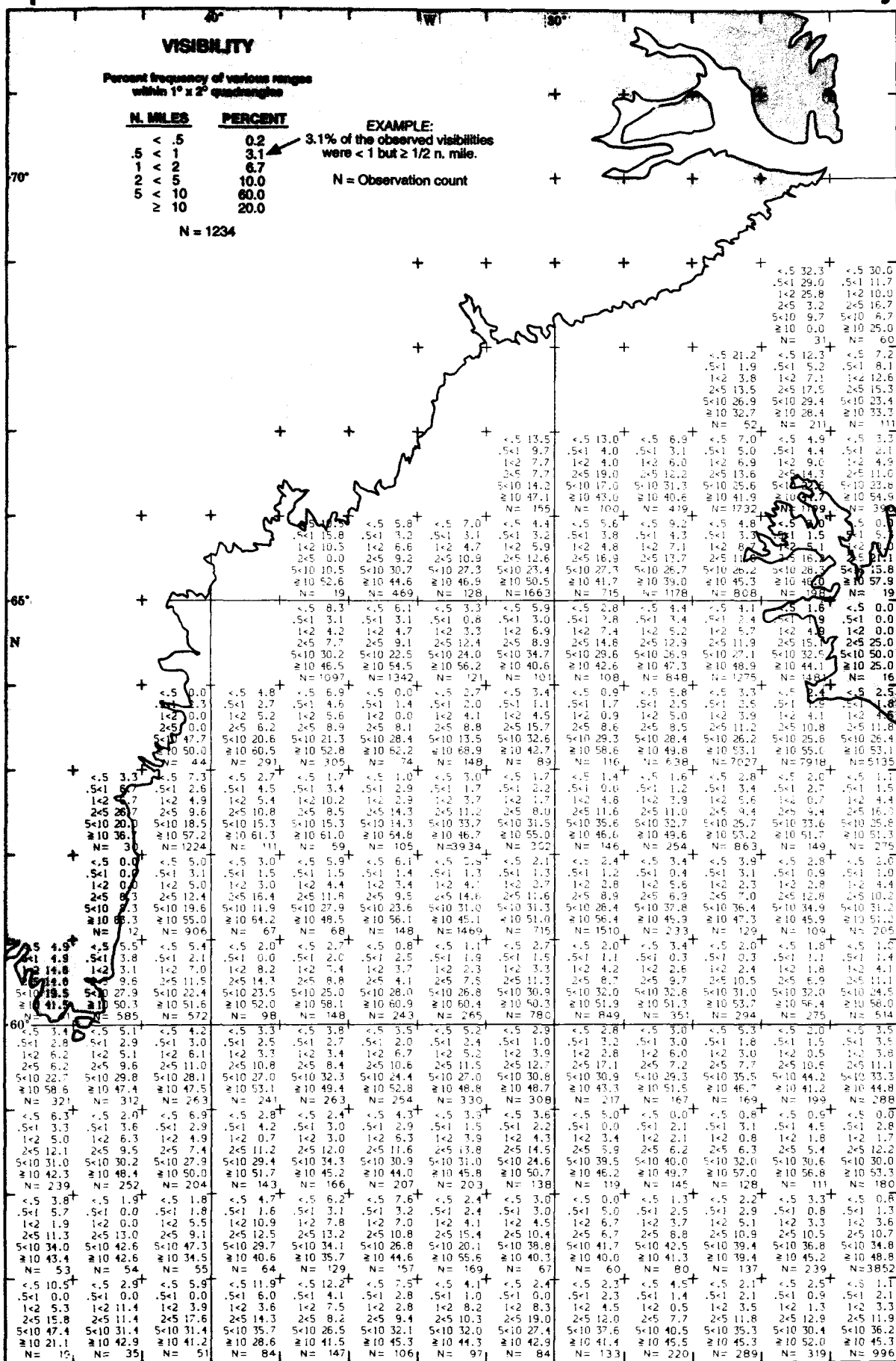
Clouds



April

Precipitation



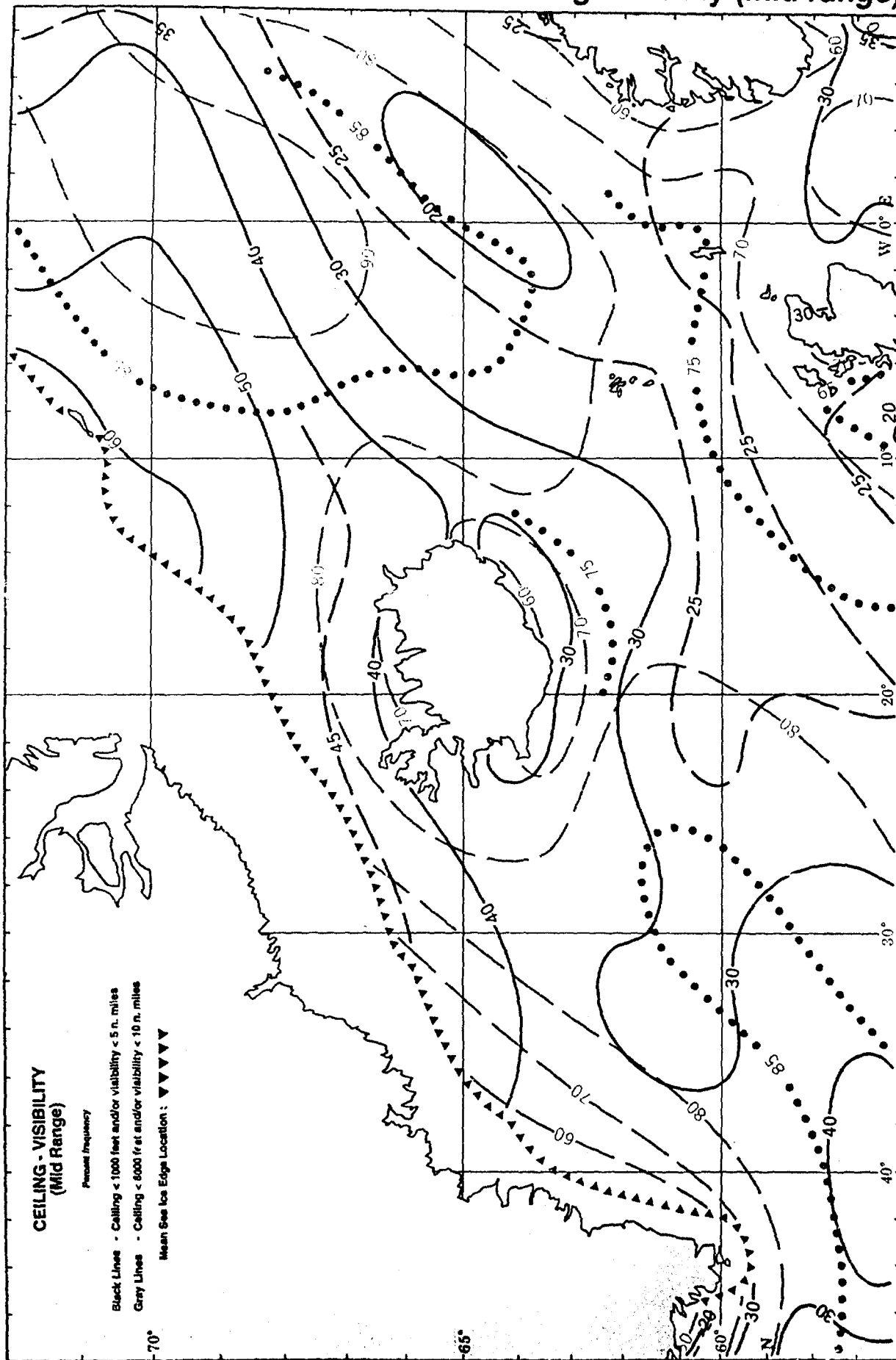


Visibility

65

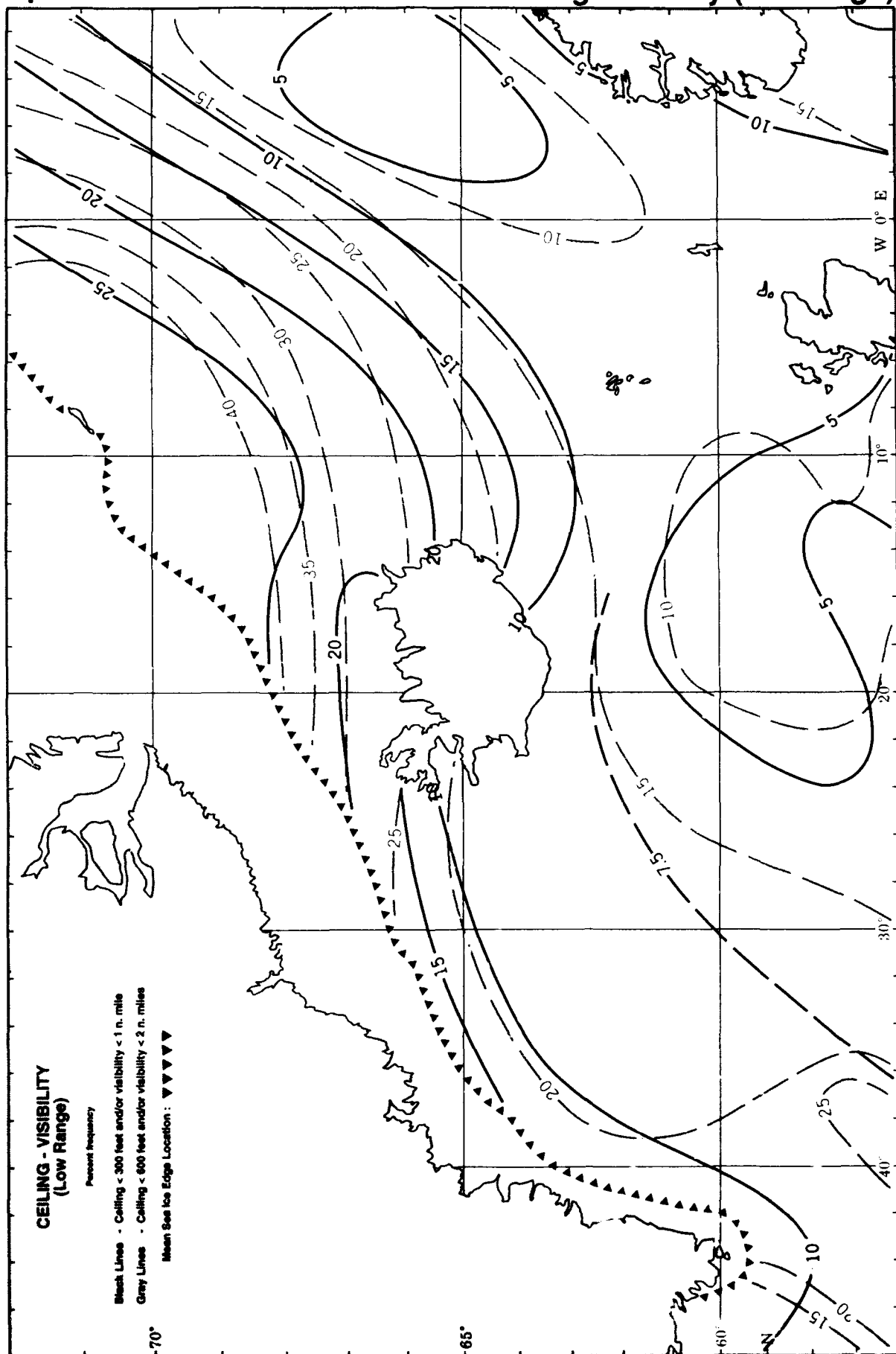
April

Ceiling-Visibility (mid range)



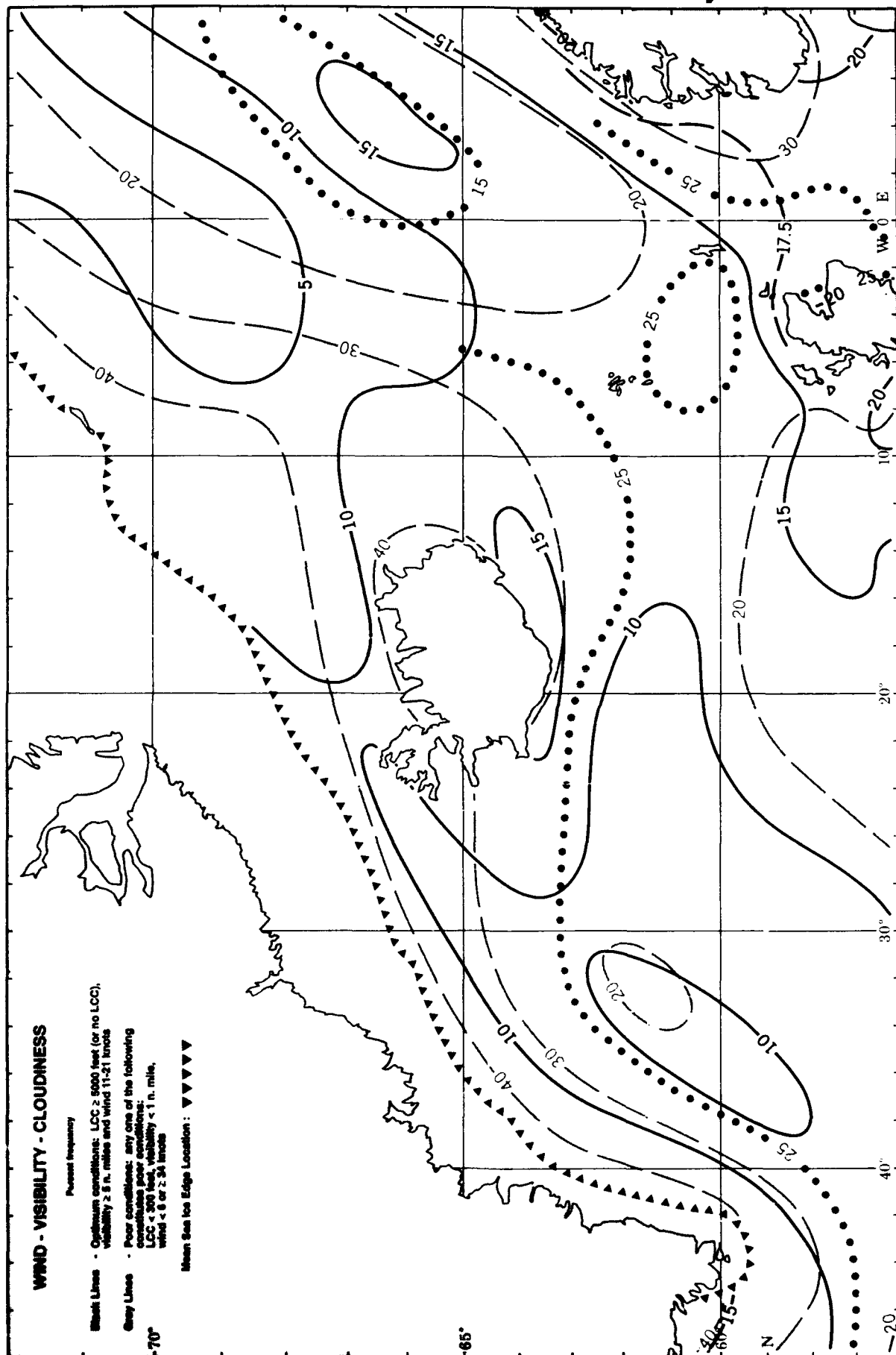
April

Ceiling-Visibility (low range)



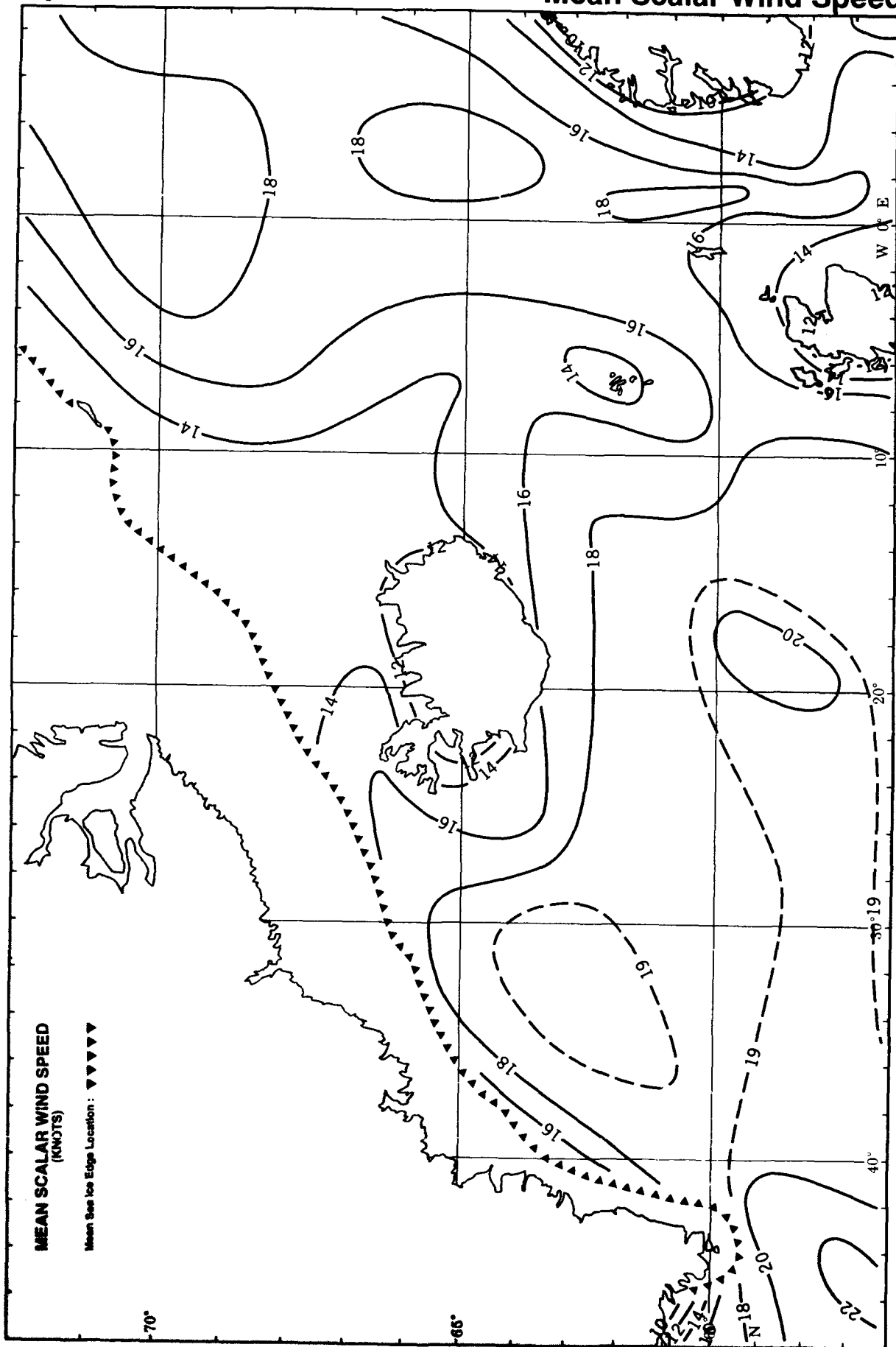
April

Wind-Visibility-Cloudiness



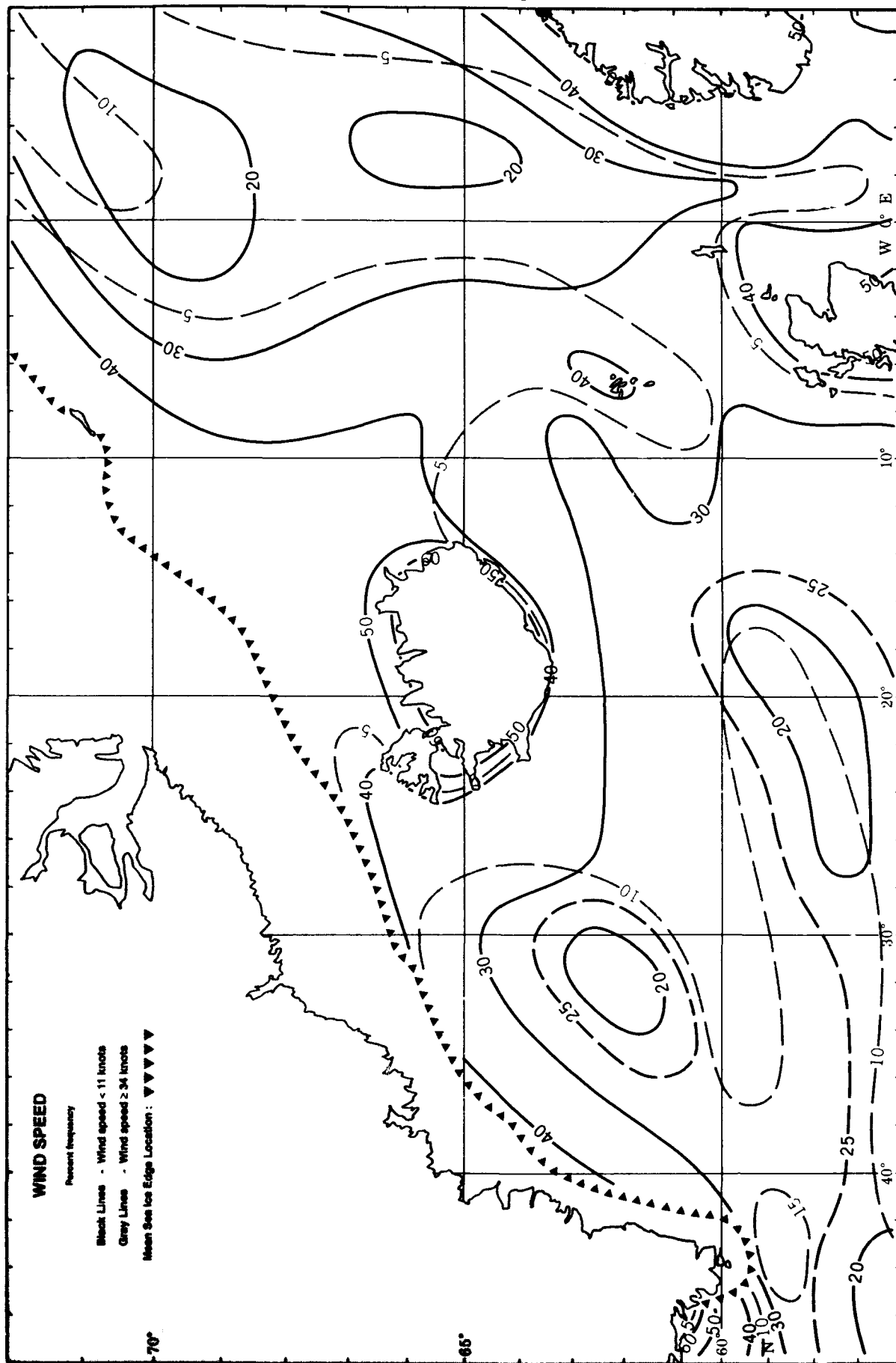
April

Mean Scalar Wind Speed



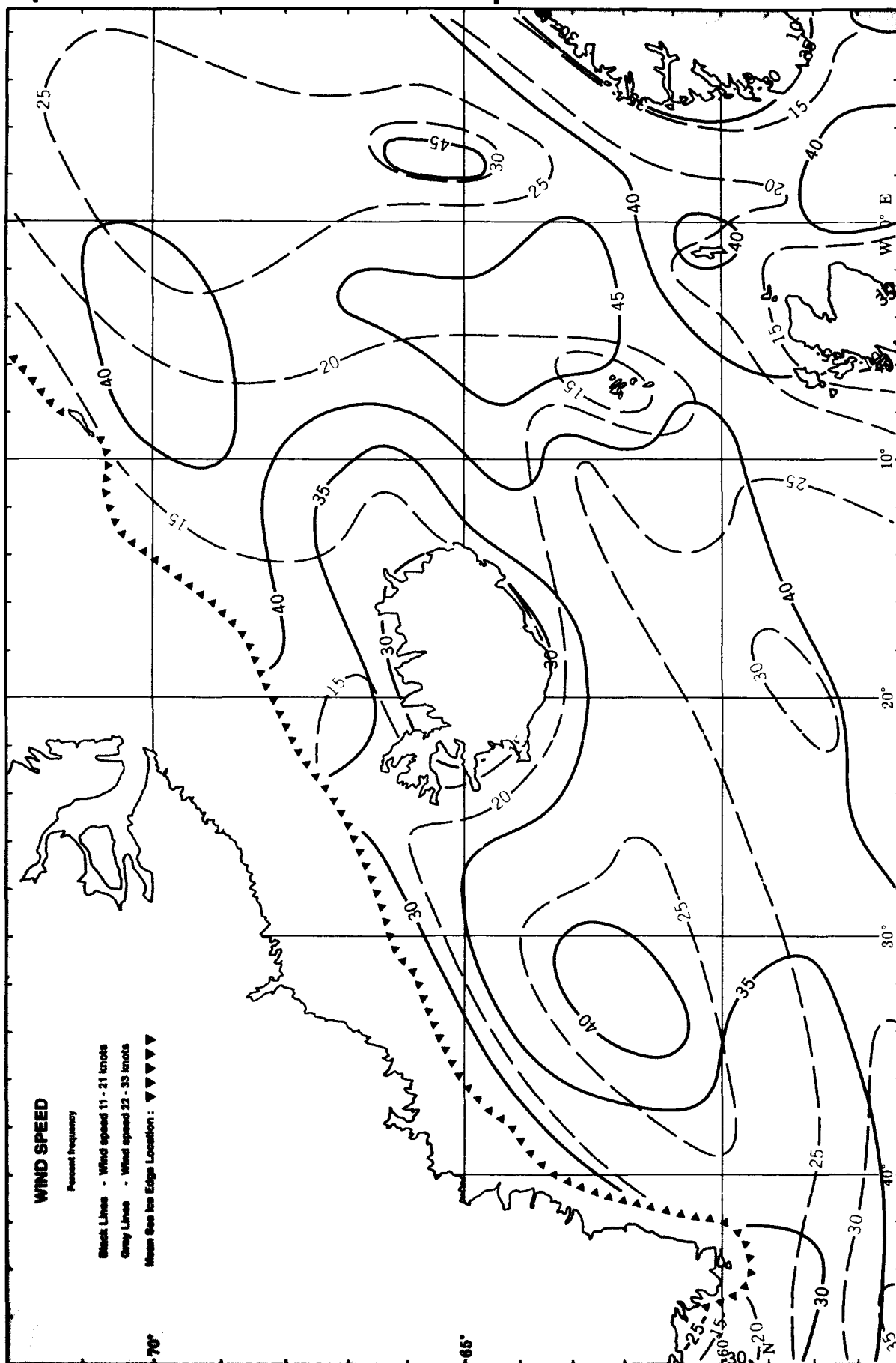
April

Wind Speed < 11 and ≥ 34 Knots



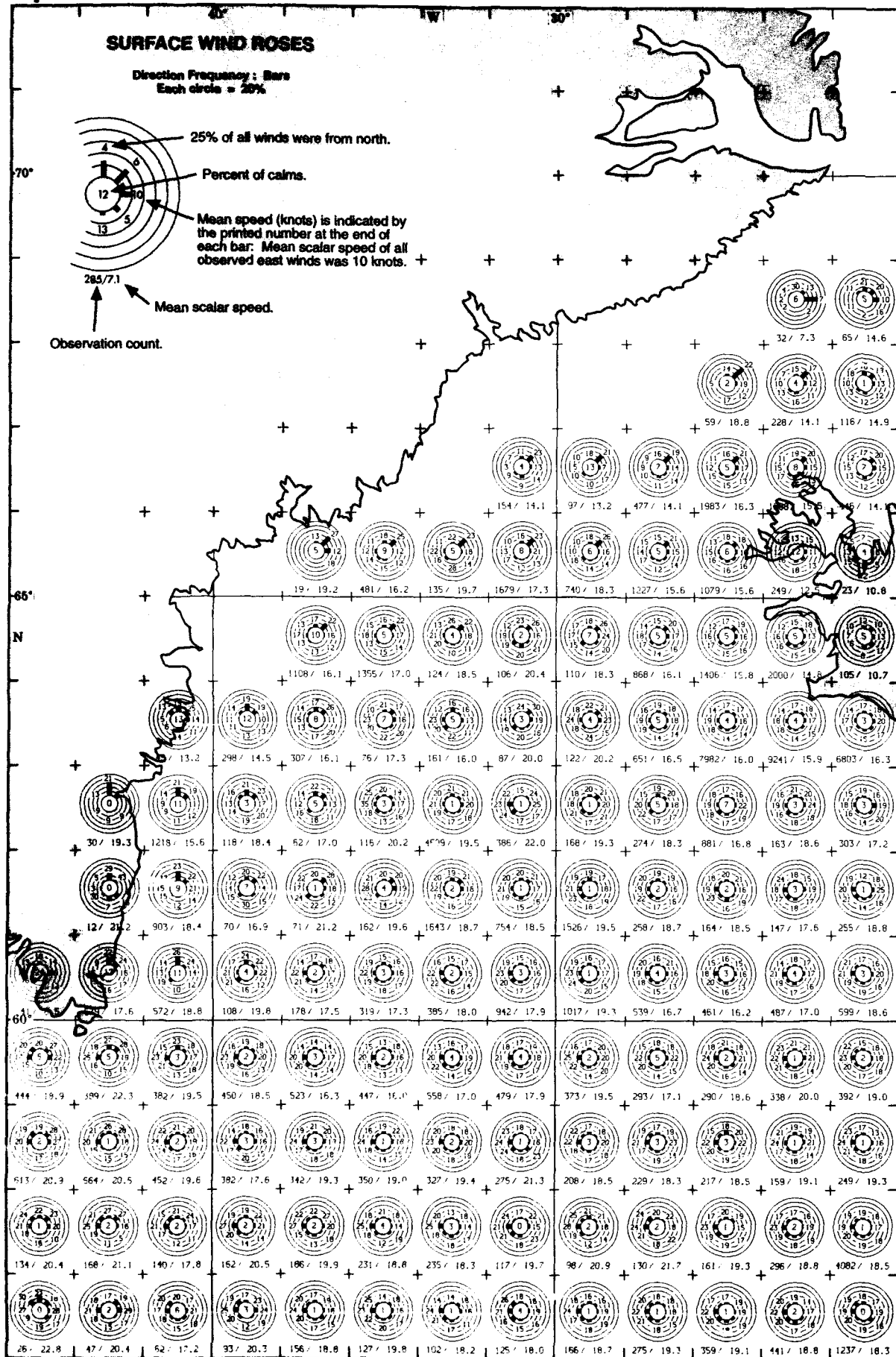
April

Wind Speed 11-21 and 22-33 Knots



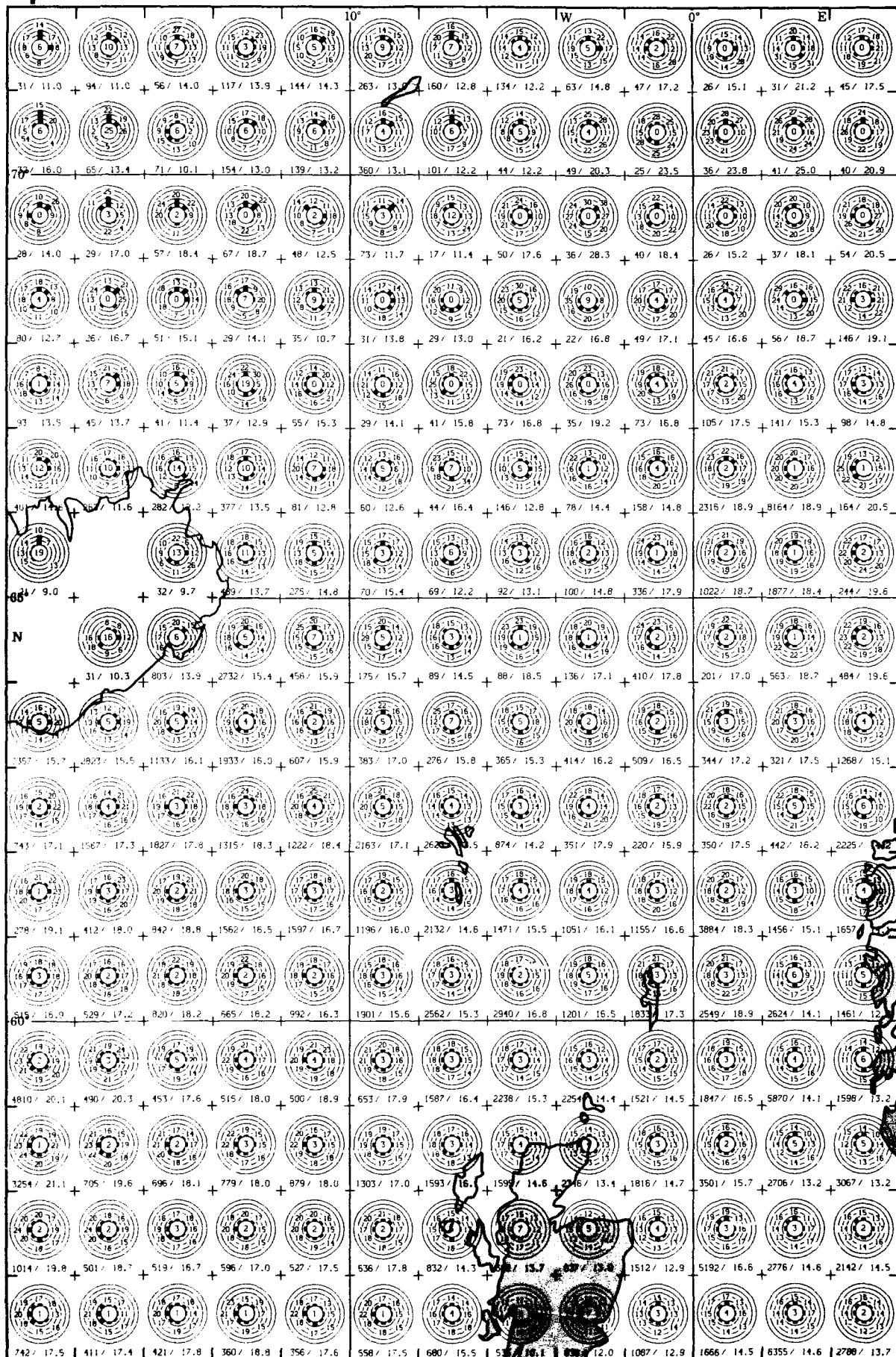
April

Surface Wind Roses



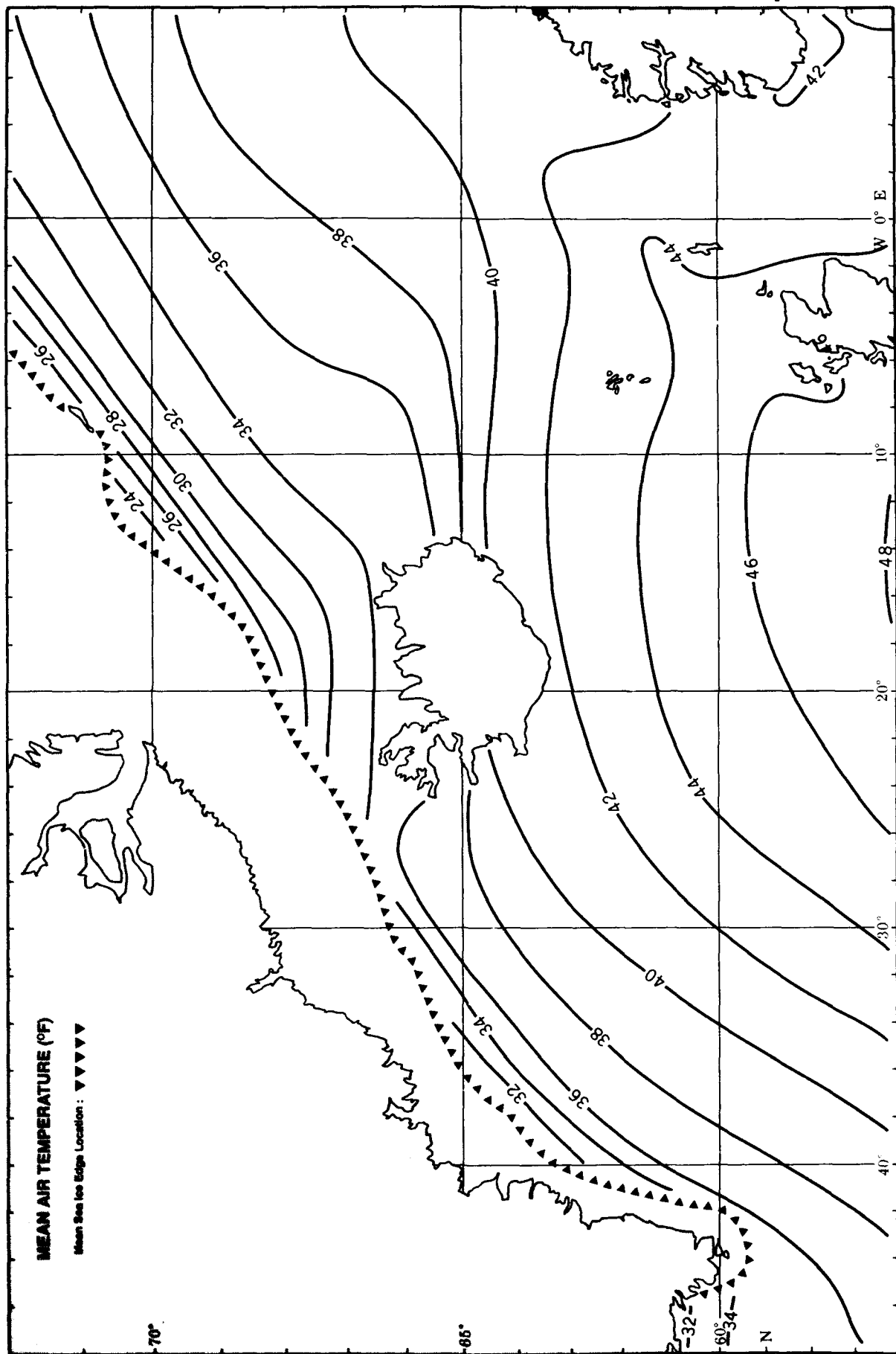
April

Surface Wind Roses



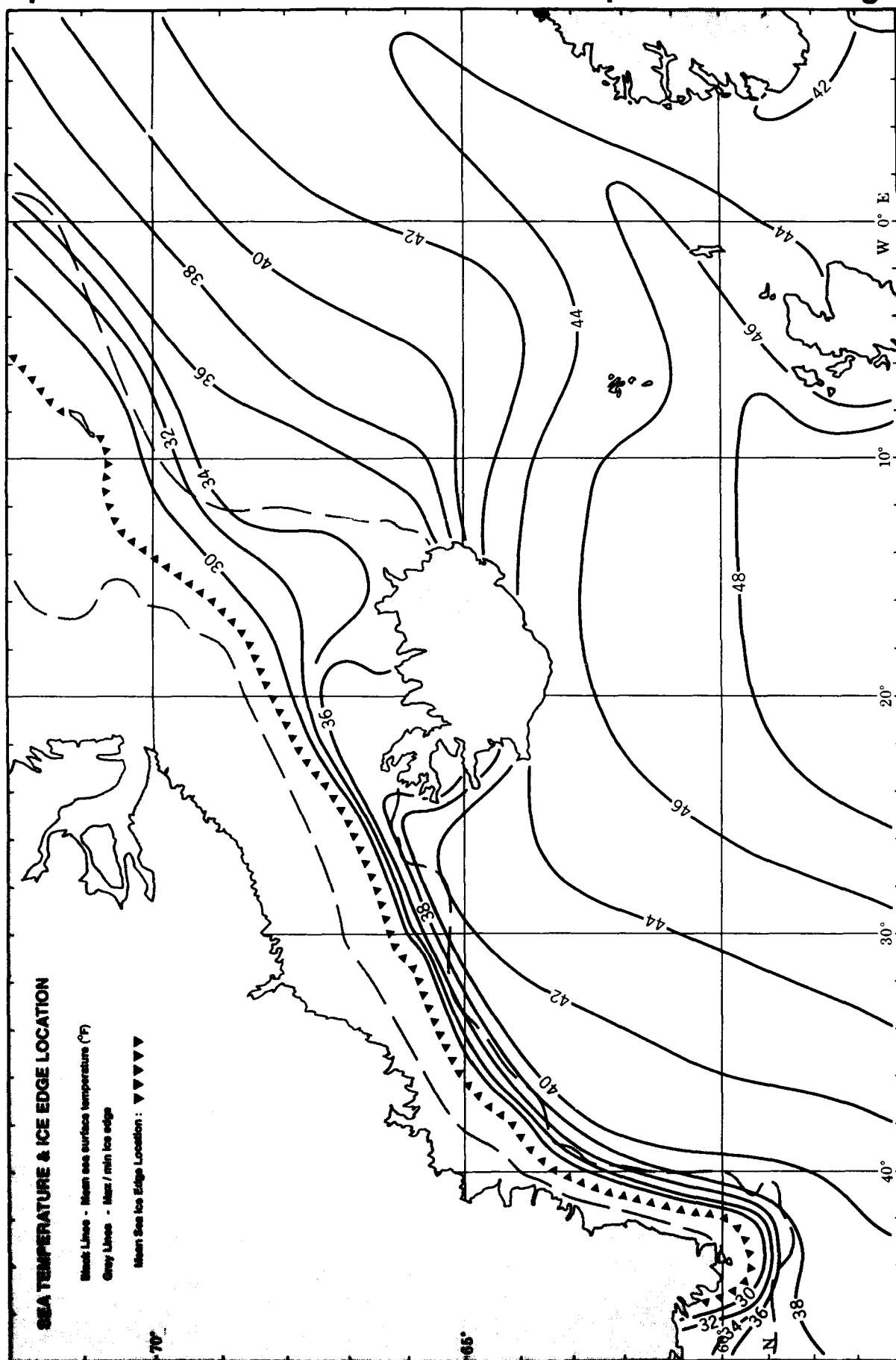
April

Mean Air Temperature



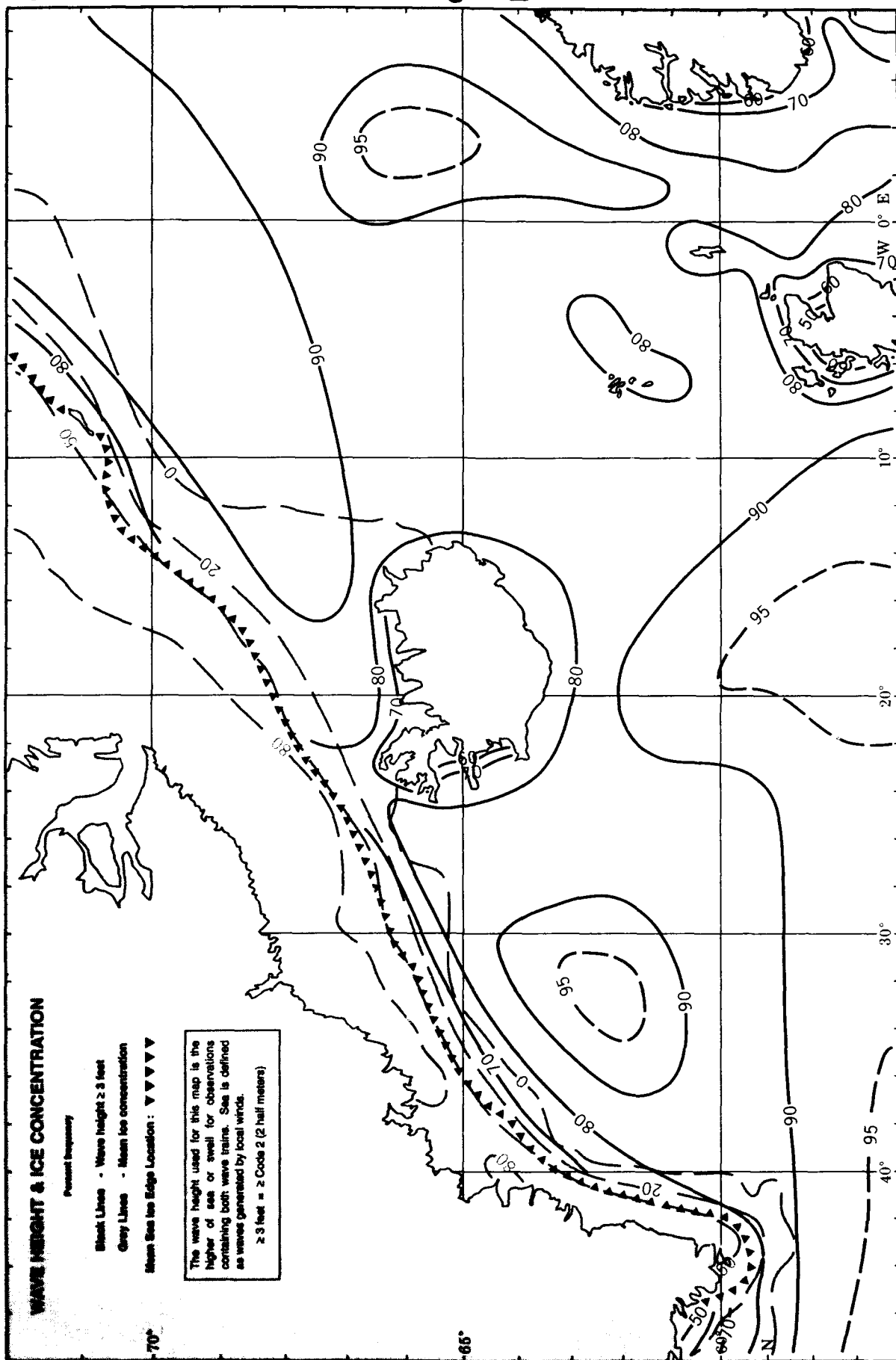
April

Mean Sea Temperature & Ice Edge



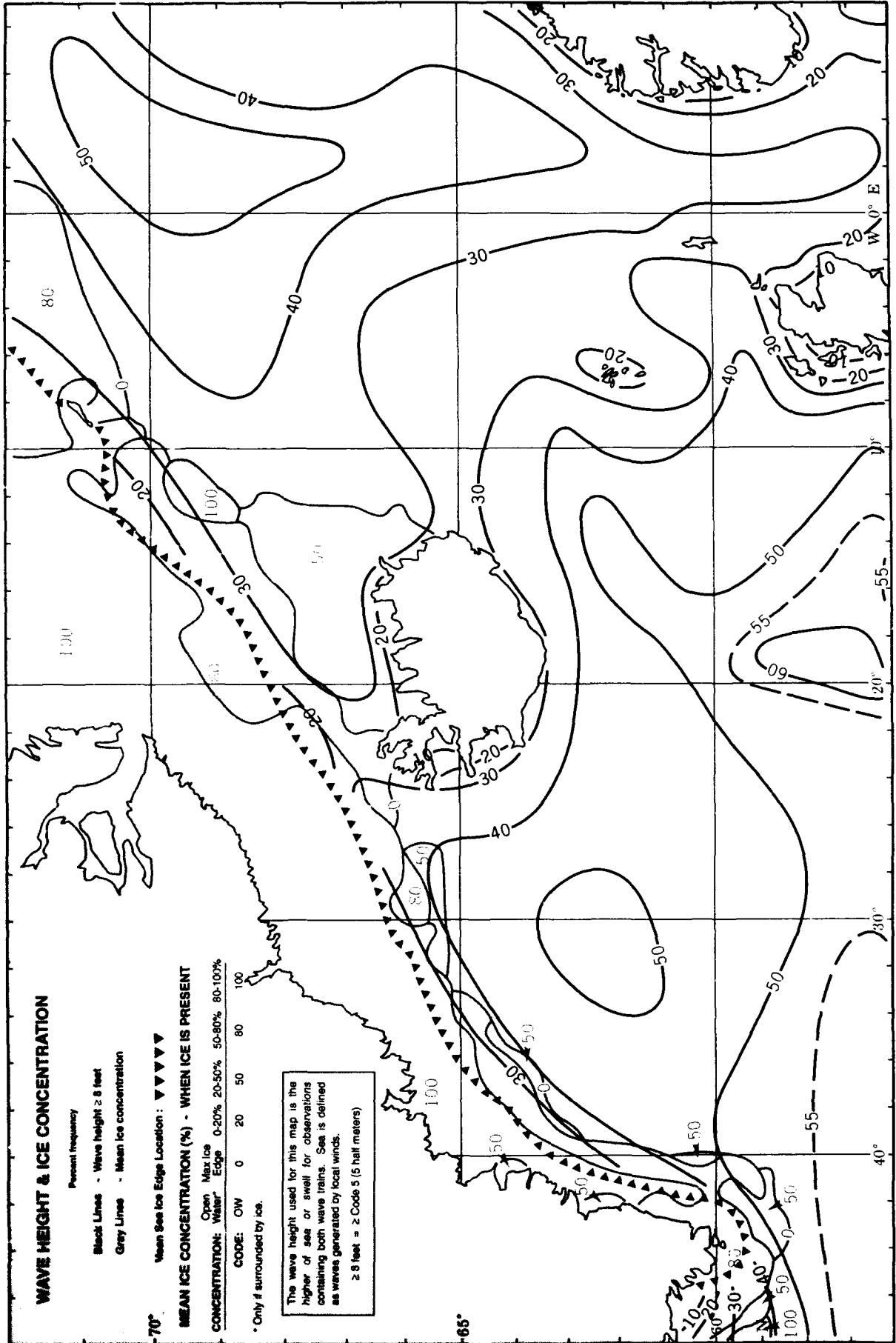
April

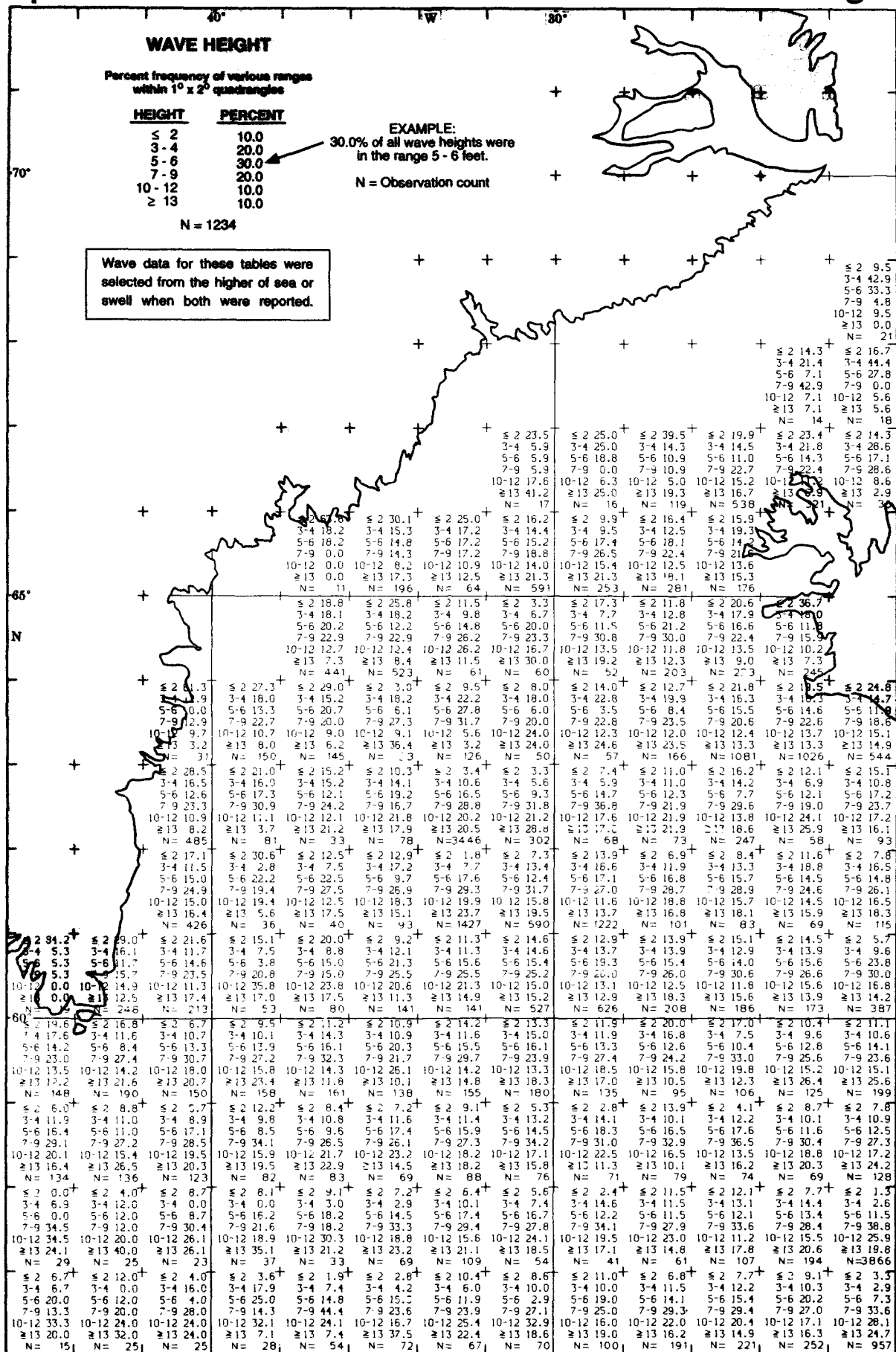
Wave Height ≥ 3 Ft. & Ice Concentration



April

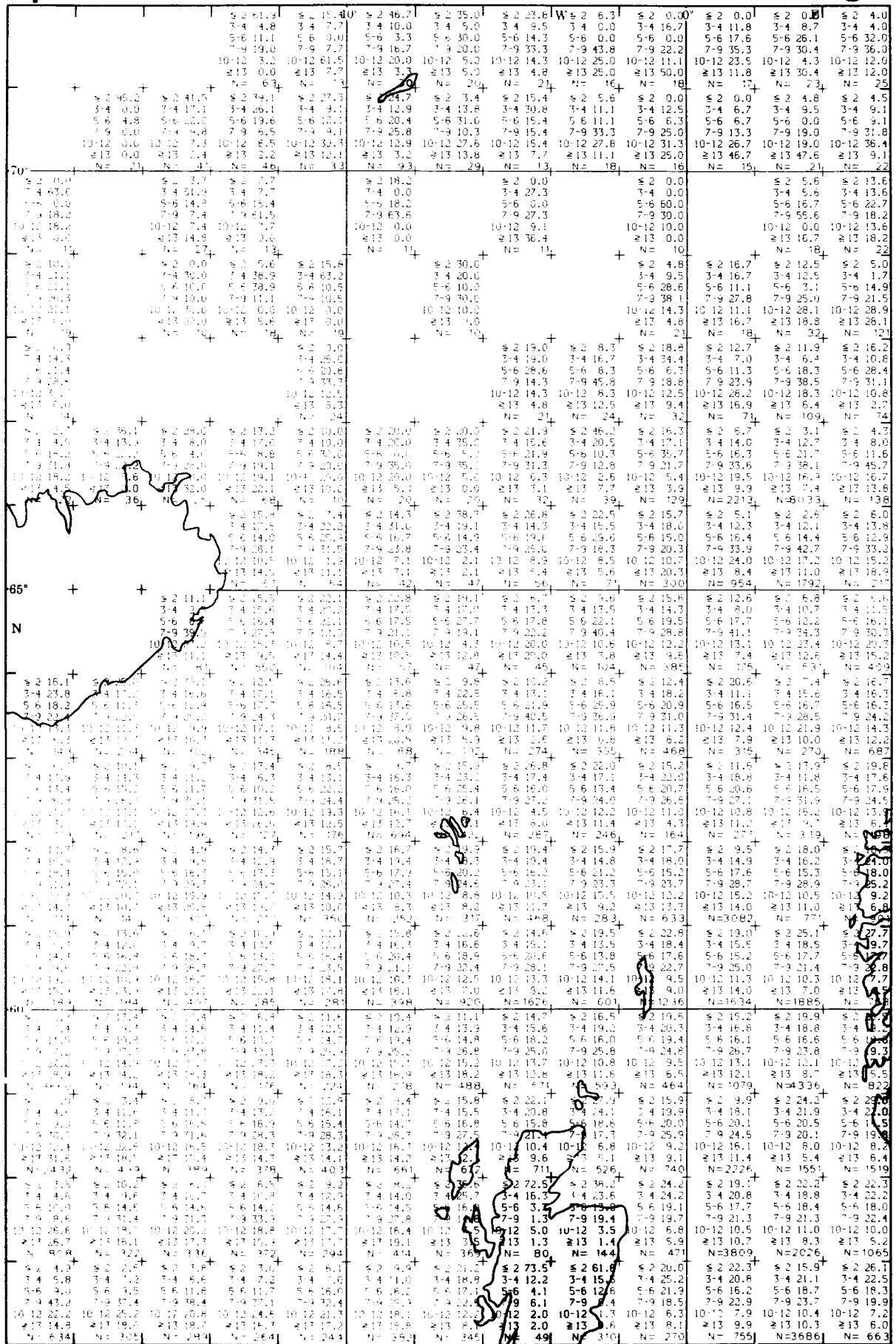
Wave Height ≥ 8 Ft. & Ice Concentration





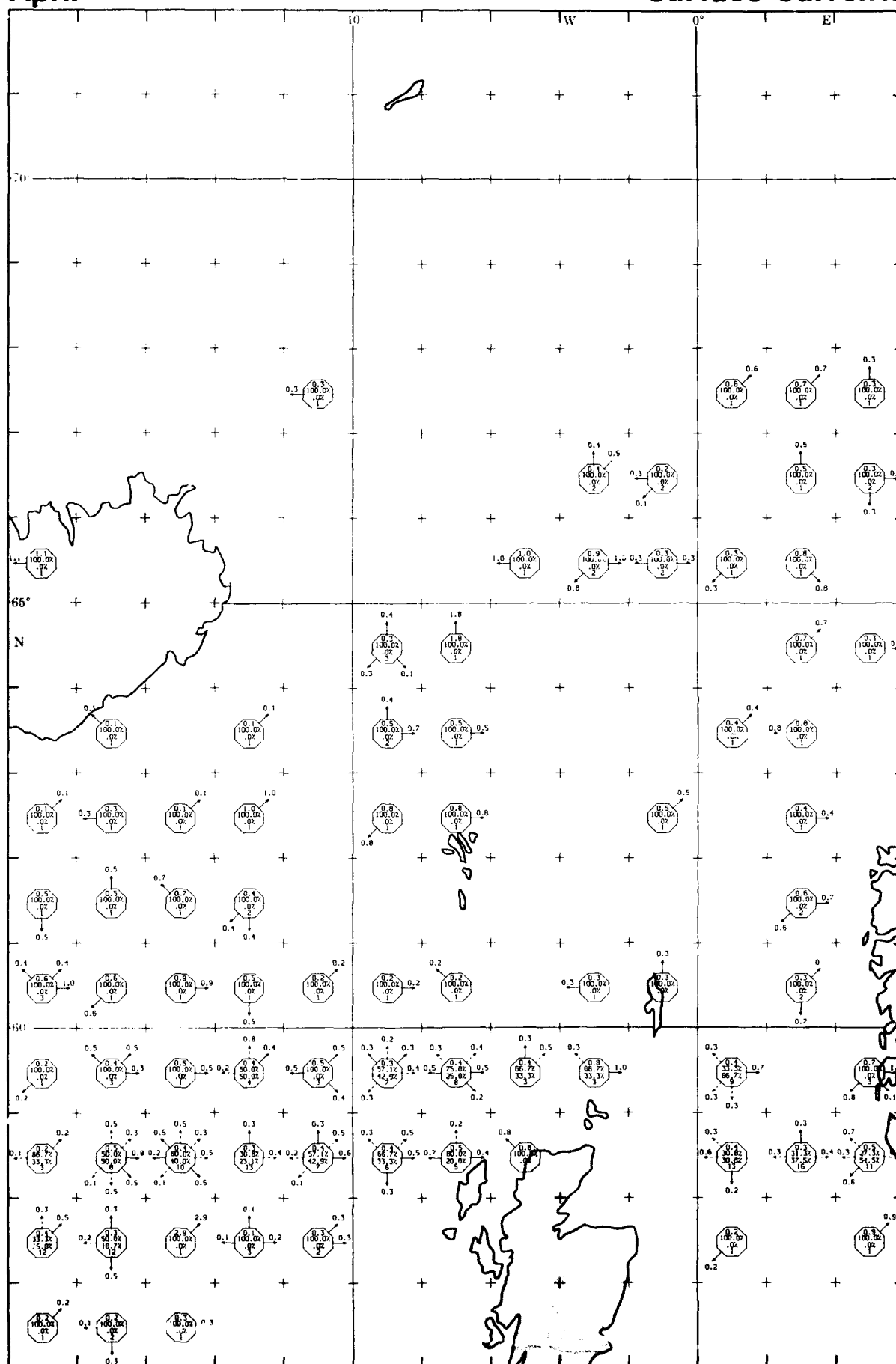
April

Wave Height



April

Surface Currents





Percent frequency

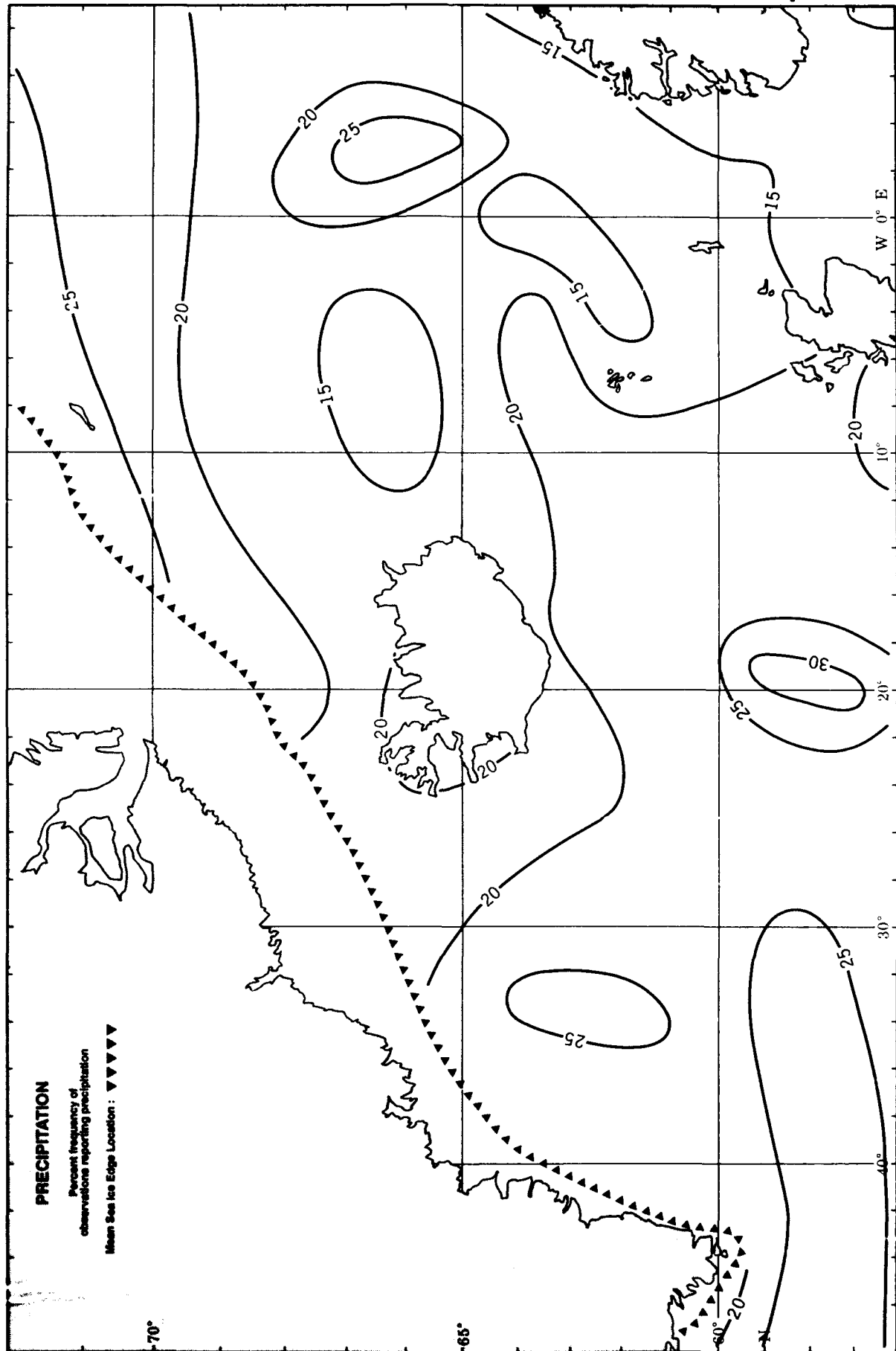
Black Lines - Total cloud amount $\leq 2/8$

Gray Lines - Low cloud amount $\geq 5/8$

Mean Sea Ice Edge Location: $\nabla \nabla \nabla \nabla \nabla$

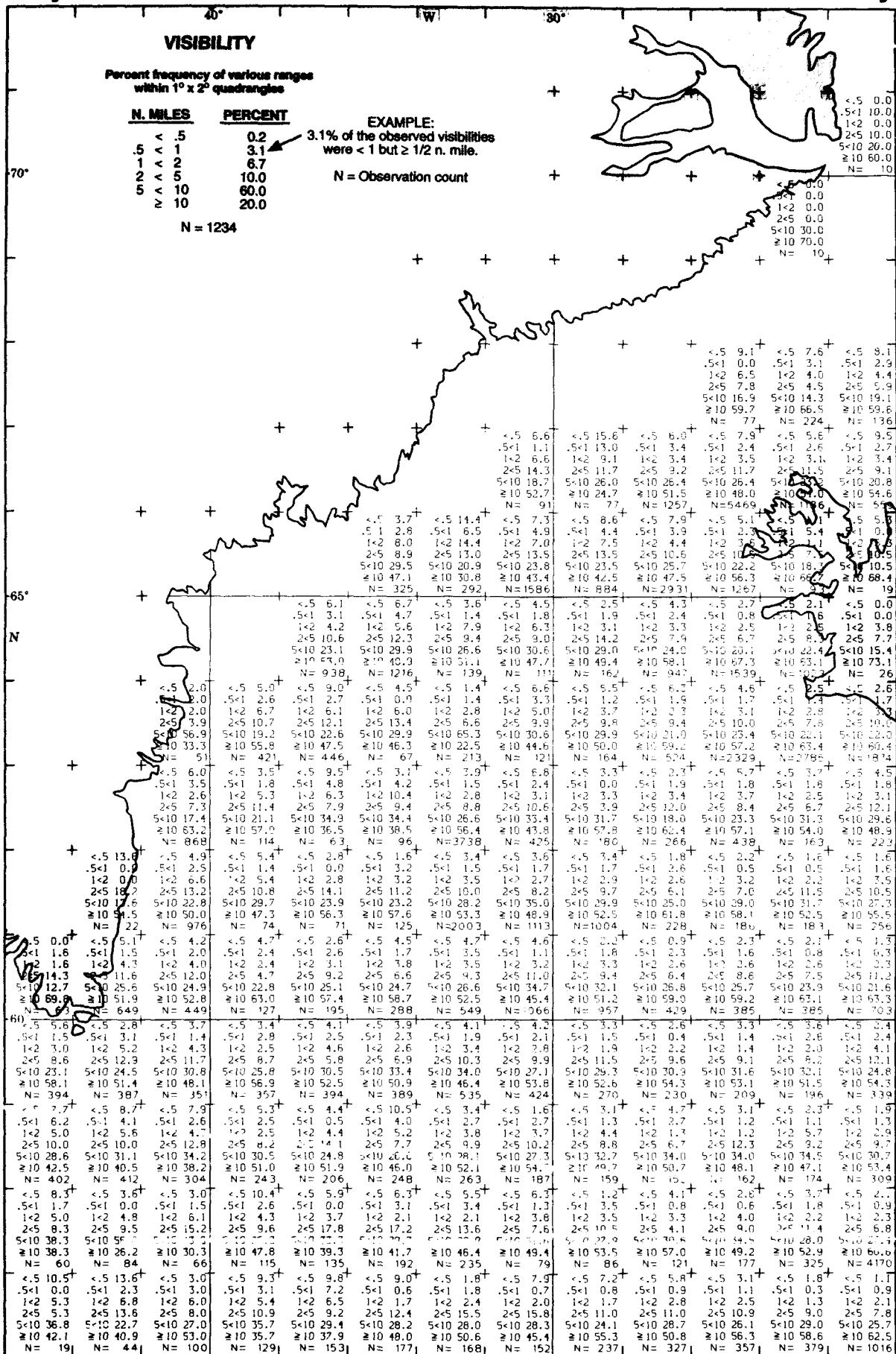
May

Precipitation



May

Visibility

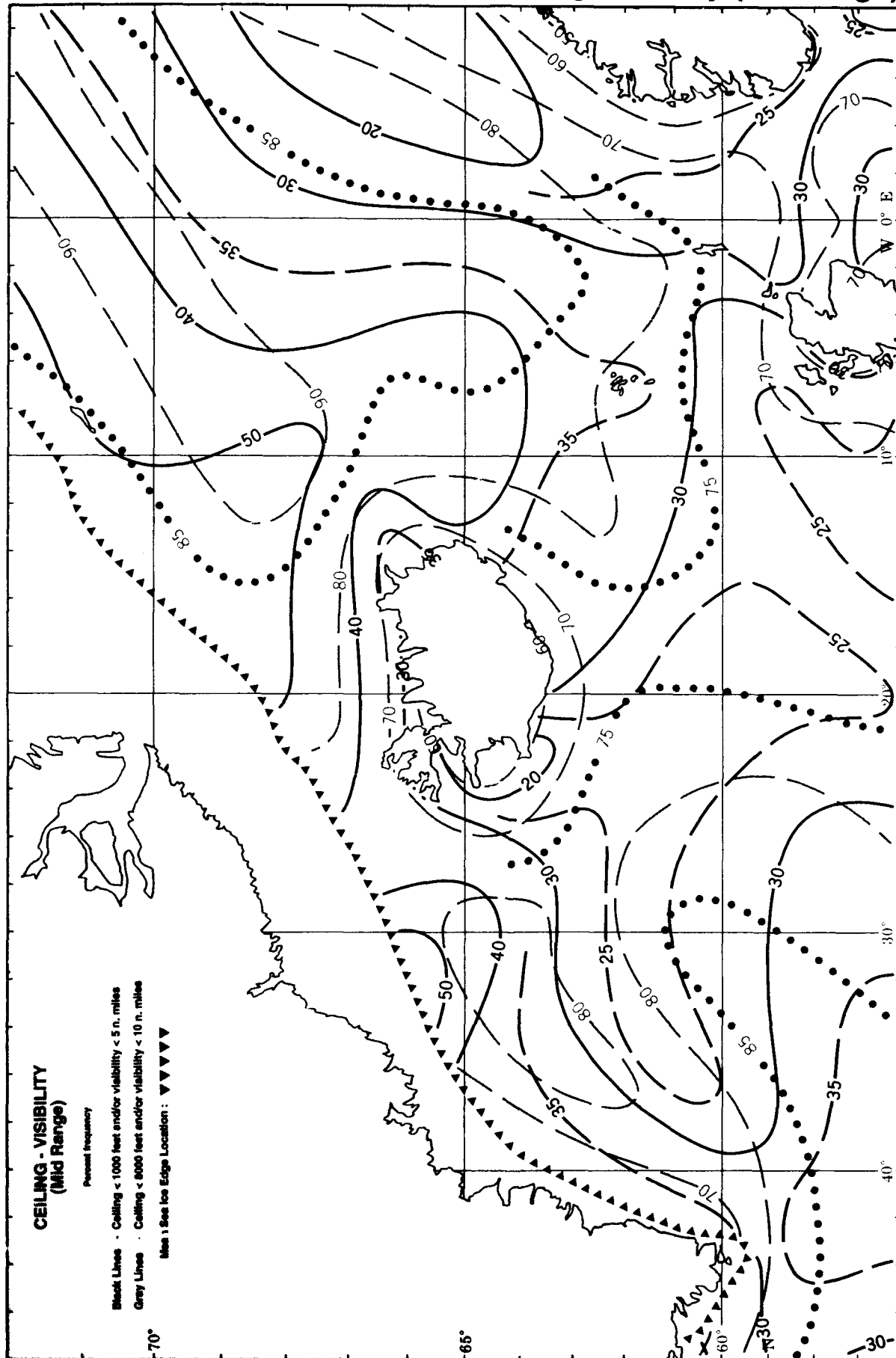


Visibility

85

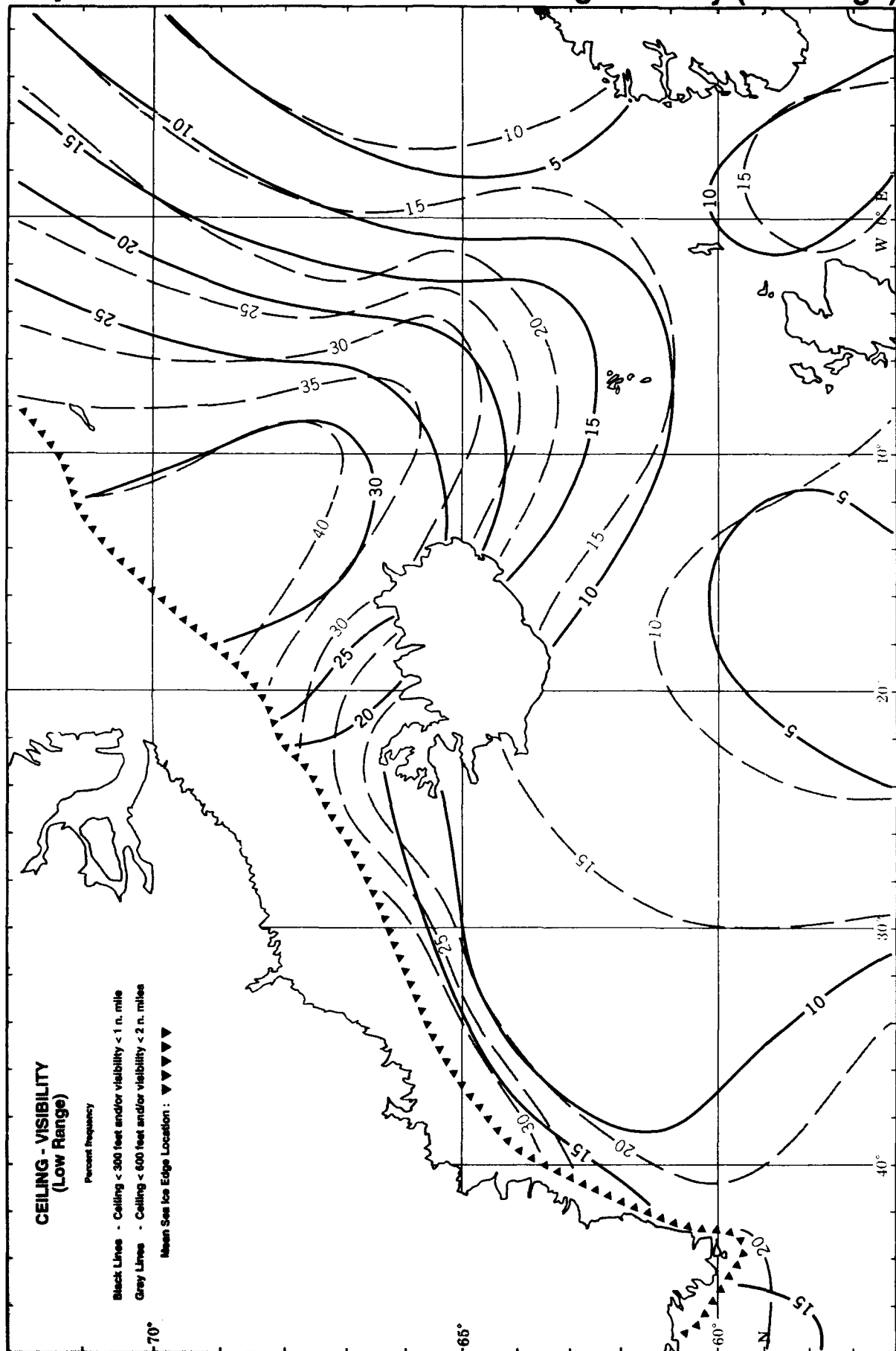
May

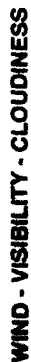
Ceiling-Visibility (mid range)



May

Ceiling-Visibility (low range)





Advertisers' Proof:

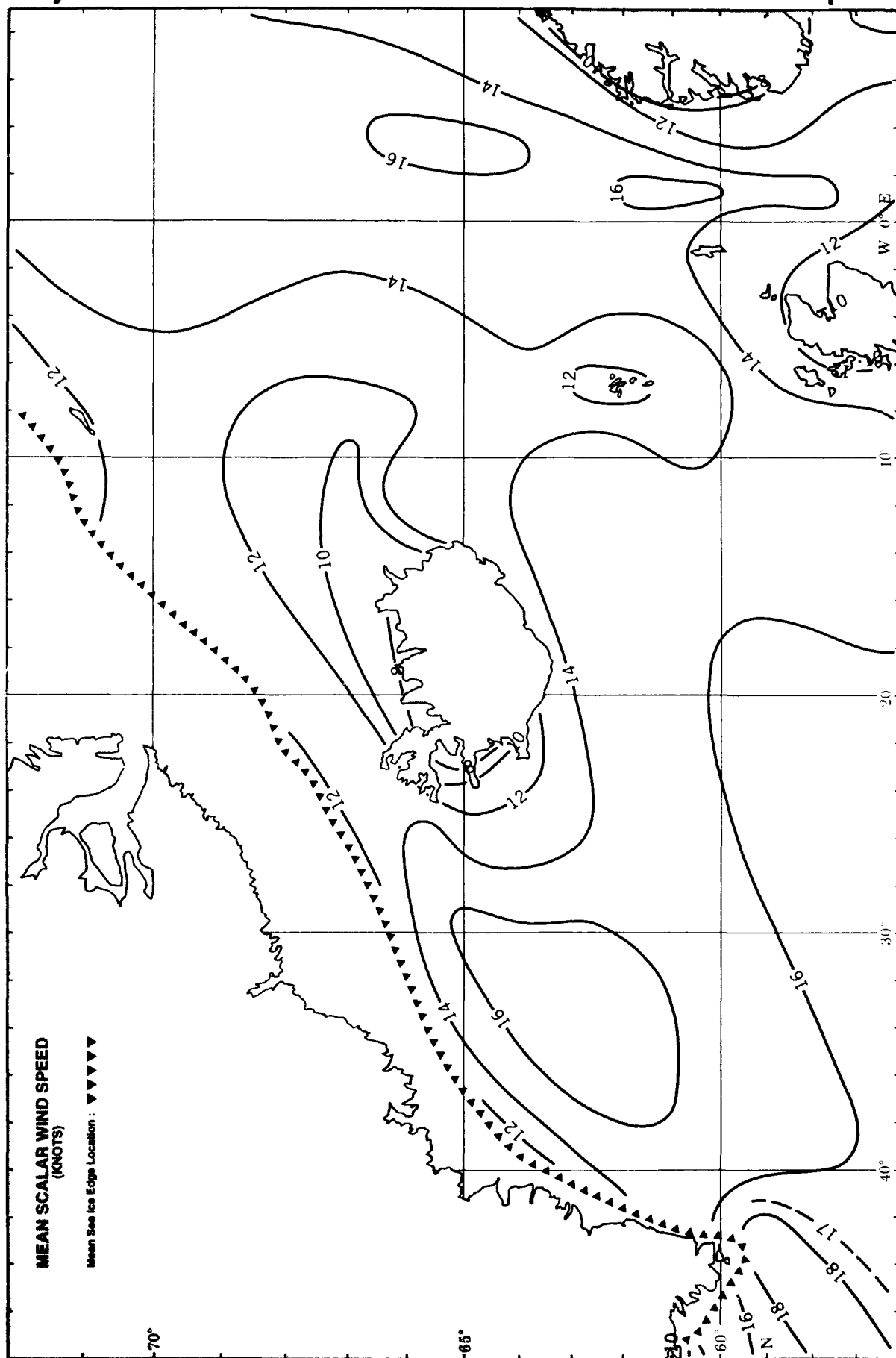
Black Lines - Optimum conditions: LCC $\geq$ 5000 feet (or no LCC), visibility $\geq$ 5 n. miles and wind 11-21 knots

- **Poor conditions:** any one of the following constitutes poor conditions:
LCC < 300 feet, visibility < 1 n. mile,
wind < 6 or ≥ 34 knots

Mean Sea Ice Edge Location: $\nabla \nabla \nabla \nabla \nabla$

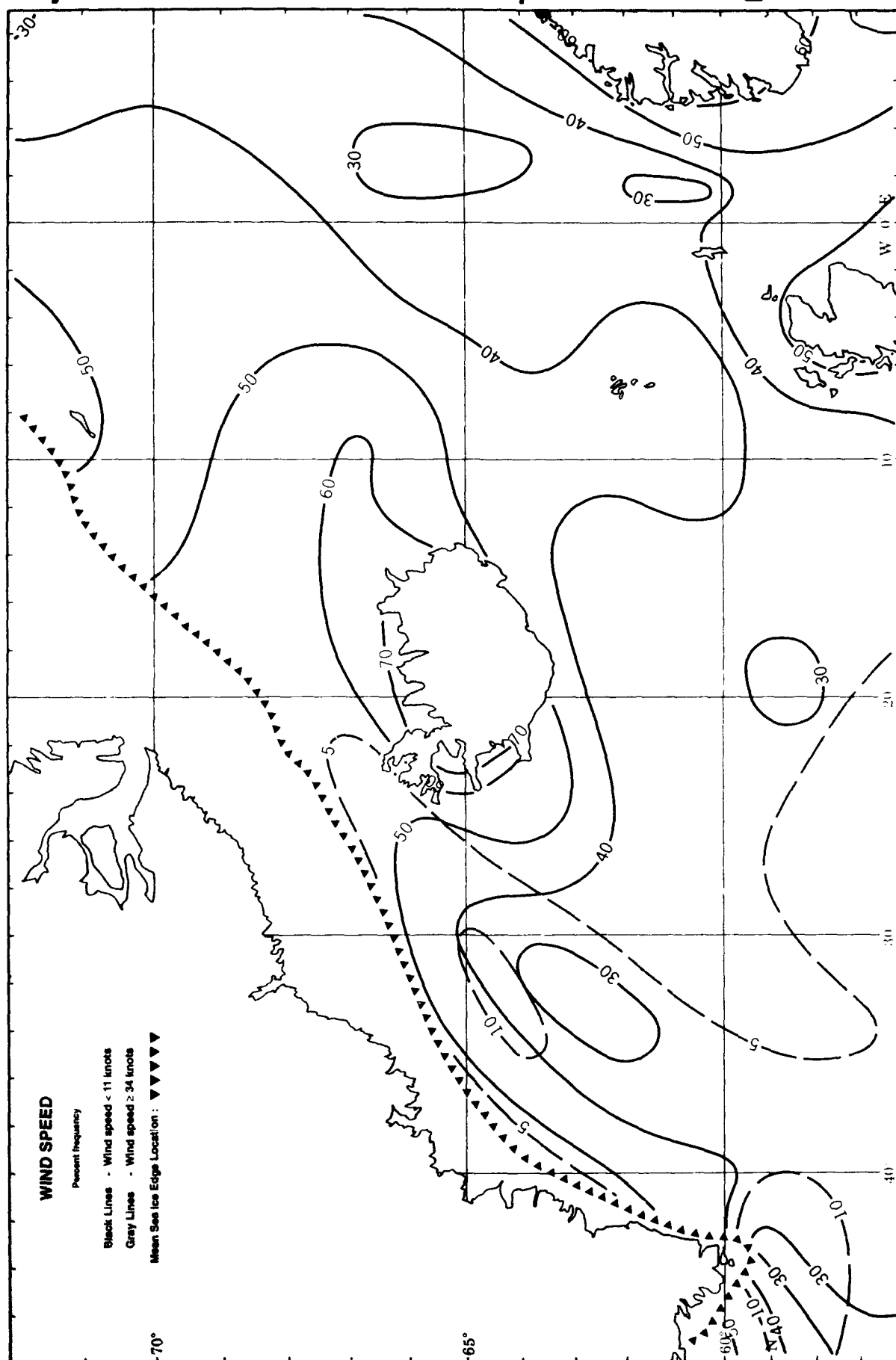
May

Mean Scalar Wind Speed



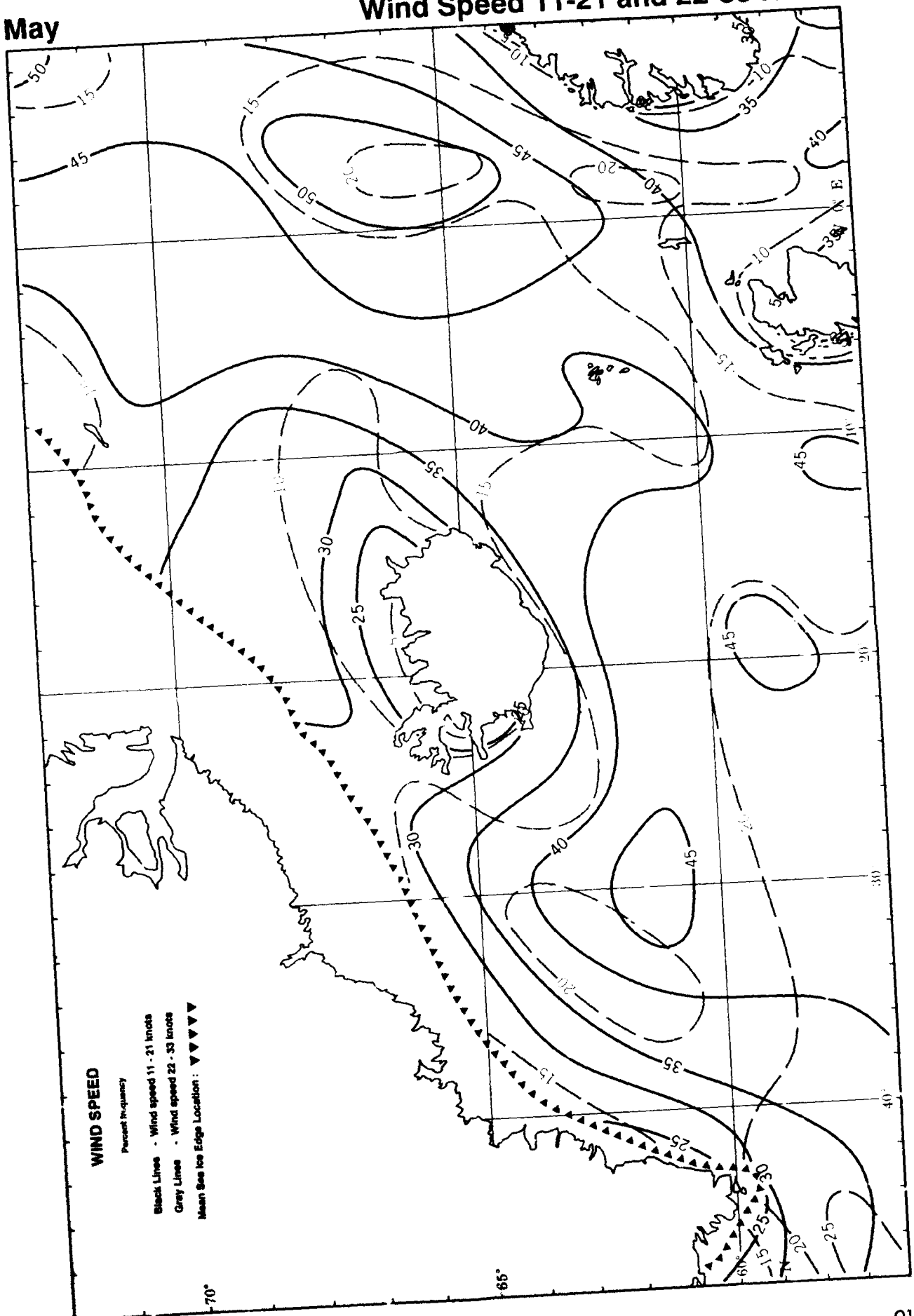
May

Wind Speed < 11 and ≥ 34 Knots



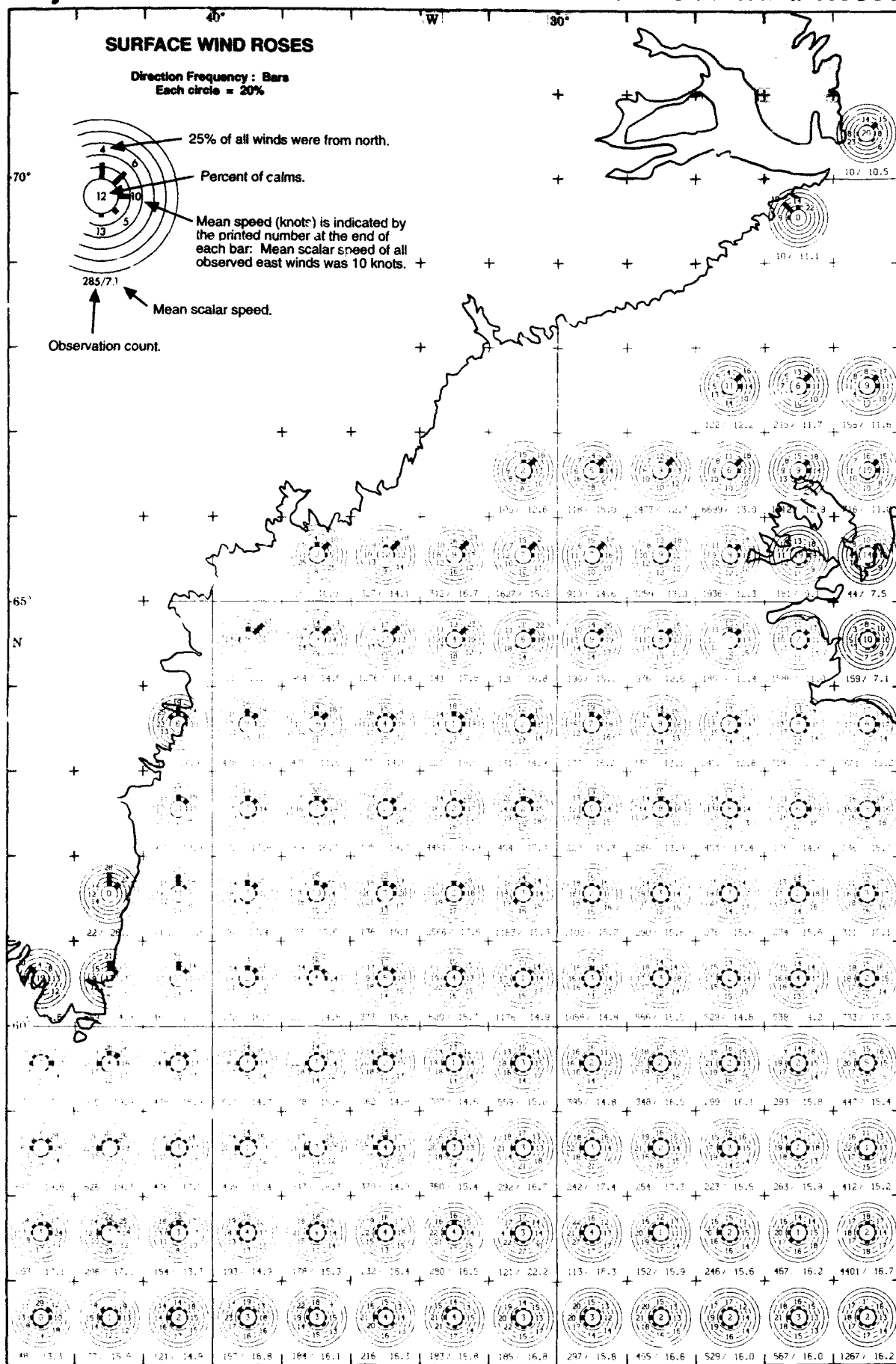
Wind Speed 11-21 and 22-33 Knots

May



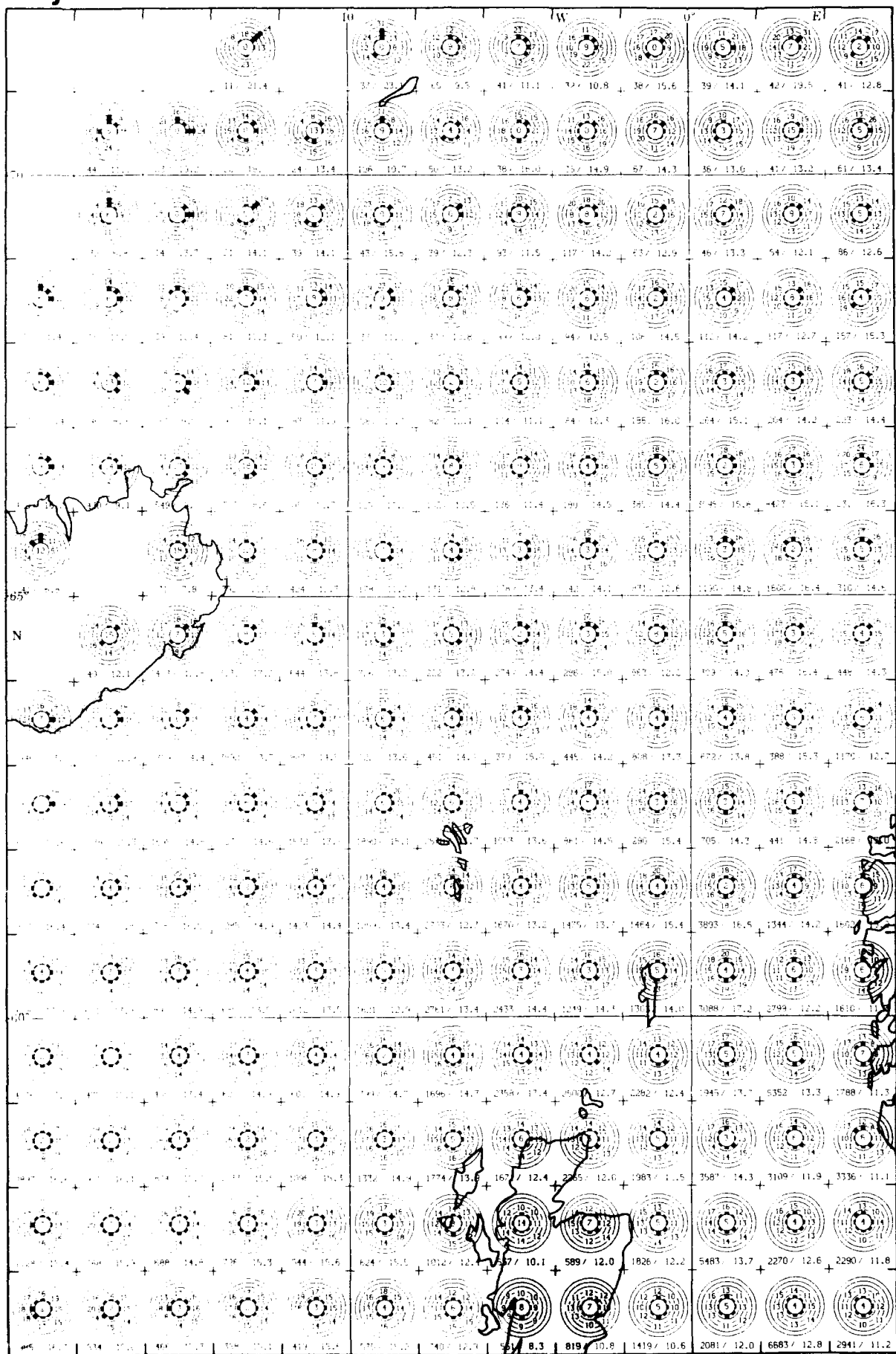
May

Surface Wind Roses



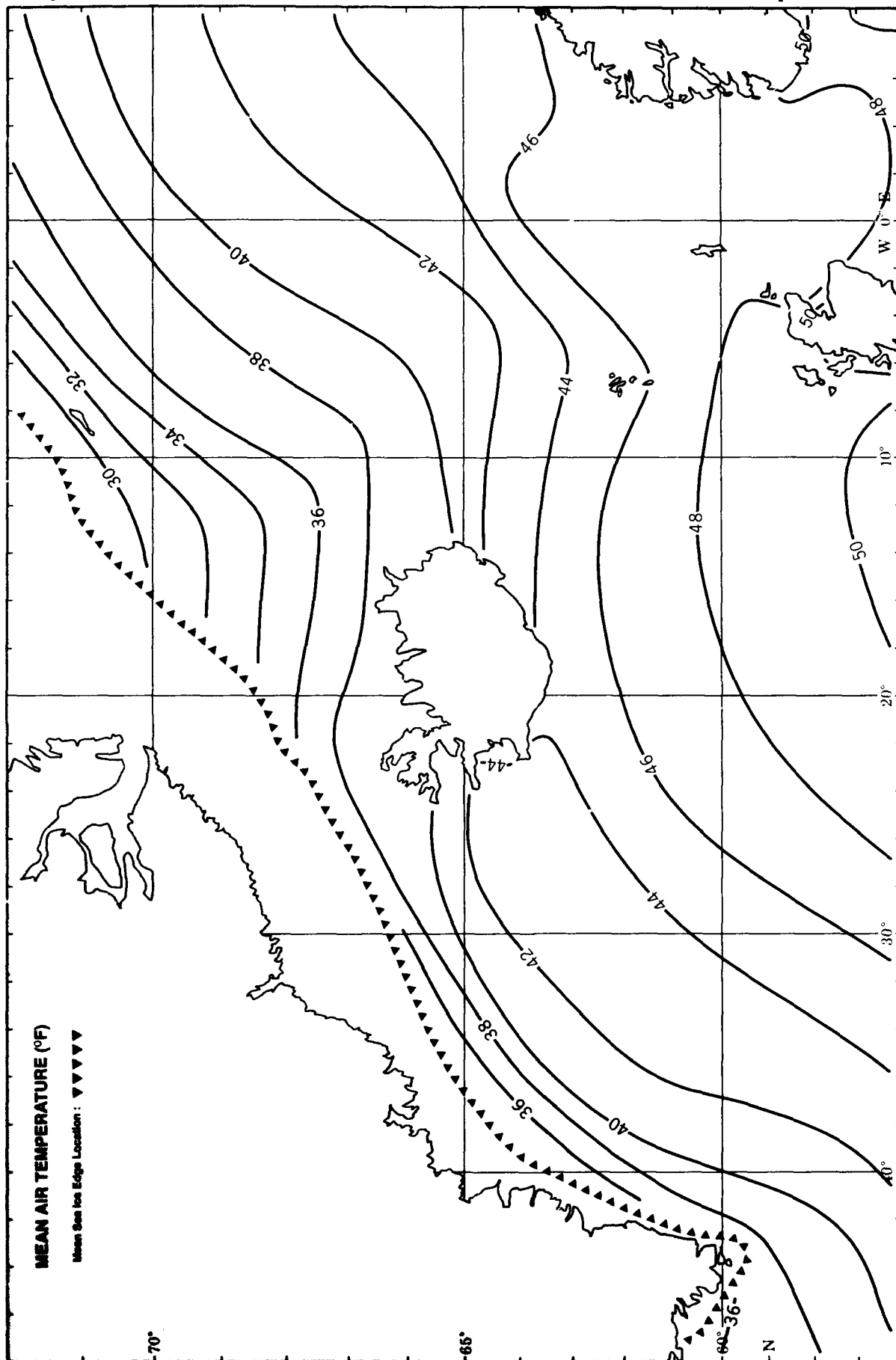
May

Surface Wind Roses



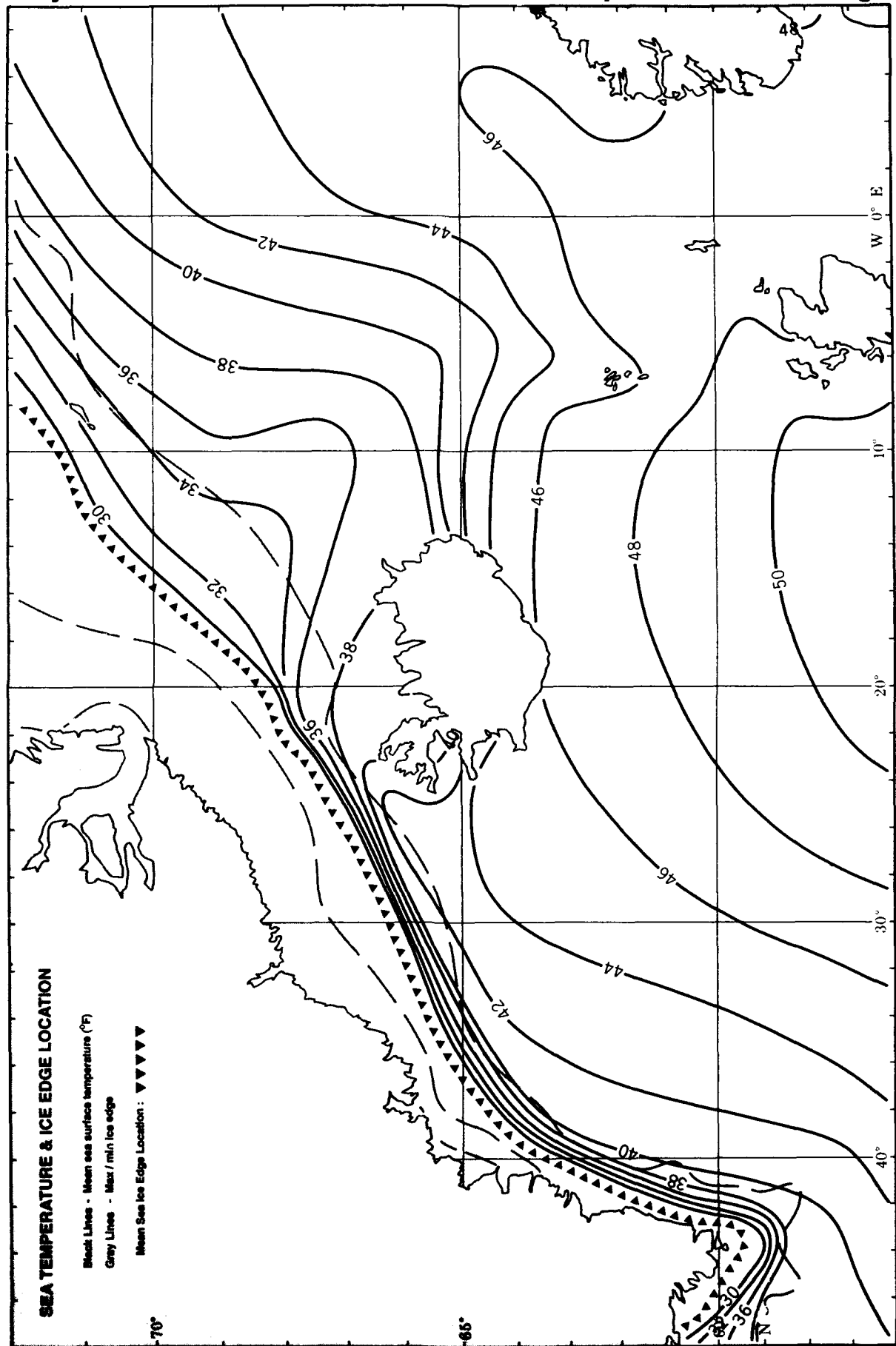
May

Mean Air Temperature



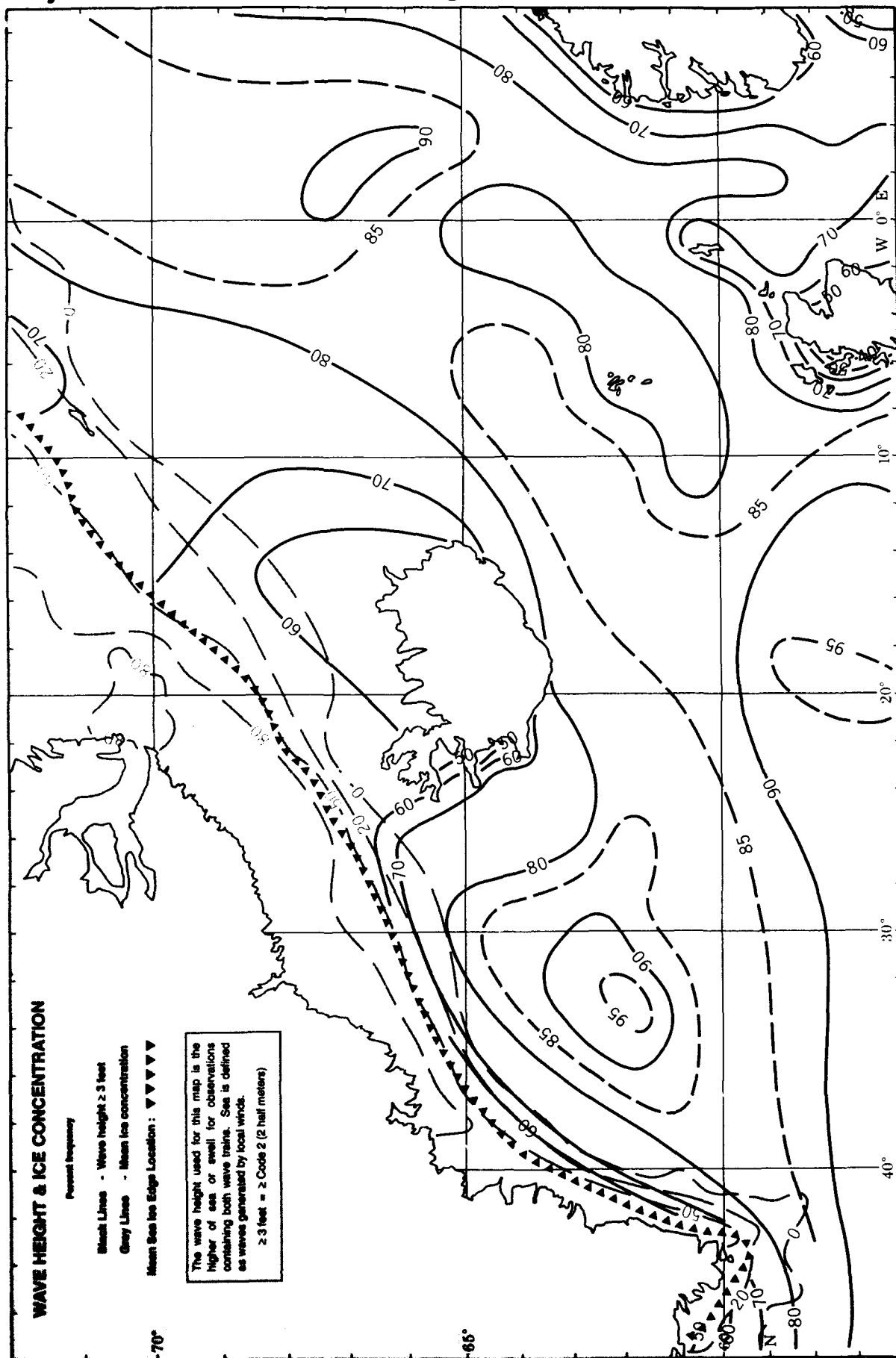
May

Mean Sea Temperature & Ice Edge



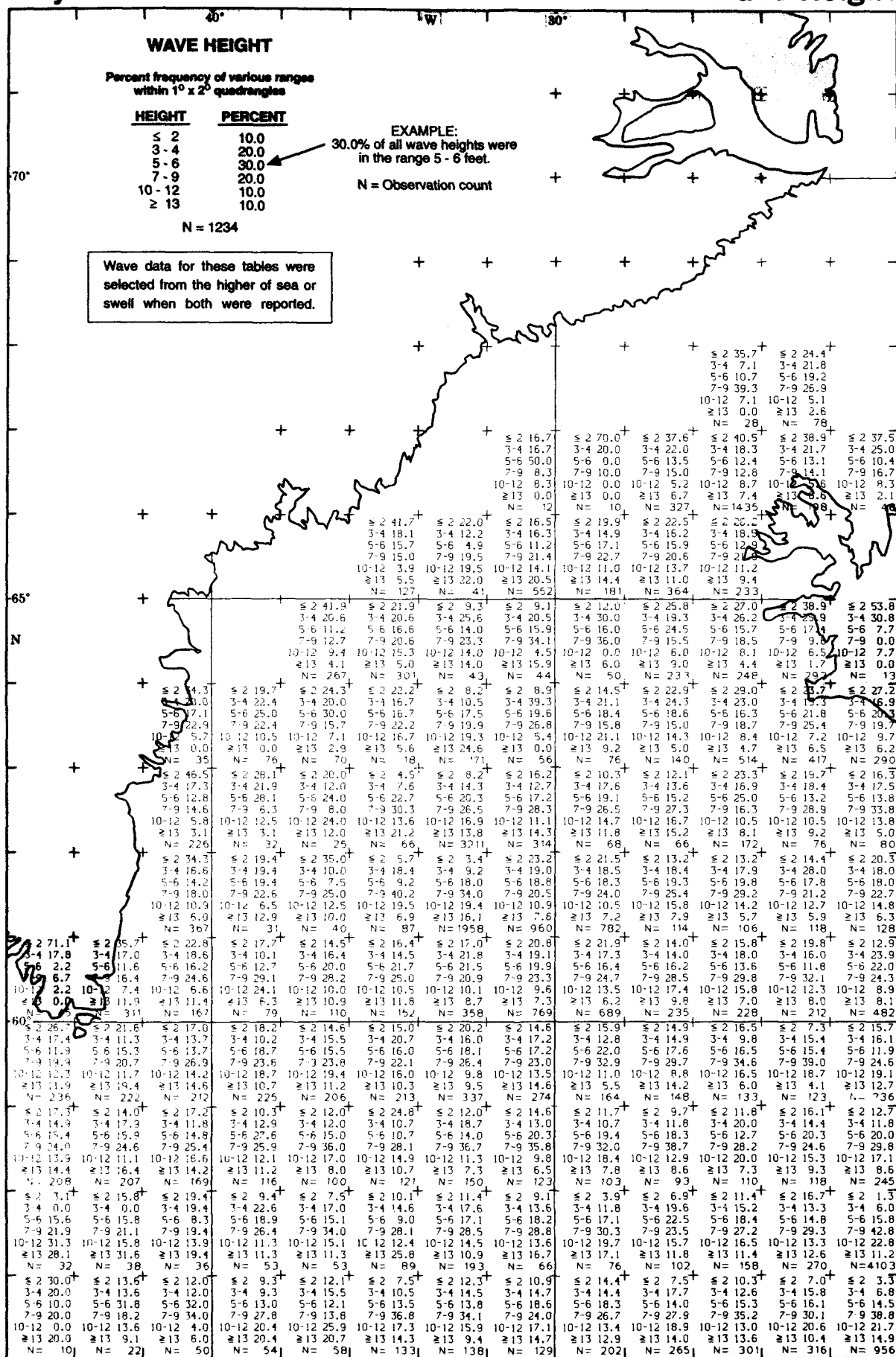
May

Wave Height ≥ 3 Ft. & Ice Concentration



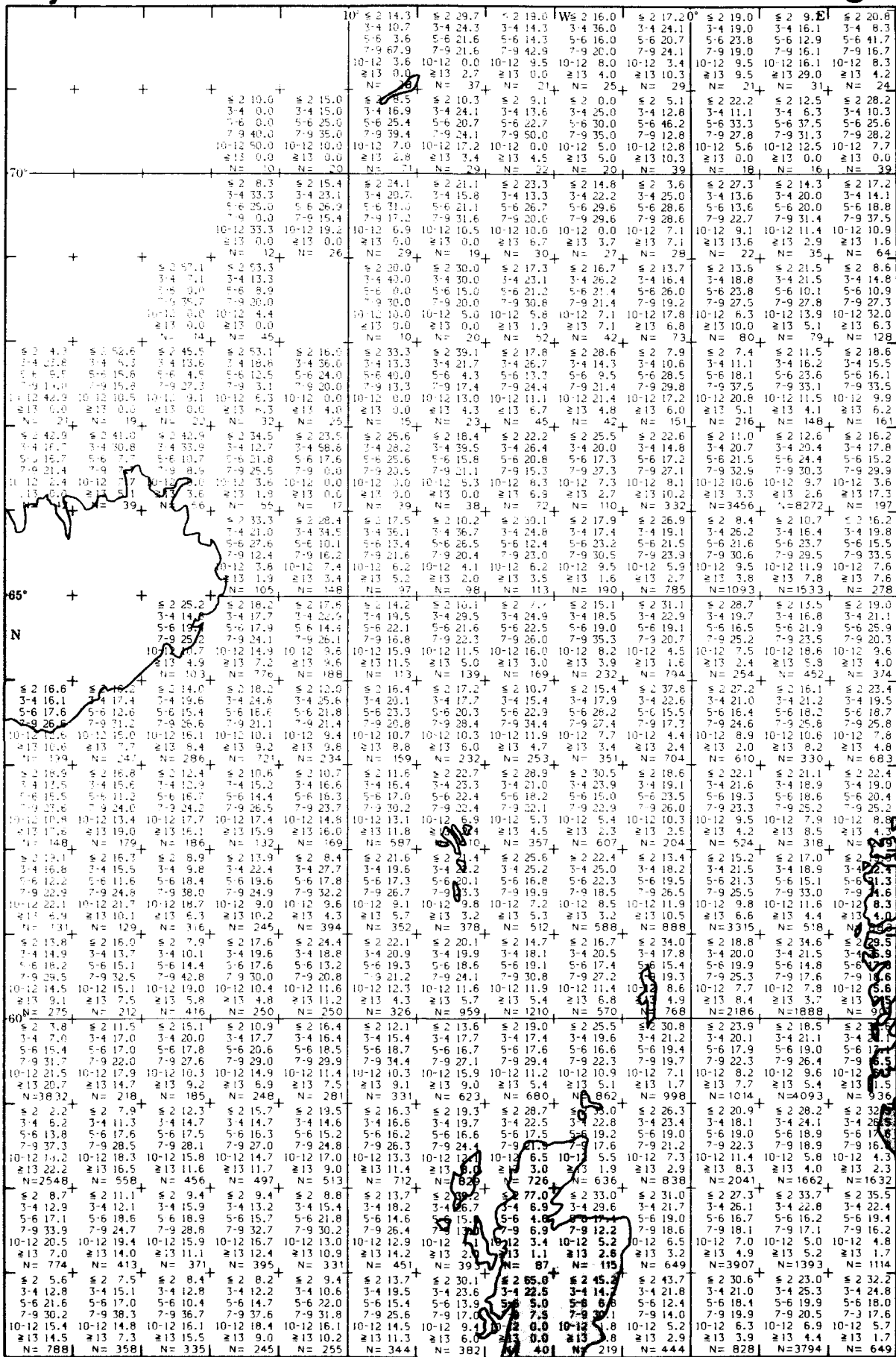
May

Wave Height



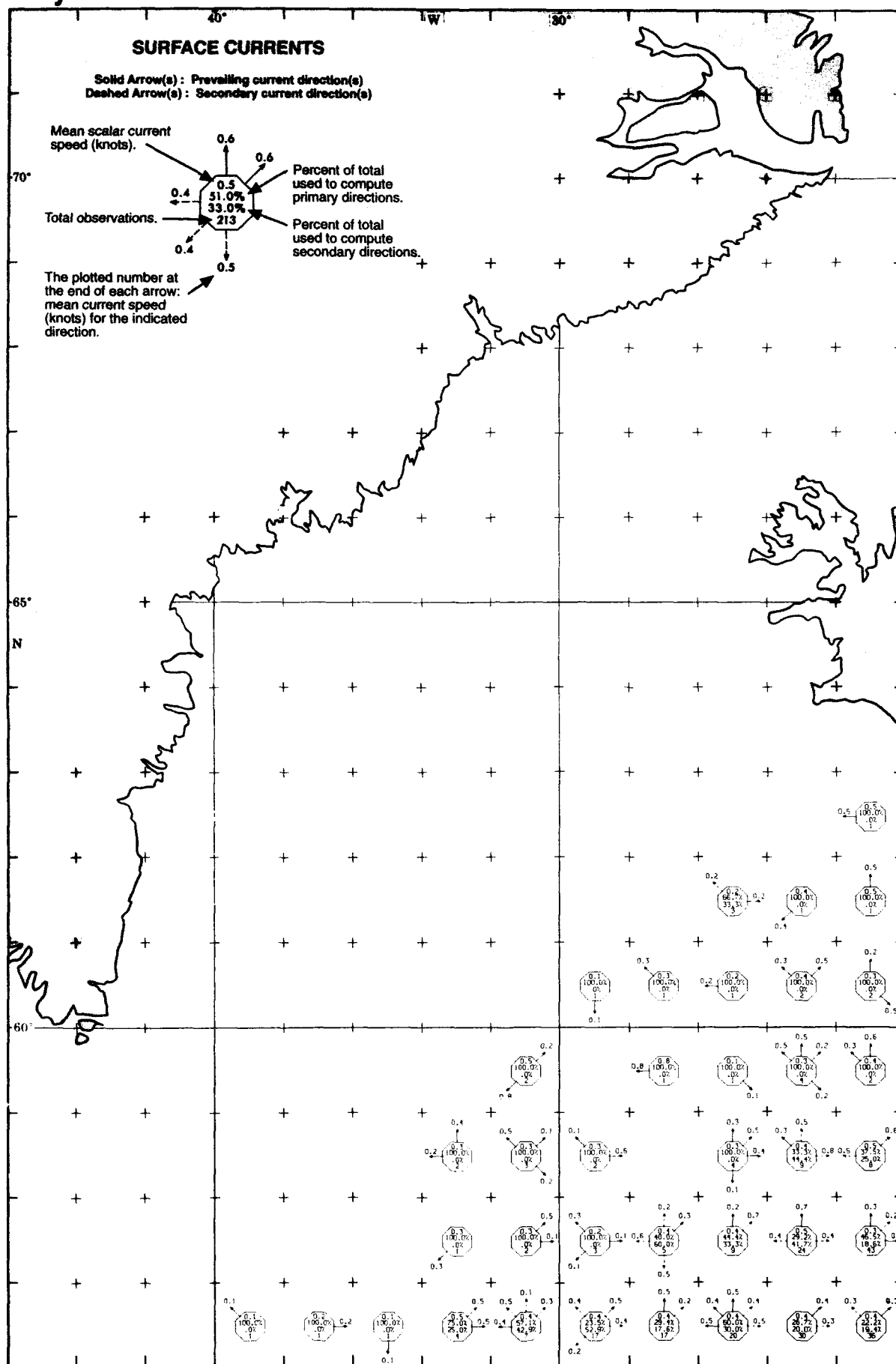
May

Wave Height



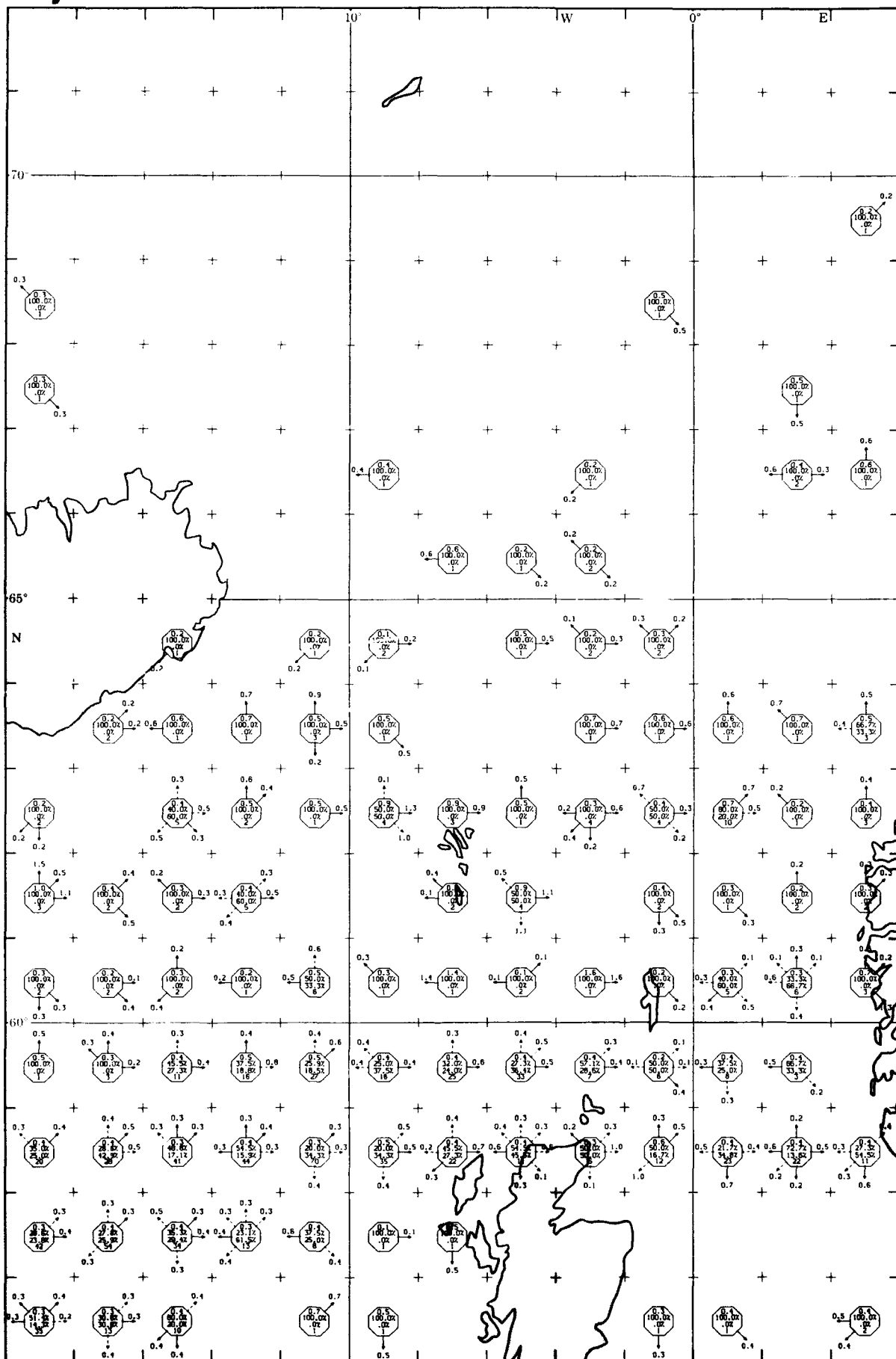
May

Surface Currents



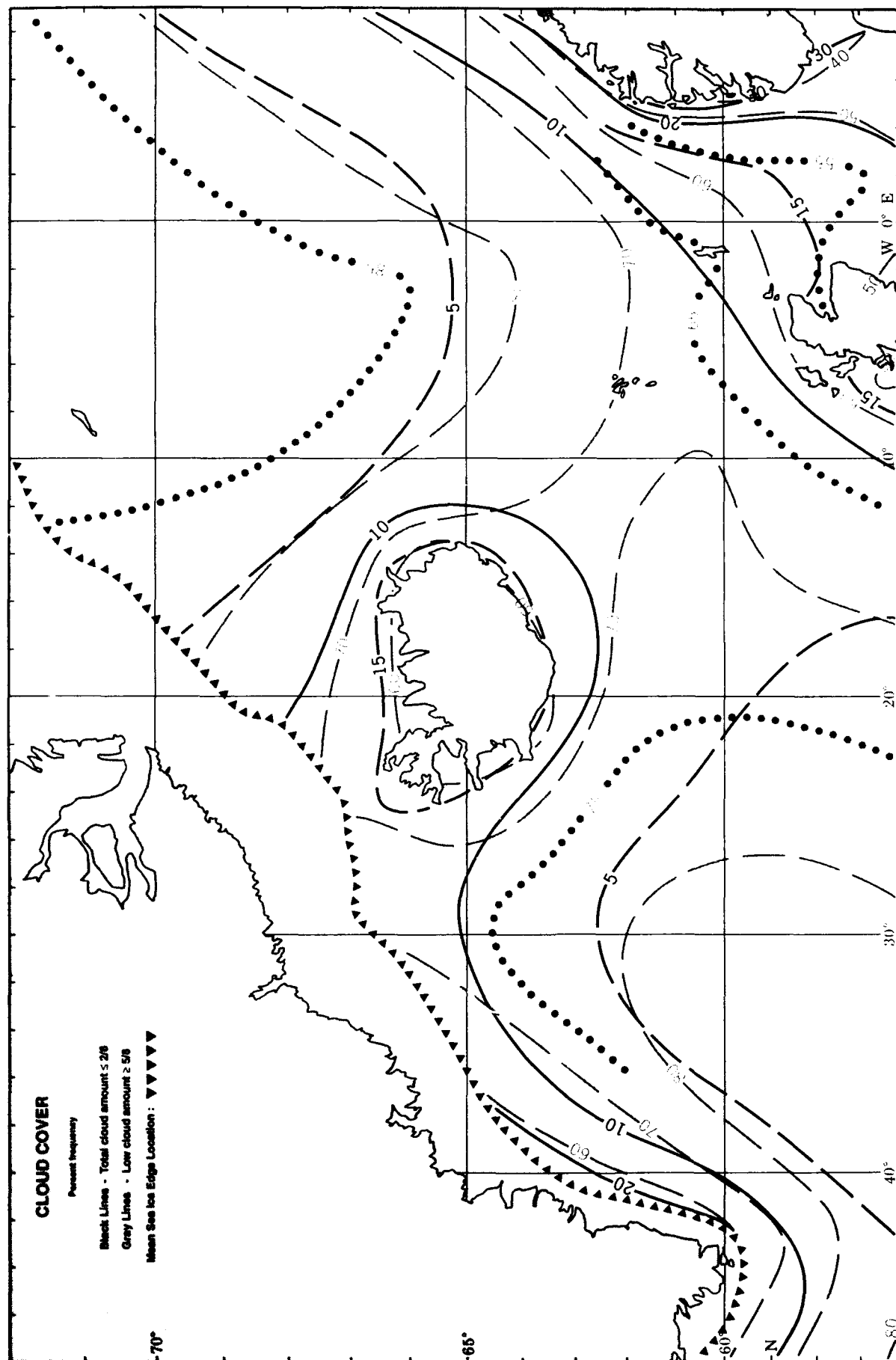
May

Surface Currents



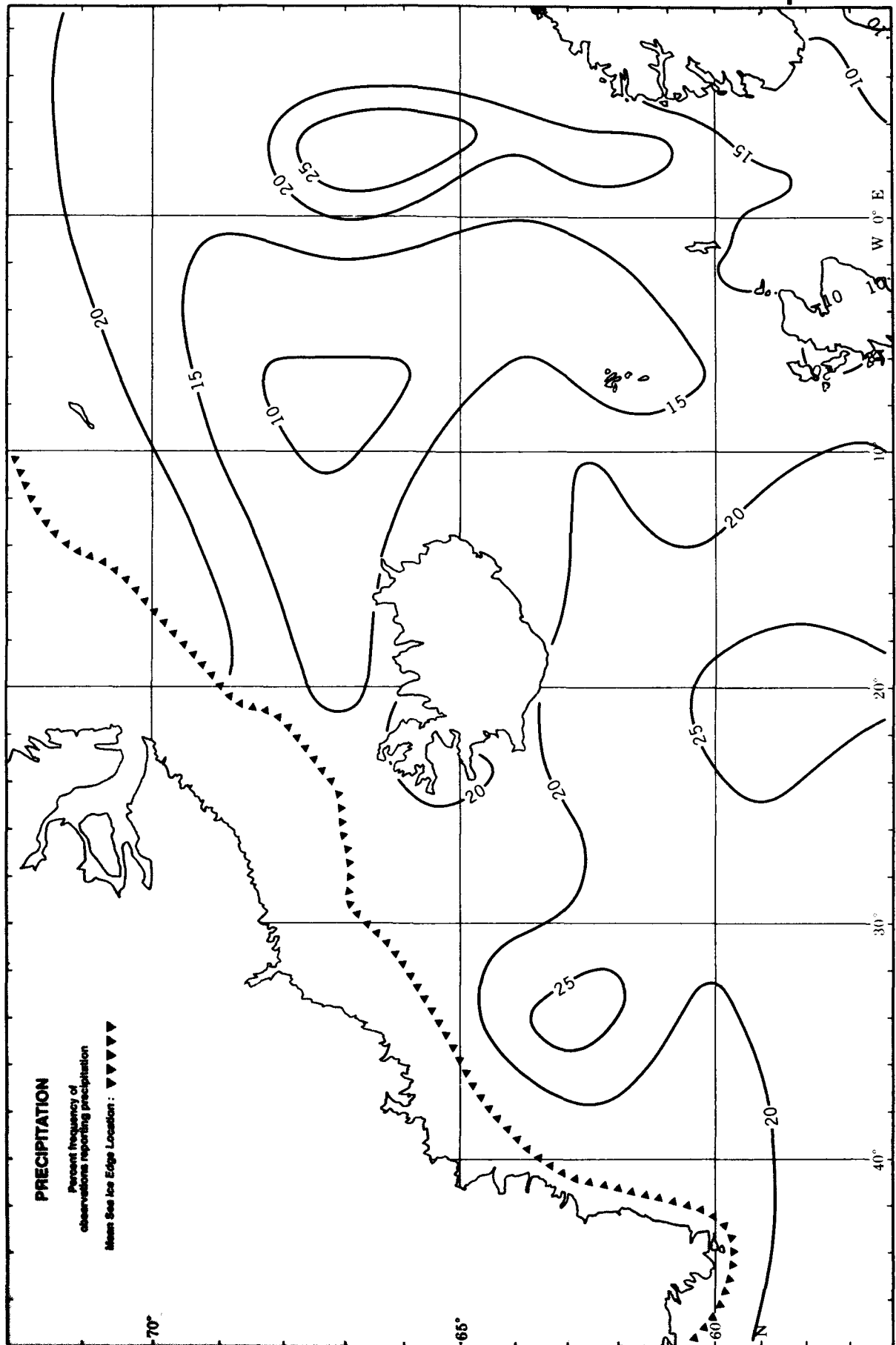
June

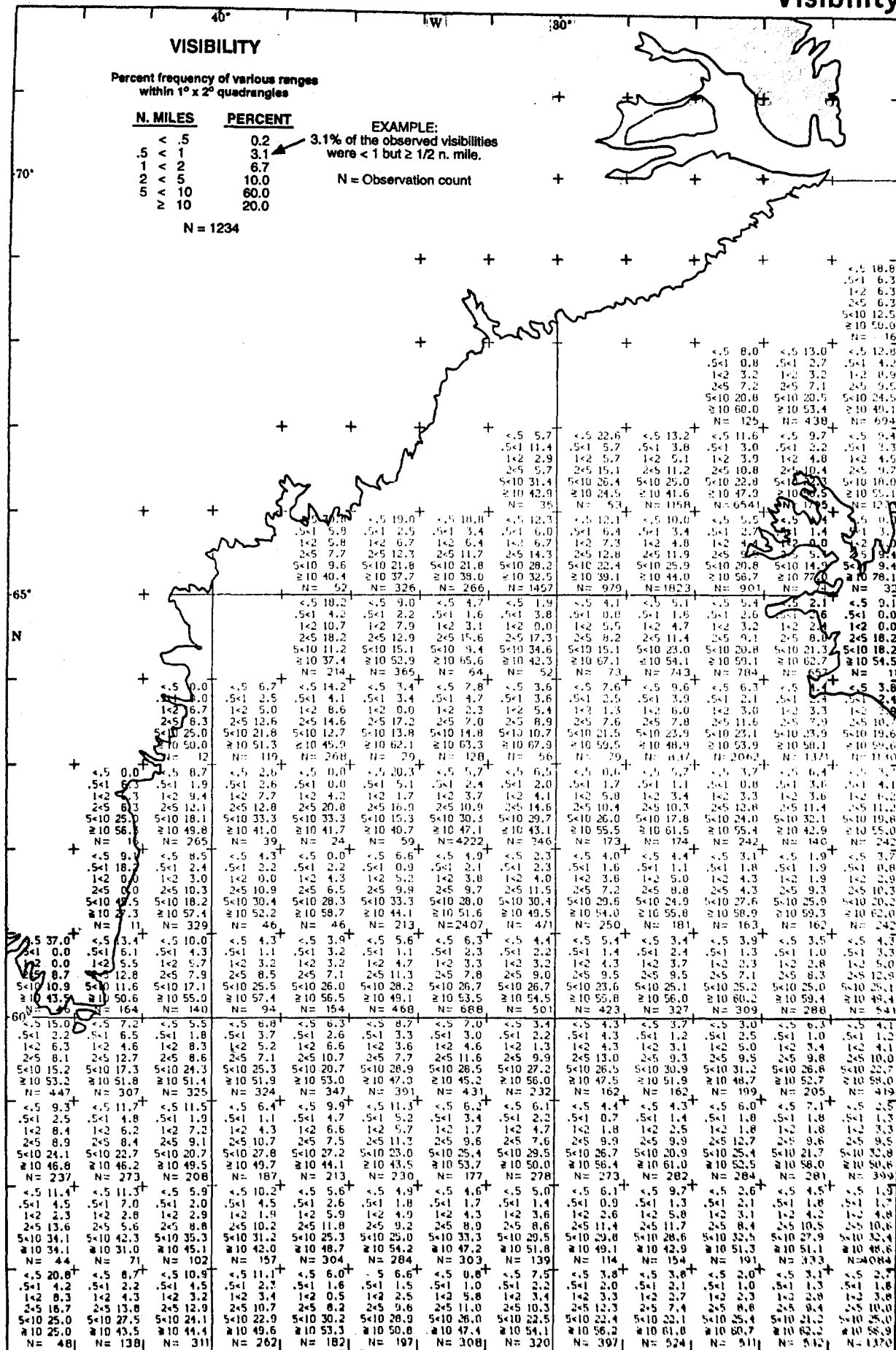
Clouds



June

Precipitation





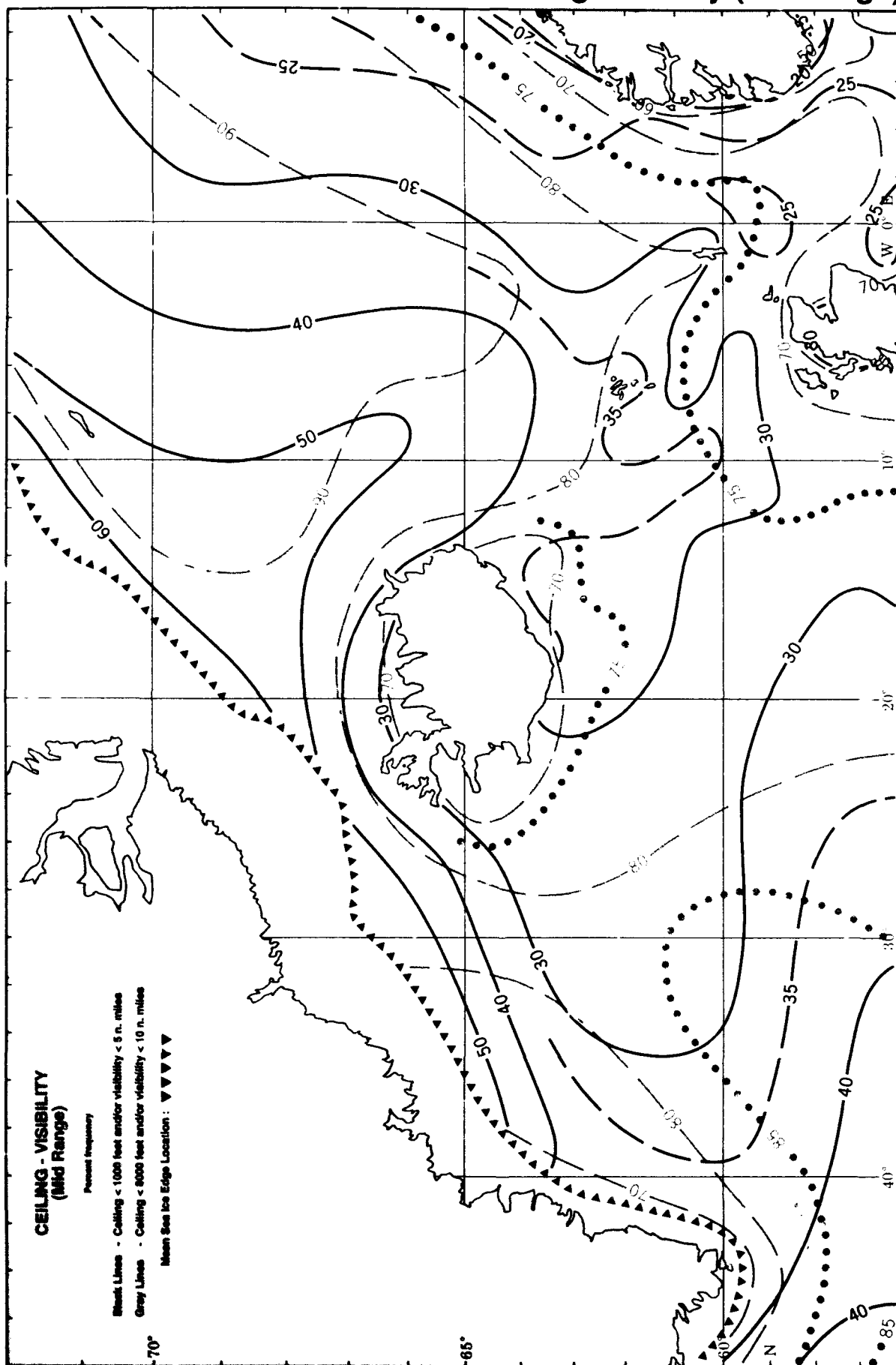
June

Visibility

4.5 16.2 5.1 7.7 1.2 0.0 2.5 7.7 5.10 15.4 2.10 23.1 N= 13	4.5 22.2 5.1 5.6 1.2 5.6 2.5 16.7 5.10 11.1 2.10 38.9 N= 18	4.5 18.210 5.1 9.1 1.2 0.0 2.5 9.1 5.10 18.2 2.10 45.5 N= 11	4.5 7.4 5.1 7.4 1.2 11.1 2.5 14.8 5.10 33.3 2.10 25.9 N= 32	4.5 18.6 5.1 6.3 1.2 6.3 2.5 0.0 5.10 40.6 2.10 28.1 N= 32	4.5 15.2 5.1 0.0 1.2 0.0 2.5 15.5 5.10 29.1 2.10 32.9 N= 79	4.5 16.1 5.1 1.8 1.2 5.4 2.5 12.5 5.10 35.7 2.10 29.6 N= 56	4.5 4.30 5.1 8.6 1.2 1.4 2.5 15.7 5.10 34.3 2.10 35.7 N= 70	4.5 9.7 5.1 1.4 1.2 1.4 2.5 13.9 5.10 31.9 2.10 38.9 N= 72	4.5 8.2 5.1 0.0 1.2 0.0 2.5 18.0 5.10 27.9 2.10 44.3 N= 61	4.5 4.1 5.1 0.0 1.2 2.0 2.5 6.1 5.10 29.6 2.10 57.1 N= 42
4.5 20.0 5.1 0.0 1.2 0.0 2.5 20.0 5.10 10.0 2.10 30.0 N= 10	4.5 13.3 5.1 6.7 1.2 6.7 2.5 6.7 5.10 16.1 2.10 6.7 N= 15	4.5 25.8 5.1 8.5 1.2 6.5 2.5 9.7 5.10 16.1 2.10 35.5 N= 31	4.5 22.2 5.1 2.0 1.2 5.0 2.5 12.9 5.10 35.6 2.10 24.8 N= 101	4.5 16.4 5.1 3.6 1.2 10.0 2.5 11.1 5.10 34.4 2.10 21.1 N= 90	4.5 16.1 5.1 3.1 1.2 2.4 2.5 19.7 5.10 32.3 2.10 30.7 N= 140	4.5 21.7 5.1 9.6 1.2 2.4 2.5 19.7 5.10 32.3 2.10 35.4 N= 127	4.5 21.7 5.1 9.6 1.2 2.4 2.5 19.7 5.10 32.3 2.10 35.4 N= 83	4.5 5.3 5.1 3.5 1.2 5.3 2.5 5.3 5.10 49.1 2.10 41.6 N= 57	4.5 6.4 5.1 0.0 1.2 4.3 2.5 4.3 5.10 25.5 2.10 57.4 N= 47	4.5 11.0 5.1 1.5 1.2 5.1 2.5 8.8 5.10 34.6 2.10 39.0 N= 136
4.5 31.0 5.1 10.3 1.2 3.4 2.5 3.4 5.10 20.7 2.10 31.0 N= 29	4.5 21.4 5.1 7.1 1.2 14.3 2.5 10.7 5.10 3.6 2.10 42.0 N= 28	4.5 13.5 5.1 4.3 1.2 6.5 2.5 9.4 5.10 17.2 2.10 40.9 N= 9.1	4.5 14.4 5.1 11.3 1.2 4.0 2.5 10.8 5.10 29.6 2.10 39.6 N= 125	4.5 11.3 5.1 4.4 1.2 2.7 2.5 7.6 5.10 35.0 2.10 37.7 N= 300	4.5 10.4 5.1 2.1 1.2 4.1 2.5 11.8 5.10 38.6 2.10 27.8 N= 158	4.5 6.9 5.1 0.9 1.2 1.8 2.5 14.5 5.10 47.5 2.10 49.6 N= 117	4.5 8.9 5.1 0.9 1.2 1.8 2.5 11.8 5.10 34.6 2.10 42.9 N= 112	4.5 7.2 5.1 2.2 1.2 5.6 2.5 5.6 5.10 40.7 2.10 46.2 N= 84	4.5 9.3 5.1 0.0 1.2 5.6 2.5 9.3 5.10 54.1 2.10 54.1 N= 74	4.5 4.1 5.1 1.4 1.2 3.4 2.5 13.1 5.10 34.6 2.10 43.4 N= 145
4.5 18.1 5.1 4.4 1.2 4.4 2.5 12.3 5.10 19.9 2.10 41.4 N= 126	4.5 10.0 5.1 4.8 1.2 4.8 2.5 13.2 5.10 19.2 2.10 34.7 N= 167	4.5 22.0 5.1 7.0 1.2 3.0 2.5 10.8 5.10 21.2 2.10 41.7 N= 186	4.5 20.1 5.1 4.3 1.2 3.0 2.5 11.0 5.10 21.3 2.10 29.8 N= 141	4.5 21.4 5.1 3.0 1.2 4.5 2.5 10.2 5.10 36.4 2.10 25.3 N= 154	4.5 17.3 5.1 4.0 1.2 4.8 2.5 12.9 5.10 30.9 2.10 30.1 N= 249	4.5 13.4 5.1 4.2 1.2 5.4 2.5 9.4 5.10 18.8 2.10 51.0 N= 143	4.5 4.9 5.1 4.2 1.2 5.4 2.5 9.4 5.10 37.1 2.10 40.6 N= 106	4.5 10.0 5.1 5.6 1.2 2.6 2.5 10.1 5.10 36.3 2.10 27.1 N= 271	4.5 5.6 5.1 1.8 1.2 3.6 2.5 10.1 5.10 35.4 2.10 45.3 N= 267	4.5 21.8 5.1 7.1 1.2 1.5 2.5 12.2 5.10 23.9 2.10 33.5 N= 197
4.5 7.8 5.1 1.4 1.2 2.2 2.5 7.8 5.10 18.8 2.10 10.0 N= 366	4.5 6.0 5.1 2.5 1.2 2.5 2.5 8.8 5.10 24.0 2.10 52.8 N= 366	4.5 12.9 5.1 4.9 1.2 2.3 2.5 8.8 5.10 24.0 2.10 41.2 N= 308	4.5 19.8 5.1 2.9 1.2 2.9 2.5 9.9 5.10 24.4 2.10 40.1 N= 172	4.5 20.3 5.1 5.0 1.2 2.2 2.5 7.9 5.10 22.9 2.10 31.8 N= 179	4.5 15.1 5.1 1.4 1.2 5.8 2.5 7.9 5.10 28.1 2.10 41.7 N= 139	4.5 17.0 5.1 5.8 1.2 4.5 2.5 16.1 5.10 25.1 2.10 35.4 N= 223	4.5 13.2 5.1 3.3 1.2 7.3 2.5 10.6 5.10 29.1 2.10 36.1 N= 151	4.5 4.3 5.1 1.6 1.2 1.3 2.5 9.5 5.10 39.6 2.10 49.7 N= 304	4.5 6.8 5.1 1.8 1.2 4.0 2.5 10.1 5.10 35.4 2.10 45.3 N= 283	4.5 8.1 5.1 1.8 1.2 5.4 2.5 8.7 5.10 30.2 2.10 43.6 N= 149
4.5 0.0 5.1 0.0 1.2 0.0 2.5 15.4 5.10 15.4 2.10 69.2 N= 13	4.5 0.0 5.1 5.6 1.2 0.0 2.5 0.0 5.10 38.9 2.10 55.6 N= 18	4.5 8.3 5.1 2.2 1.2 2.7 2.5 5.8 5.10 20.4 2.10 56.4 N= 684	4.5 10.2 5.1 3.3 1.2 3.9 2.5 9.8 5.10 24.7 2.10 49.0 N= 793	4.5 10.9 5.1 2.6 1.2 3.0 2.5 15.4 5.10 22.5 2.10 50.7 N= 414	4.5 13.9 5.1 1.2 1.2 4.8 2.5 10.8 5.10 24.7 2.10 44.6 N= 298	4.5 15.6 5.1 1.6 1.2 2.9 2.5 11.5 5.10 27.2 2.10 41.2 N= 166	4.5 6.3 5.1 1.9 1.2 2.3 2.5 11.5 5.10 30.1 2.10 47.8 N= 243	4.5 3.2 5.1 0.7 1.2 2.4 2.5 9.5 5.10 25.8 2.10 58.4 N= 1341	4.5 4.0 5.1 0.4 1.2 2.6 2.5 7.4 5.10 26.5 2.10 54.3 N= 539	4.5 2.8 5.1 0.7 1.2 2.3 2.5 9.0 5.10 30.9 2.10 54.3 N= 733
4.5 4.0 5.1 2.7 1.2 5.3 2.5 11.2 5.10 23.4 2.10 53.6 N= 1085	4.5 5.1 5.1 2.1 1.2 2.4 2.5 10.6 5.10 22.9 2.10 54.8 N= 1133	4.5 5.2 5.1 1.5 1.2 3.2 2.5 11.1 5.10 22.9 2.10 55.2 N= 808	4.5 6.5 5.1 3.1 1.2 4.4 2.5 10.4 5.10 27.2 2.10 55.4 N= 4633	4.5 7.9 5.1 1.8 1.2 3.7 2.5 11.0 5.10 26.5 2.10 49.0 N= 508	4.5 6.1 5.1 2.3 1.2 3.6 2.5 10.1 5.10 30.2 2.10 44.8 N= 391	4.5 9.0 5.1 2.3 1.2 2.8 2.5 9.9 5.10 29.4 2.10 44.1 N= 388	4.5 9.4 5.1 3.8 1.2 2.8 2.5 9.9 5.10 26.7 2.10 50.3 N= 636	4.5 2.0 5.1 0.7 1.2 2.3 2.5 9.0 5.10 24.7 2.10 53.2 N= 1049	4.5 1.3 5.1 1.0 1.2 2.3 2.5 9.0 5.10 27.7 2.10 59.4 N= 833	4.5 1.8 5.1 0.8 1.2 2.8 2.5 9.0 5.10 28.0 2.10 57.5 N= 393
4.5 3.1 5.1 1.2 1.2 3.7 2.5 11.1 5.10 25.3 2.10 55.6 N= 486	4.5 4.5 5.1 3.8 1.2 4.0 2.5 9.1 5.10 21.1 2.10 57.5 N= 97	4.5 5.7 5.1 2.7 1.2 3.1 2.5 9.6 5.10 22.4 2.10 55.5 N= 118	4.5 4.3 5.1 2.4 1.2 3.4 2.5 10.8 5.10 31.4 2.10 47.7 N= 1045	4.5 5.5 5.1 1.7 1.2 2.8 2.5 8.1 5.10 25.0 2.10 56.4 N= 1366	4.5 6.2 5.1 1.8 1.2 2.8 2.5 7.1 5.10 25.6 2.10 56.4 N= 704	4.5 5.8 5.1 1.5 1.2 1.8 2.5 8.1 5.10 18.3 2.10 64.6 N= 618	4.5 4.5 5.1 2.5 1.2 4.0 2.5 10.1 5.10 20.6 2.10 58.3 N= 199	4.5 3.3 5.1 0.7 1.2 2.6 2.5 13.4 5.10 28.1 2.10 54.5 N= 402	4.5 3.3 5.1 0.9 1.2 3.7 2.5 13.4 5.10 28.1 2.10 54.5 N= 305	4.5 2.9 5.1 0.6 1.2 1.9 2.5 11.8 5.10 28.1 2.10 58.1 N= 885
4.5 8.1 5.1 1.9 1.2 4.1 2.5 13.3 5.10 24.8 2.10 47.8 N= 270	4.5 9.7 5.1 2.4 1.2 3.0 2.5 9.7 5.10 32.5 2.10 42.6 N= 329	4.5 3.1 5.1 1.7 1.2 2.5 2.5 10.3 5.10 23.4 2.10 60.6 N= 606	4.5 5.2 5.1 1.7 1.2 4.2 2.5 10.3 5.10 24.7 2.10 53.9 N= 939	4.5 3.8 5.1 2.3 1.2 3.5 2.5 10.2 5.10 29.6 2.10 49.6 N= 1048	4.5 6.3 5.1 2.0 1.2 2.3 2.5 9.6 5.10 24.0 2.10 58.1 N= 2132	4.5 4.9 5.1 1.5 1.2 3.4 2.5 8.7 5.10 26.8 2.10 54.7 N= 1480	4.5 4.9 5.1 1.5 1.2 3.4 2.5 9.3 5.10 24.7 2.10 54.7 N= 1116	4.5 4.2 5.1 1.7 1.2 3.2 2.5 9.6 5.10 23.7 2.10 51.7 N= 982	4.5 4.1 5.1 0.4 1.2 4.0 2.5 14.3 5.10 33.7 2.10 43.4 N= 732	4.5 2.0 5.1 1.1 1.2 1.9 2.5 1.8 5.10 26.9 2.10 56.0 N= 1185
4.5 2.8 5.1 2.2 1.2 3.6 2.5 8.5 5.10 24.6 2.10 58.4 N= 317	4.5 2.7 5.1 1.9 1.2 3.6 2.5 8.3 5.10 26.5 2.10 54.8 N= 336	4.5 4.2 5.1 1.9 1.2 4.1 2.5 7.9 5.10 20.2 2.10 62.7 N= 584	4.5 4.3 5.1 1.7 1.2 1.1 2.5 10.6 5.10 22.6 2.10 59.9 N= 533	4.5 6.0 5.1 3.6 1.2 4.2 2.5 9.5 5.10 22.9 2.10 54.2 N= 1179	4.5 4.3 5.1 1.3 1.2 2.8 2.5 9.1 5.10 24.8 2.10 57.3 N= 1336	4.5 4.3 5.1 1.3 1.2 2.8 2.5 10.8 5.10 30.6 2.10 50.2 N= 1831	4.5 3.6 5.1 1.1 1.2 3.2 2.5 10.7 5.10 27.2 2.10 55.4 N= 1098	4.5 3.6 5.1 1.3 1.2 3.2 2.5 12.0 5.10 46.9 2.10 47.5 N= 2268	4.5 4.6 5.1 1.7 1.2 3.6 2.5 12.0 5.10 30.4 2.10 47.5 N= 1687	4.5 2.0 5.1 1.1 1.2 1.9 2.5 2.9 5.10 33.9 2.10 58.1 N= 1185
4.5 3.3 5.1 2.3 1.2 4.8 2.5 10.7 5.10 25.3 2.10 53.4 N= 4180	4.5 3.0 5.1 1.9 1.2 5.2 2.5 11.6 5.10 25.7 2.10 52.5 N= 362	4.5 4.8 5.1 0.9 1.2 2.3 2.5 8.3 5.10 24.7 2.10 58.9 N= 433	4.5 2.1 5.1 2.6 1.2 1.7 2.5 11.6 5.10 28.6 2.10 53.4 N= 505	4.5 2.0 5.1 1.7 1.2 3.6 2.5 10.5 5.10 39.8 2.10 43.9 N= 500	4.5 4.6 5.1 2.3 1.2 3.5 2.5 9.1 5.10 23.5 2.10 56.1 N= 1057	4.5 4.4 5.1 2.2 1.2 3.7 2.5 10.2 5.10 28.7 2.10 50.7 N= 1454	4.5 4.1 5.1 1.8 1.2 3.3 2.5 10.2 5.10 29.9 2.10 50.7 N= 1291	4.5 3.4 5.1 1.6 1.2 2.7 2.5 9.5 5.10 40.9 2.10 41.9 N= 1403	4.5 4.5 5.1 2.0 1.2 3.9 2.5 10.5 5.10 29.0 2.10 55.1 N= 1753	4.5 3.3 5.1 1.4 1.2 3.0 2.5 11.2 5.10 30.3 2.10 46.3 N= 4534
4.5 2.1 5.1 1.7 1.2 4.4 2.5 9.8 5.10 29.9 2.10 52.1 N= 2753	4.5 2.5 5.1 2.0 1.2 3.3 2.5 9.2 5.10 31.4 2.10 51.6 N= 717	4.5 4.4 5.1 1.3 1.2 3.1 2.5 11.1 5.10 28.4 2.10 51.6 N= 637	4.5 1.9 5.1 1.6 1.2 2.4 2.5 9.4 5.10 31.1 2.10 54.1 N= 756	4.5 2.8 5.1 1.8 1.2 2.5 2.5 11.2 5.10 26.7 2.10 57.2 N= 1063	4.5 1.9 5.1 1.8 1.2 2.4 2.5 11.2 5.10 26.1 2.10 57.2 N= 1372	4.5 1.9 5.1 2.4 1.2 3.2 2.5 8.8 5.10 28.9 2.10 52.9 N= 1429	4.5 3.8 5.1 2.1 1.2 3.0 2.5 8.9 5.10 29.8 2.10 53.5 N= 1472	4.5 2.6 5.1 1.4 1.2 3.8 2.5 13.3 5.10 33.2 2.10 51.5 N= 2484	4.5 3.9 5.1 2.0 1.2 3.6 2.5 10.1 5.10 30.3 2.10 46.3 N= 1791	4.5 3.3 5.1 1.4 1.2 3.5 2.5 11.2 5.10 31.5 2.10 49.0 N= 1348
4.5 4.3 5.1 2.4 1.2 3.1 2.5 12.4 5.10 28.9 2.10 48.9 N= 1185	4.5 3.6 5.1 1.8 1.2 3.3 2.5 11.1 5.10 23.9 2.10 54.1 N= 503	4.5 4.5 5.1 1.8 1.2 3.3 2.5 9.1 5.10 26.7 2.10 54.8 N= 449	4.5 2.0 5.1 1.8 1.2 4.5 2.5 8.6 5.10 28.0 2.10 58.0 N= 441	4.5 2.4 5.1 1.6 1.2 3.5 2.5 10.0 5.10 26.9 2.10 60.4 N= 591	4.5 4.6 5.1 1.6 1.2 3.2 2.5 9.5 5.10 22.5 2.10 58.0 N= 75	4.5 2.8 5.1 2.3 1.2 3.5 2.5 10.5 5.10 25.8 2.10 56.5 N= 1831	4.5 4.1 5.1 2.2 1.2 3.7 2.5 10.2 5.10 28.7 2.10 50.4 N= 1472	4.5 4.1 5.1 1.8 1.2 3.3 2.5 10.2 5.10 29.9 2.10 50.7 N= 1472	4.5 4.5 5.1 2.0 1.2 3.9 2.5 10.5 5.10 30.3 2.10 49.0 N= 1385	4.5 3.3 5.1 1.4 1.2 3.5 2.5 11.2 5.10 31.5 2.10 49.0 N= 1348

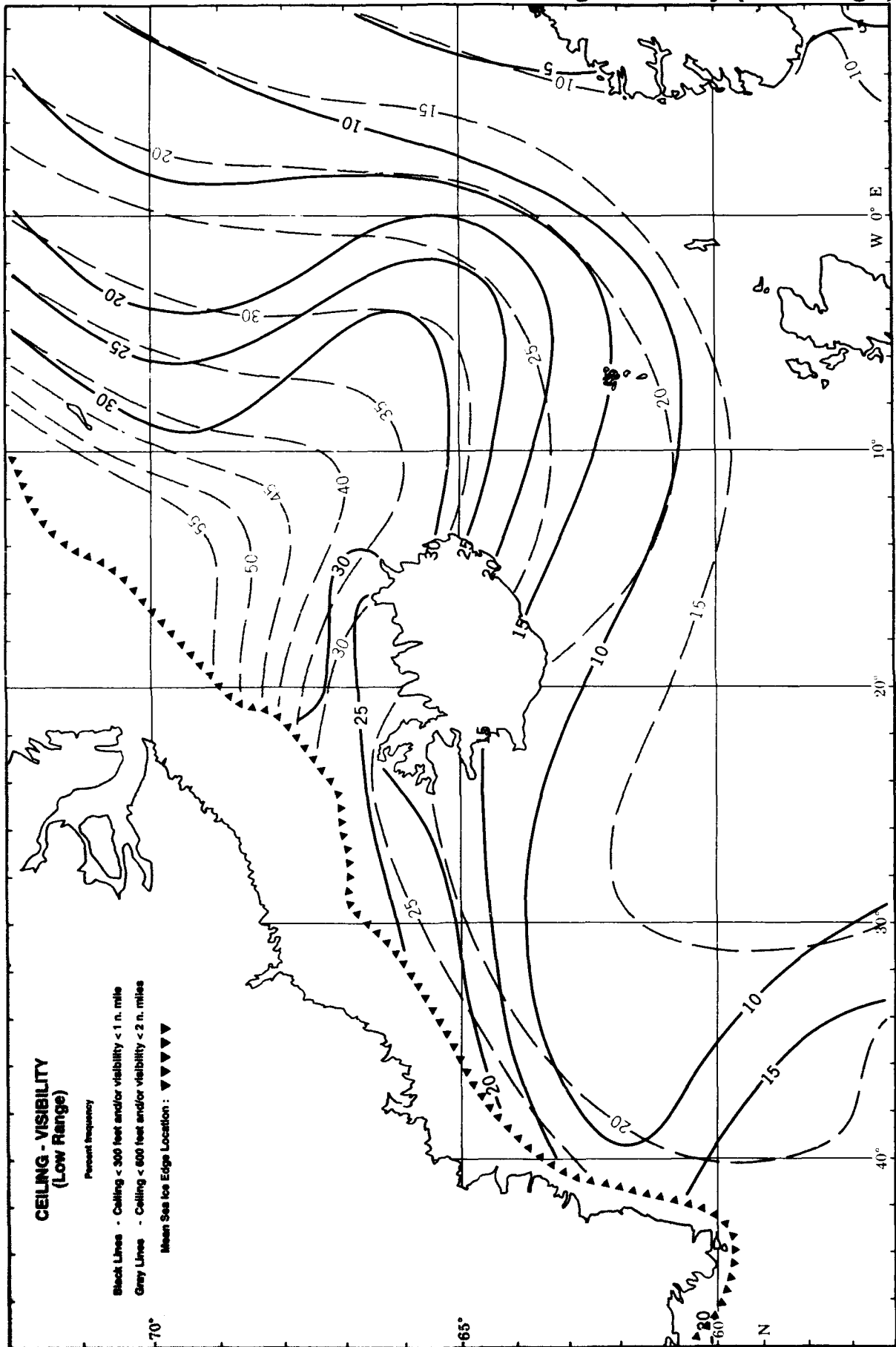
June

Ceiling-Visibility (mid range)



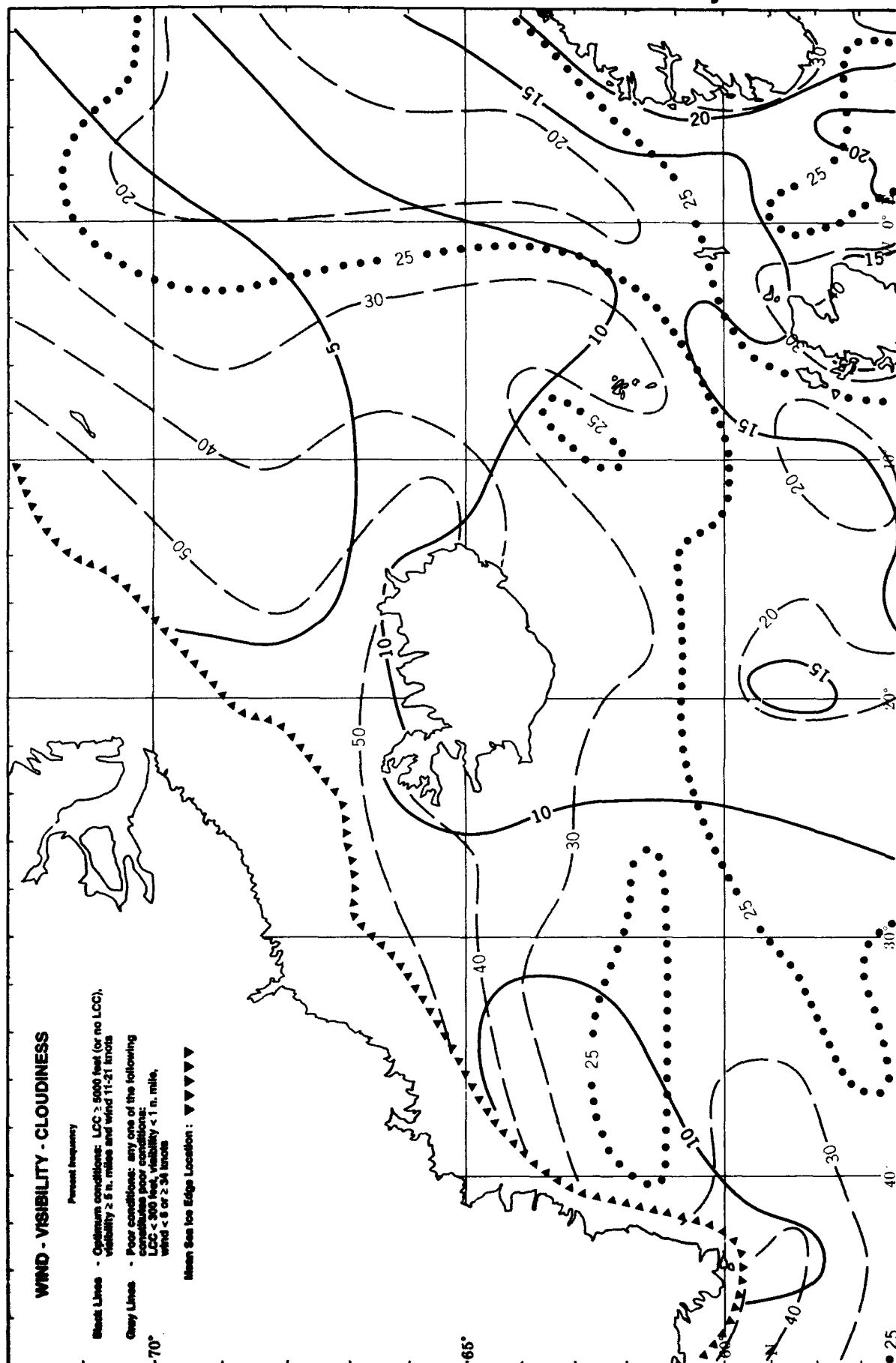
June

Ceiling-Visibility (low range)



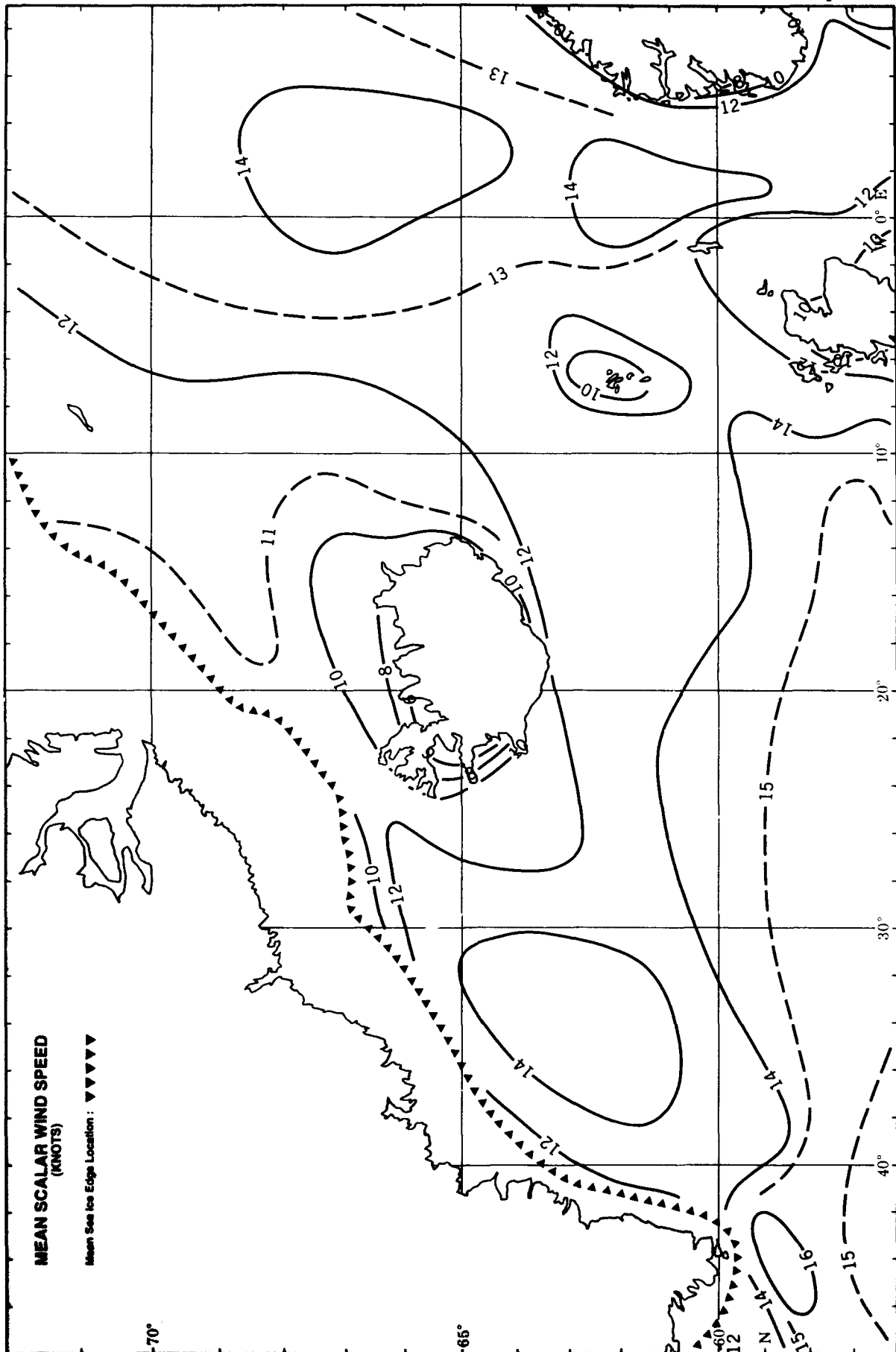
June

Wind-Visibility-Cloudiness



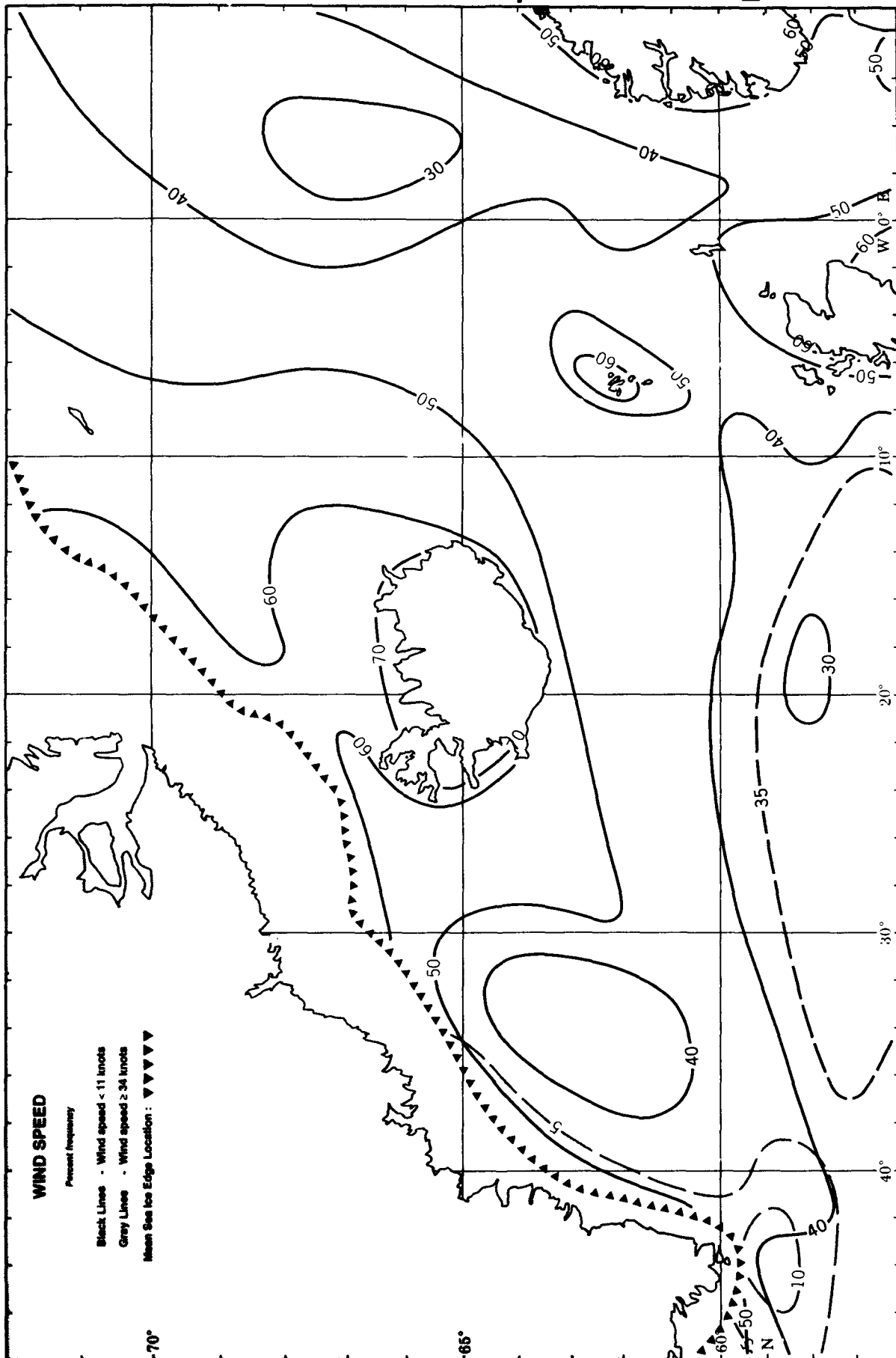
June

Mean Scalar Wind Speed



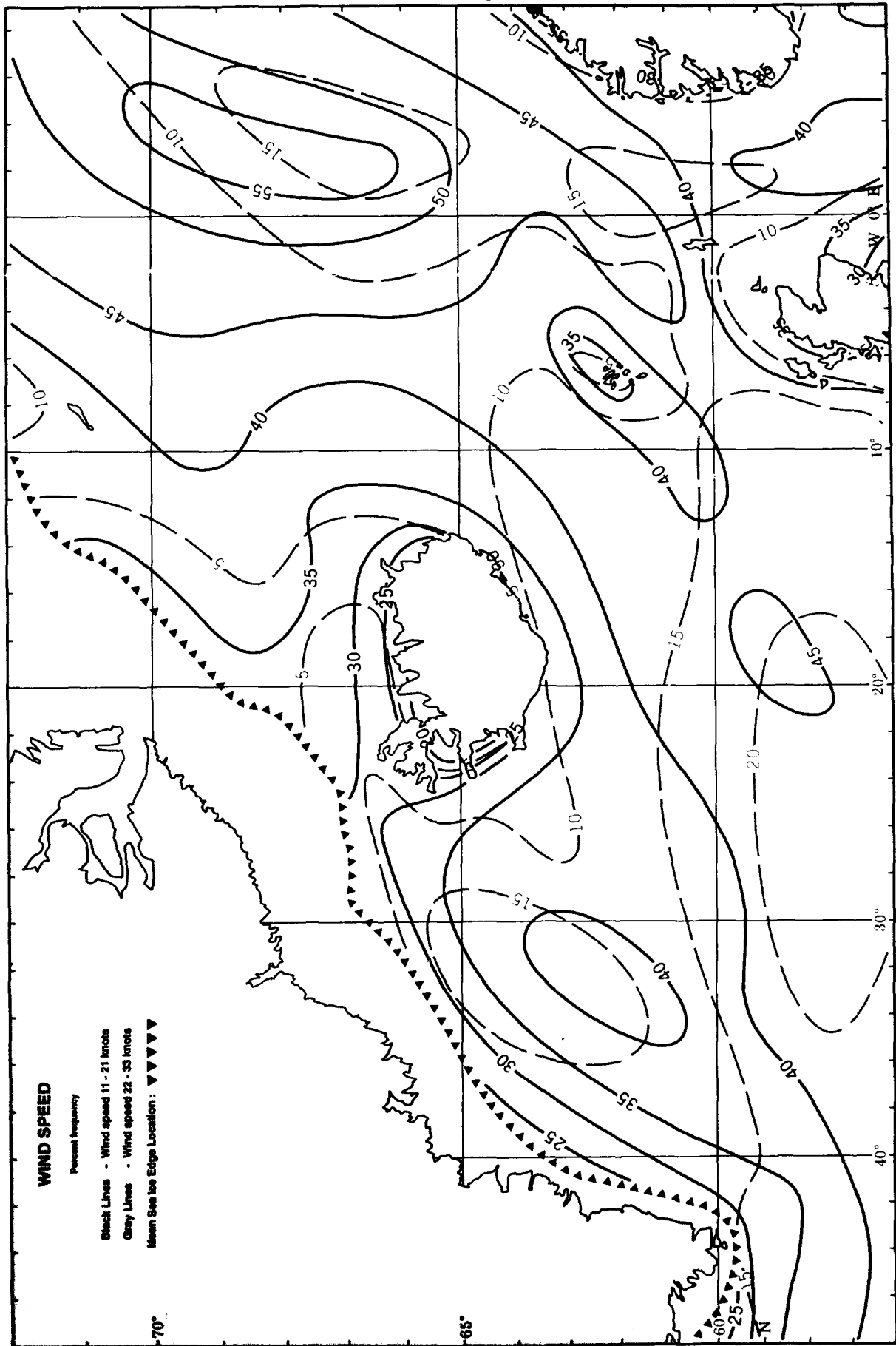
June

Wind Speed < 11 and ≥ 34 Knots



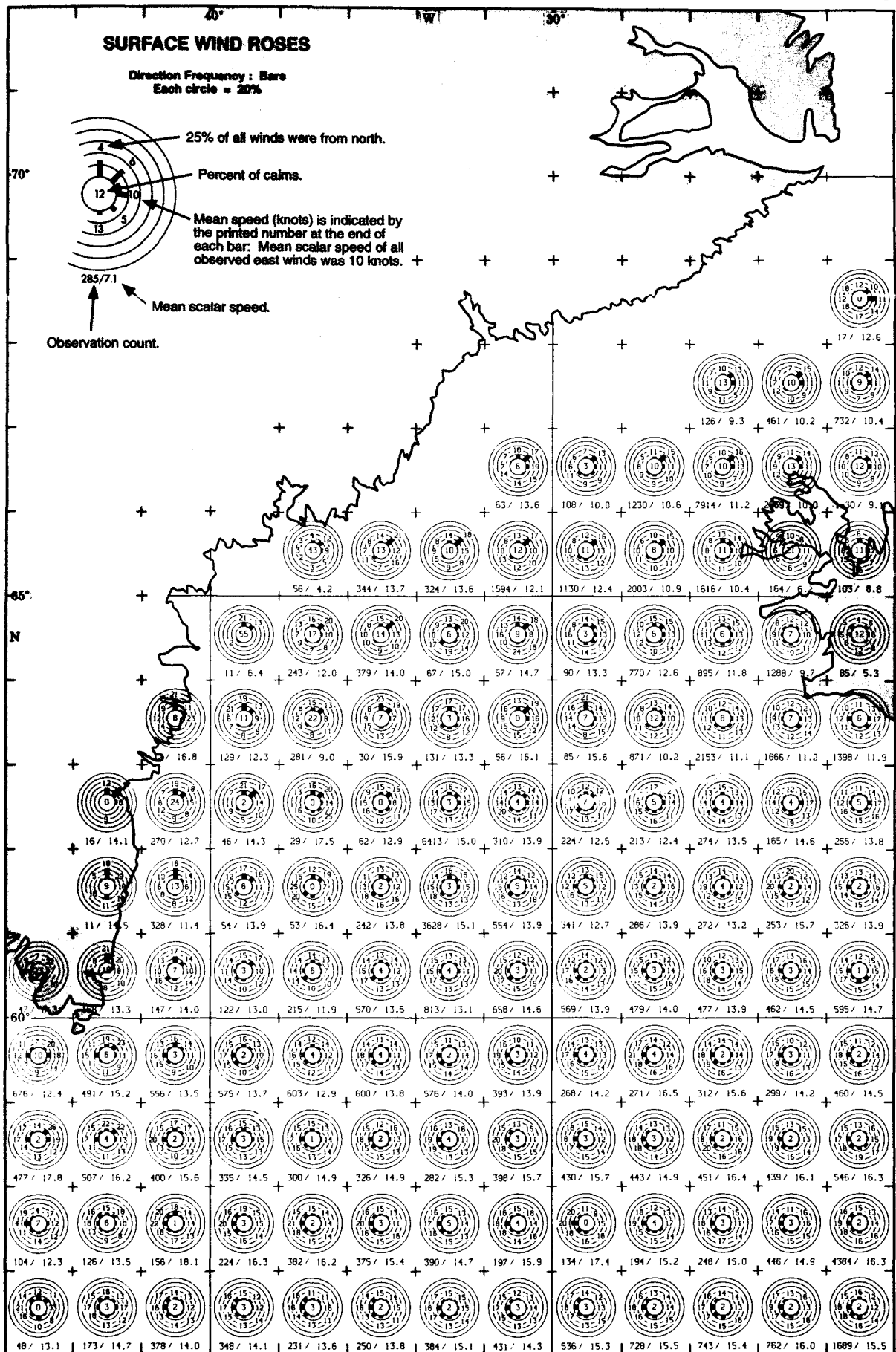
June

Wind Speed 11-21 and 22-33 Knots



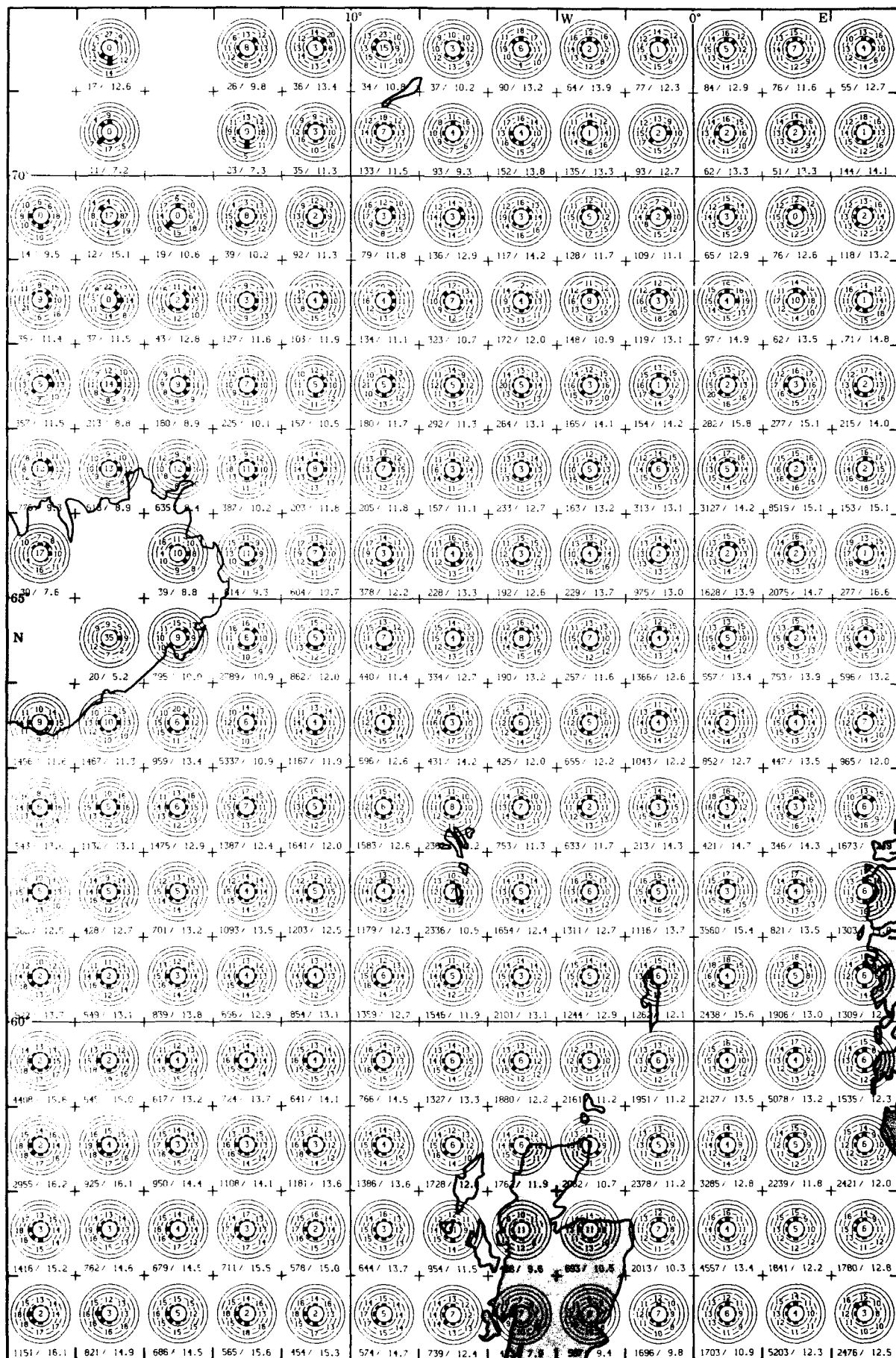
June

Surface Wind Roses



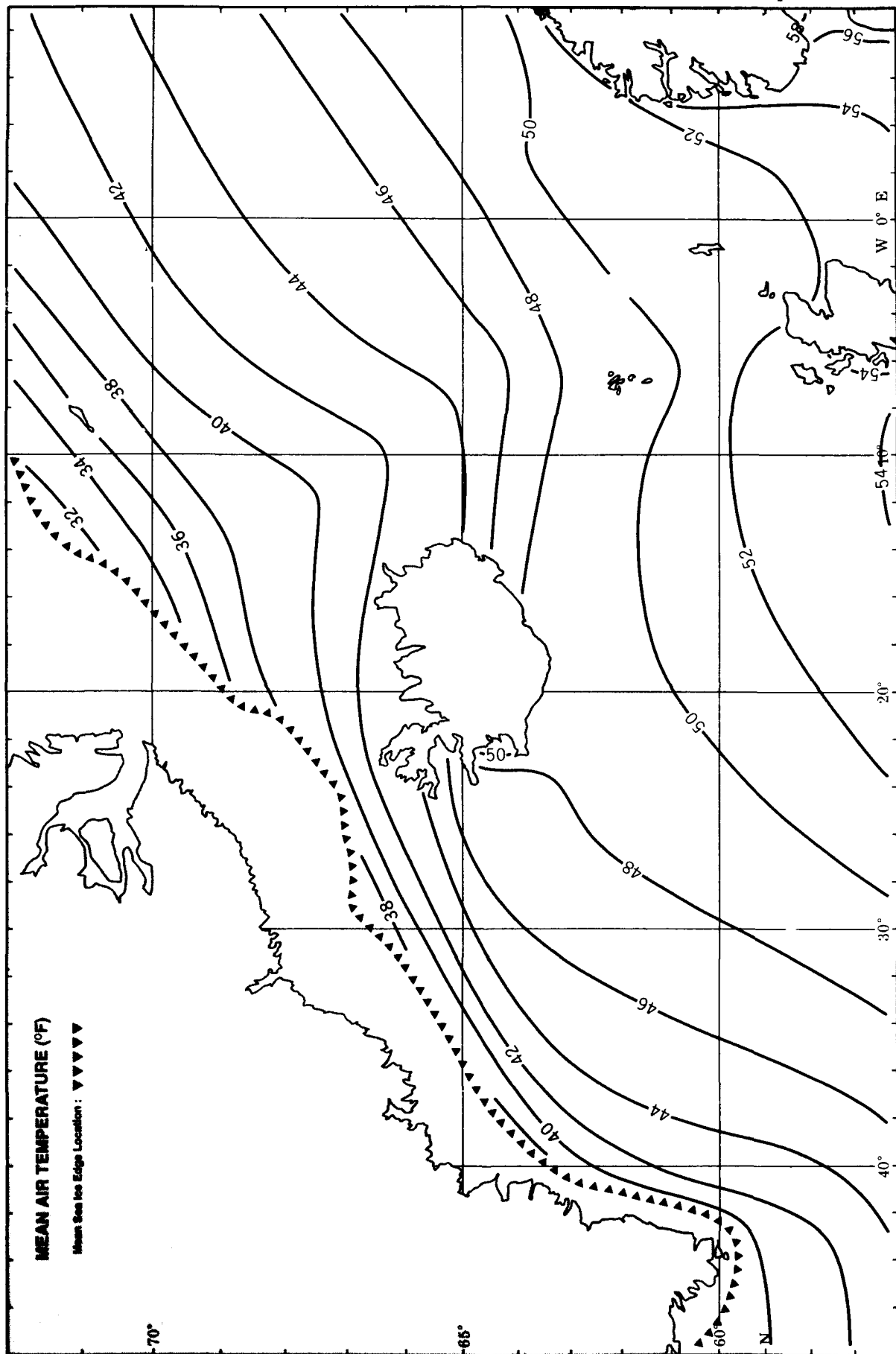
June

Surface Wind Roses



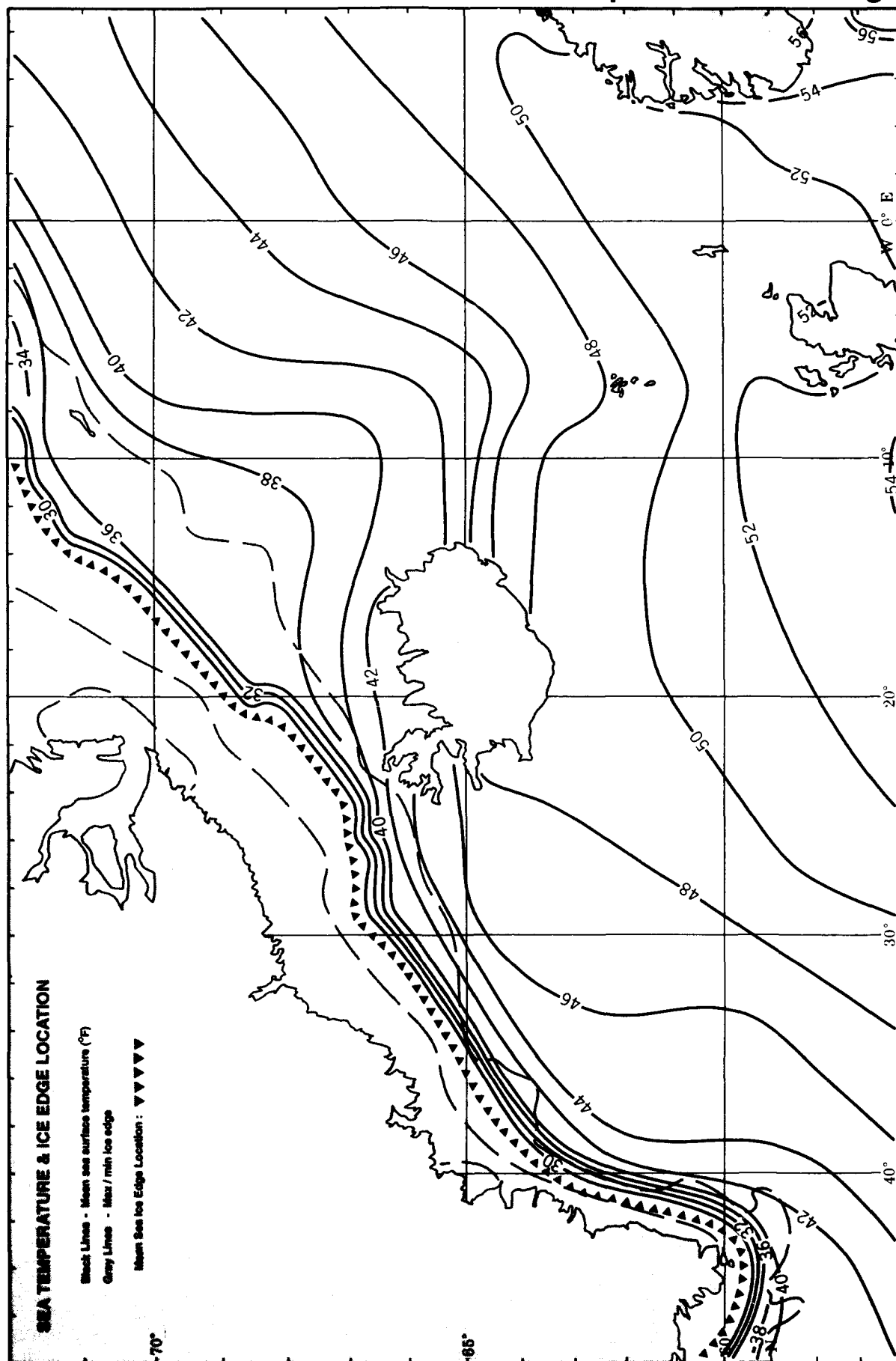
June

Mean Air Temperature



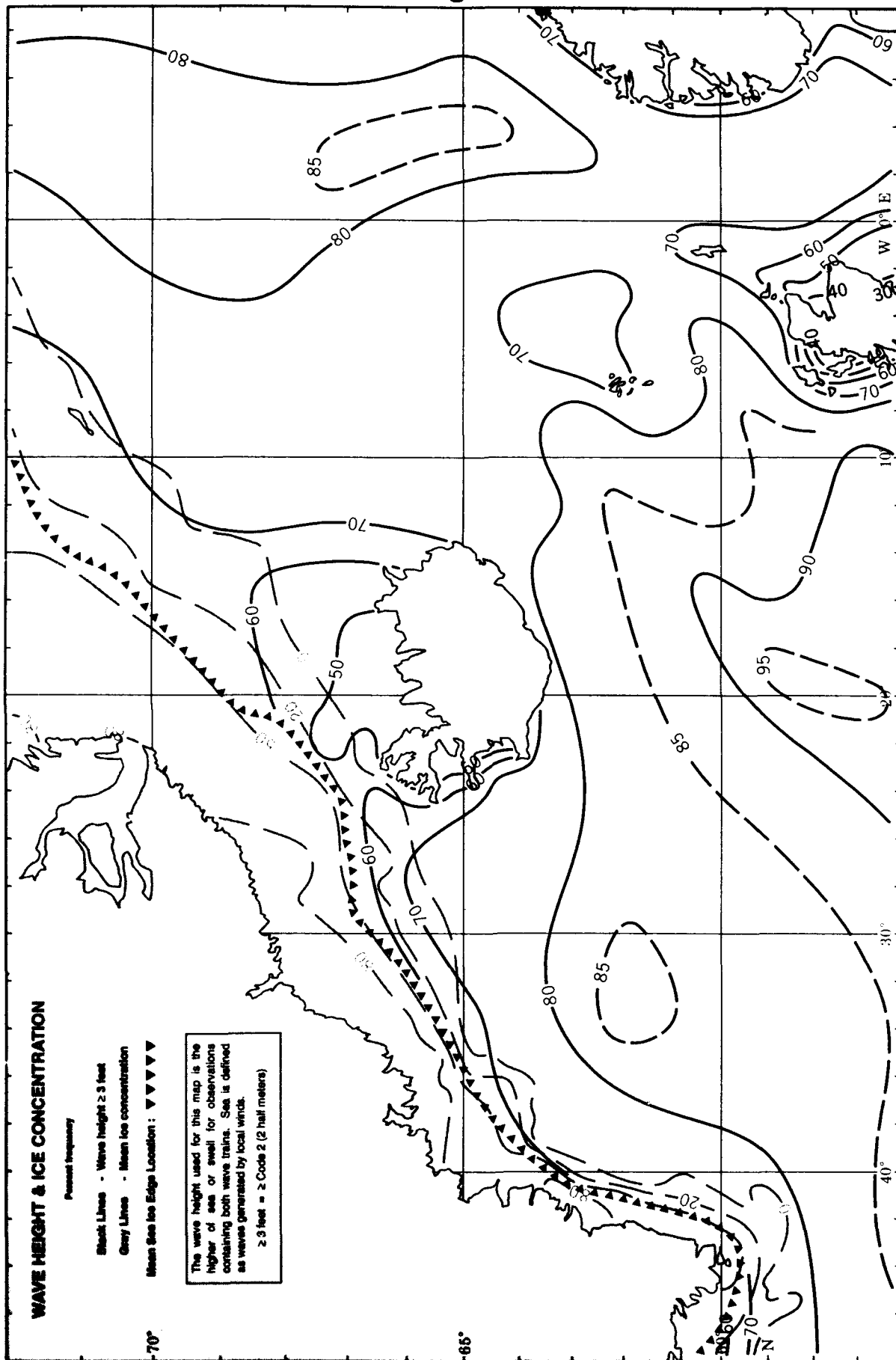
June

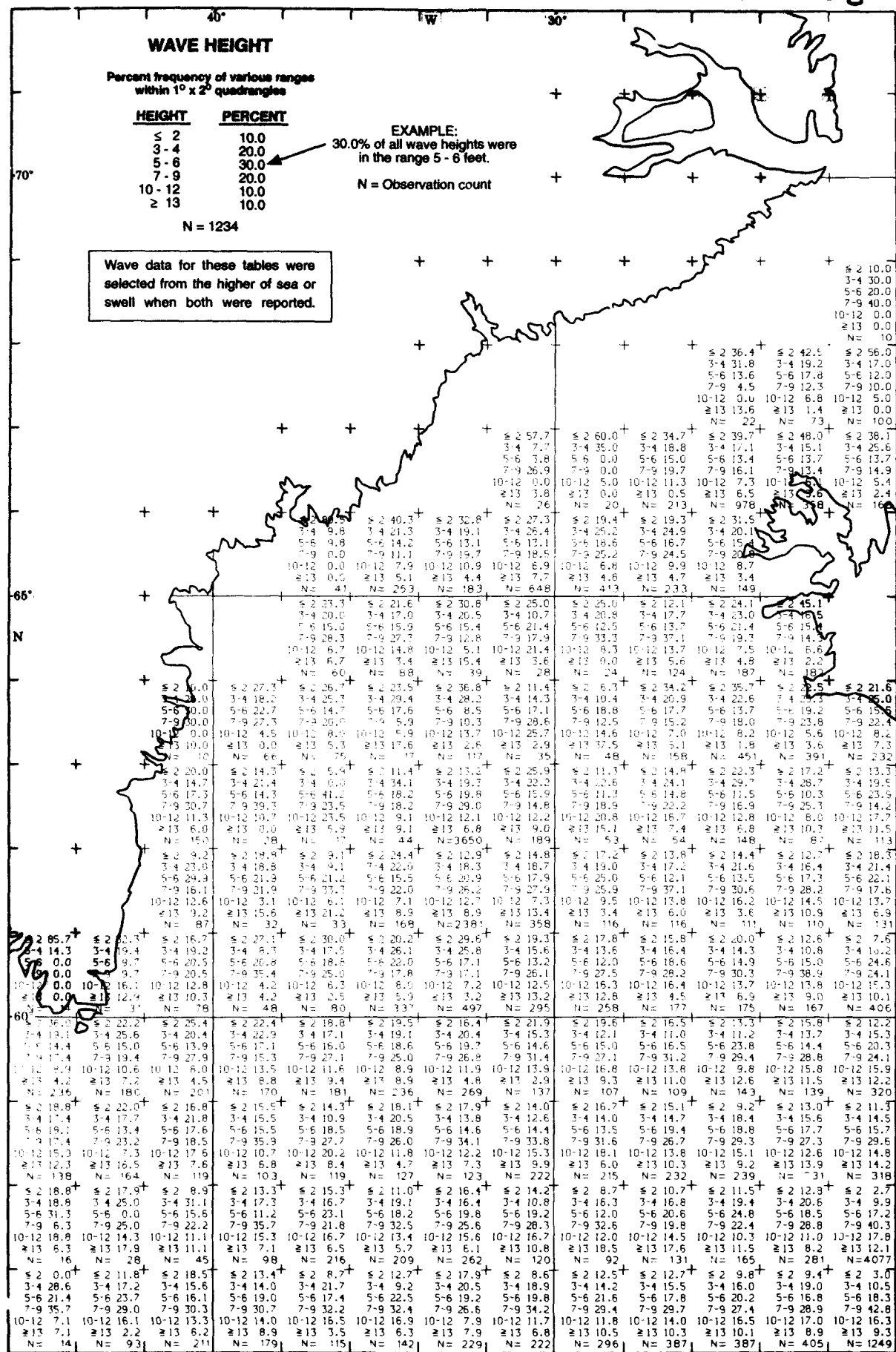
Mean Sea Temperature & Ice Edge



June

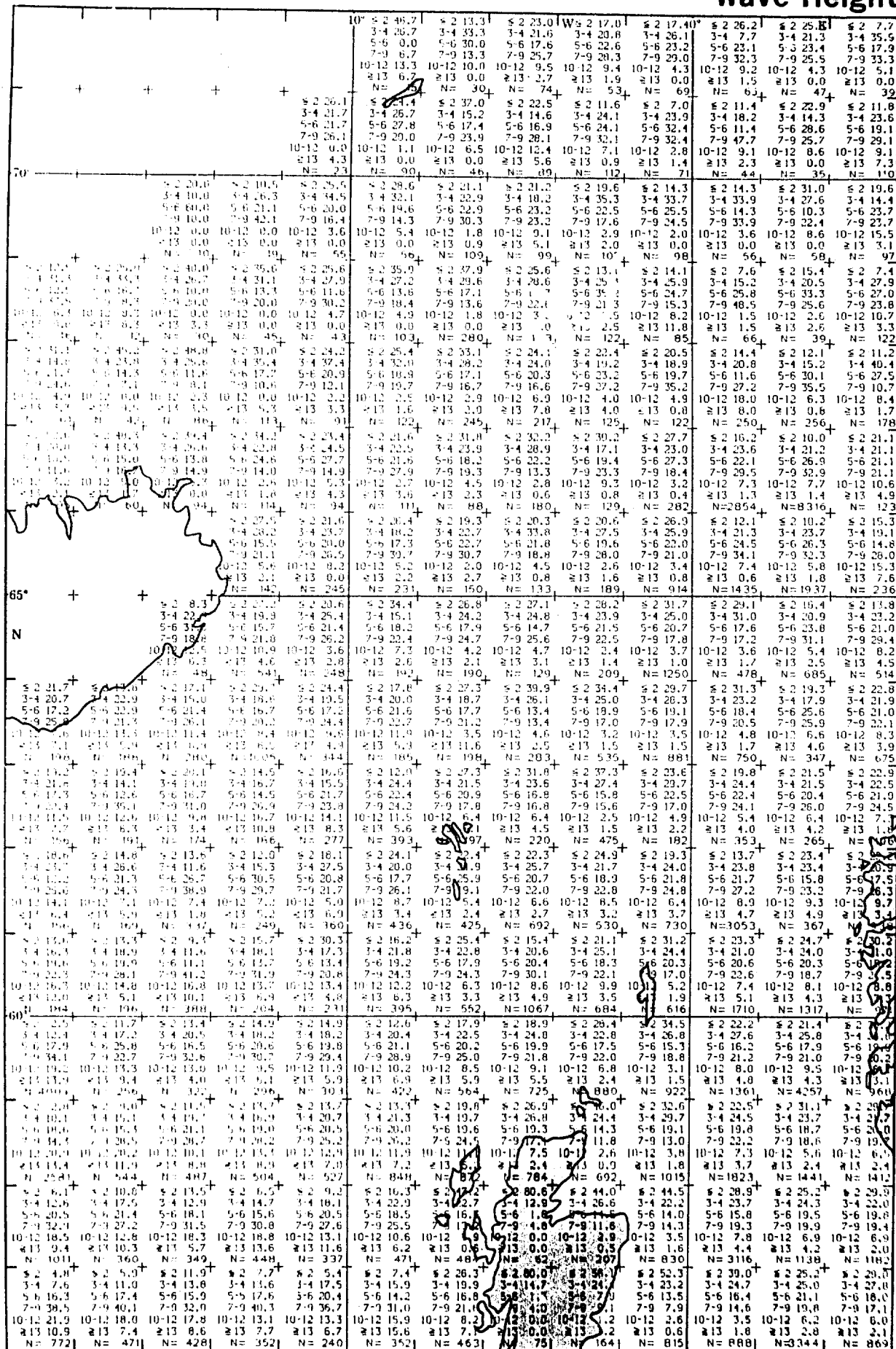
Wave Height ≥ 3 Ft. & Ice Concentration





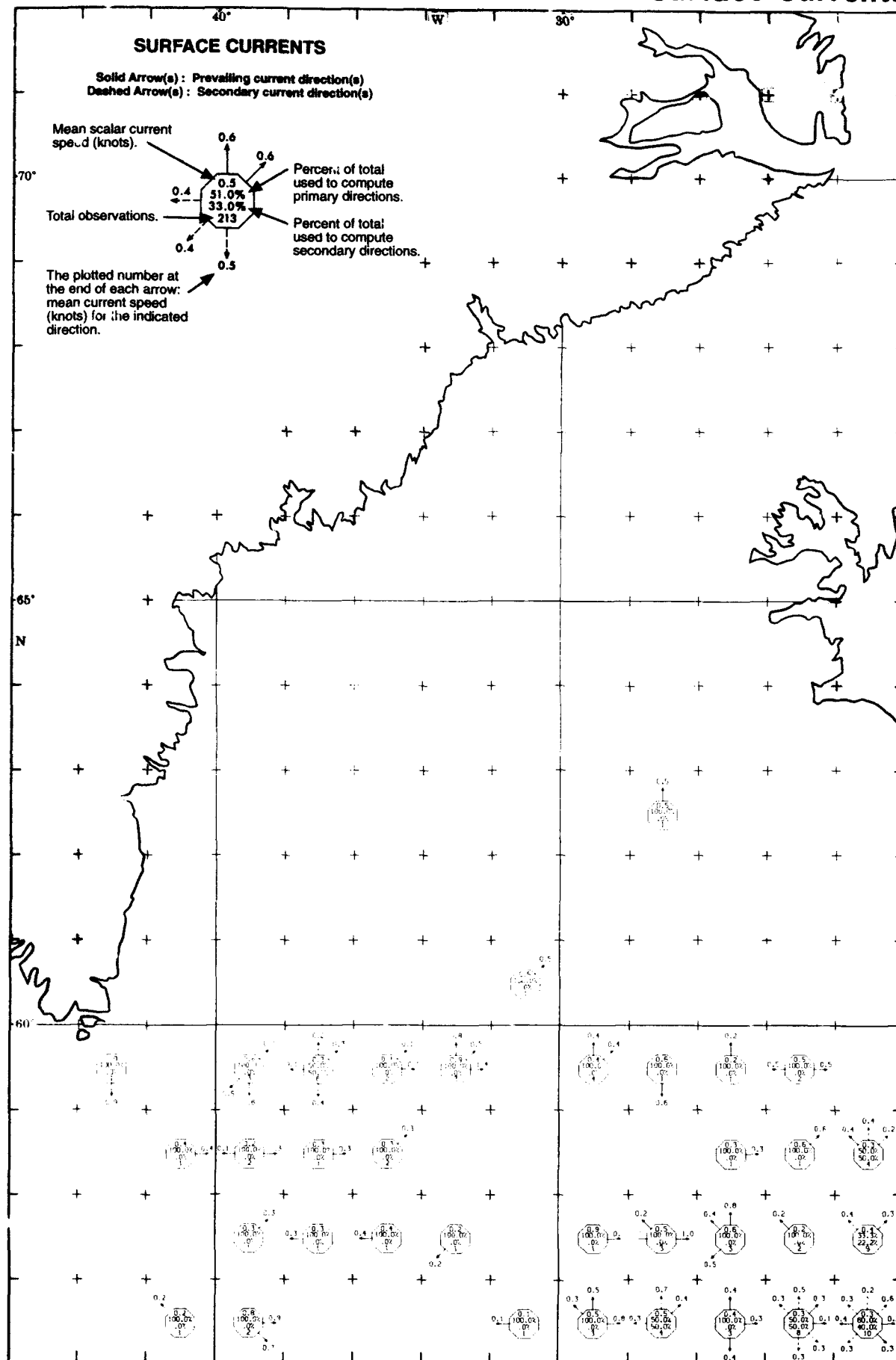
June

Wave Height



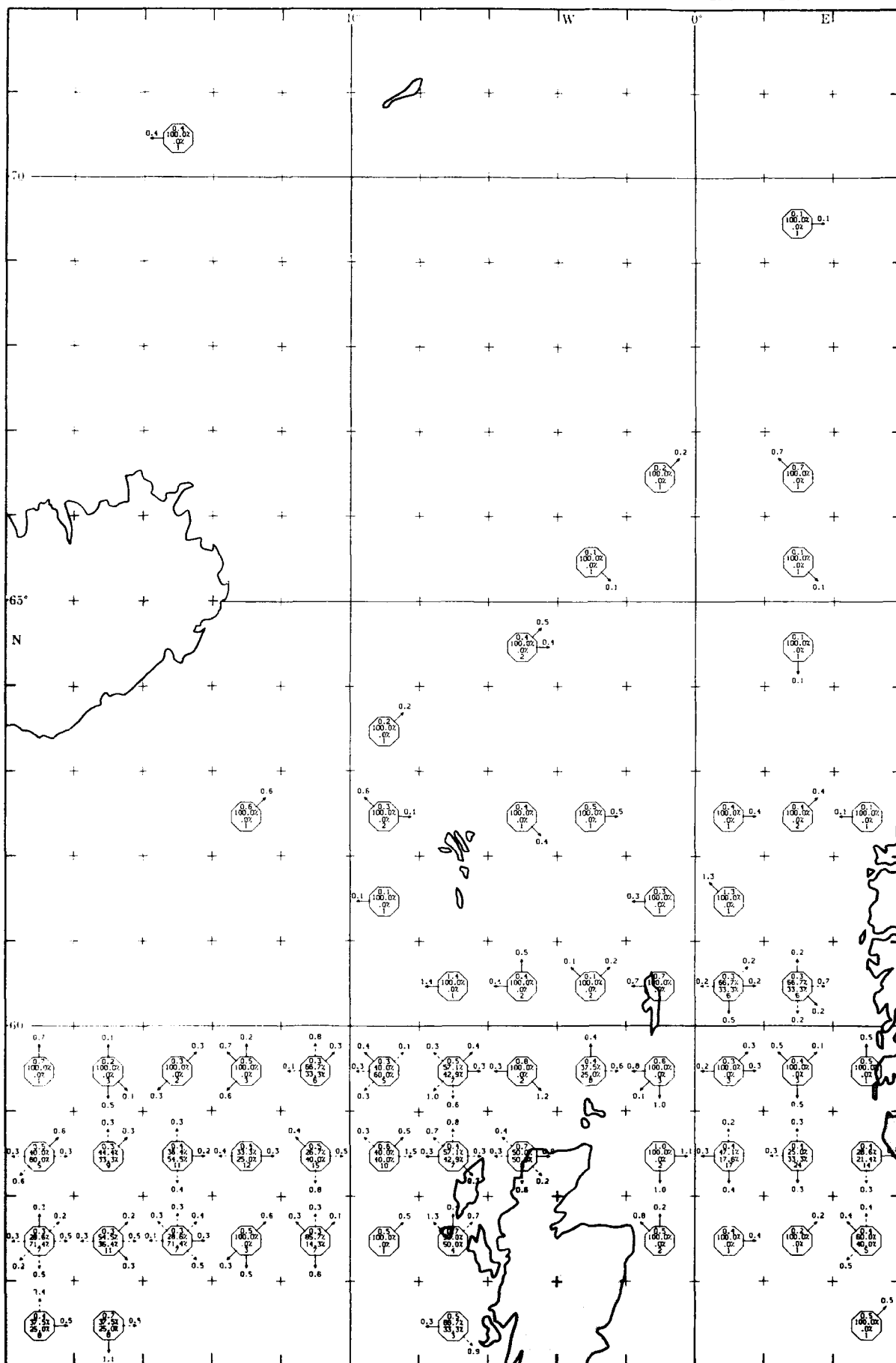
June

Surface Currents



June

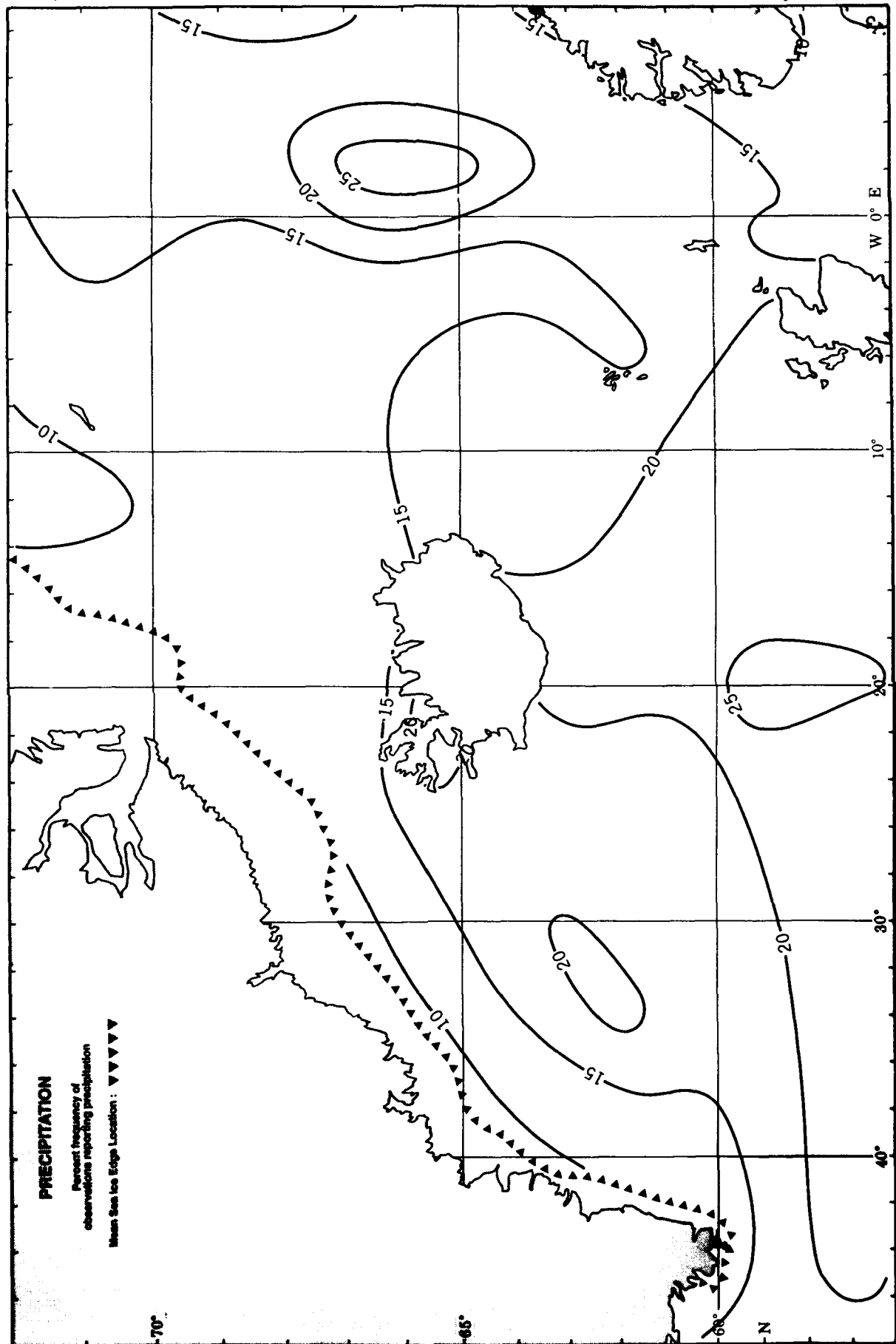
Surface Currents

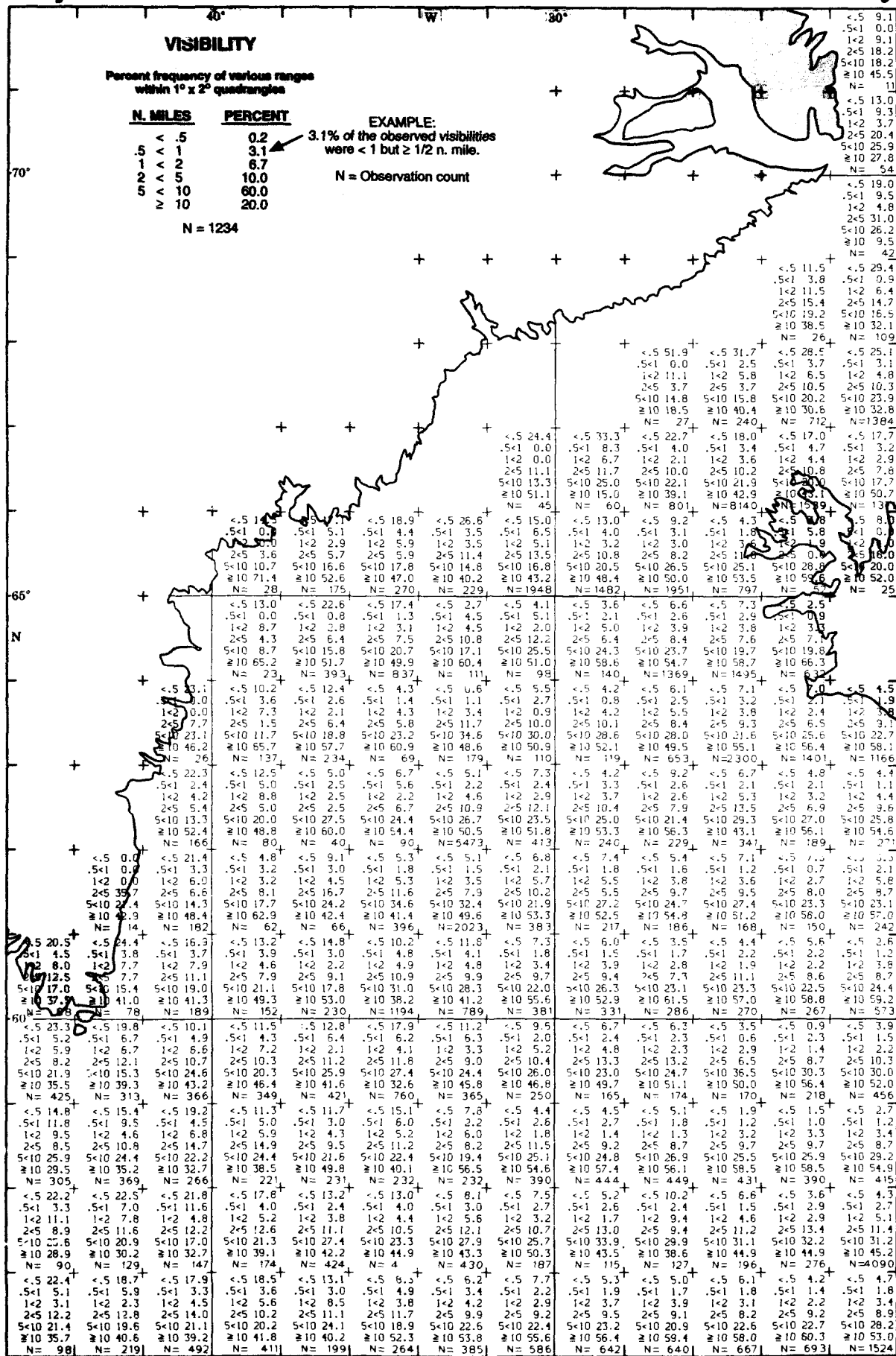


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July

Precipitation





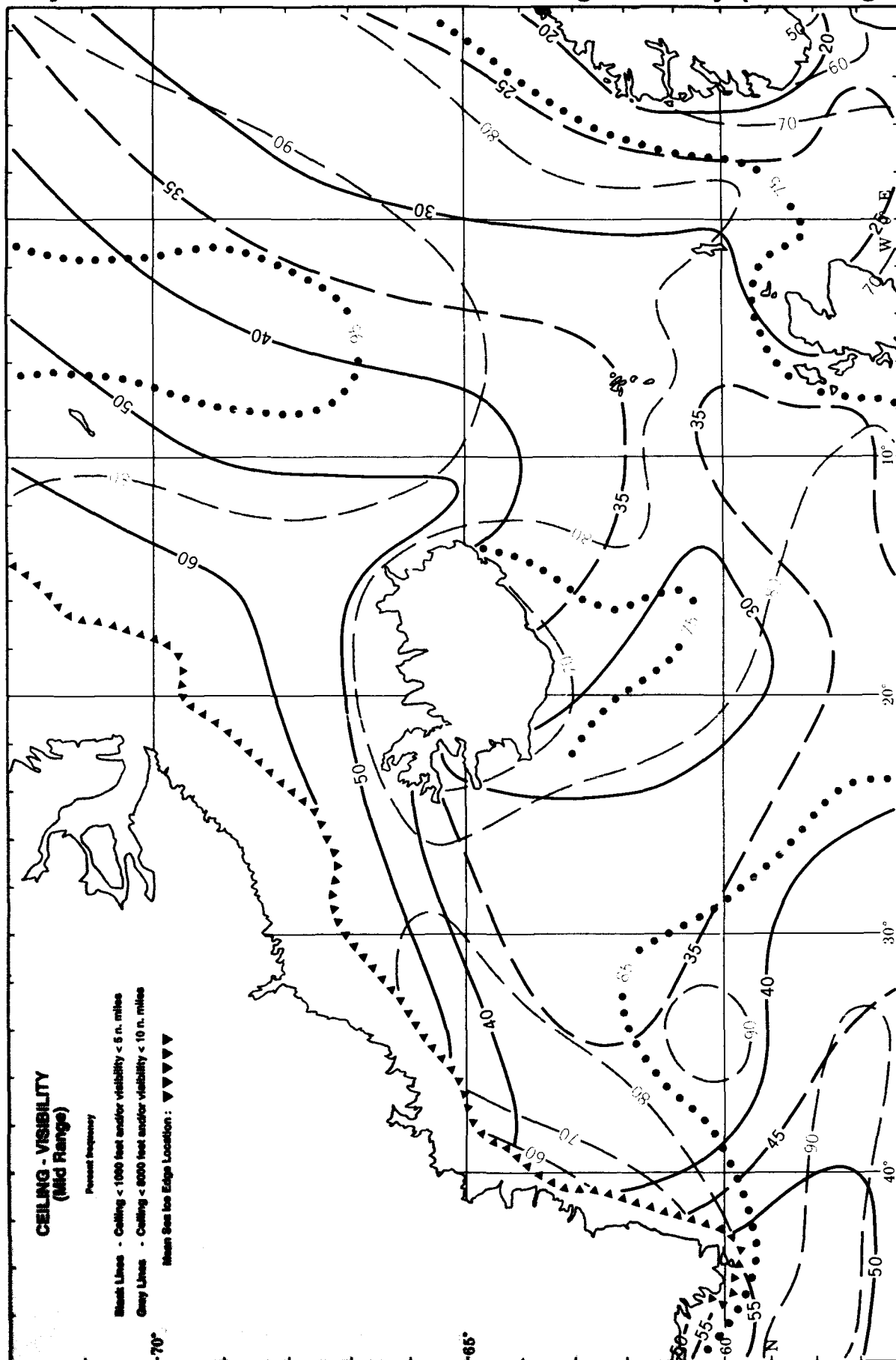
July

Visibility

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<5 14.8 5<1 3.7 1<2 3.7 2<5 33.3 5<10 18.5 N=27	<5 28.0 5<1 12.0 1<2 4.0 2<5 12.0 5<10 18.5 N=27	<5 24.2 5<1 12.1 1<2 6.1 2<5 18.2 5<10 15.2 N=33	<5 21.0 5<1 4.9 1<2 12.3 2<5 16.0 5<10 23.5 N=81	<5 9.4 5<1 3.3 1<2 4.6 2<5 15.3 5<10 36.8 N=175	<5 13.0 5<1 4.3 1<2 3.9 2<5 16.9 5<10 39.8 N=307	<5 16.5 5<1 2.9 1<2 4.9 2<5 18.4 5<10 39.8 N=206	<5 17.8 5<1 3.6 1<2 2.1 2<5 3.2 5<10 36.7 N=169	<5 6.3 5<1 2.1 1<2 1.2 2<5 3.2 5<10 69.5 N=95	<5 7.8 5<1 2.2 1<2 2.2 2<5 6.7 5<10 48.9 N=90	<5 15.4 5<1 3.4 1<2 2.6 2<5 9.4 5<10 31.6 N=117
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<5 21.6 5<1 3.6 1<2 6.6 2<5 15.0 5<10 25.7 N=73	<5 19.4 5<1 2.4 1<2 4.6 2<5 9.1 5<10 23.0 N=165	<5 26.0 5<1 0.0 1<2 4.6 2<5 14.5 5<10 20.2 N=173	<5 20.5 5<1 0.9 1<2 8.0 2<5 10.7 5<10 26.8 N=112	<5 24.5 5<1 2.0 1<2 2.9 2<5 11.8 5<10 28.4 N=102	<5 25.3 5<1 4.5 1<2 2.7 2<5 15.0 5<10 36.9 N=154	<5 15.4 5<1 4.8 1<2 5.0 2<5 14.3 5<10 31.0 N=538	<5 14.2 5<1 2.7 1<2 5.2 2<5 10.3 5<10 34.6 N=515	<5 14.6 5<1 2.4 1<2 5.1 2<5 7.9 5<10 31.0 N=622	<5 10.0 5<1 1.2 1<2 4.0 2<5 8.8 5<10 31.0 N=249	<5 1.4 5<1 0.1 1<2 2.3 2<5 9.6 5<10 30.2 N=261
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<5 3.1 5<1 2.0 1<2 3.3 2<5 7.7 5<10 24.3 N=2859	<5 2.1 5<1 2.3 1<2 3.1 2<5 10.2 5<10 30.7 N=817	<5 3.1 5<1 2.1 1<2 4.1 2<5 8.6 5<10 28.5 N=615	<5 4.9 5<1 1.9 1<2 4.1 2<5 10.5 5<10 27.1 N=776	<5 5.8 5<1 3.9 1<2 4.9 2<5 9.6 5<10 25.6 N=893	<5 2.8 5<1 1.6 1<2 3.3 2<5 9.3 5<10 28.6 N=1124	<5 3.3 5<1 1.9 1<2 2.7 2<5 8.3 5<10 26.9 N=1542	<5 4.4 5<1 2.5 1<2 3.3 2<5 8.3 5<10 28.0 N=1544	<5 4.5 5<1 1.5 1<2 2.3 2<5 8.5 5<10 30.9 N=1777	<5 3.5 5<1 1.5 1<2 2.0 2<5 9.8 5<10 35.9 N=3055	<5 2.3 5<1 2.0 1<2 3.0 2<5 9.4 5<10 50.2 N=2266
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<5 4.4 5<1 2.5 1<2 3.5 2<5 7.8 5<10 28.0 N=1497	<5 4.9 5<1 2.8 1<2 3.7 2<5 8.7 5<10 26.9 N=985	<5 3.3 5<1 3.3 1<2 3.8 2<5 7.6 5<10 24.0 N=839	<5 5.3 5<1 4.0 1<2 3.0 2<5 7.3 5<10 28.8 N=657	<5 3.6 5<1 4.0 1<2 4.0 2<5 9.9 5<10 26.4 N=402	<5 2.1 5<1 2.5 1<2 3.4 2<5 10.0 5<10 23.5 N=793	<5 1.2 5<1 2.4 1<2 2.8 2<5 9.8 5<10 23.5 N=250	<5 1.9 5<1 3.1 1<2 2.6 2<5 8.1 5<10 31.0 N=691	<5 1.4 5<1 1.5 1<2 2.3 2<5 8.1 5<10 31.0 N=916	<5 2.4 5<1 1.1 1<2 3.5 2<5 9.4 5<10 33.1 N=1234	<5 1.9 5<1 1.4 1<2 3.6 2<5 10.5 5<10 29.9 N=4352

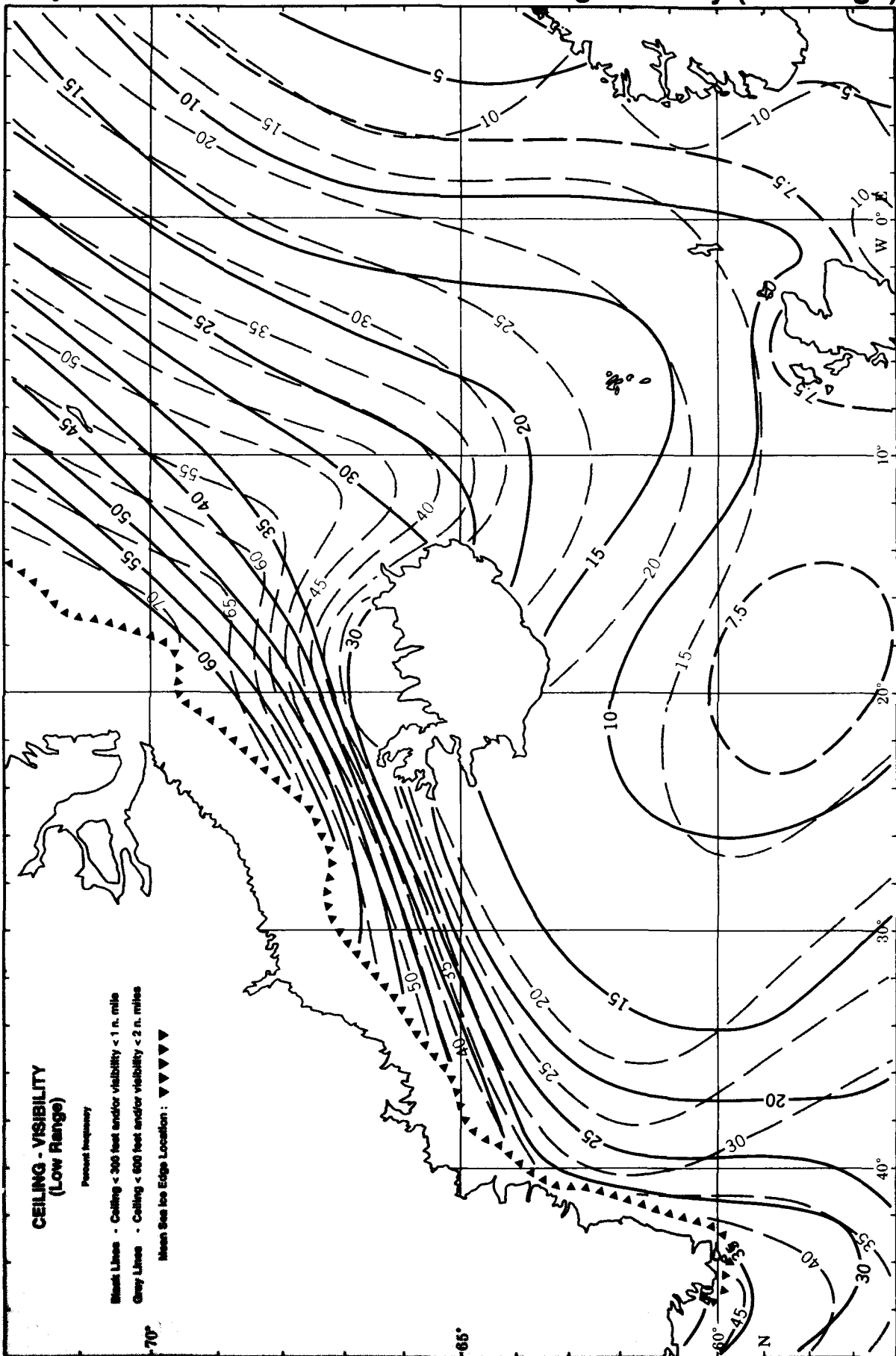
July

Ceiling-Visibility (mid range)



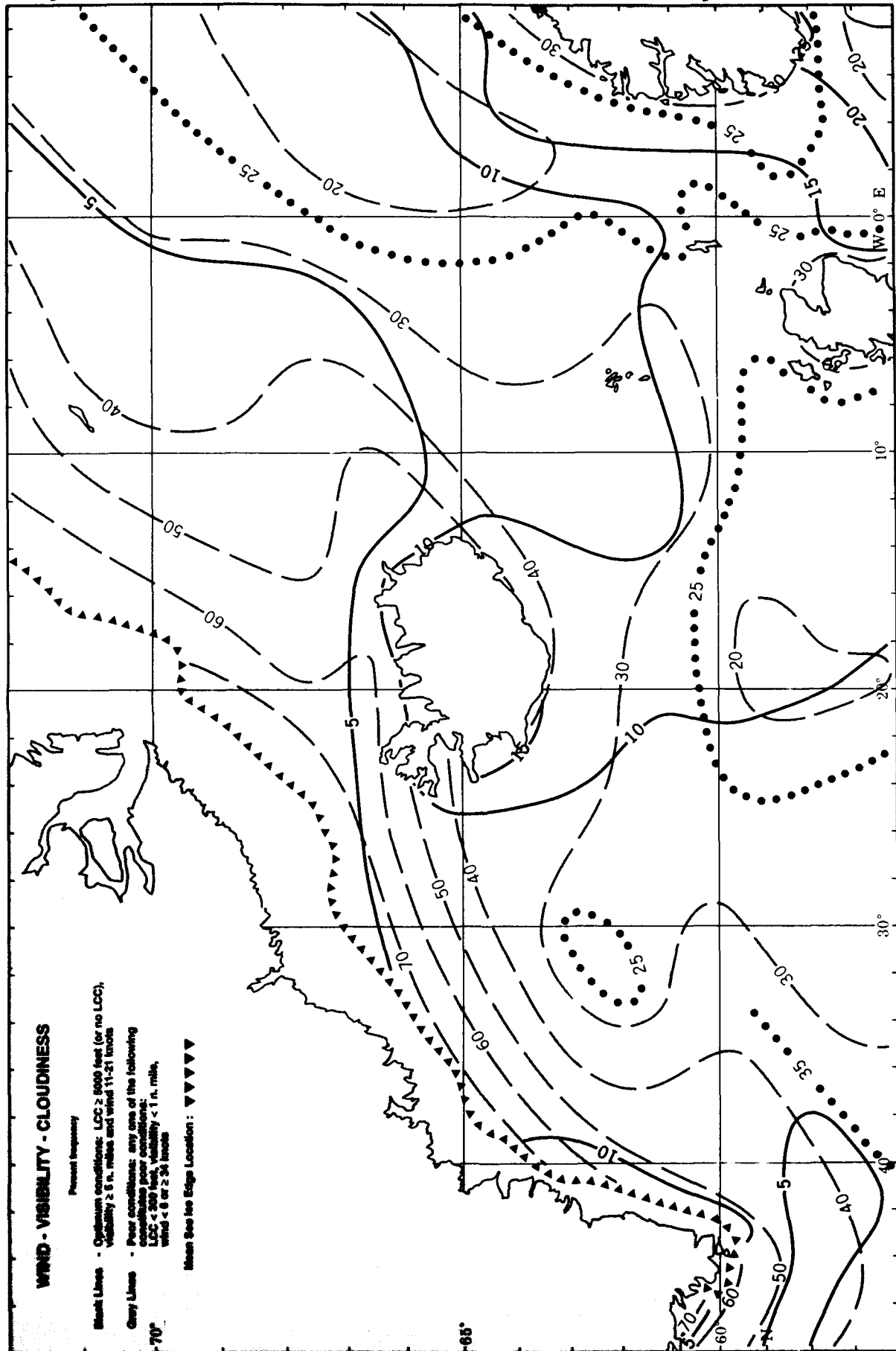
July

Ceiling-Visibility (low range)



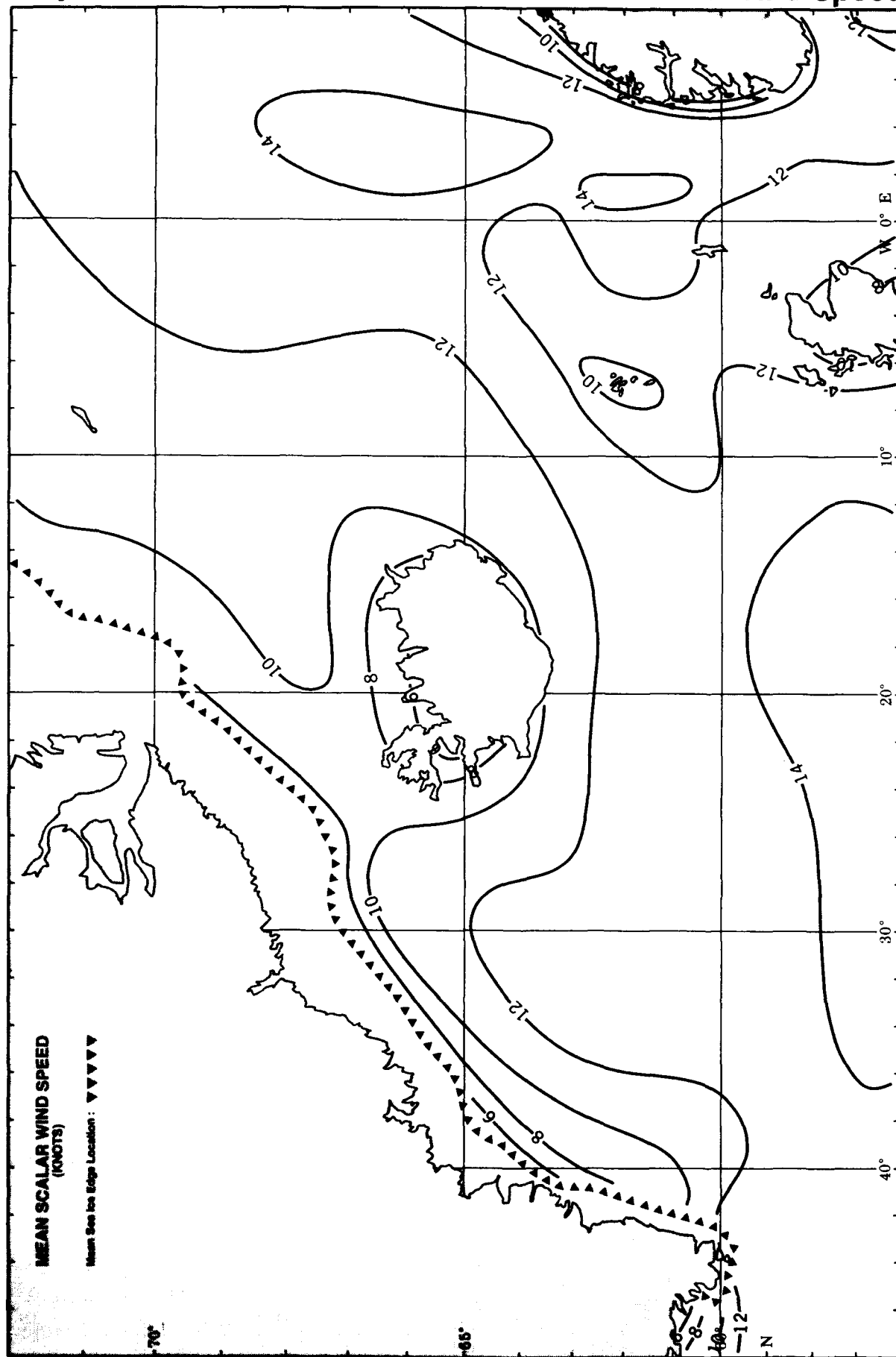
July

Wind-Visibility-Cloudiness



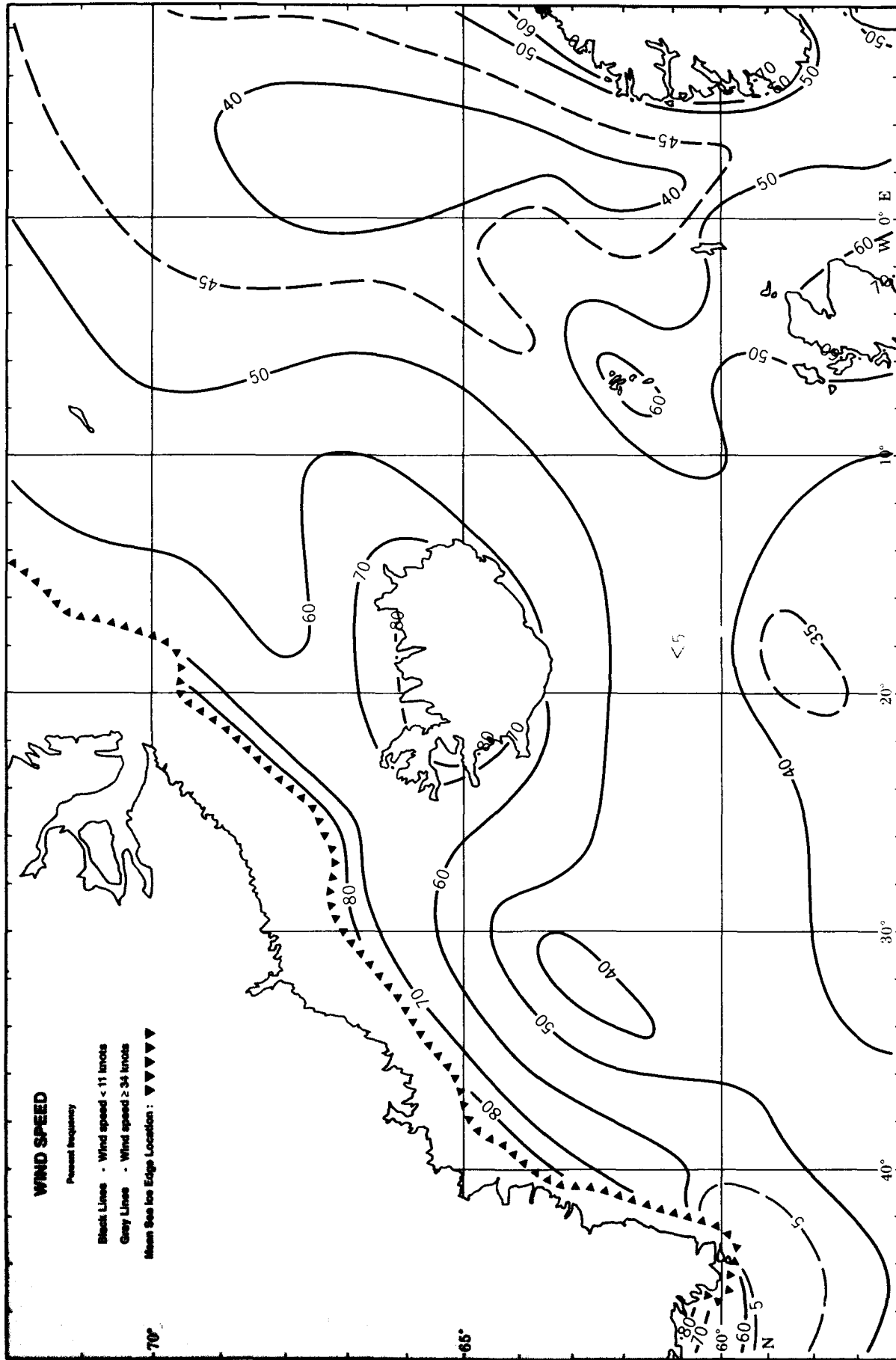
July

Mean Scalar Wind Speed



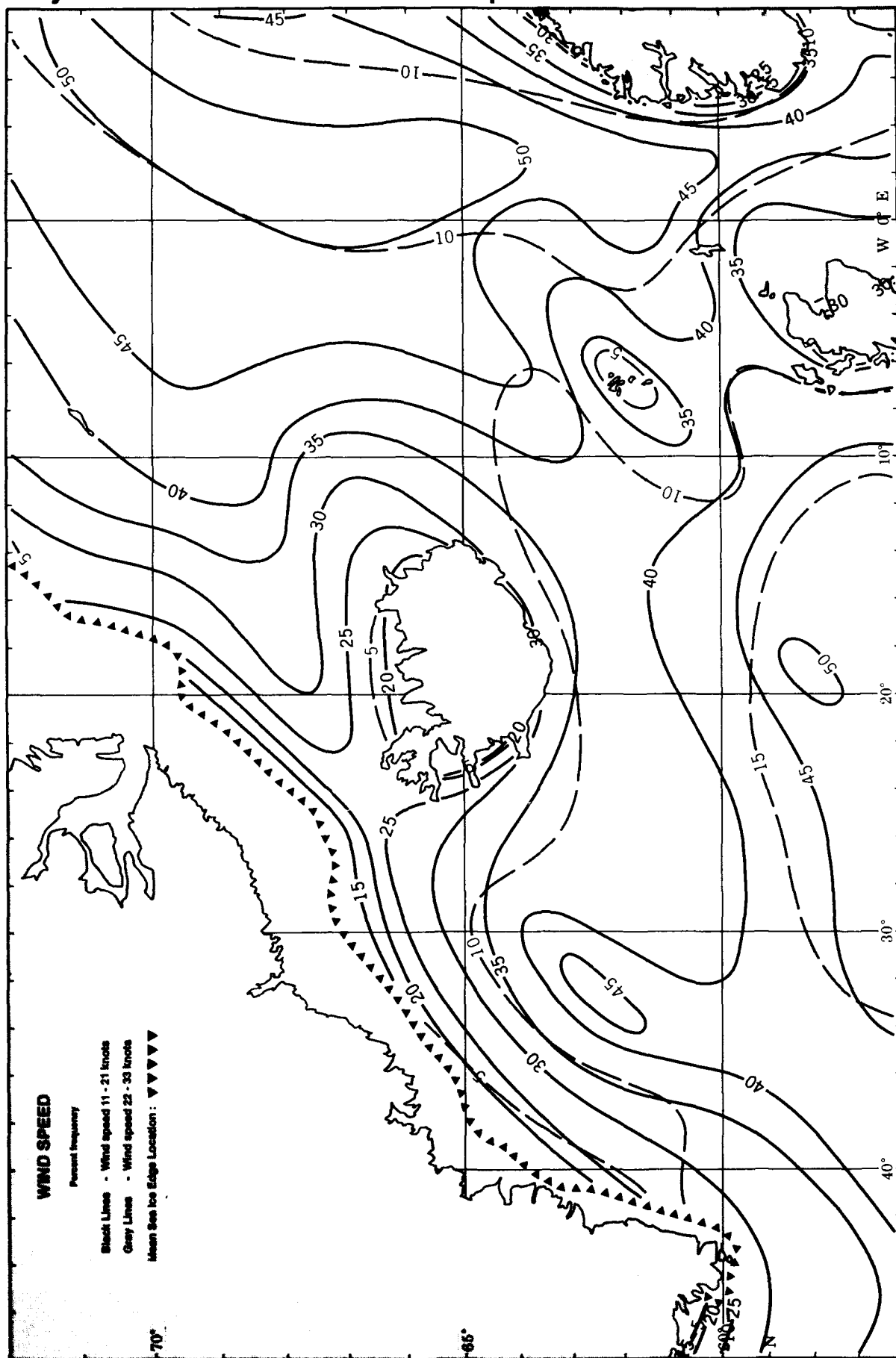
July

Wind Speed < 11 and ≥ 34 Knots



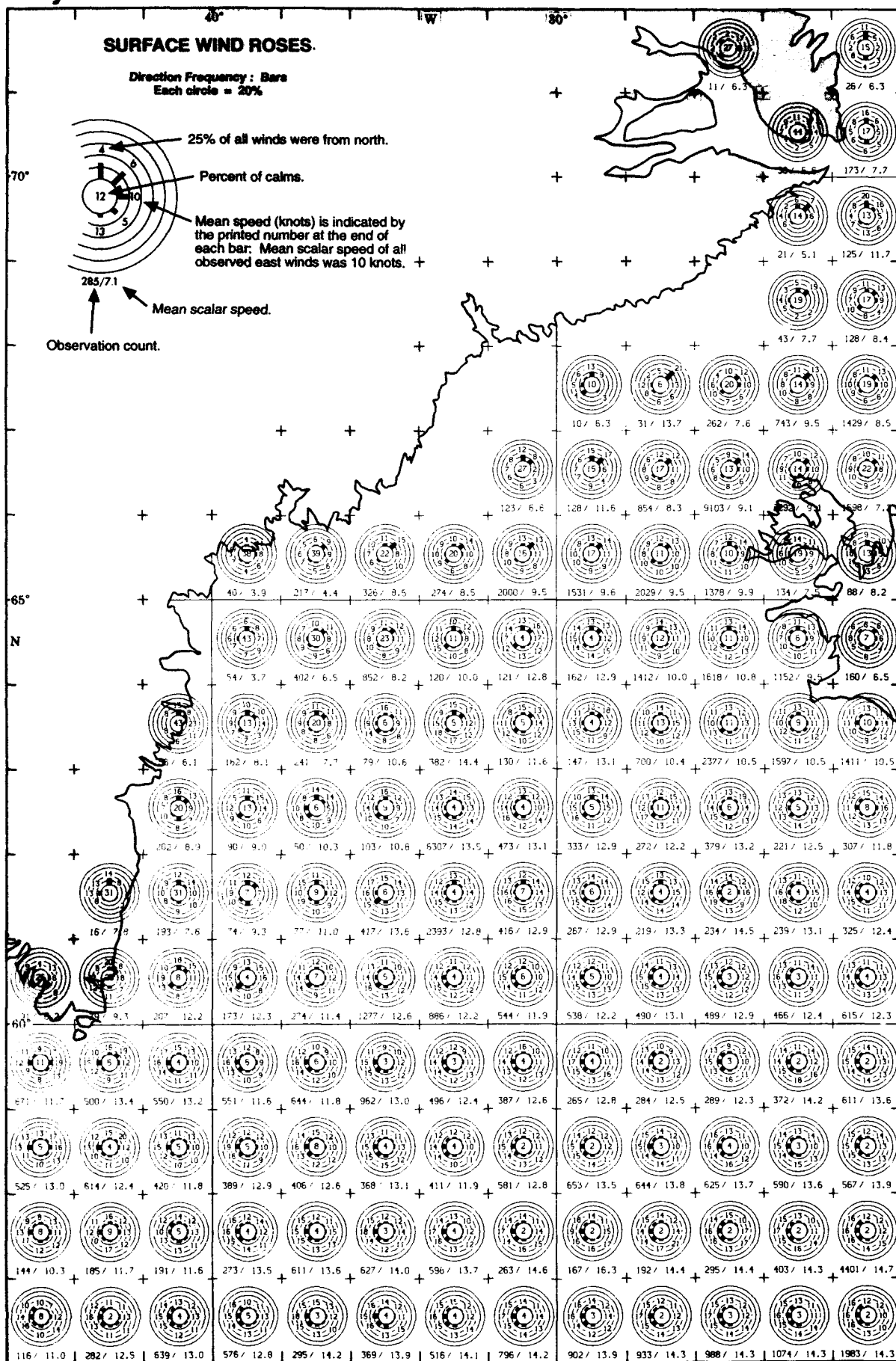
July

Wind Speed 11-21 and 22-33 Knots



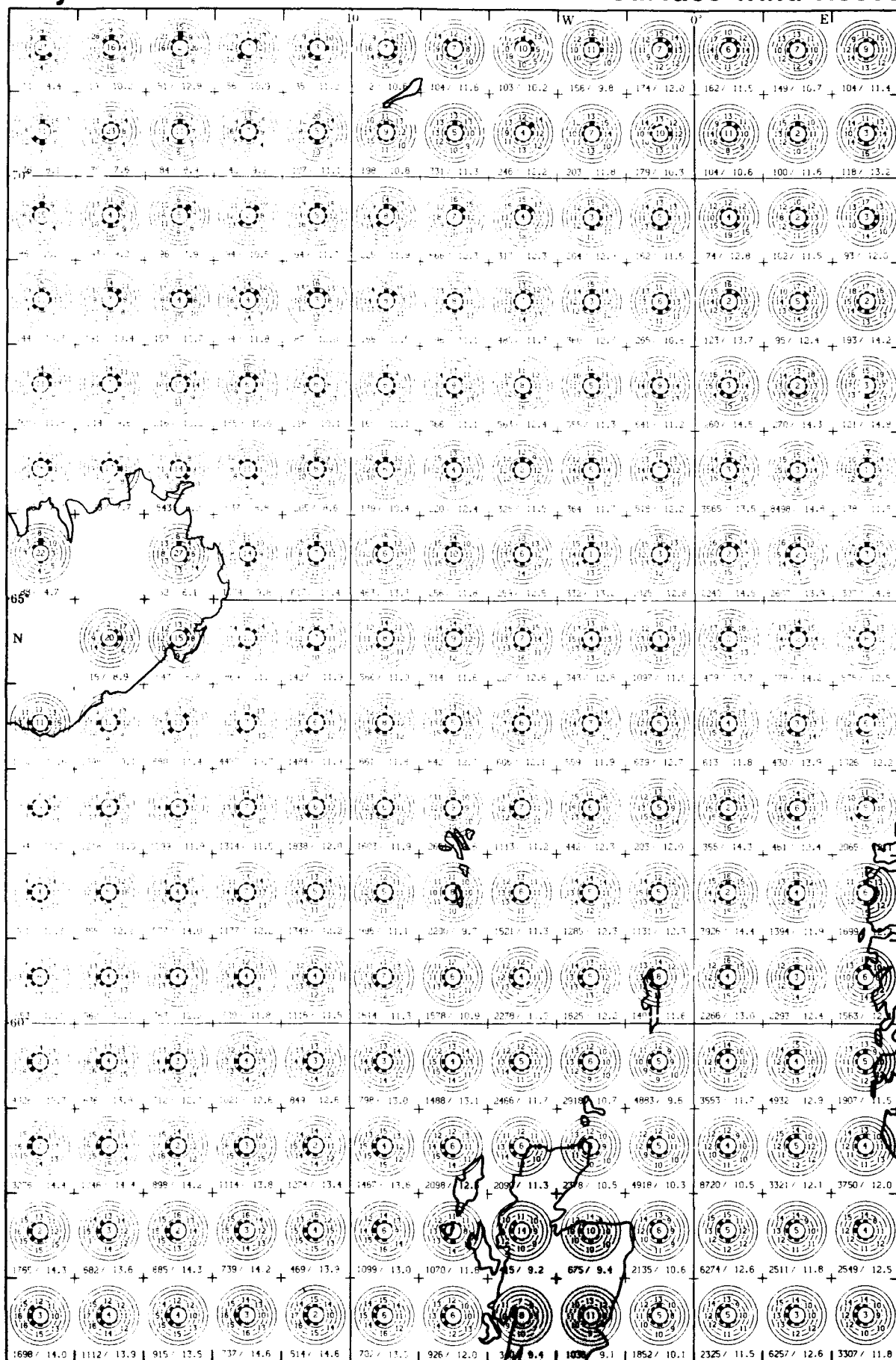
July

Surface Wind Roses



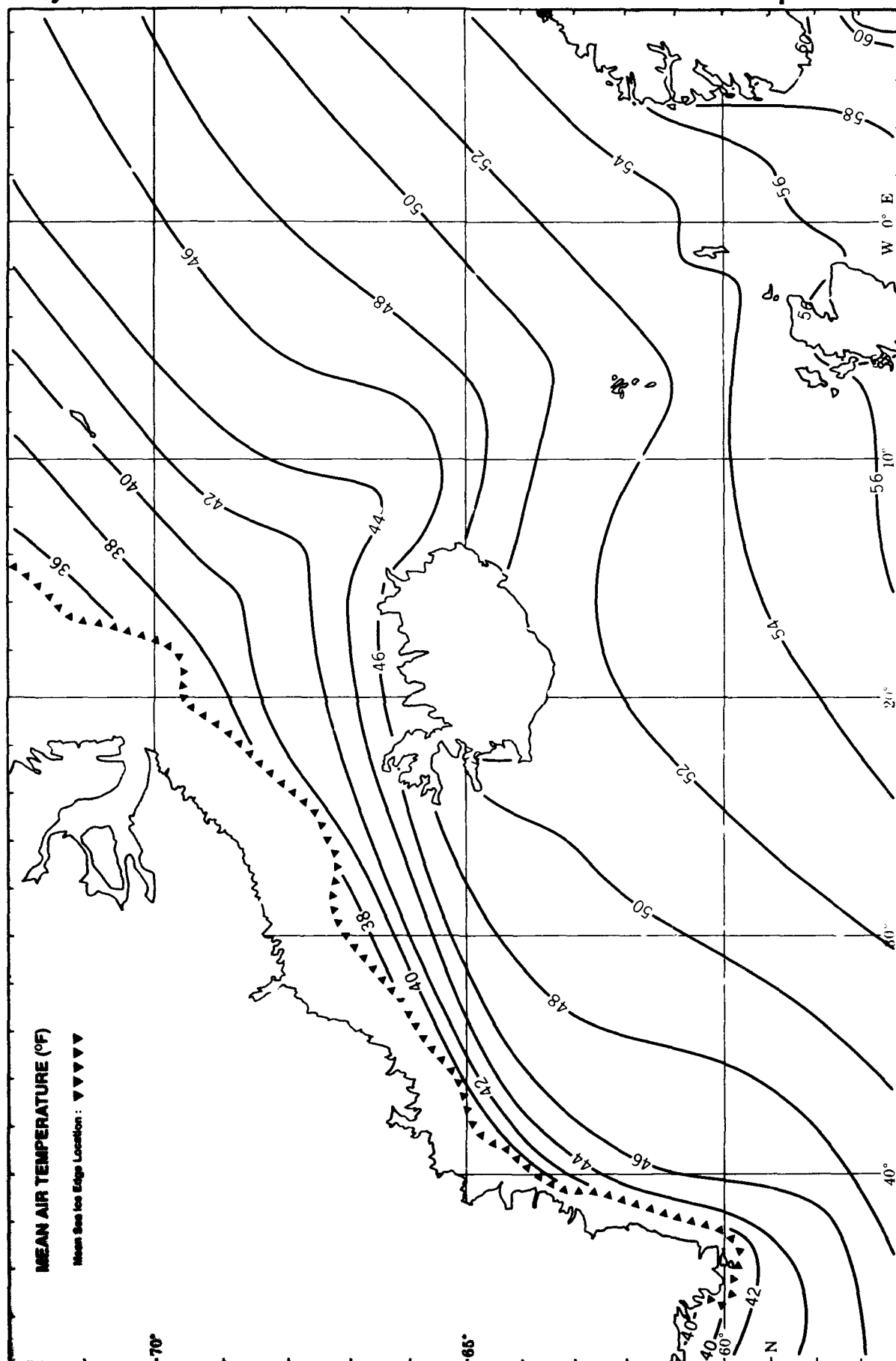
July

Surface Wind Roses



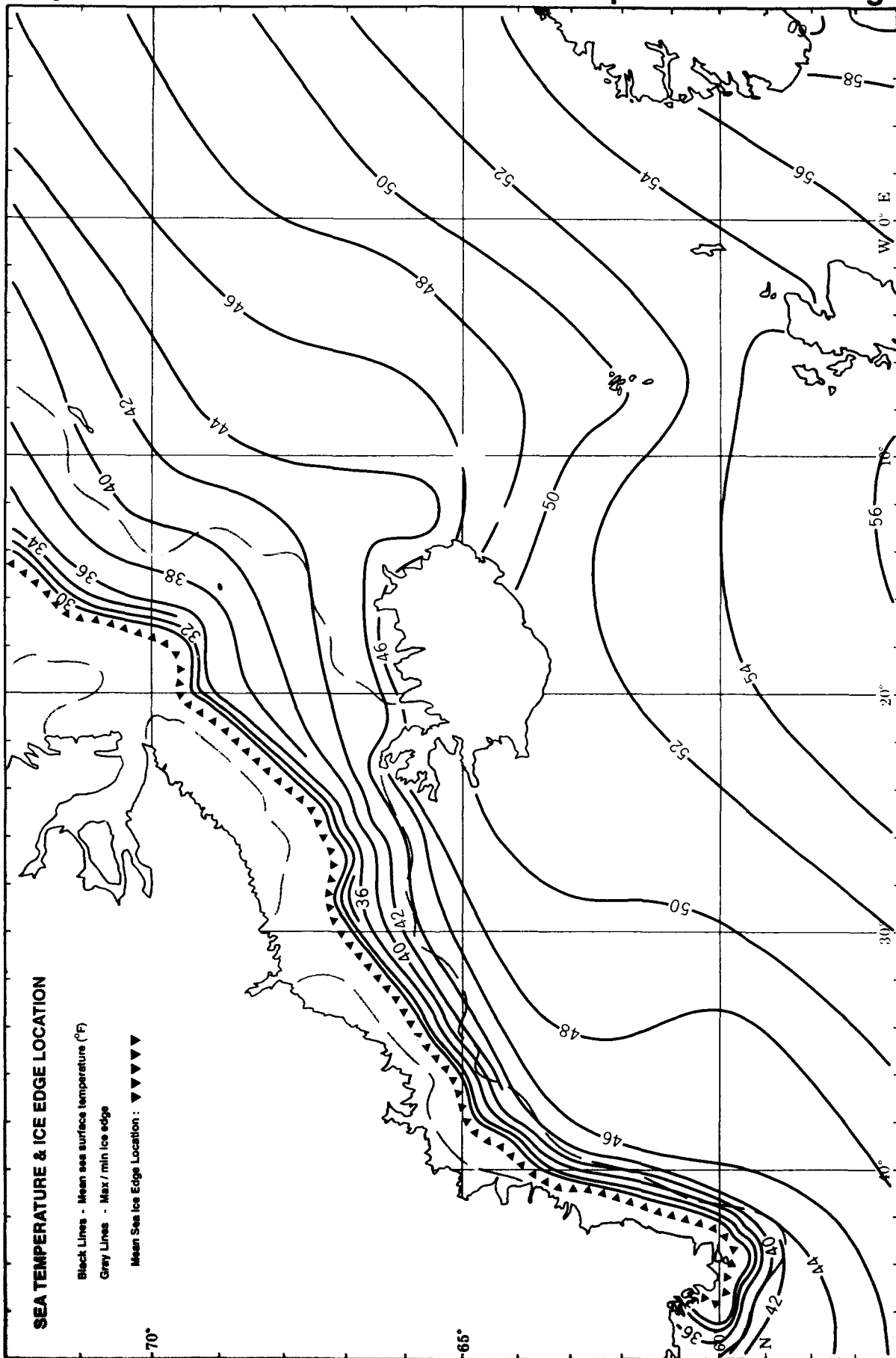
Mean Air Temperature

Mean Air Temperature



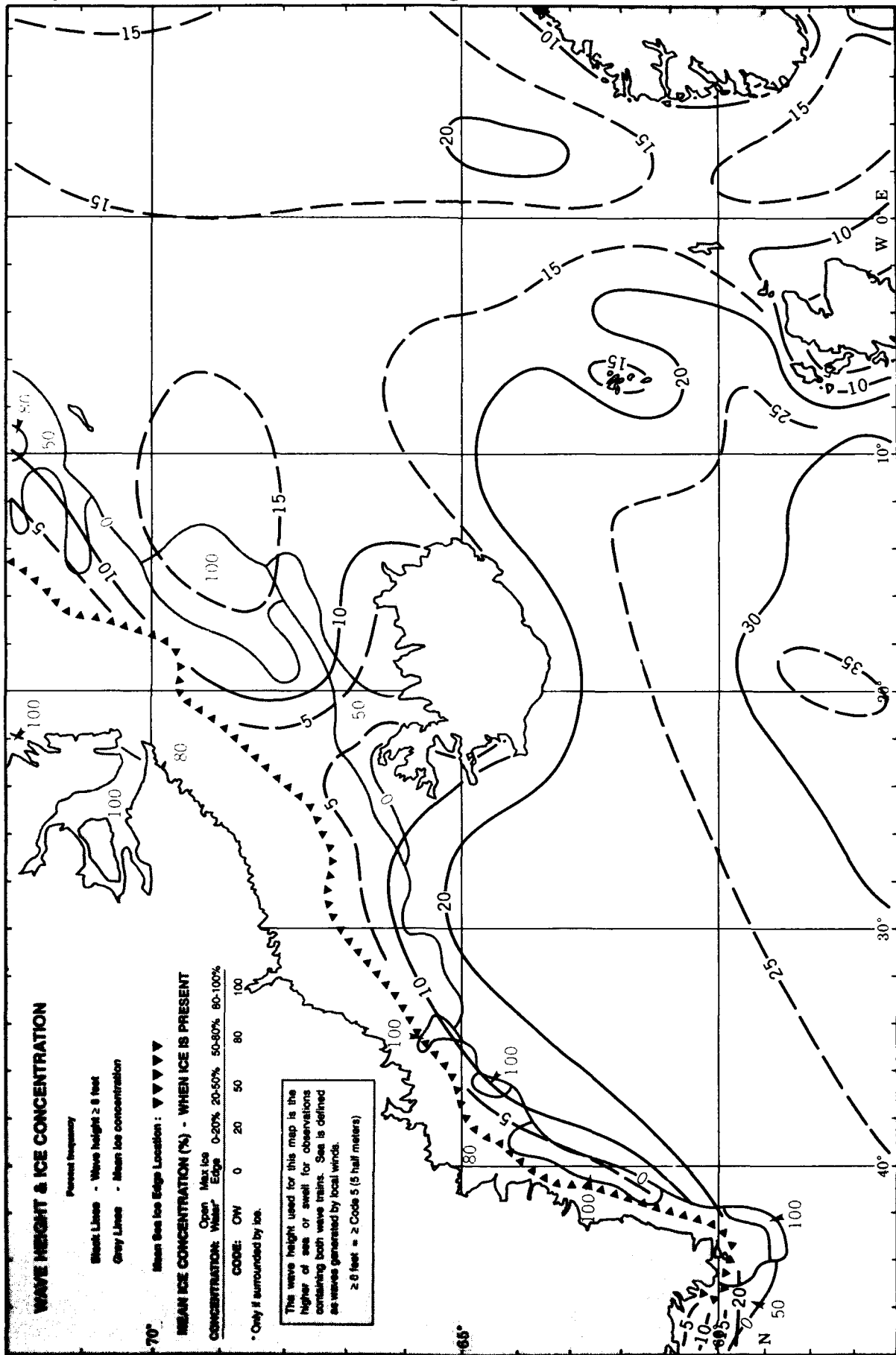
July

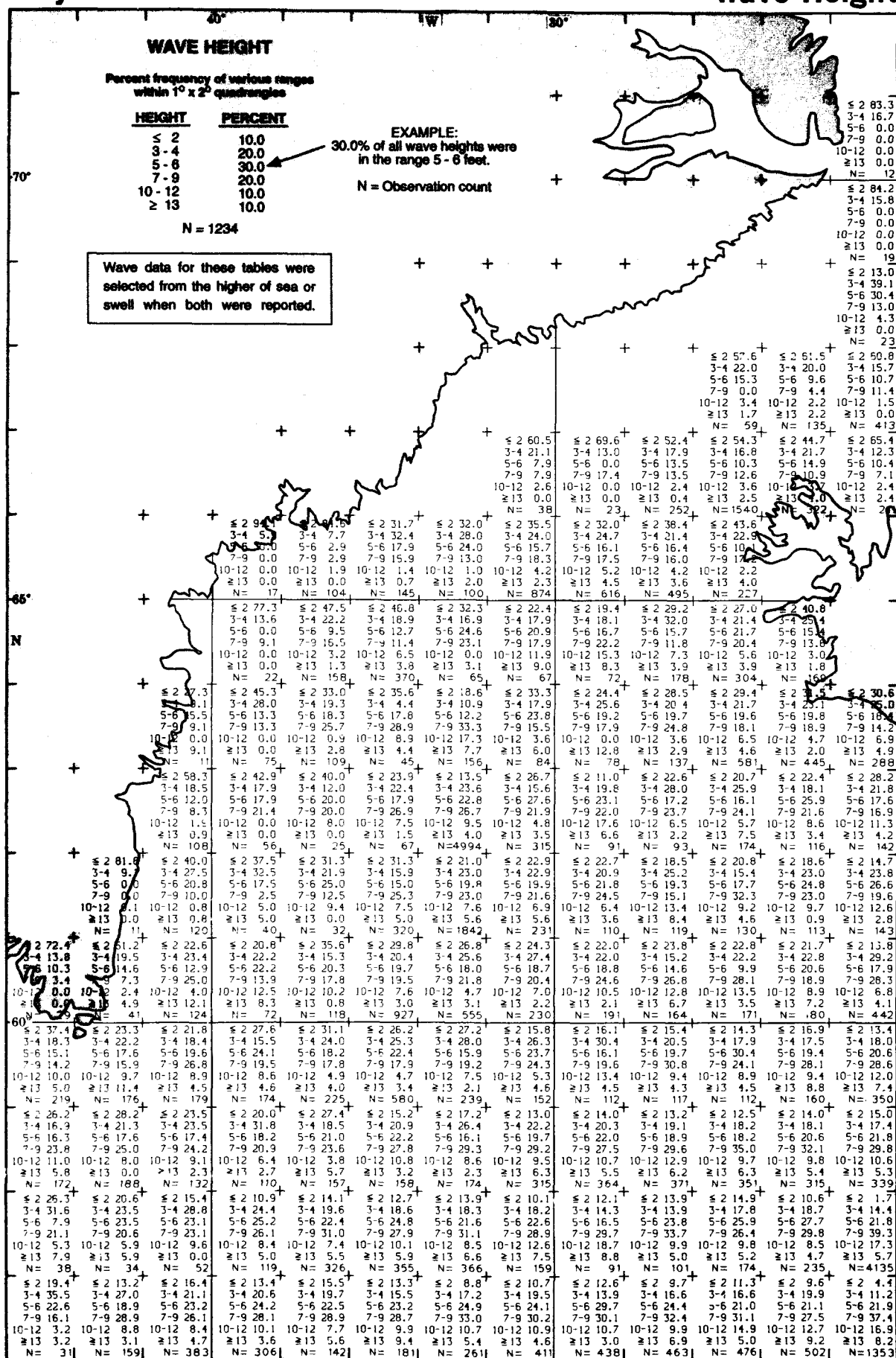
Mean Sea Temperature & Ice Edge



July

Wave Height ≥ 8 Ft. & Ice Concentration





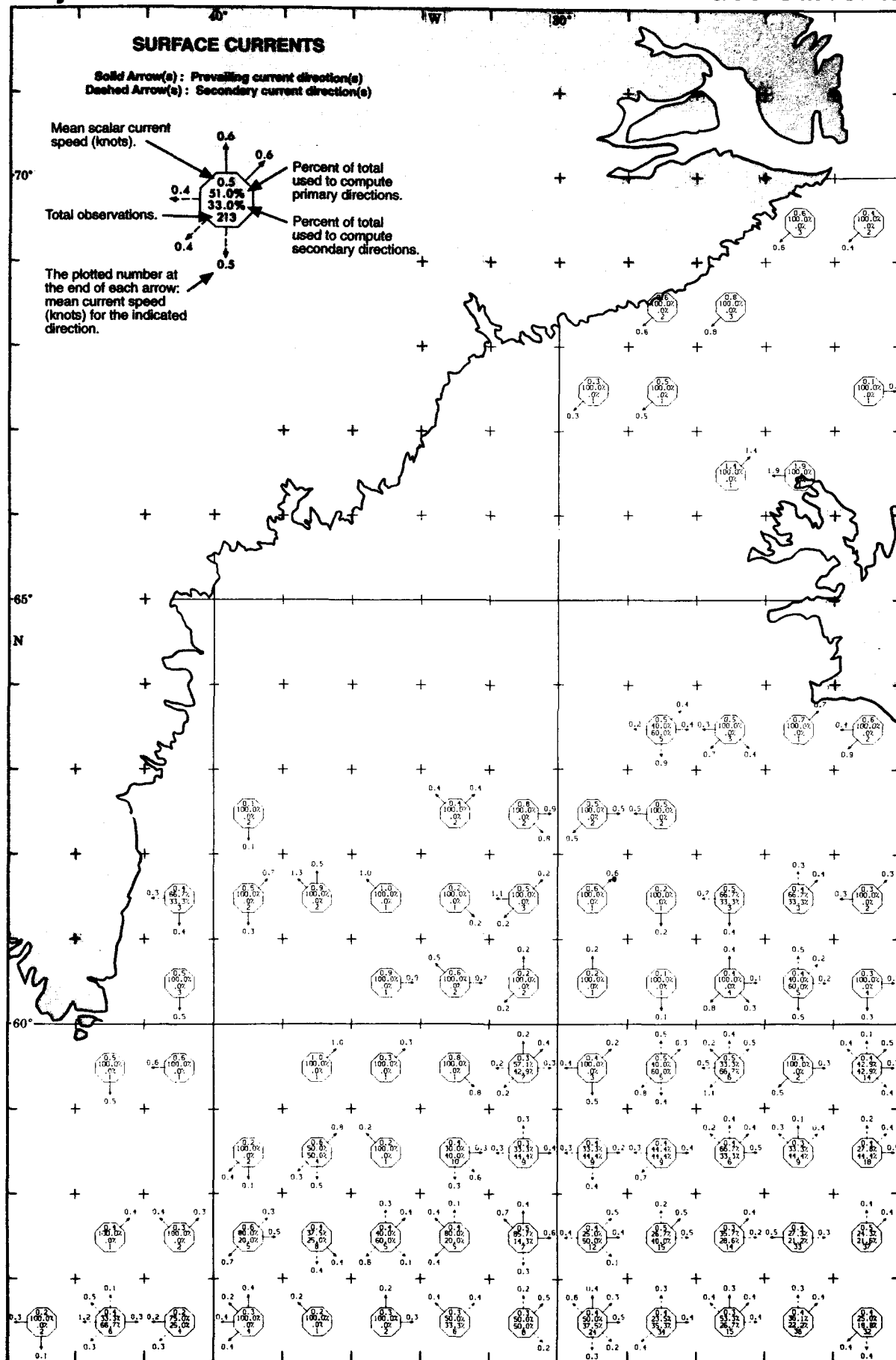
July

Wave Height

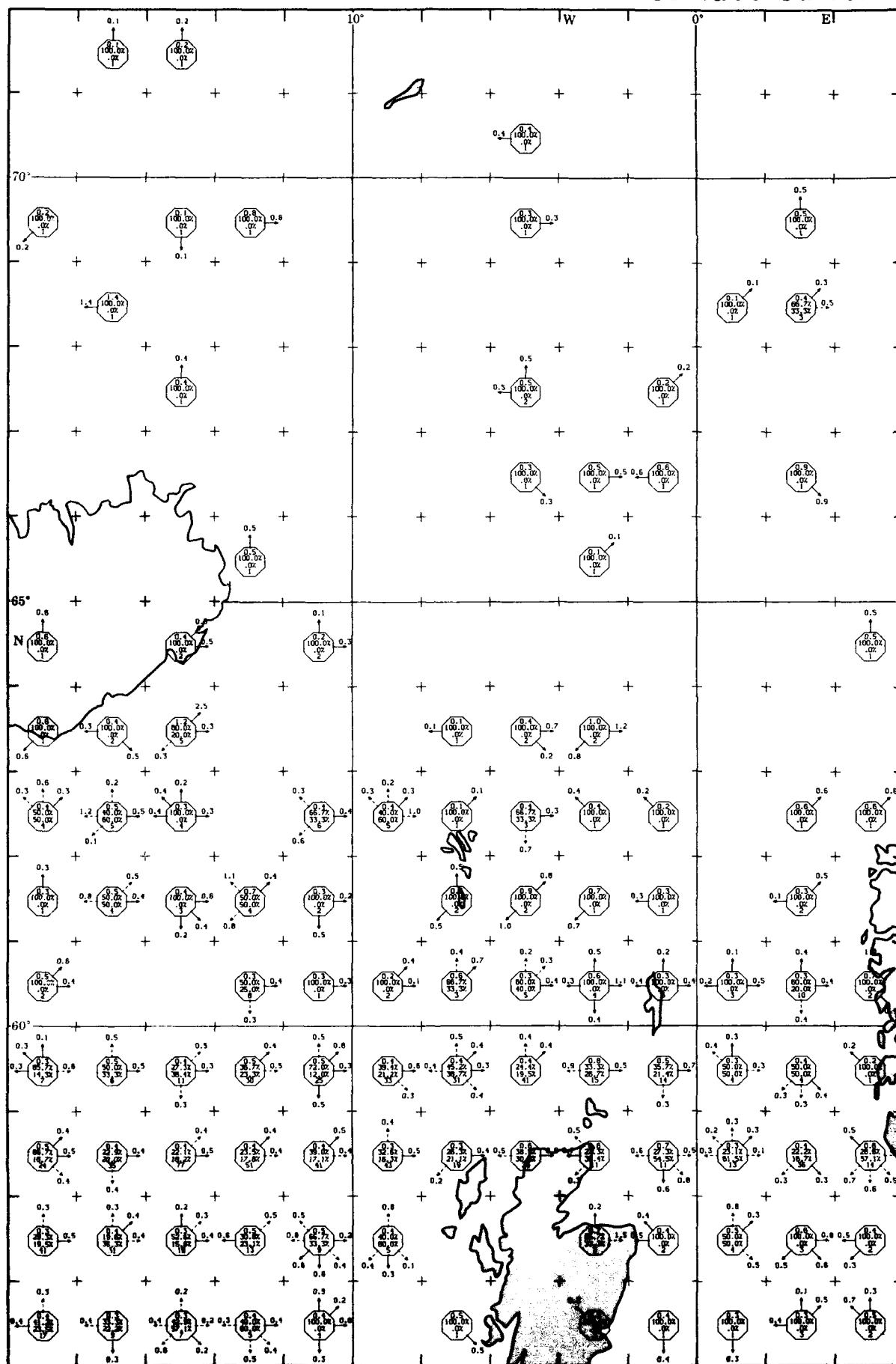
	70°	65°	60°	55°	50°	45°	40°	35°	30°	25°	20°	15°	10°	5°	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	
1	2 38.5	2 44.0	2 46.210°	2 45.8	2 22.4	2 13.9	2 20.6	2 18.20°	2 17.7	2 21.21°	2 18.0																			
2	3 46.2	3 46.0	3 42.31°	3 41.9	3 41.79	3 43.89	3 42.52	3 43.77	3 42.37	3 42.65	3 41.80																			
3	5 15.4	5 12.0	5 6 7.7	5 6 13.6	5 6 26.9	5 6 26.4	5 6 32.8	5 6 20.1	5 6 27.2	5 6 29.4	5 6 30.3																			
4	7 9 0.0	7 9 16.0	7 9 15.4	7 9 18.6	7 9 38.4	7 9 19.4	7 9 18.3	7 9 19.5	7 9 19.5	7 9 22.1	7 9 28.1																			
5	10 12 0.0	10 12 0.0	10 12 7.7	10 12 3.4	10 12 4.5	10 12 1.4	10 12 3.1	10 12 3.8	10 12 3.4	10 12 0.7	10 12 5.6																			
6	13 0.0	13 0.0	13 0.0	13 1.7	13 0.0	13 0.0	13 0.0	13 0.0	13 0.0	13 0.0	13 0.0																			
7	N=13	N=25	N=13	N=67	N=72	N=131	N=159	N=147	N=136	N=82																				
8	2 46.7	2 34.6	2 33.3	2 24.6	2 21.7	2 17.7	2 27.0	2 26.7	2 27.0	2 26.9	2 15.4																			
9	3 4 20.0	3 4 23.1	3 4 26.7	3 4 26.1	3 4 33.6	3 4 25.4	3 4 28.8	3 4 25.3	3 4 22.6	3 4 18.3	3 4 18.3																			
10	5 6 20.0	5 6 21.2	5 6 16.7	5 6 24.6	5 6 23.7	5 6 22.4	5 6 21.9	5 6 22.0	5 6 26.4	5 6 26.4	5 6 21.2																			
11	7 9 13.3	7 9 17.3	7 9 16.7	7 9 21.7	7 9 15.1	7 9 26.8	7 9 26.0	7 9 29.6	7 9 18.2	7 9 18.2	7 9 32.7																			
12	10 12 0.0	10 12 1.4	10 12 6.7	10 12 1.4	10 12 3.9	10 12 3.3	10 12 4.2	10 12 4.3	10 12 3.1	10 12 3.6	10 12 9.6																			
13	13 0.0	13 0.0	13 0.0	13 1.4	13 2.0	13 0.3	13 1.4	13 1.1	13 2.5	13 0.0	13 2.9																			
14	N=15	N=52	N=30	N=69	N=152	N=299	N=215	N=186	N=159	N=84	N=104																			
15	2 42.9	2 41.5	2 30.4	2 16.7	2 25.7	2 28.1	2 30.7	2 25.8	2 30.6	2 18.8	2 29.9	2 25.6																		
16	3 4 8.3	3 4 23.8	3 4 31.7	3 4 22.9	3 4 31.5	3 4 22.3	3 4 23.4	3 4 31.9	3 4 25.0	3 4 18.8	3 4 19.5	3 4 28.2																		
17	5 6 12.5	5 6 0.0	5 6 7.3	5 6 33.3	5 6 22.2	5 6 20.1	5 6 19.9	5 6 16.9	5 6 22.0	5 6 21.5	5 6 24.4	5 6 24.4																		
18	7 9 4.2	7 9 19.0	7 9 12.2	7 9 25.0	7 9 24.1	7 9 22.9	7 9 25.1	7 9 21.4	7 9 17.0	7 9 15.3	7 9 19.5	7 9 20.5																		
19	10 12 16.7	10 12 9.5	10 12 4.9	10 12 8.3	10 12 5.6	10 12 6.7	10 12 3.5	10 12 5.9	10 12 3.3	10 12 6.9	10 12 1.3	10 12 1.3																		
20	13 0.0	13 4.8	13 2.4	13 0.0	13 0.0	13 1.3	13 1.7	13 0.0	13 0.0	13 1.4	13 1.1	13 0.0																		
21	N=24	N=21	N=4	N=48	N=54	N=179	N=634	N=290	N=182	N=144	N=69	N=78																		
22	2 41.4	2 32.6	2 26.5	2 25.0	2 19.9	2 24.0	2 29.3	2 24.2	2 23.9	2 19.8	2 22.7	2 18.6																		
23	3 4 20.7	3 4 18.6	3 4 24.5	3 4 16.7	3 4 17.2	3 4 19.9	3 4 27.6	3 4 23.1	3 4 26.0	3 4 20.0	3 4 23.3	3 4 23.3																		
24	5 6 20.7	5 6 27.9	5 6 20.4	5 6 25.0	5 6 6.9	5 6 22.8	5 6 19.0	5 6 23.8	5 6 22.4	5 6 18.8	5 6 22.7	5 6 20.9																		
25	7 9 6.9	7 9 11.6	7 9 14.3	7 9 13.9	7 9 27.6	7 9 33.8	7 9 16.2	7 9 21.3	7 9 23.6	7 9 13.6	7 9 18.7	7 9 22.1																		
26	10 12 10.3	10 12 7.0	10 12 6.1	10 12 8.3	10 12 17.2	10 12 12.7	10 12 2.1	10 12 3.0	10 12 1.7	10 12 5.2	10 12 6.7	10 12 12.8																		
27	13 0.0	13 0.0	13 0.0	13 0.0	13 1.1	13 1.7	13 0.5	13 0.5	13 0.9	13 1.2	13 0.0	13 2.3																		
28	N=29	N=43	N=49	N=36	N=58	N=136	N=736	N=437	N=335	N=242	N=96	N=86																		
29	2 35.8	2 32.4	2 37.1	2 44.0	2 27.0	2 15.7	2 31.8	2 31.9	2 32.3	2 14.3	2 14.0	2 18.7																		
30	3 4 18.2	3 4 25.4	3 4 24.7	3 4 30.7	3 4 40.5	3 4 31.5	3 4 25.2	3 4 17.6	3 4 28.6	3 4 26.5	3 4 23.5	3 4 28.2																		
31	5 6 14.6	5 6 23.9	5 6 11.2	5 6 6.7	5 6 14.9	5 6 29.9	5 6 20.7	5 6 19.3	5 6 19.8	5 6 22.7	5 6 24.7	5 6 17.8																		
32	7 9 18.4	7 9 15.5	7 9 16.9	7 9 14.7	7 9 16.2	7 9 18.9	7 9 18.2	7 9 25.7	7 9 15.3	7 9 13.3	7 9 17.9	7 9 29.0																		
33	10 12 7.9	10 12 2.8	10 12 7.9	10 12 4.0	10 12 1.4	10 12 3.9	10 12 3.5	10 12 4.5	10 12 2.9	10 12 2.8	10 12 4.9	10 12 11.2																		
34	13 0.0	13 0.0	13 0.0	13 0.0	13 0.0	13 0.0	13 0.6	13 0.9	13 1.1	13 1.8	13 1.1	13 0.9																		
35	N=391	N=71	N=89	N=75	N=74	N=127	N=314	N=533	N=524	N=608	N=223	N=107																		
36	2 61.0	2 50.7	2 43.6	2 38.8	2 30.3	2 18.2	2 20.5	2 32.6	2 31.1	2 23.7	2 14.0	2 22.9																		
37	3 4 21.0	3 4 20.0	3 4 21.8	3 4 26.6	3 4 22.1	3 4 29.1	3 4 14.6	3 4 27.7	3 4 33.2	3 4 21.1	3 4 27.2	3 4 21.9																		
38	5 6 12.4	5 6 20.0	5 6 16.7	5 6 13.7	5 6 32.0	5 6 20.9	5 6 20.5	5 6 17.2	5 6 18.0	5 6 19.5	5 6 28.9	5 6 35.4																		
39	7 9 4.8	7 9 6.1	7 9 15.4	7 9 15.1	7 9 12.3	7 9 25.5	7 9 37.3	7 9 18.9	7 9 12.1	7 9 14.4	7 9 23.8	7 9 15.6																		
40	10 12 1.0	10 12 0.0	10 12 2.6	10 12 4.3	10 12 2.5	10 12 6.4	10 12 4.9	10 12 1.8	10 12 3.7	10 12 4.9	10 12 4.3	10 12 1.2																		
41	13 0.0	13 0.0	13 0.0	13 0.0	13 0.8	13 0.0	13 2.2	13 1.8	13 1.9	13 2.5	13 1.9	13 1.0																		
42	N=75	N=78	N=139	N=122	N=110	N=110	N=185	N=285	N=322	N=473	N=2872	N=96																		
43	2 31.9	2 30.2	2 31.9	2 30.2	2 31.7	2 13.7	2 24.9	2 20.1	2 28.3	2 25.1	2 14.6	2 15.0																		
44	3 4 22.6	3 4 24.8	3 4 24.8	3 4 24.8	3 4 24.8	3 4 18.0	3 4 22.0	3 4 29.7	3 4 24.9	3 4 27.4	3 4 25.0	3 4 19.7																		
45	5 6 19.9	5 6 18.1	5 6 19.1	5 6 15.1	5 6 19.1	5 6 19.1	5 6 15.1	5 6 19.1	5 6 20.8	5 6 21.3	5 6 24.6	5 6 25.6																		
46	7 9 14.2	7 9 17.8	7 9 14.2	7 9 17.8	7 9 14.2	7 9 21.6	7 9 32.2	7 9 35.8	7 9 17.7	7 9 21.0	7 9 26.5	7 9 30.7																		
47	10 12 7.1	10 12 6.0	10 12 7.1	10 12 6.0	10 12 7.1	10 12 10.7	10 12 4.4	10 12 1.9	10 12 5.1	10 12 3.6	10 12 6.2	10 12 5.5																		
48	13 0.0	13 3.2	13 3.2	13 3.2	13 3.2	13 16.9	13 1.5	13 3.3	13 3.1	13 1.6	13 6.2	13 5.5																		
49	N=226	N=315	N=366	N=205	N=209	N=366	N=205	N=209	N=293	N=965	N=1820	N=254																		
50	2 22.0	2 24.9	2 23.3	2 18.6	2 16.3	2 18.6	2 12.6	2 18.4	2 22.9	2 23.2	2 11.5	2 16.9																		
51	3 4 19.9	3 4 19.6	3 4 19.0	3 4 26.3	3 4 26.3	3 4 26.3	3 4 38.9	3 4 23.2	3 4 31.7	3 4 22.3	3 4 17.3	3 4 24.2																		
52	5 6 24.6	5 6 16.5	5 6 16.9	5 6 19.5	5 6 22.3	5 6 19.5	5 6 13.1	5 6 19.0	5 6 19.5	5 6 19.8	5 6 28.1	5 6 26.0																		
53	7 9 14.6	7 9 25.0	7 9 25.1	7 9 26.0	7 9 30.2	7 9 26.0	7 9 32.0	7 9 28.1	7 9 14.4	7 9 24.6	7 9 29.7	7 9 24.2																		
54	10 12 13.8	10 12 10.6	10 12																											

July

Surface Currents

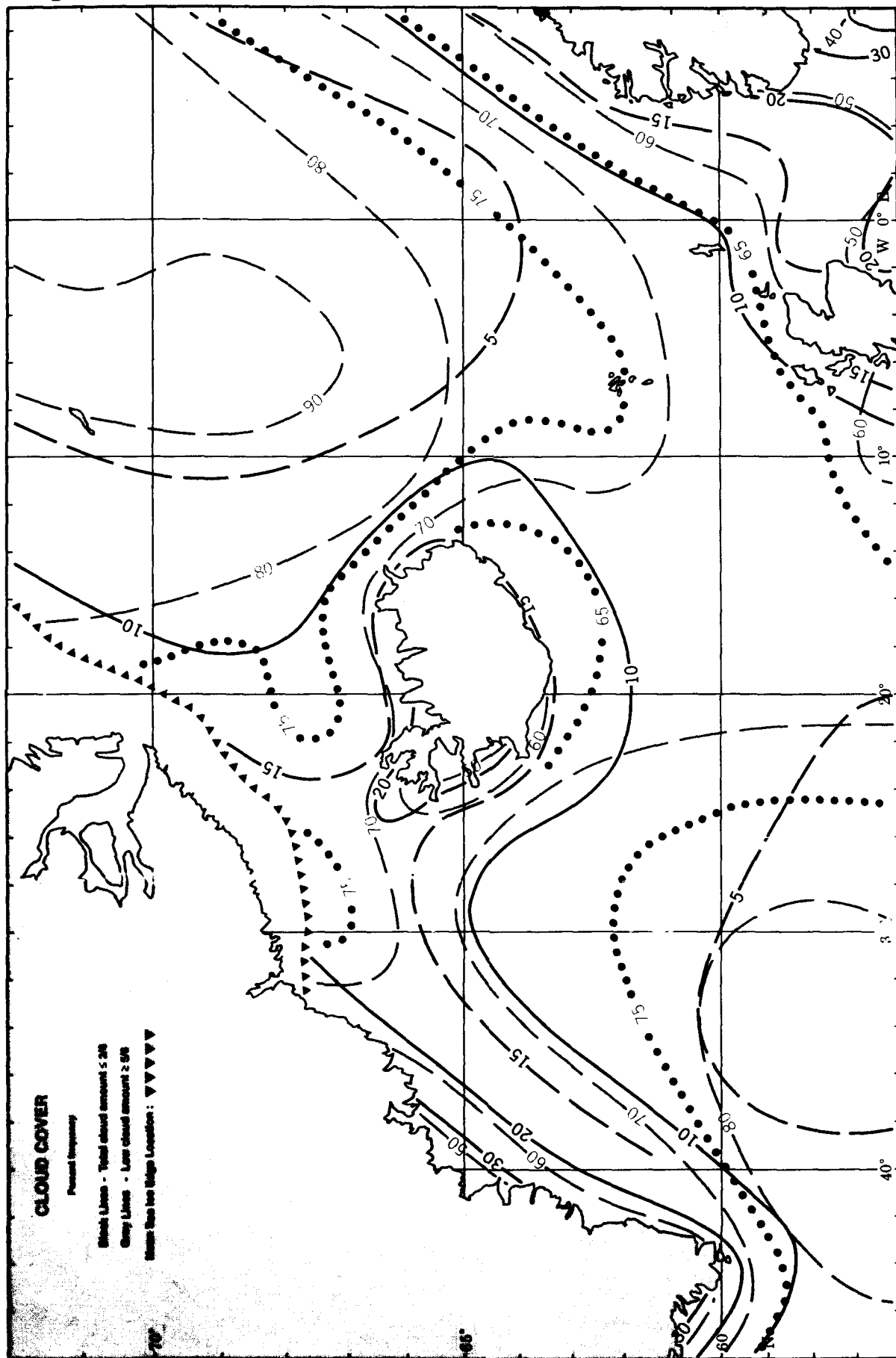


Surface Currents



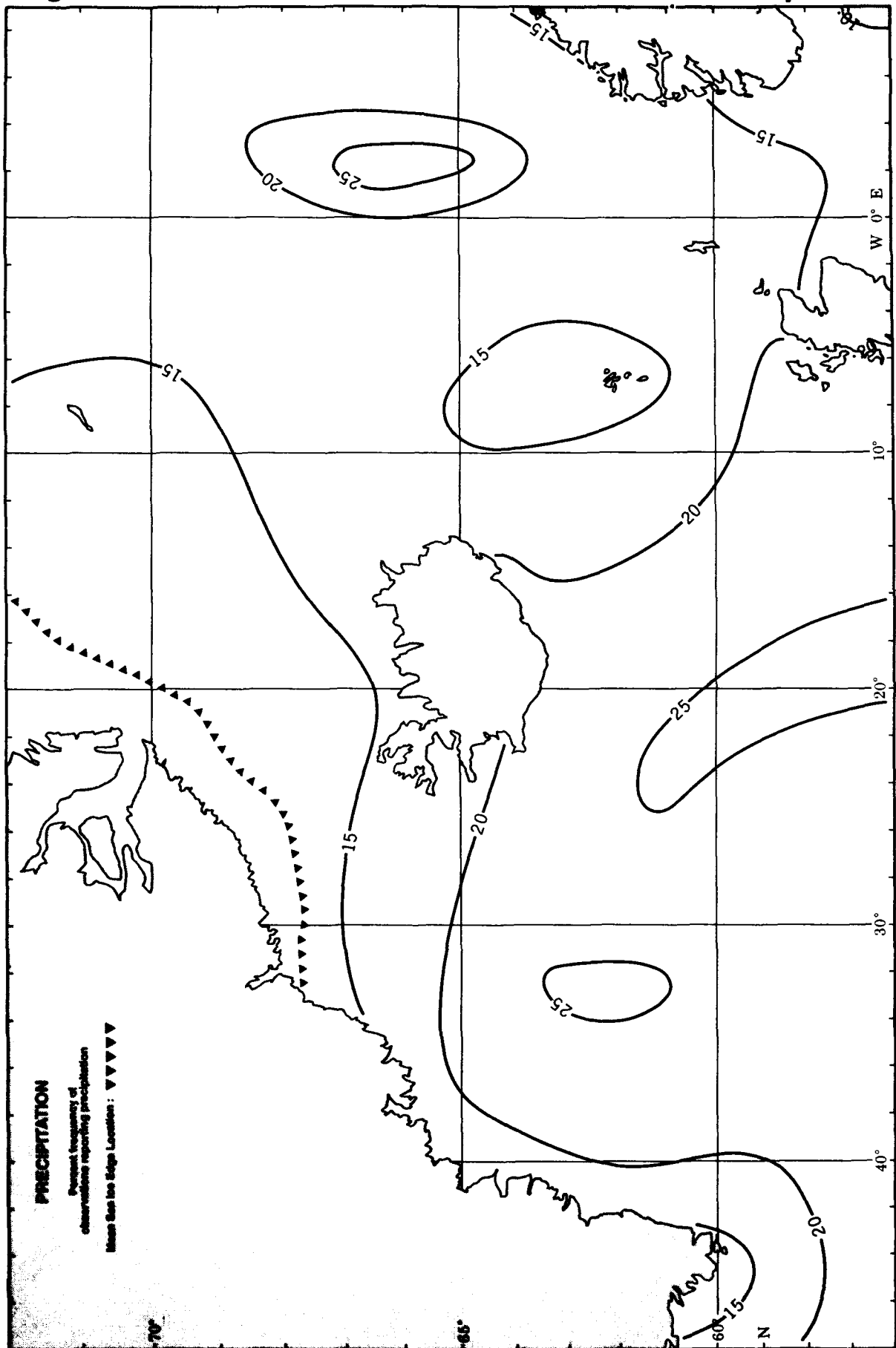
August

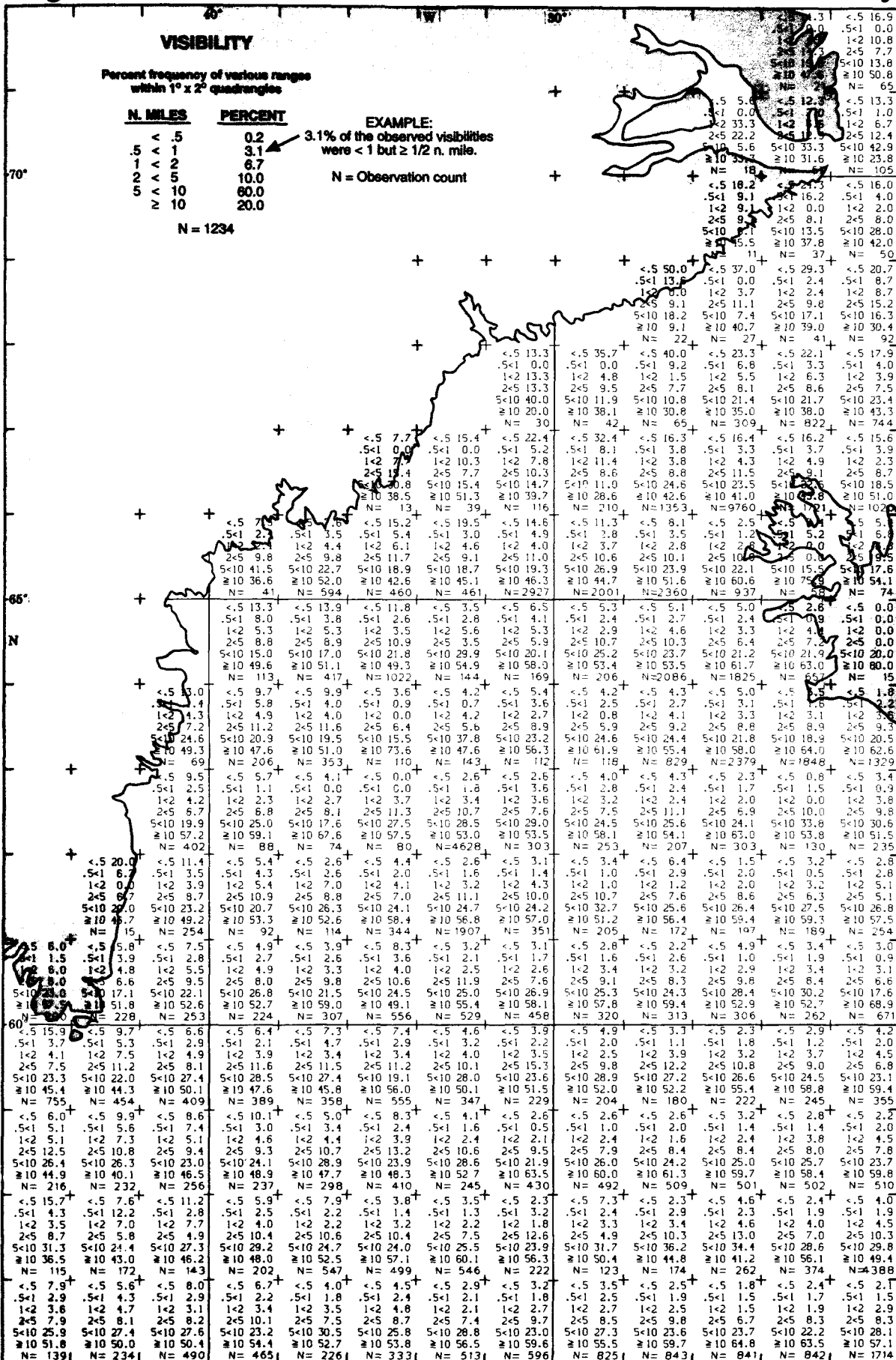
Clouds



August

Precipitation





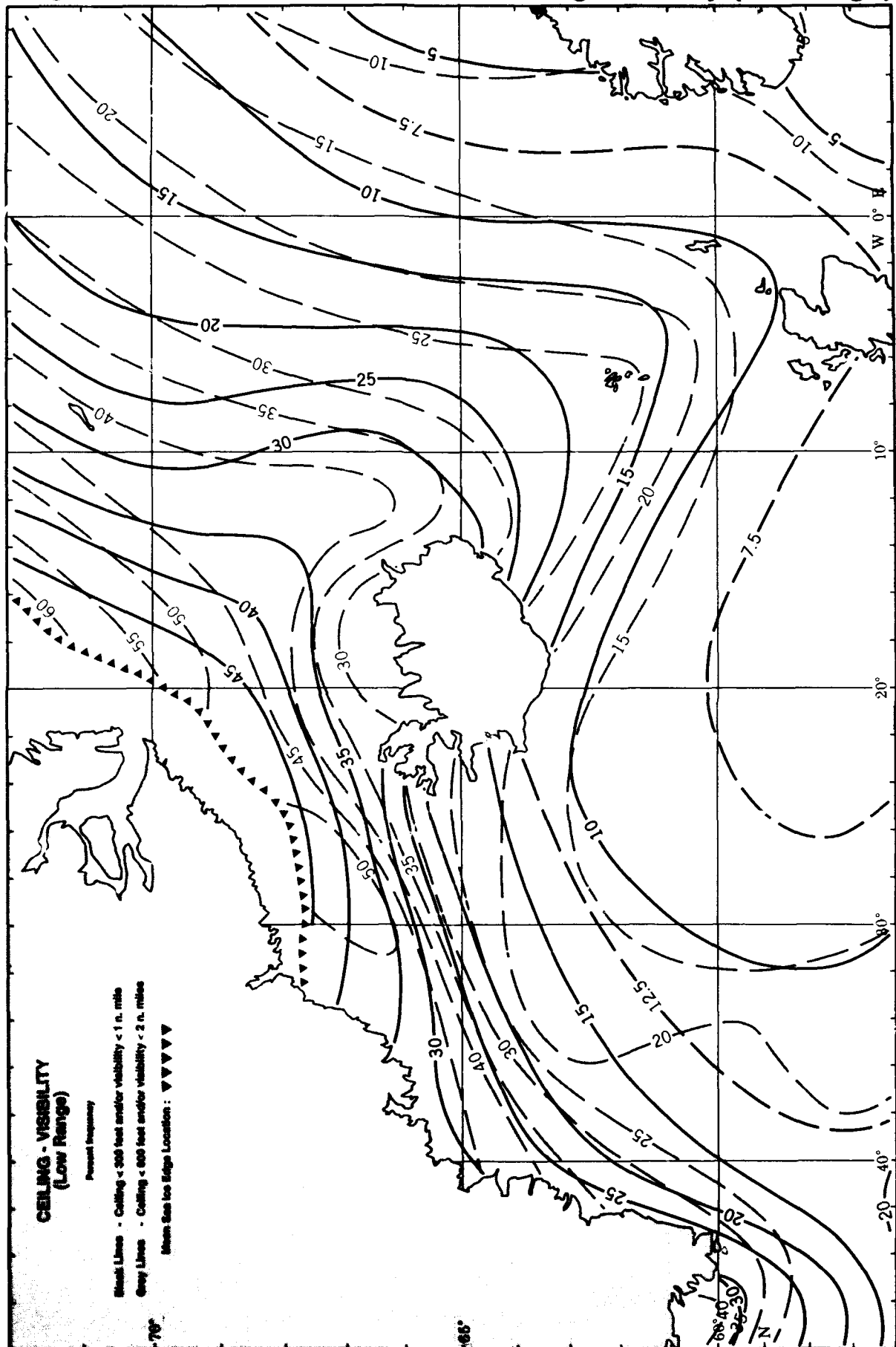
August

Visibility

<5 28.6 5-1 2.9 1-2 5.7 2-5 11.4 5-10 14.3 ≥10 37.1 N= 35	<5 39.3 5-1 10.7 1-2 7.1 2-5 7.1 5-10 14.3 ≥10 21.4 N= 26	<5 43.6 5-1 5.1 1-2 2.6 2-5 12.8 5-10 23.1 ≥10 12.8 N= 39	<5 37.8 5-1 6.8 1-2 17.6 2-5 12.2 5-10 12.2 ≥10 13.5 N= 74	<5 30.610 5-1 2.0 1-2 11.2 2-5 18.4 5-10 32.7 ≥10 5.1 N= 98	<5 22.3 5-1 7.1 1-2 6.3 2-5 19.2 5-10 35.4 ≥10 13.6 N= 101	<5 20.3 5-1 6.3 1-2 6.3 2-5 7.6 5-10 43.0 ≥10 16.5 N= 79	<5 18.8 5-1 2.0 1-2 5 2-5 17.8 5-10 45.0 ≥10 23.8 N= 101	<5 8.7 5-1 9.7 1-2 3.3 2-5 14.0 5-10 34.6 ≥10 29.3 N= 150	<5 12.40 5-1 1.4 1-2 1.2 2-5 6.3 5-10 34.6 ≥10 40.1 N= 217	<5 16.3 5-1 2.4 1-2 4.8 2-5 10.2 5-10 30.8 ≥10 25.9 N= 166	<5 9.8 5-1 4.2 1-2 6.7 2-5 8.3 5-10 30.8 ≥10 37.2 N= 120	<5 1.8 5-1 1.8 1-2 4.4 2-5 9.3 5-10 29.2 ≥10 57.5 N= 112		
<5 26.3 5-1 11.8 1-2 7.9 2-5 11.8 5-10 23.7 ≥10 18.4 N= 76	<5 23.4 5-1 20.8 1-2 7.9 2-5 7.8 5-10 23.4 ≥10 16.9 N= 77	<5 22.7 5-1 8.2 1-2 11.3 2-5 12.4 5-10 23.7 ≥10 21.6 N= 97	<5 11.7 5-1 3.9 1-2 9.4 2-5 9.4 5-10 25.0 ≥10 40.6 N= 128	<5 18.1 5-1 4.3 1-2 1.4 2-5 19.6 5-10 31.2 ≥10 25.4 N= 138	<5 14.7 5-1 1.6 1-2 2.7 2-5 12.8 5-10 41.1 ≥10 27.1 N= 258	<5 17.6 5-1 2.8 1-2 4.3 2-5 15.1 5-10 34.3 ≥10 25.9 N= 397	<5 13.8 5-1 2.8 1-2 5.4 2-5 12.9 5-10 33.0 ≥10 32.6 N= 224	<5 3.9 5-1 3.2 1-2 3.2 2-5 12.9 5-10 29.7 ≥10 52.3 N= 155	<5 6.4 5-1 0.0 1-2 5.6 2-5 17.9 5-10 37.2 ≥10 35.9 N= 78	<5 7.8 5-1 3.9 1-2 2.9 2-5 6.8 5-10 35.0 ≥10 43.7 N= 10.3	<5 8.3 5-1 6.9 1-2 6.0 2-5 2.9 5-10 30.6 ≥10 53.1 N= 72	<5 6.9 5-1 6.7 1-2 1.9 2-5 9.9 5-10 28.5 ≥10 54.9 N= 81	<5 8.3 5-1 6.9 1-2 1.9 2-5 9.9 5-10 28.5 ≥10 54.9 N= 81	
<5 25.6 5-1 9.0 1-2 9.0 2-5 12.8 5-10 22.0 ≥10 21.8 N= 78	<5 16.9 5-1 3.4 1-2 10.2 2-5 6.8 5-10 22.0 ≥10 40.7 N= 59	<5 9.3 5-1 4.9 1-2 3.7 2-5 4.3 5-10 28.0 ≥10 37.8 N= 82	<5 11.9 5-1 5.0 1-2 7.4 2-5 17.6 5-10 25.3 ≥10 34.7 N= 108	<5 11.9 5-1 2.6 1-2 4.0 2-5 15.2 5-10 37.1 ≥10 29.1 N= 151	<5 16.2 5-1 3.0 1-2 5.0 2-5 18.8 5-10 32.7 ≥10 23.3 N= 520	<5 10.6 5-1 1.6 1-2 3.5 2-5 14.0 5-10 37.3 ≥10 31.6 N= 434	<5 10.5 5-1 1.3 1-2 2.2 2-5 18.0 5-10 34.6 ≥10 32.3 N= 228	<5 11.3 5-1 0.9 1-2 4.7 2-5 11.3 5-10 29.6 ≥10 42.6 N= 115	<5 8.3 5-1 6.0 1-2 5.6 2-5 1.4 5-10 45.8 ≥10 72 N= 72	<5 6.9 5-1 6.0 1-2 4.2 2-5 2.9 5-10 30.6 ≥10 54.9 N= 72	<5 6.9 5-1 6.0 1-2 4.2 2-5 2.9 5-10 30.6 ≥10 54.9 N= 72	<5 6.9 5-1 6.0 1-2 4.2 2-5 2.9 5-10 30.6 ≥10 54.9 N= 72	<5 6.9 5-1 6.0 1-2 4.2 2-5 2.9 5-10 30.6 ≥10 54.9 N= 72	
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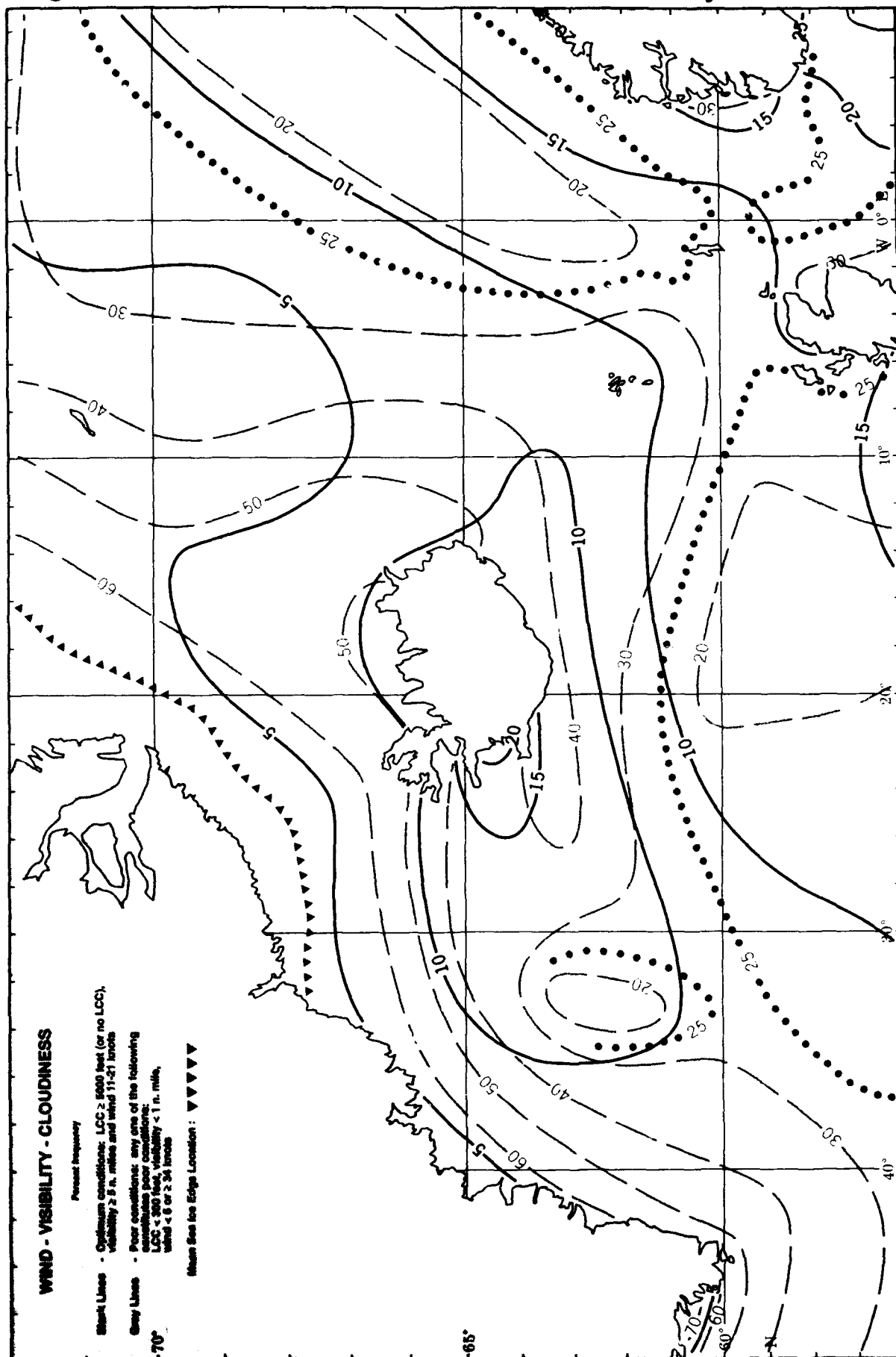
August

Ceiling-Visibility (low range)



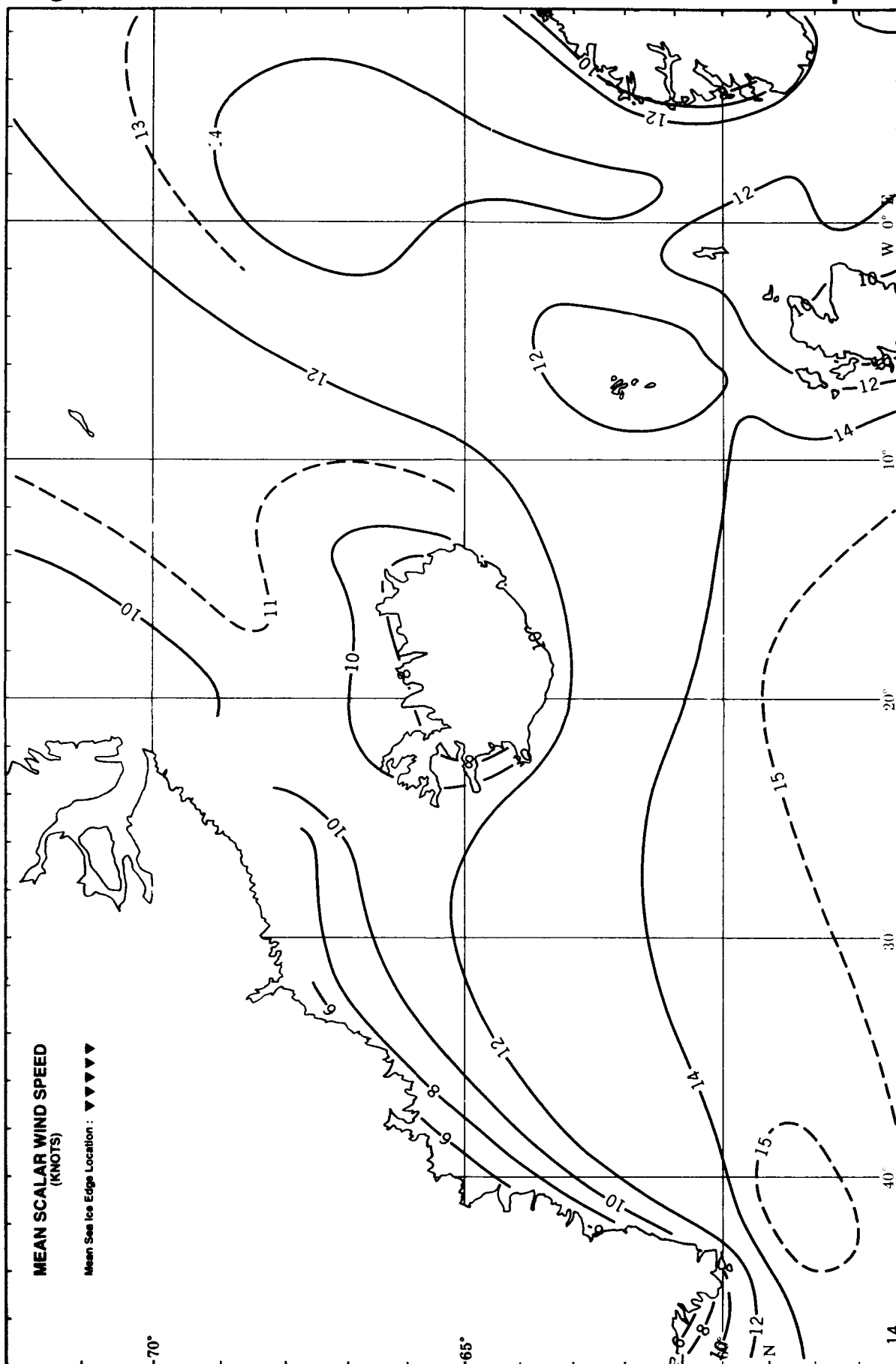
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Wind-Visibility-Cloudiness



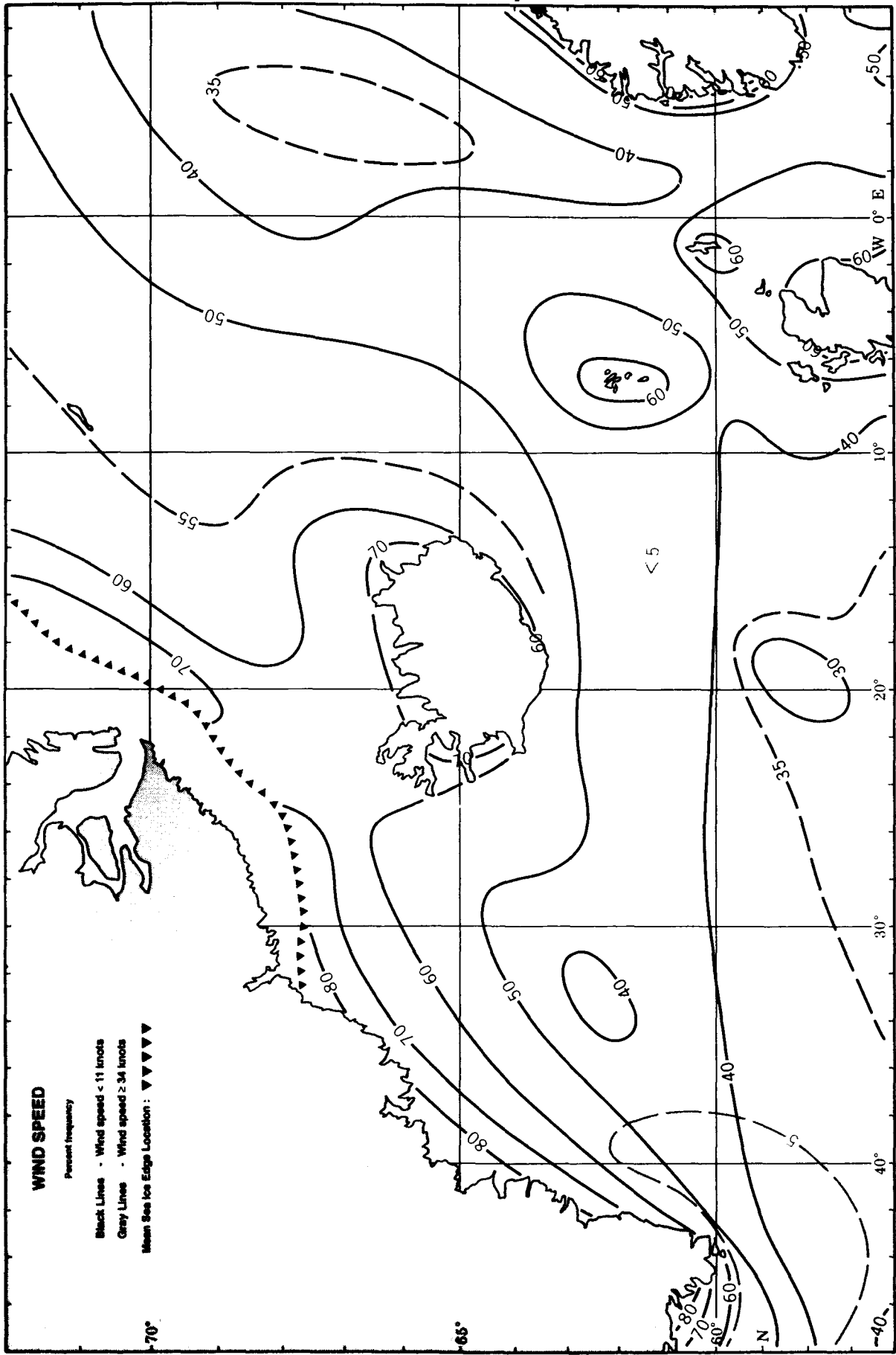
August

Mean Scalar Wind Speed



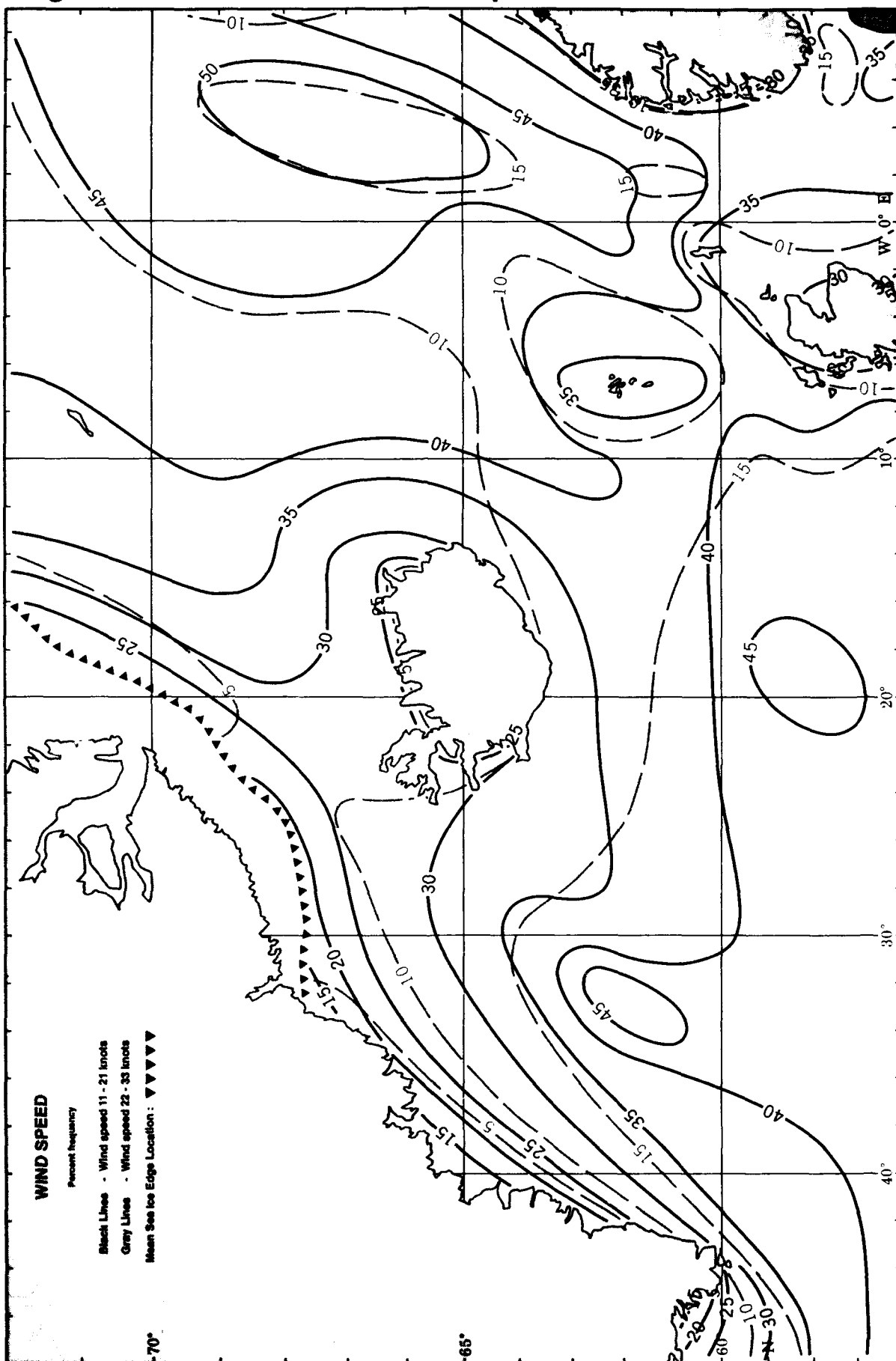
August

Wind Speed < 11 and ≥ 34 Knots



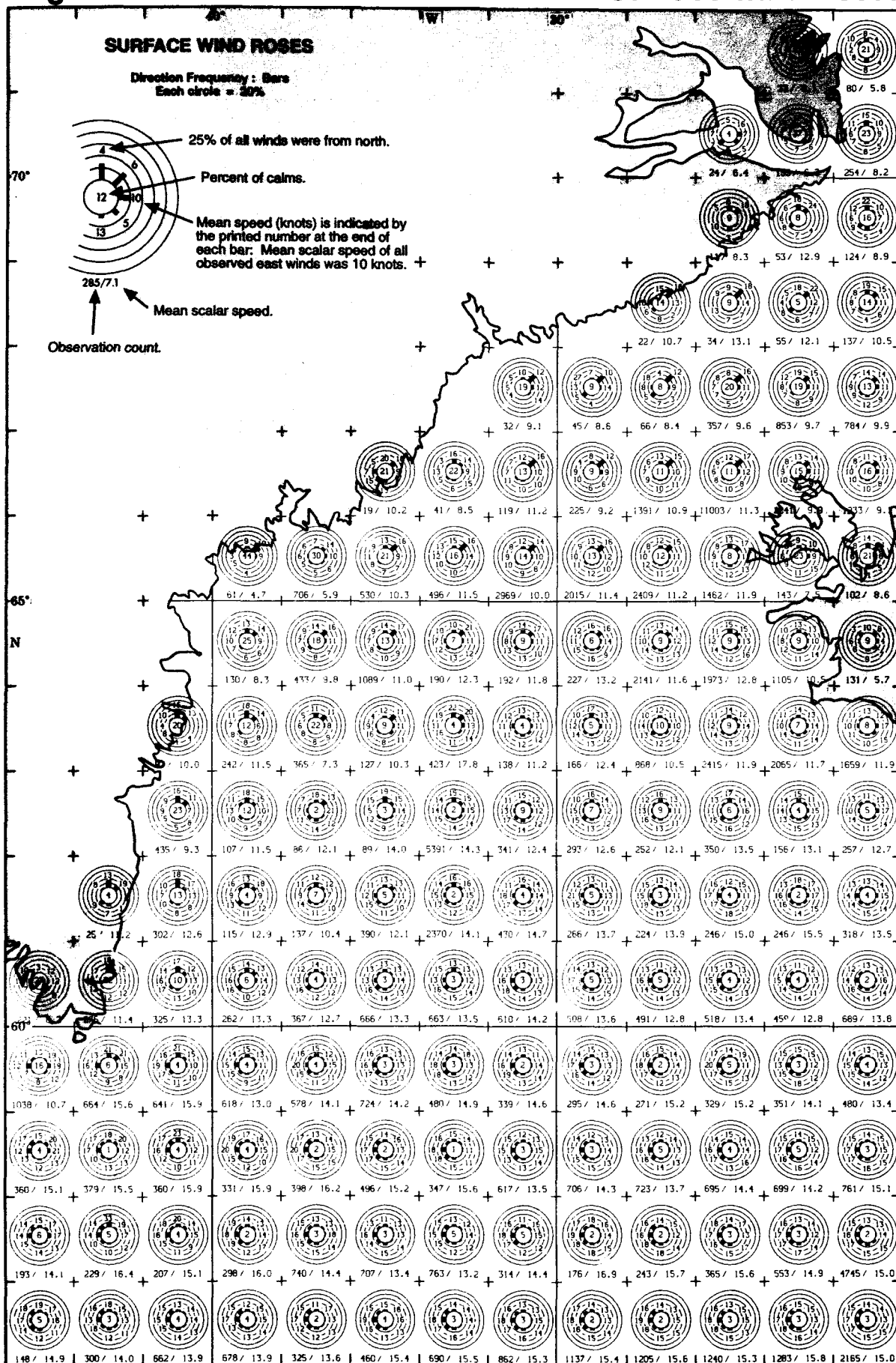
August

Wind Speed 11-21 and 22-33 Knots



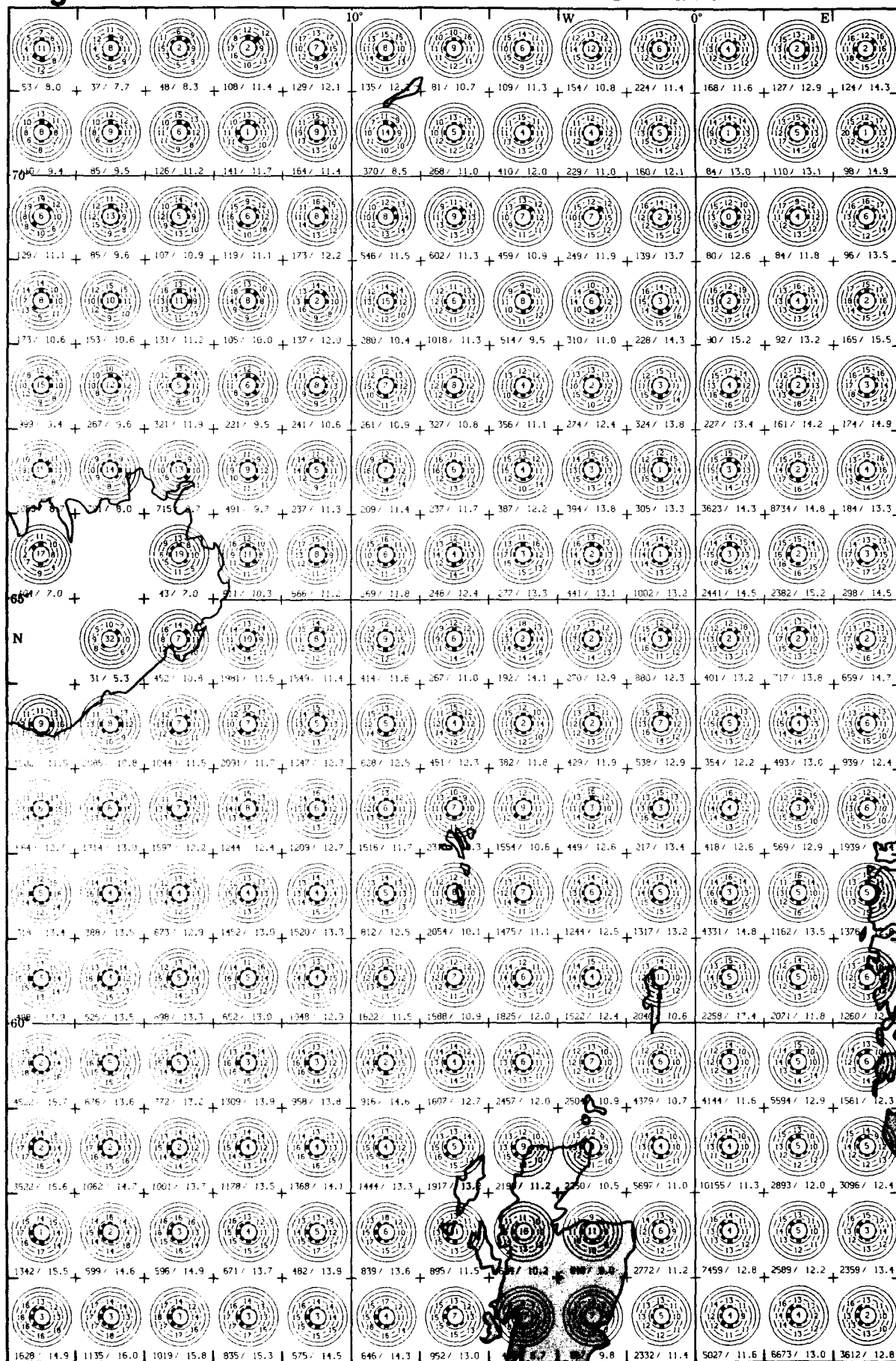
August

Surface Wind Roses



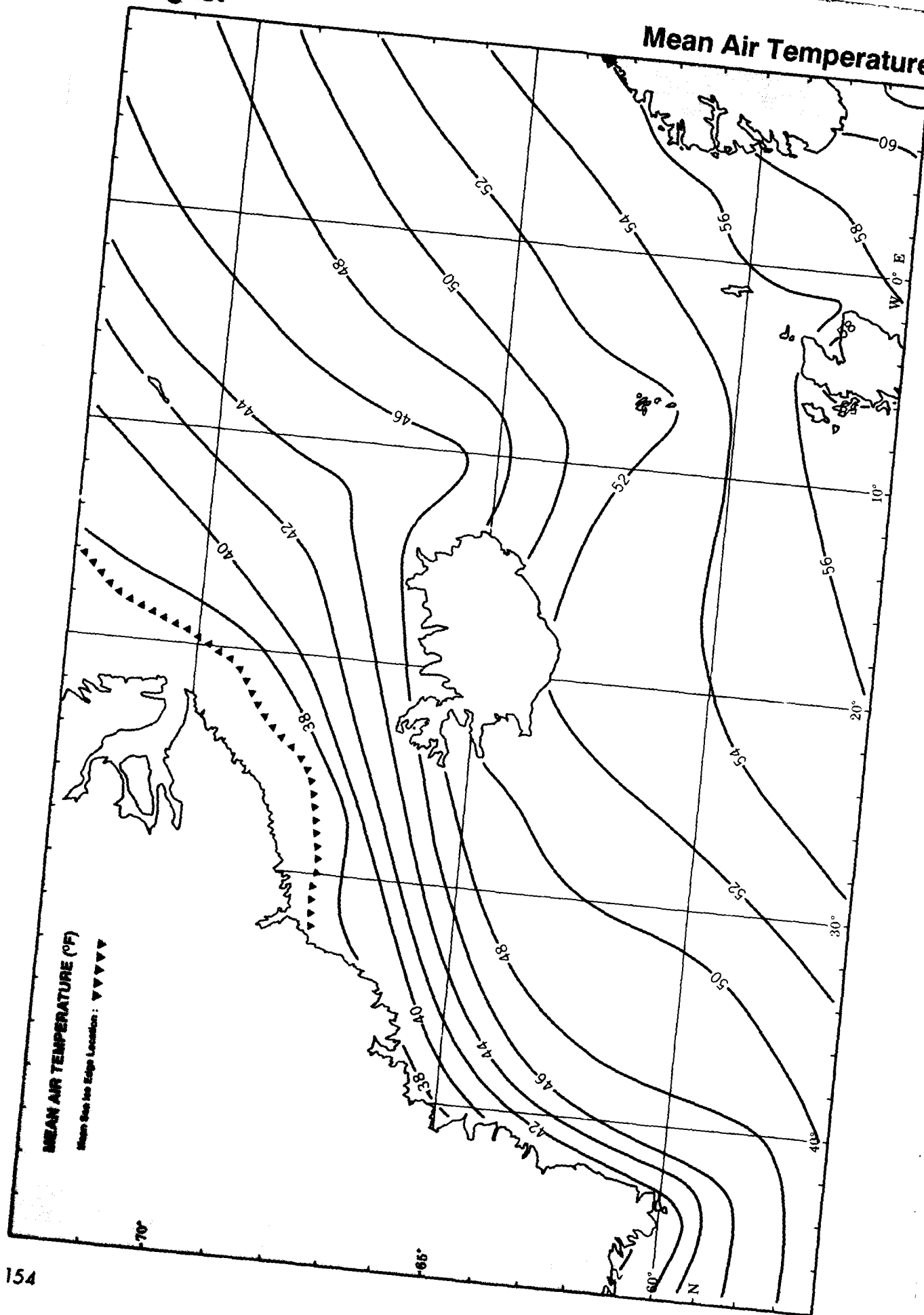
August

Surface Wind Roses



August

Mean Air Temperature

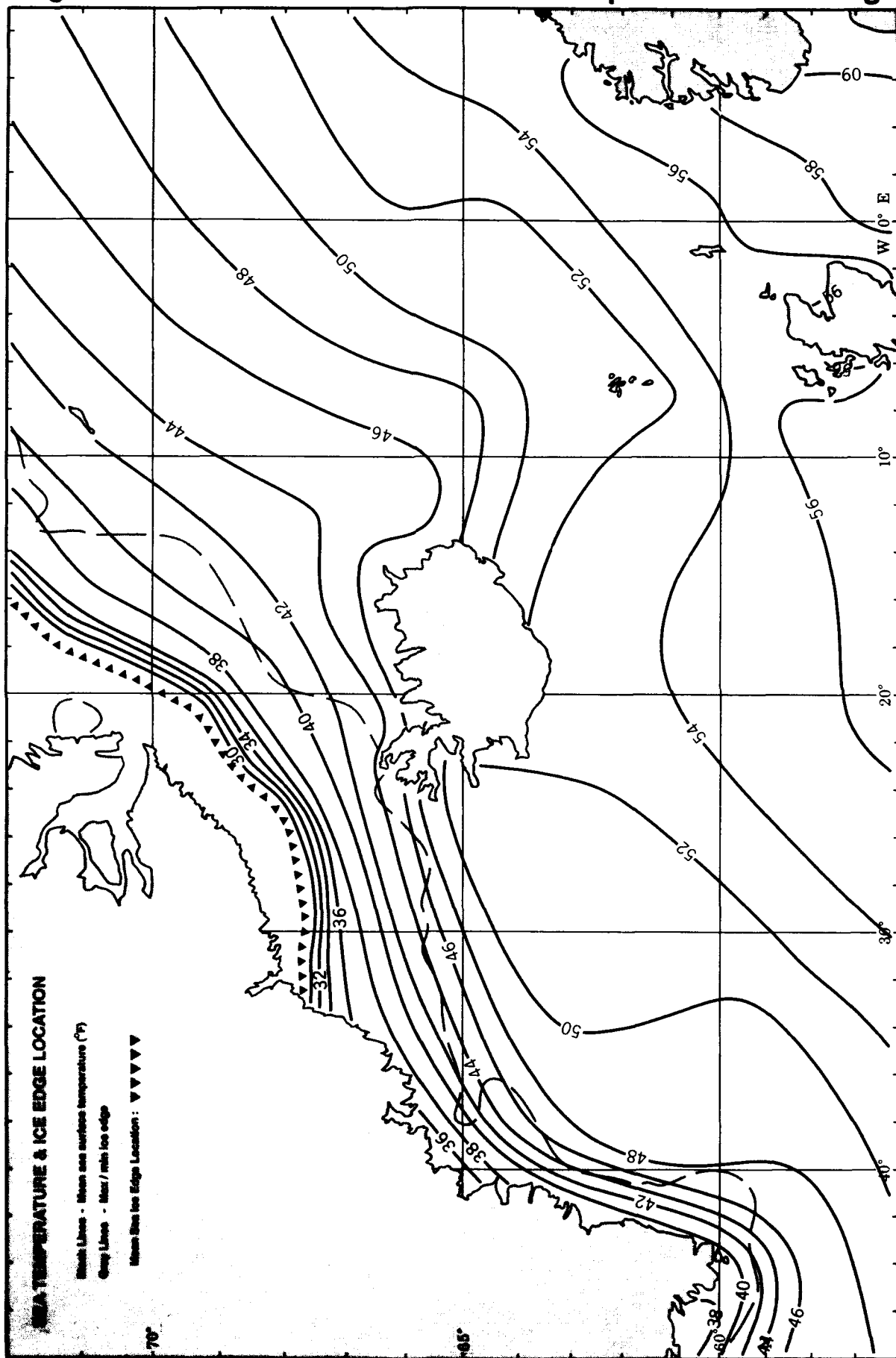


MEAN AIR TEMPERATURE (°F)

Mean Sea Ice Edge Location: ▴▴▴▴▴

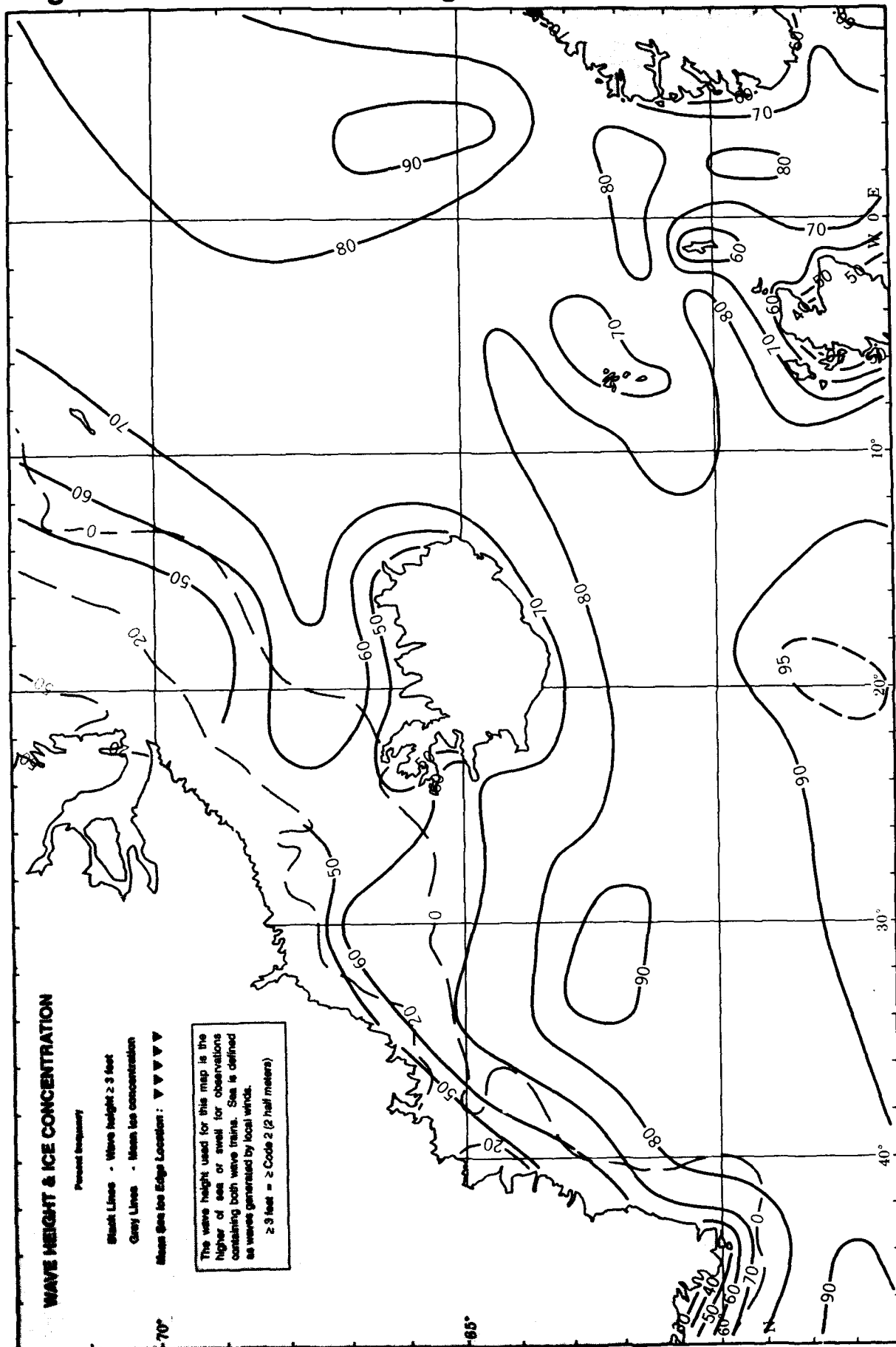
August

Mean Sea Temperature & Ice Edge



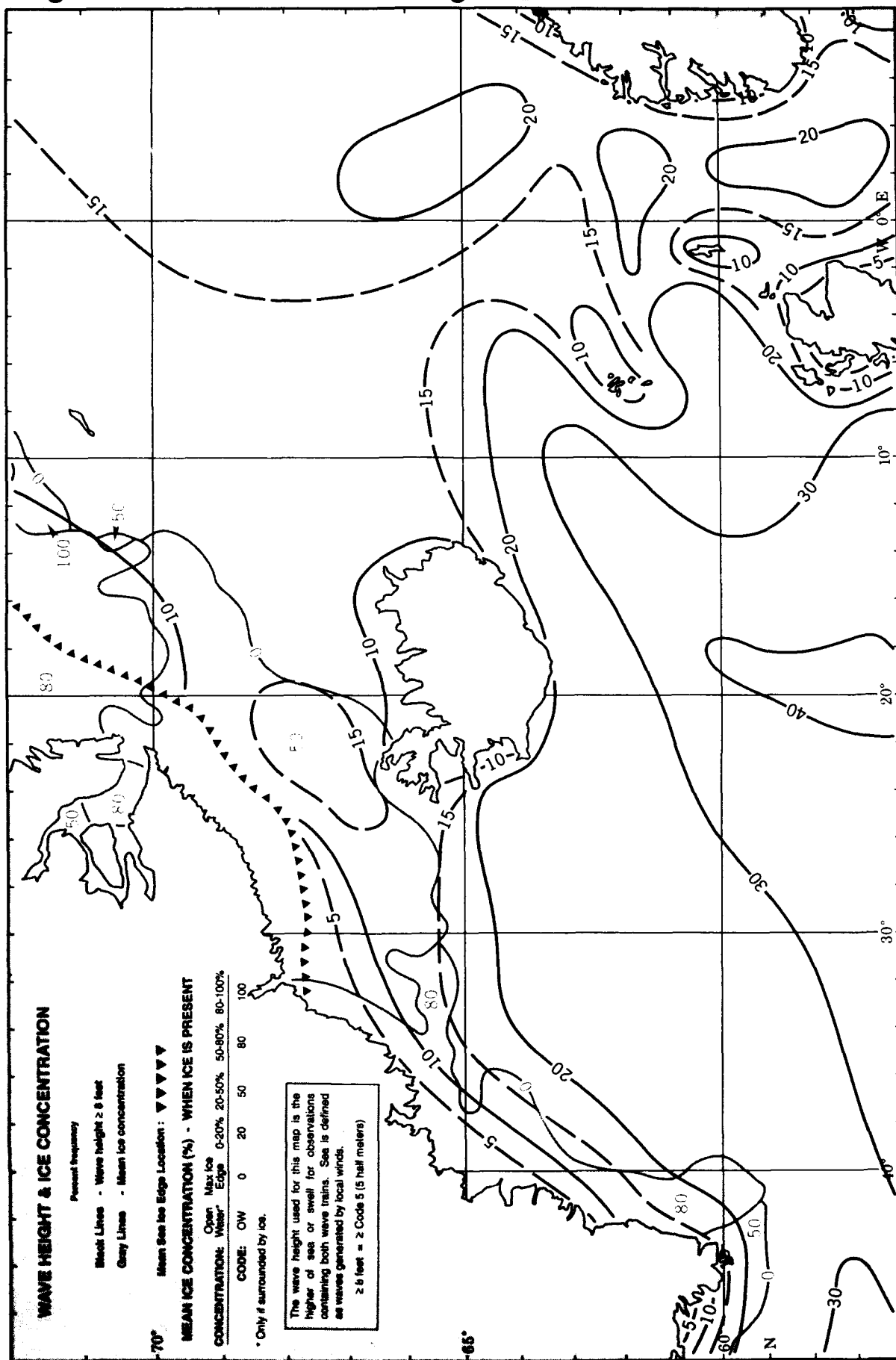
August

Wave Height ≥ 3 Ft. & Ice Concentration



Wave Height ≥ 8 Ft. & Ice Concentration

Wave Height ≥ 8 Ft. & Ice Concentration



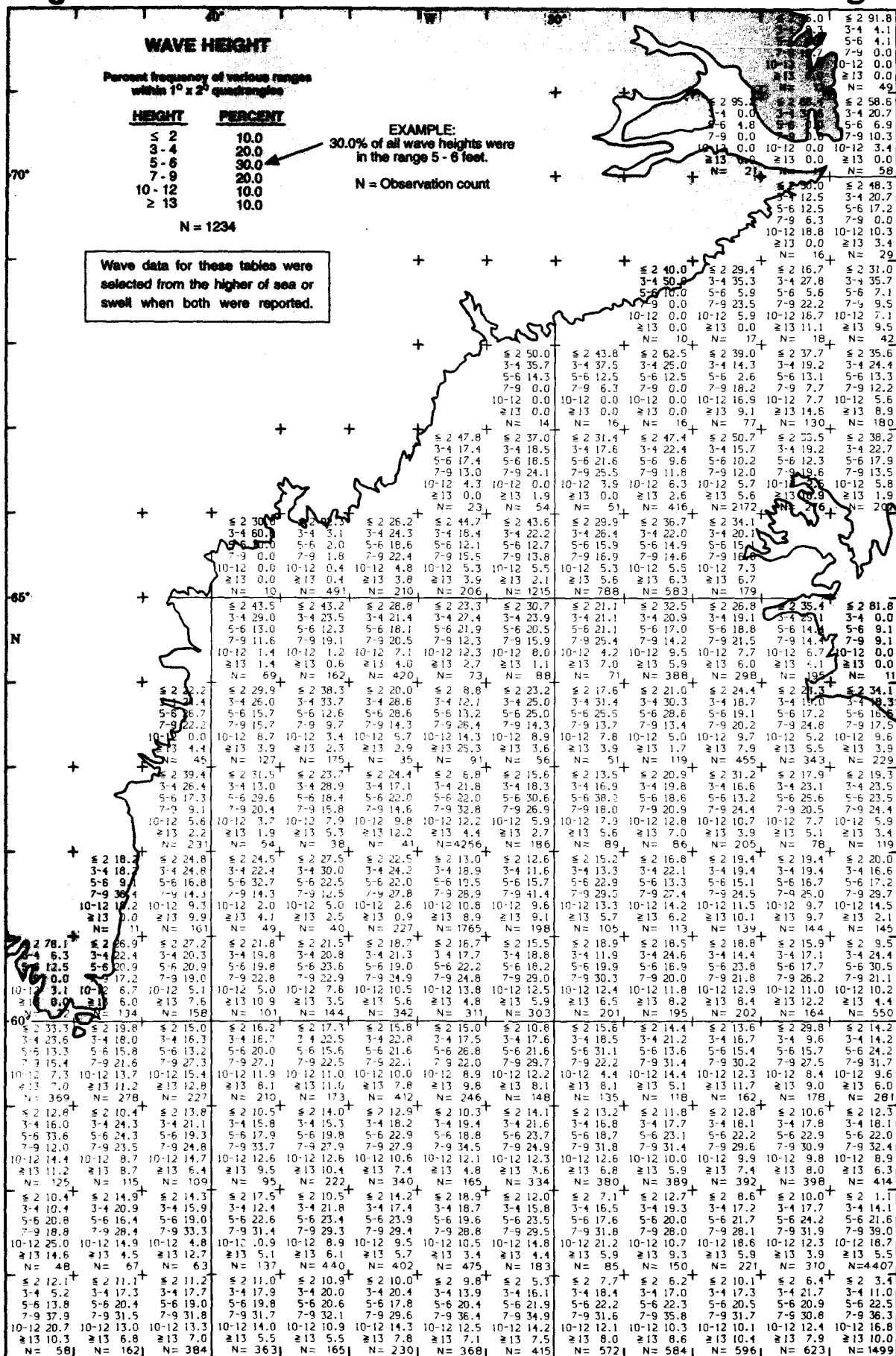
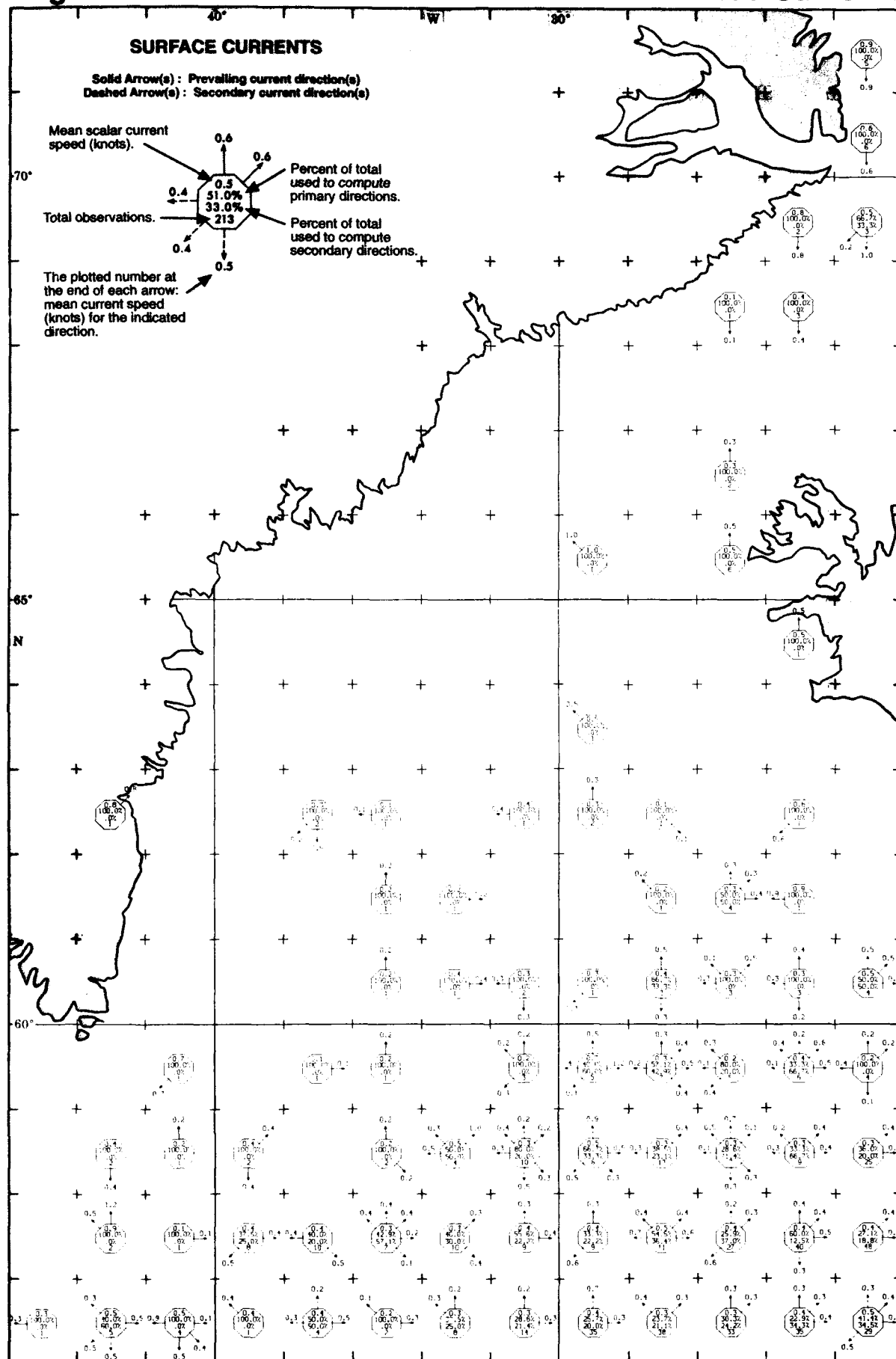


Figure 10: A detailed map of the study area in the North Atlantic, showing the distribution of *Calanus finmarchicus* and *Calanus helgolandicus* in 1997. The map covers the area from 40°N to 65°N latitude and 10°W to 30°W longitude. The coastline of North America is visible on the left, and the coastline of Europe is on the right. The map is overlaid with a grid of latitude and longitude lines. The distribution of the two species is indicated by the presence of their respective symbols (a circle with a dot for *C. finmarchicus* and a circle with a cross for *C. helgolandicus*) at various grid intersections. The map also includes a scale bar indicating distances in kilometers (0, 100, 200 km) and a north arrow. The map is labeled with 'N' for North and 'W' for West. The map is titled 'Figure 10' and includes a legend for the species symbols.

Figure 10: A detailed map of the study area in the North Atlantic, showing the distribution of *Calanus finmarchicus* and *Calanus helgolandicus* in 1997. The map covers the region from 40°N to 65°N latitude and 10°W to 30°W longitude. A grid of sampling stations is overlaid, with each station labeled with a number and a date. The map includes a scale bar (0 to 100 km) and a north arrow. The distribution of the two species is indicated by the presence of their respective symbols (a circle for *C. finmarchicus* and a square for *C. helgolandicus*) at the sampling stations. The map also shows the coastline of North America and the British Isles.

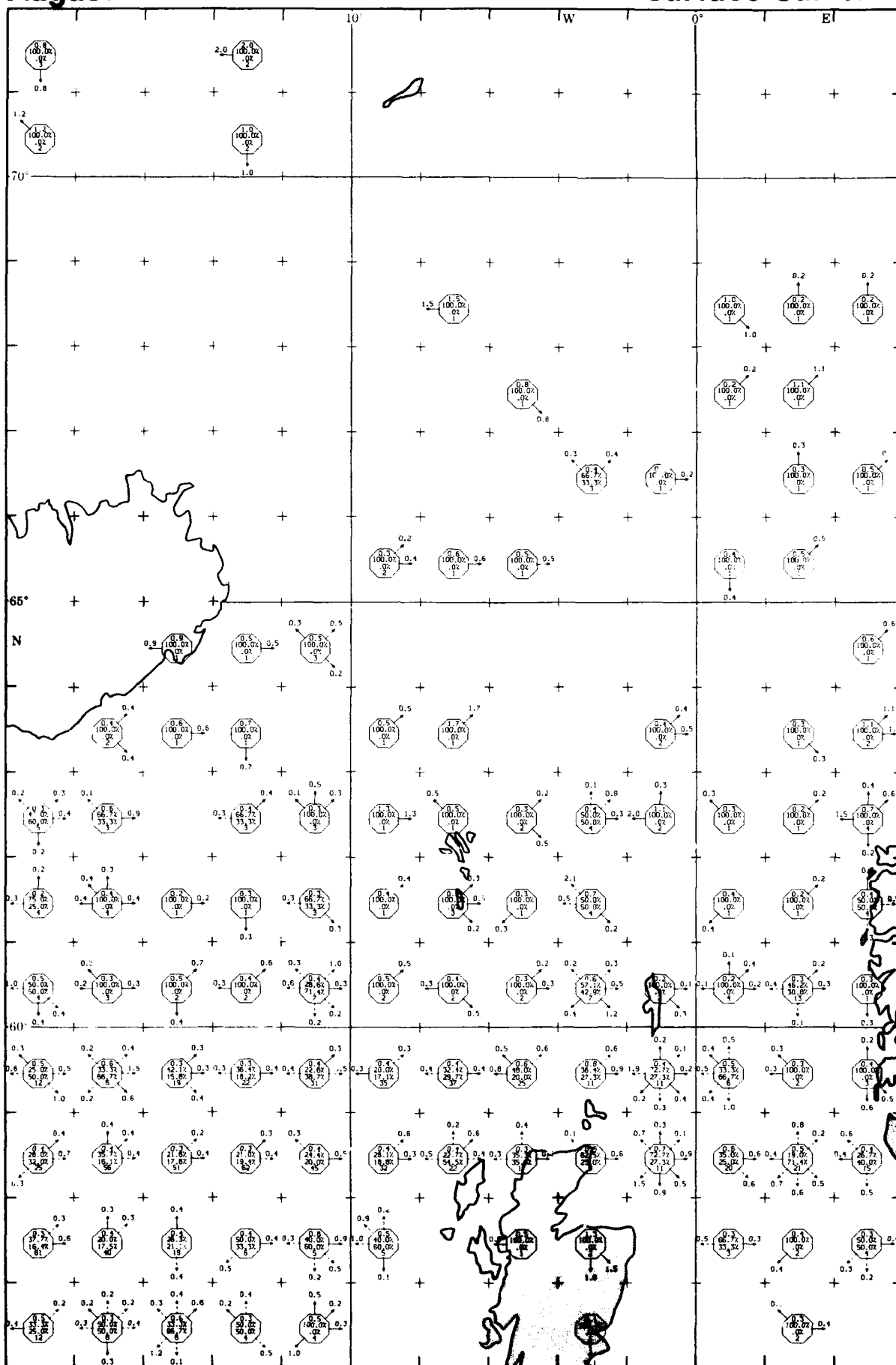
August

Surface Currents



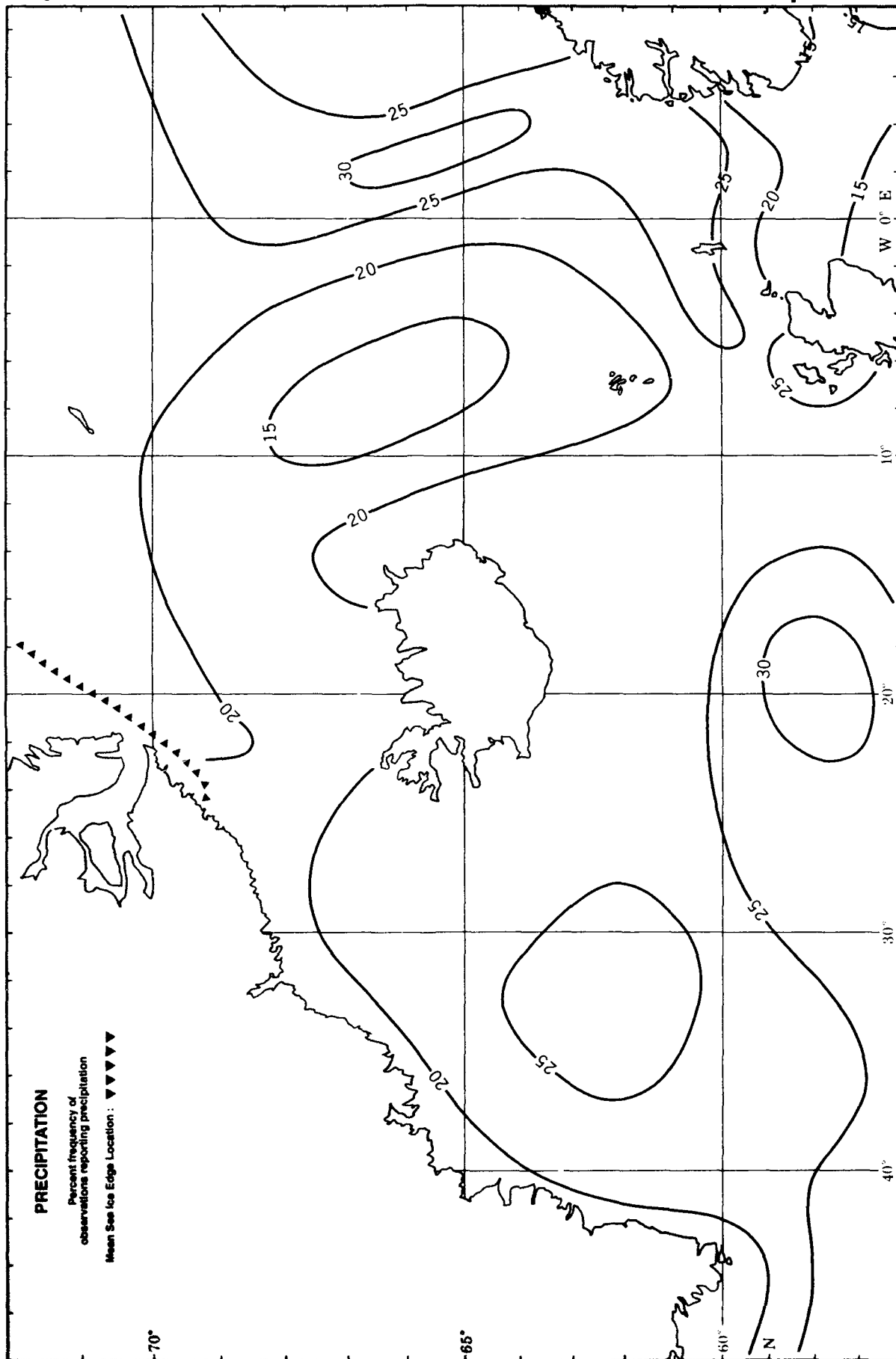
August

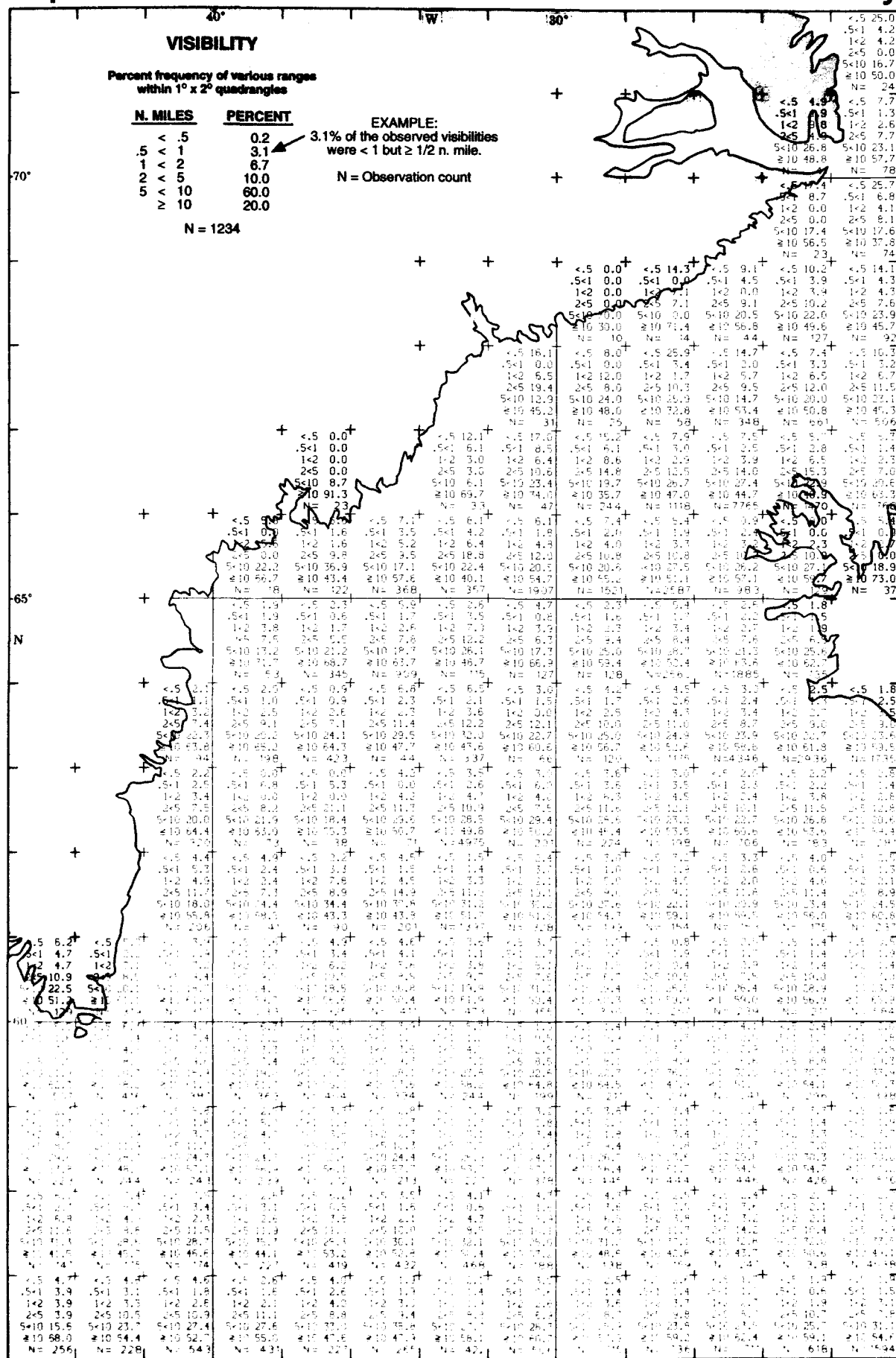
Surface Currents



September

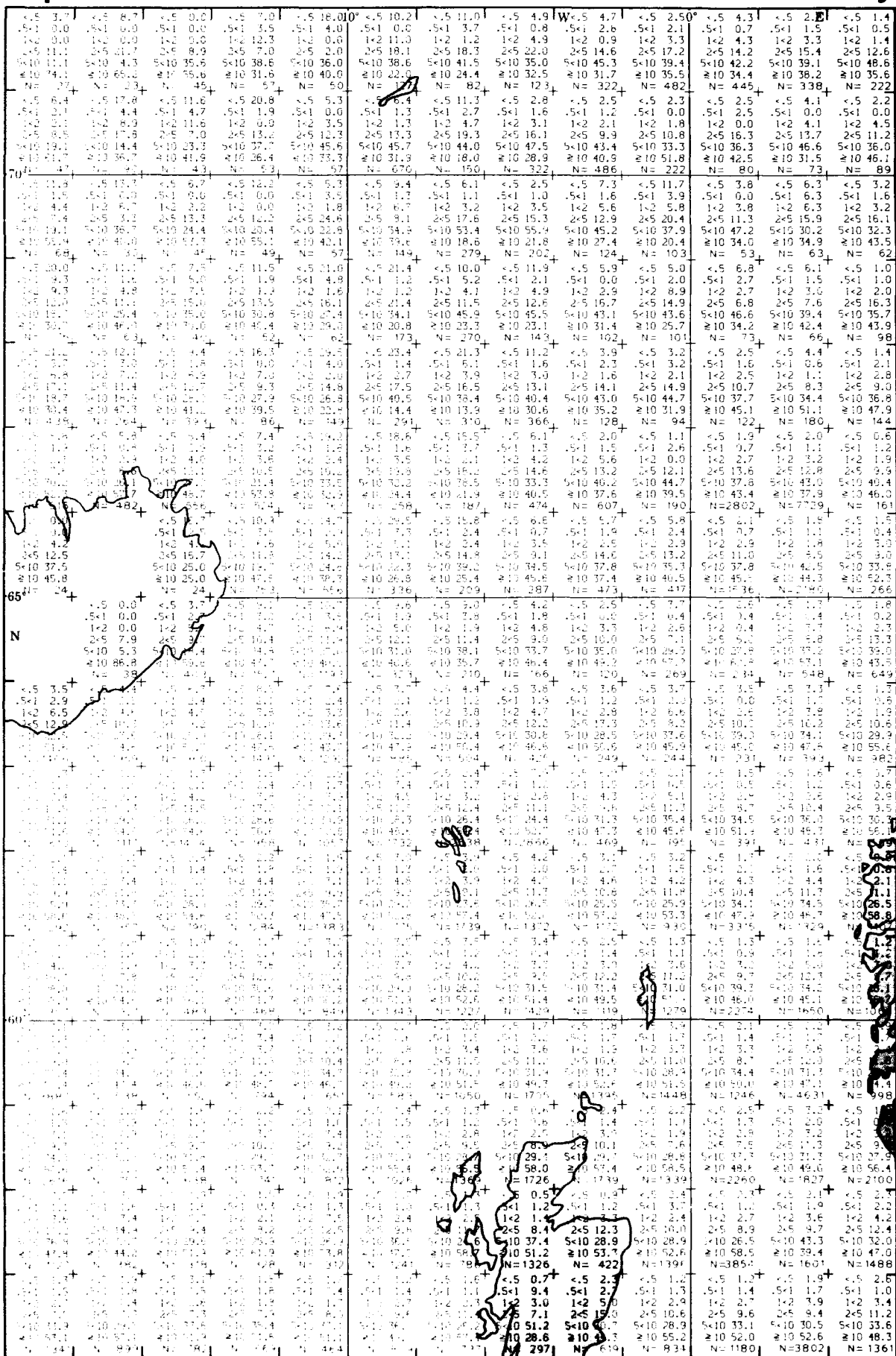
Precipitation





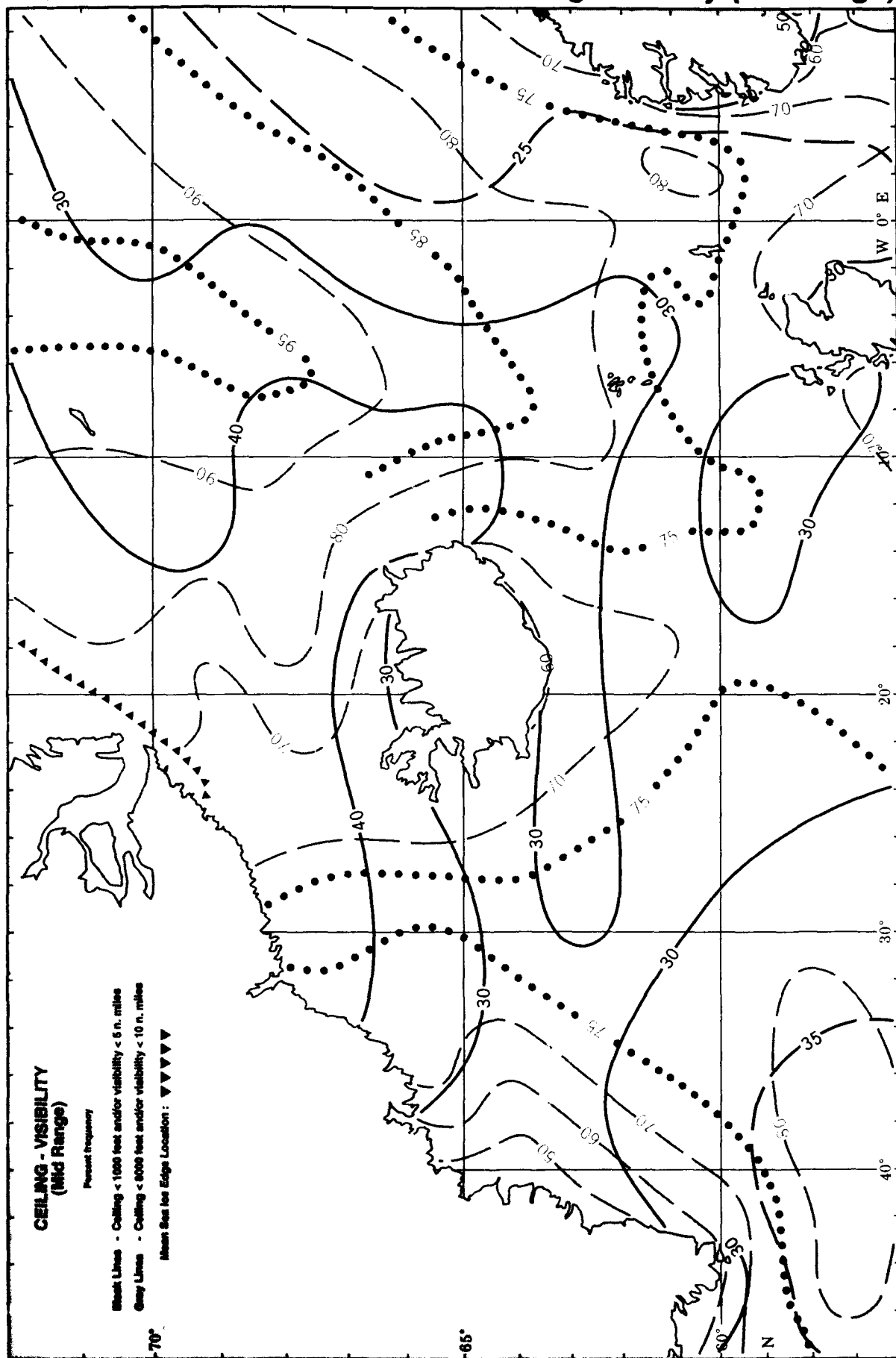
September

Visibility



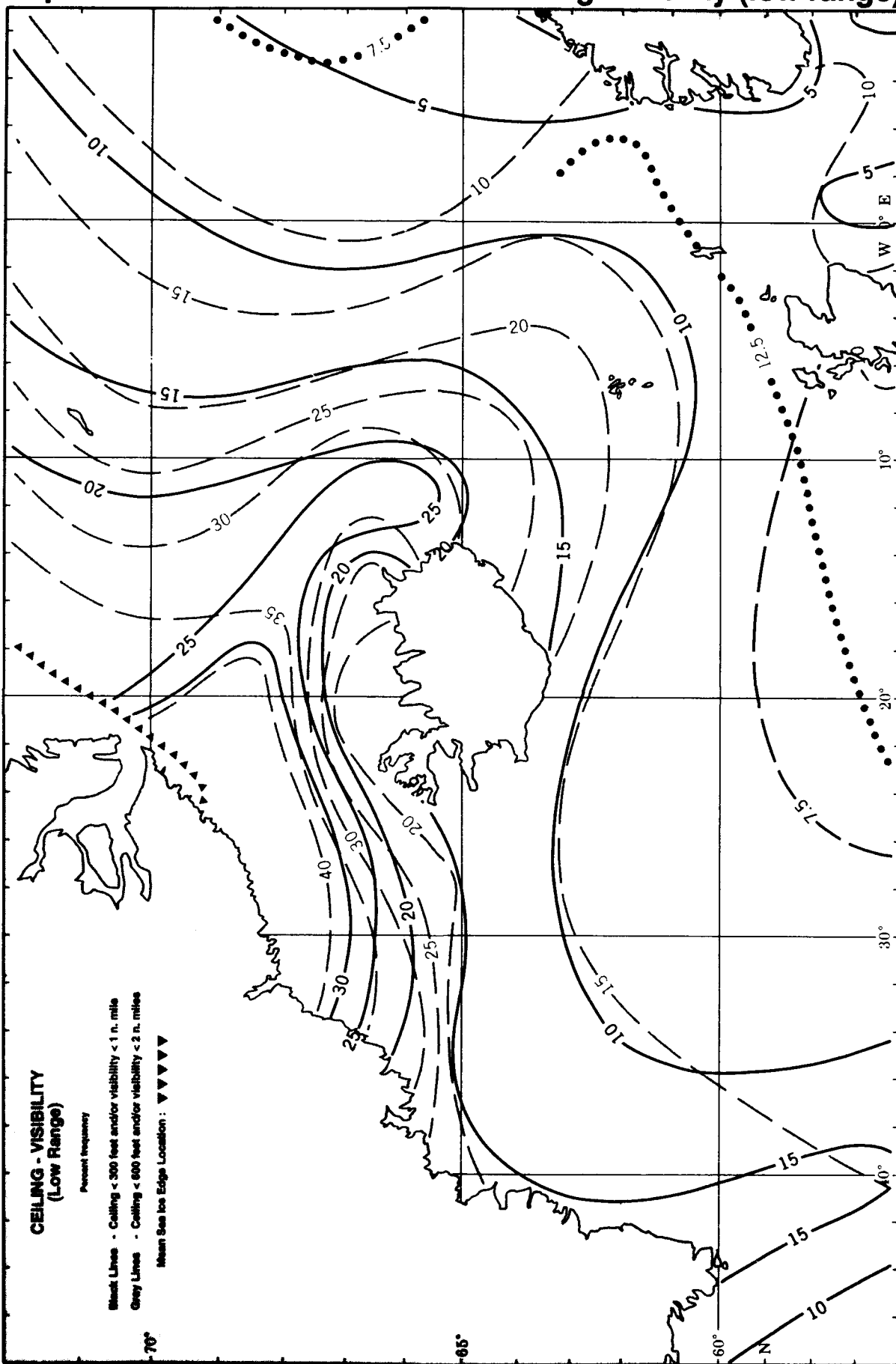
September

Ceiling-Visibility (mid range)



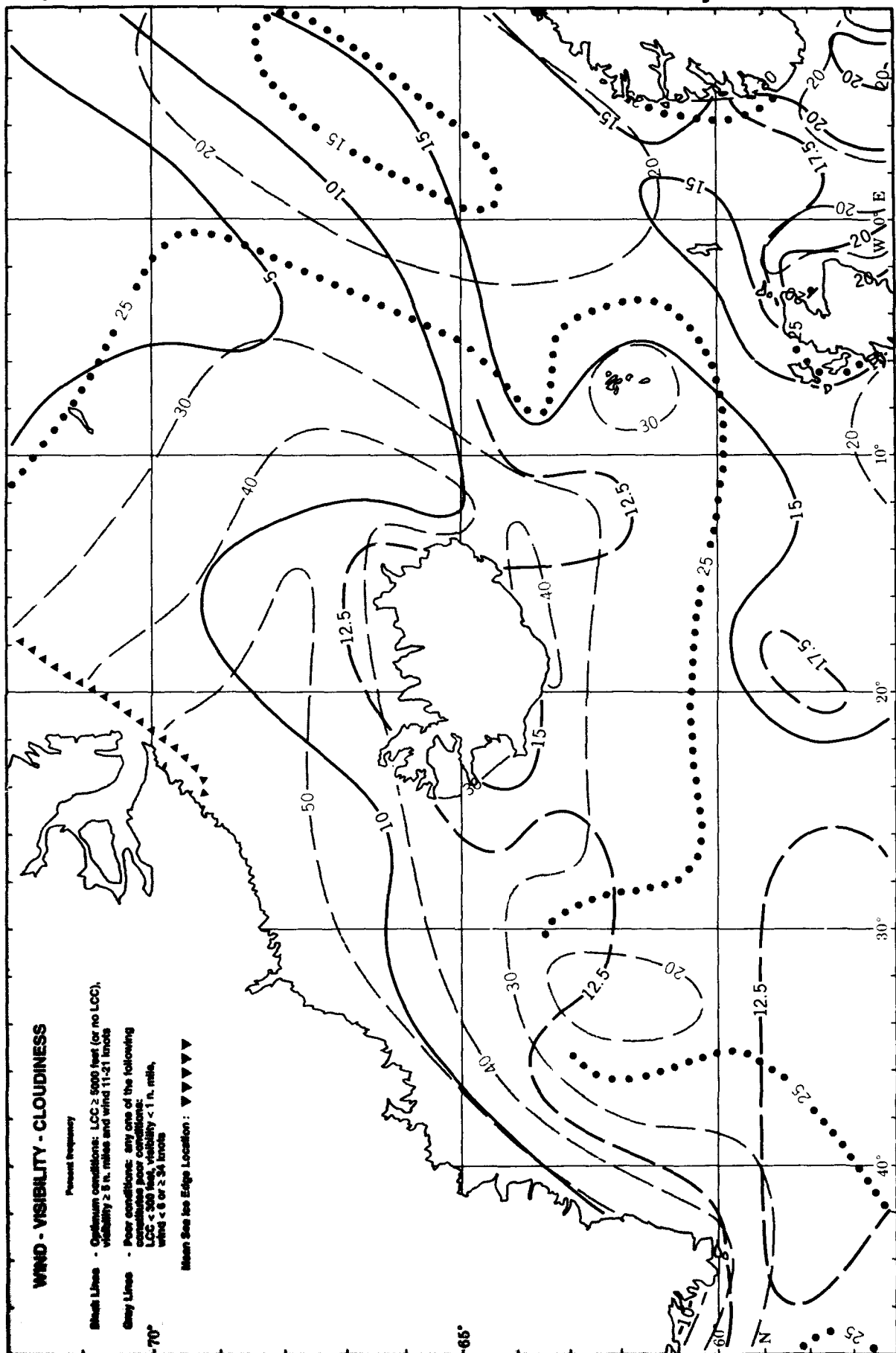
September

Ceiling-Visibility (low range)



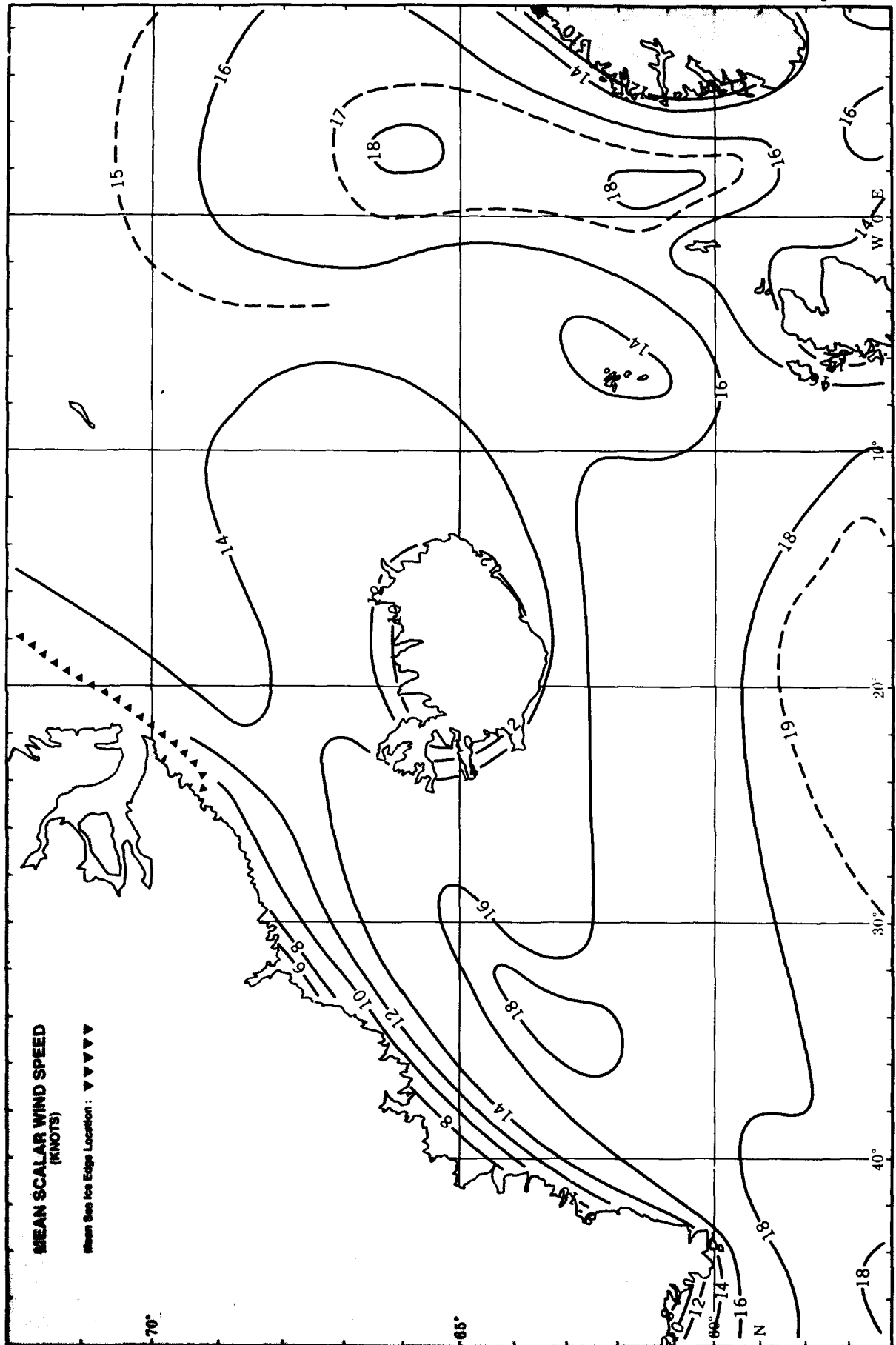
September

Wind-Visibility-Cloudiness



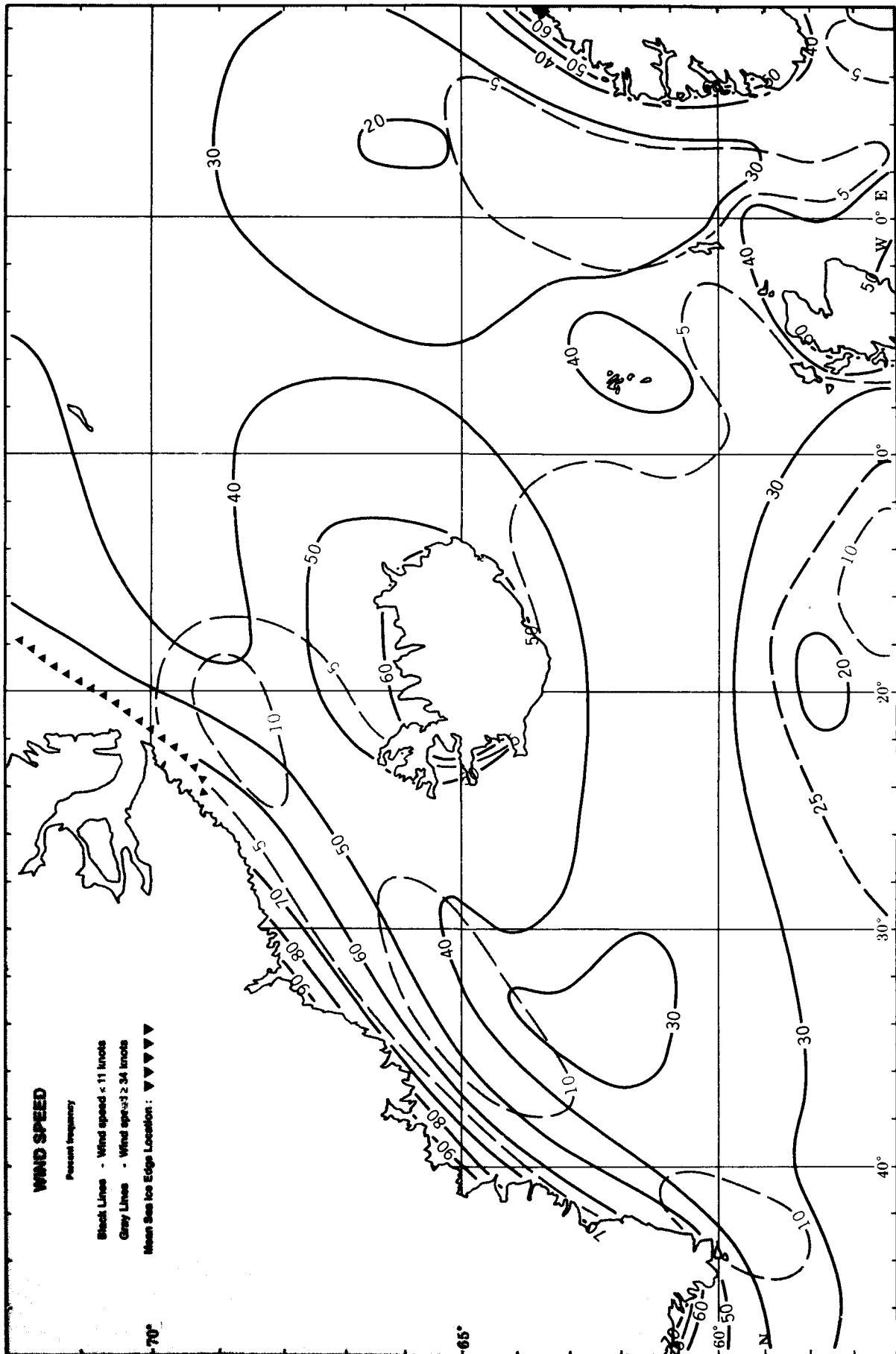
September

Mean Scalar Wind Speed



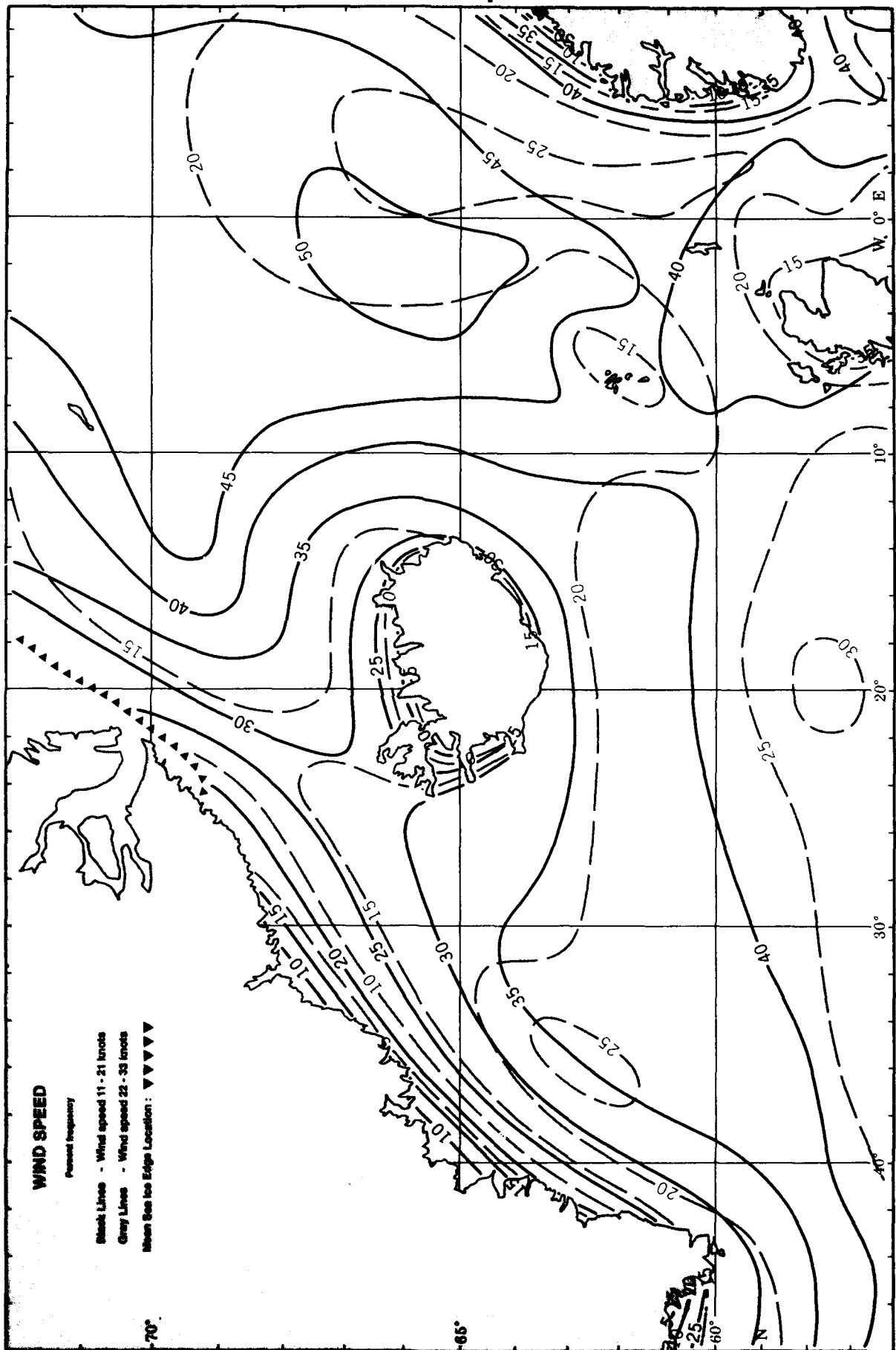
September

Wind Speed < 11 and ≥ 34 Knots



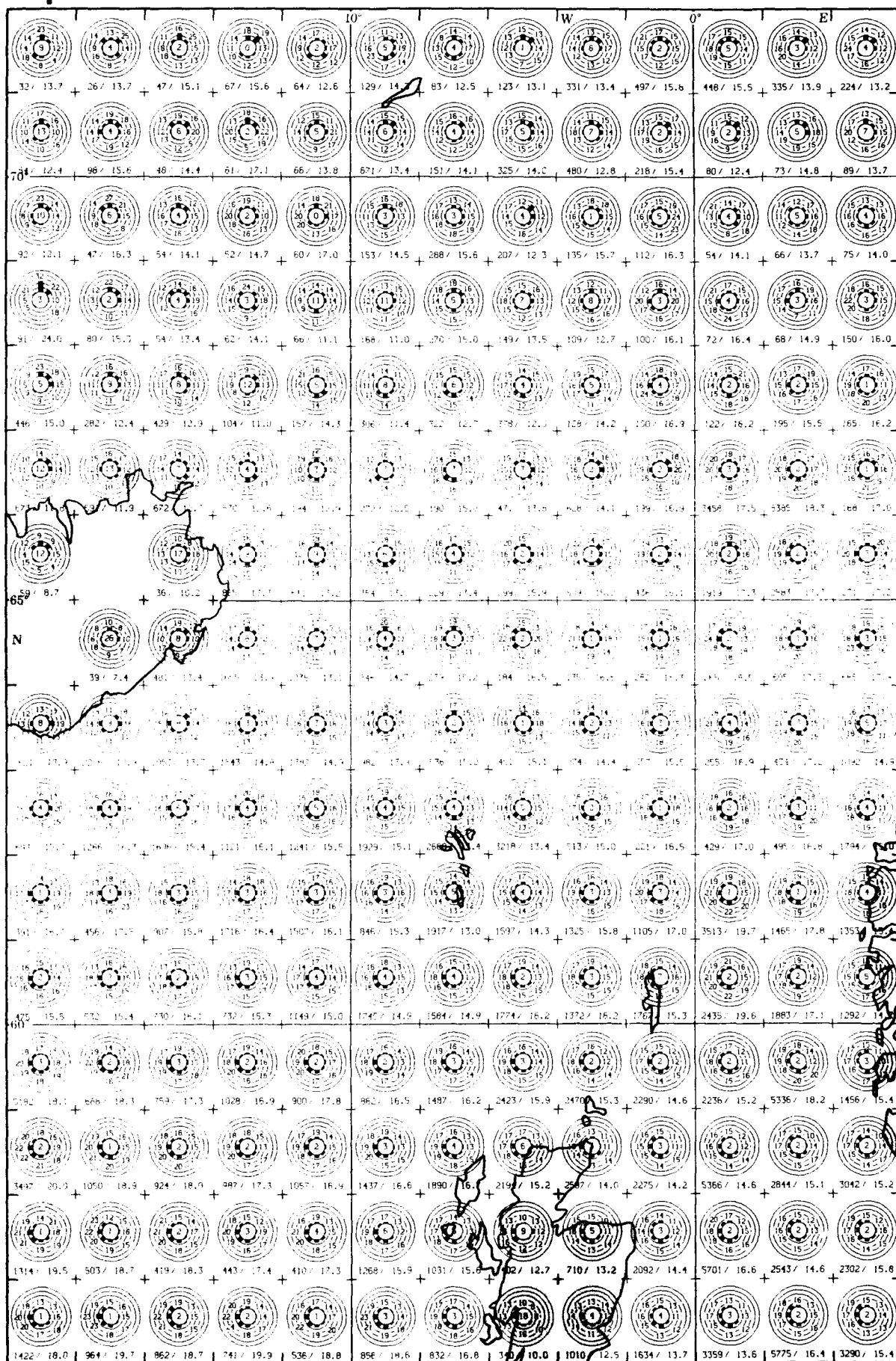
September

Wind Speed 11-21 and 22-33 Knots



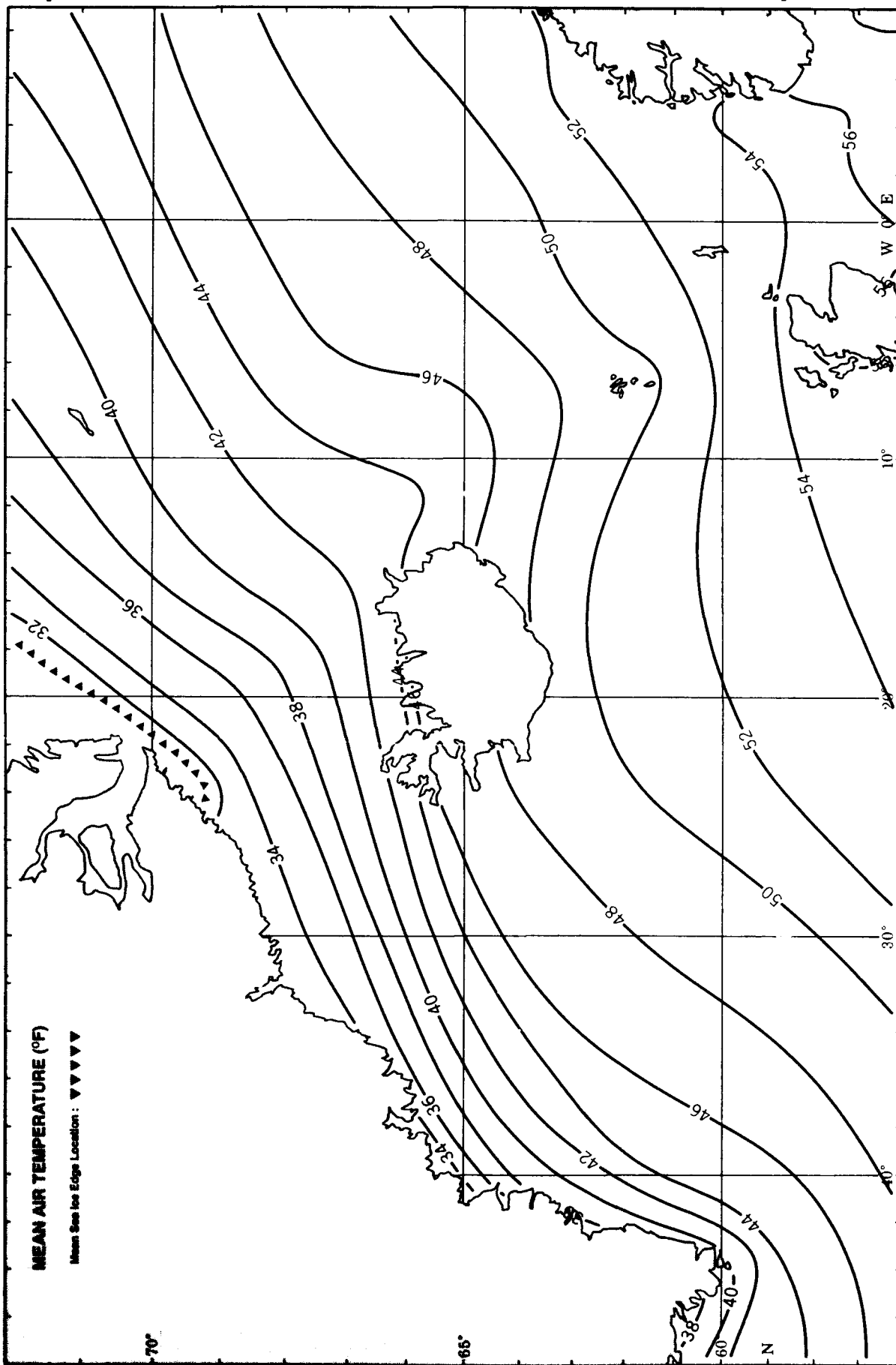
September

Surface Wind Roses



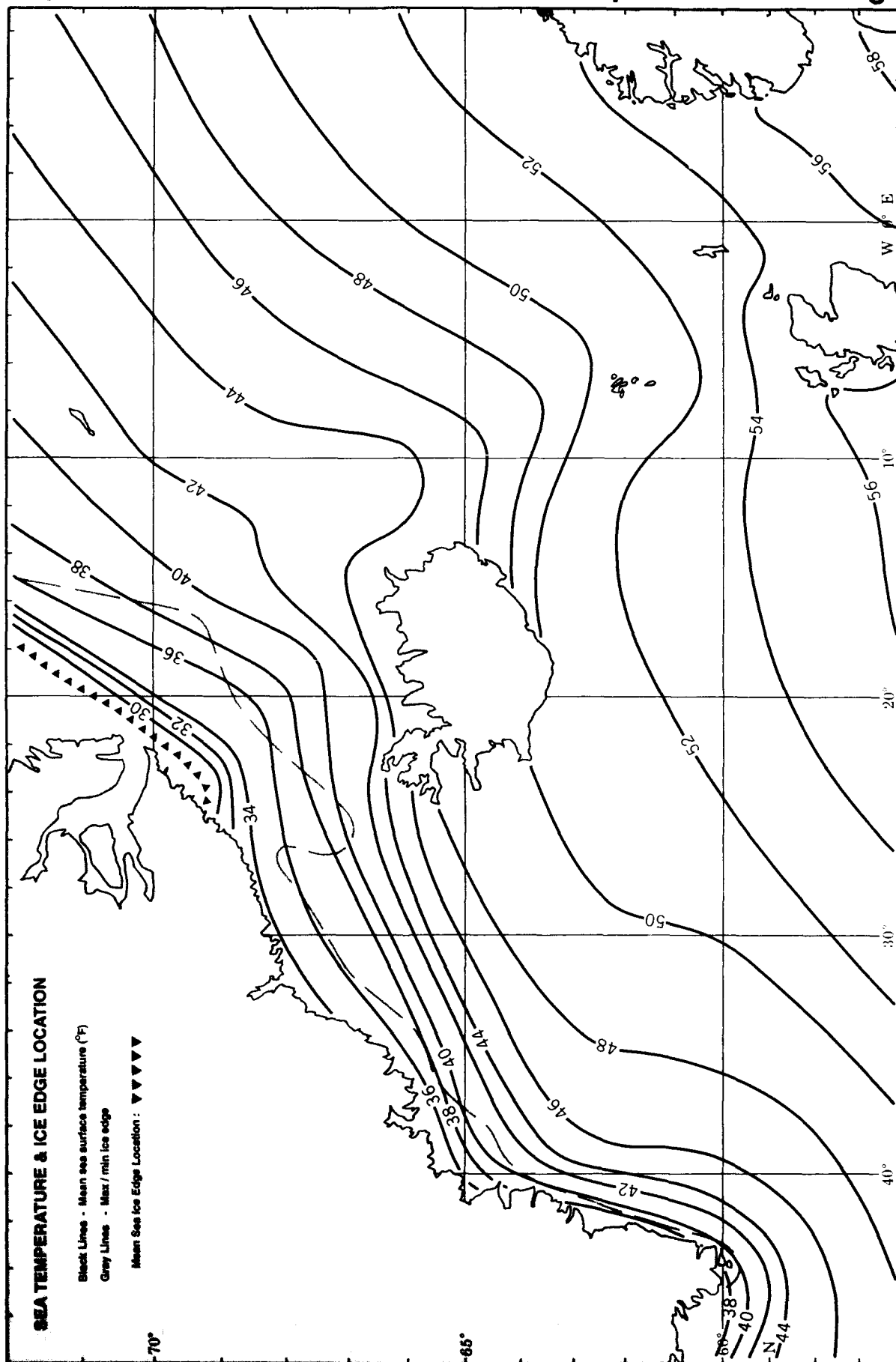
September

Mean Air Temperature



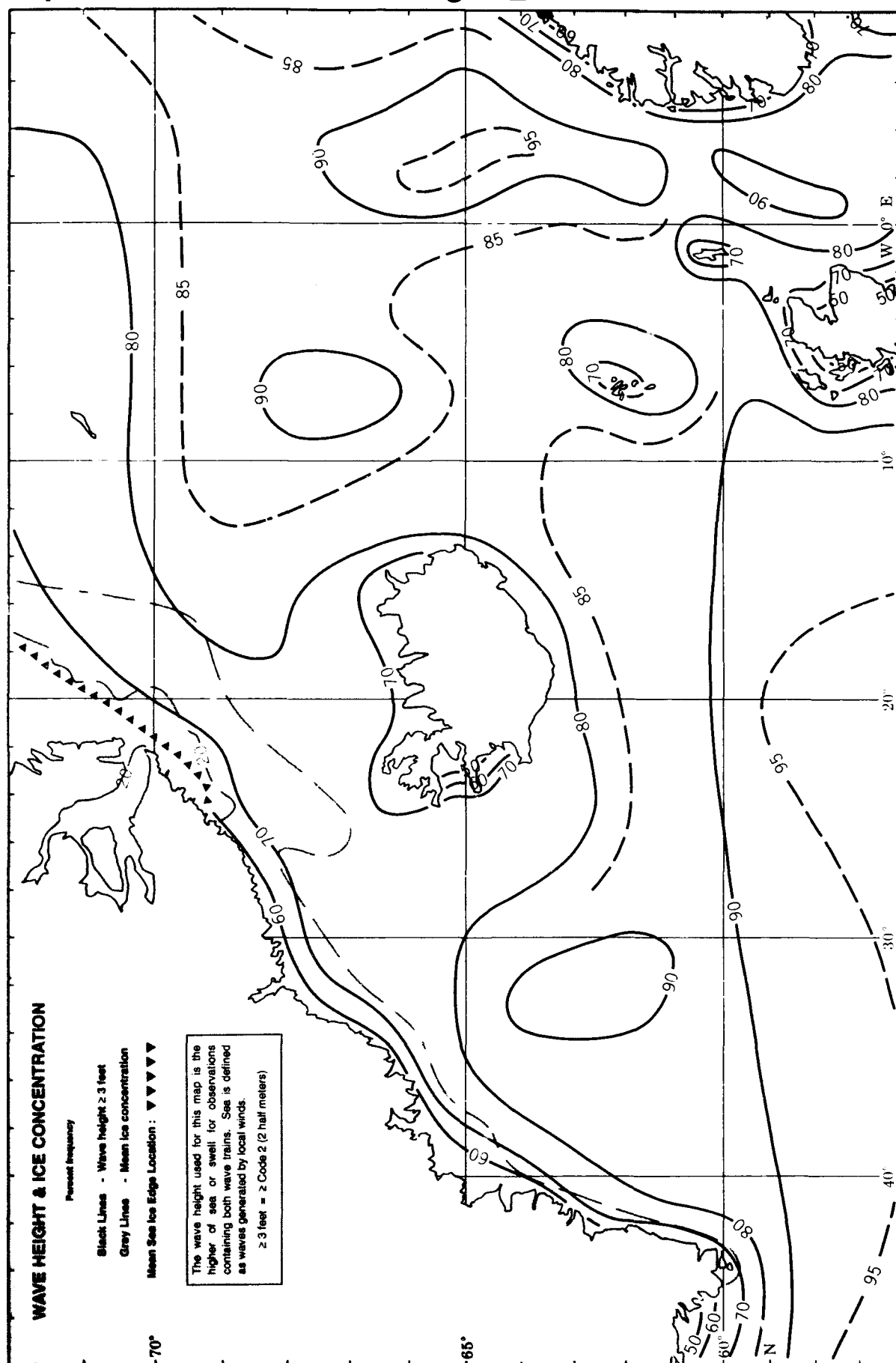
September

Mean Sea Temperature & Ice Edge



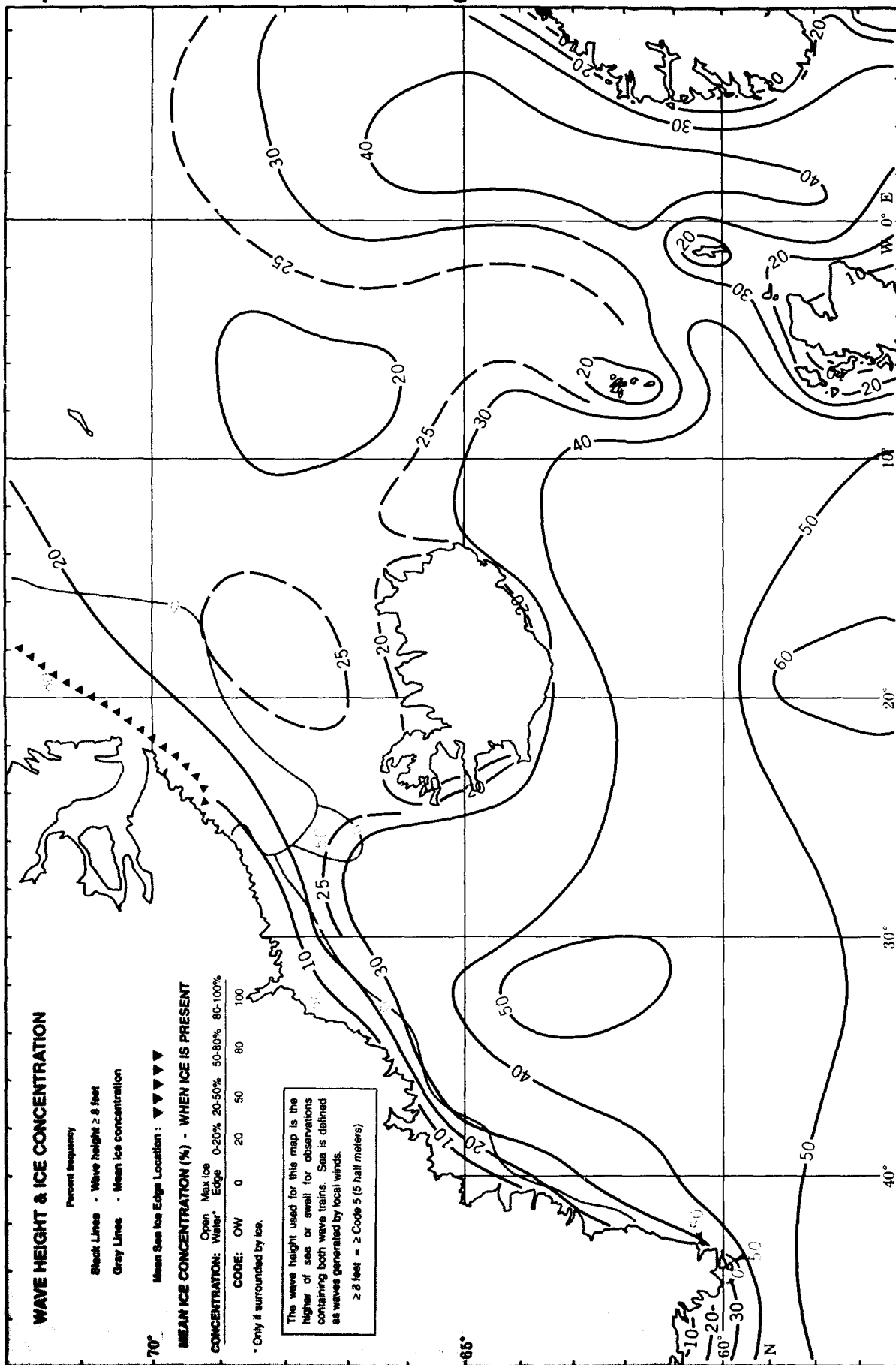
Wave Height ≥ 3 Ft. & Ice Concentration

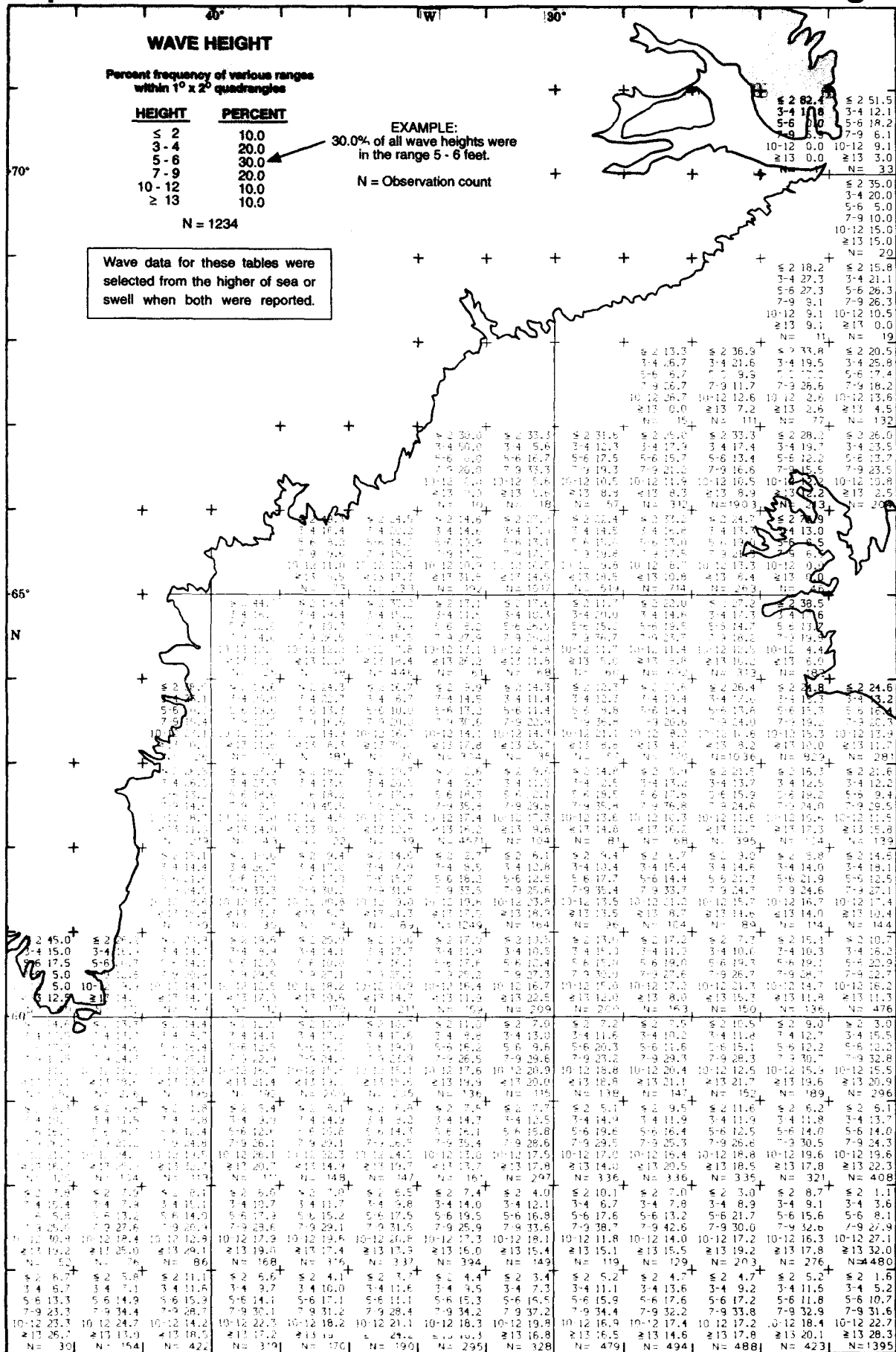
Wave Height ≥ 3 Ft. & Ice Concentration



September

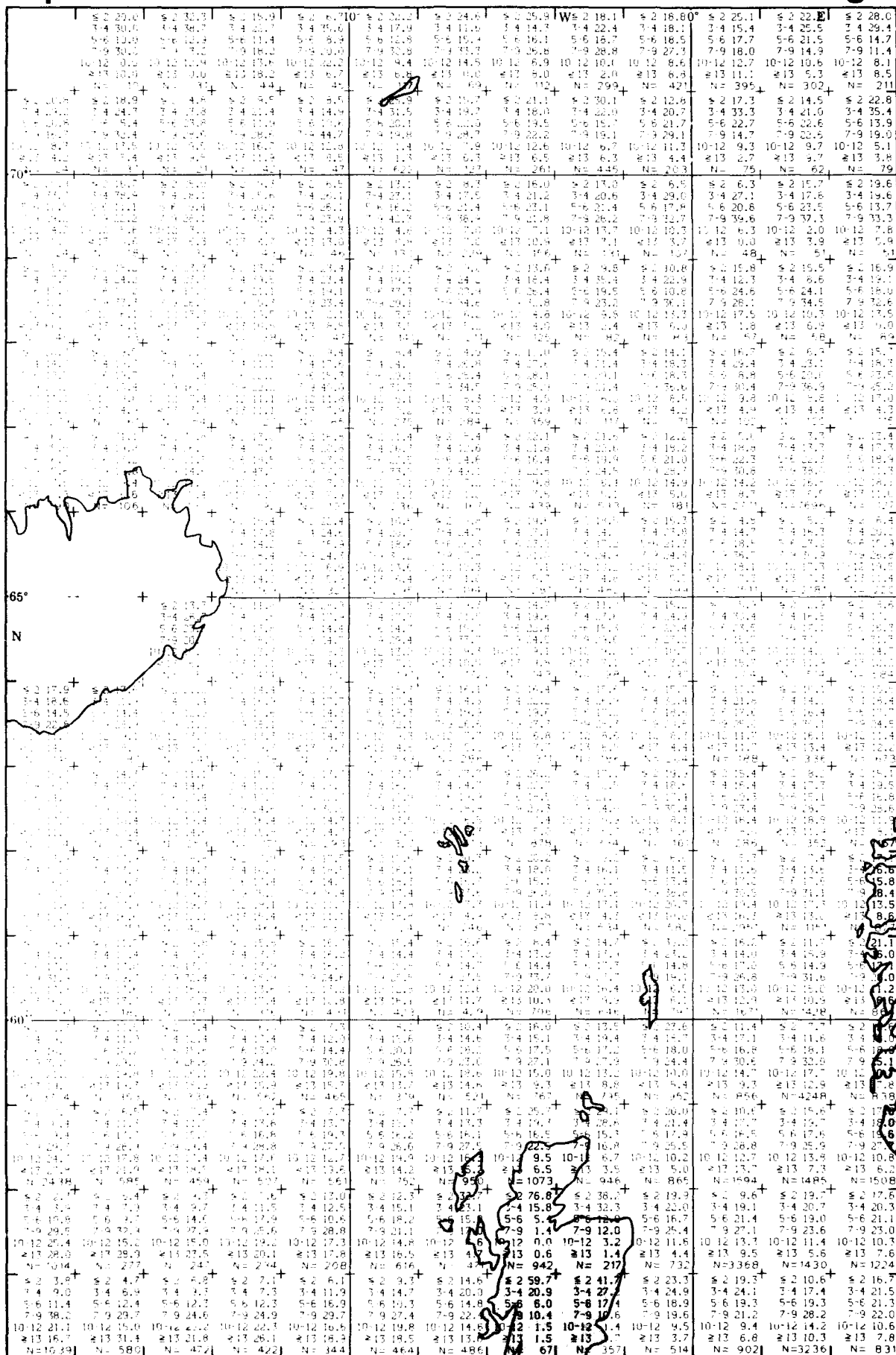
Wave Height ≥ 8 Ft. & Ice Concentration





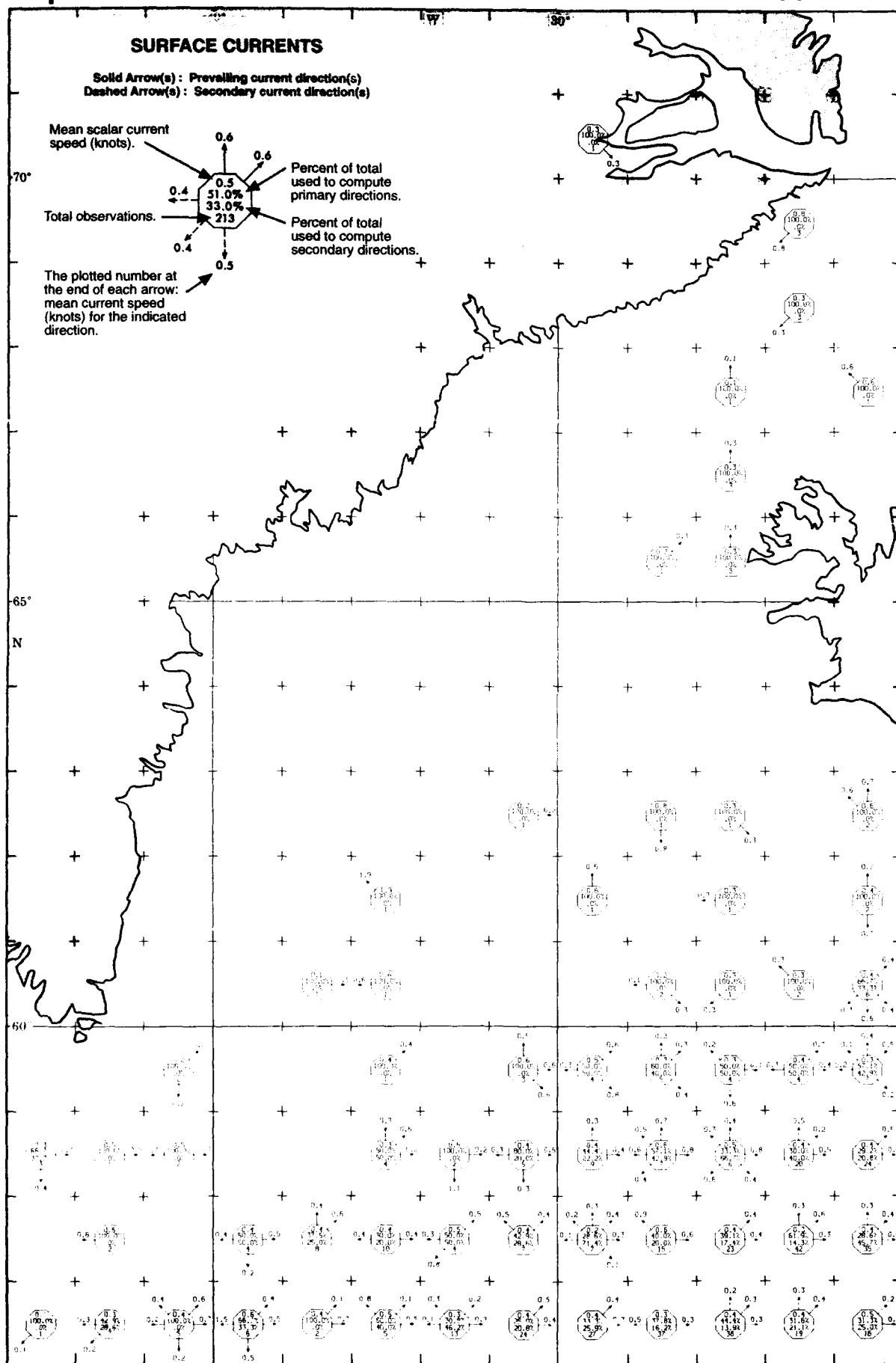
Wave Height

Wave Height



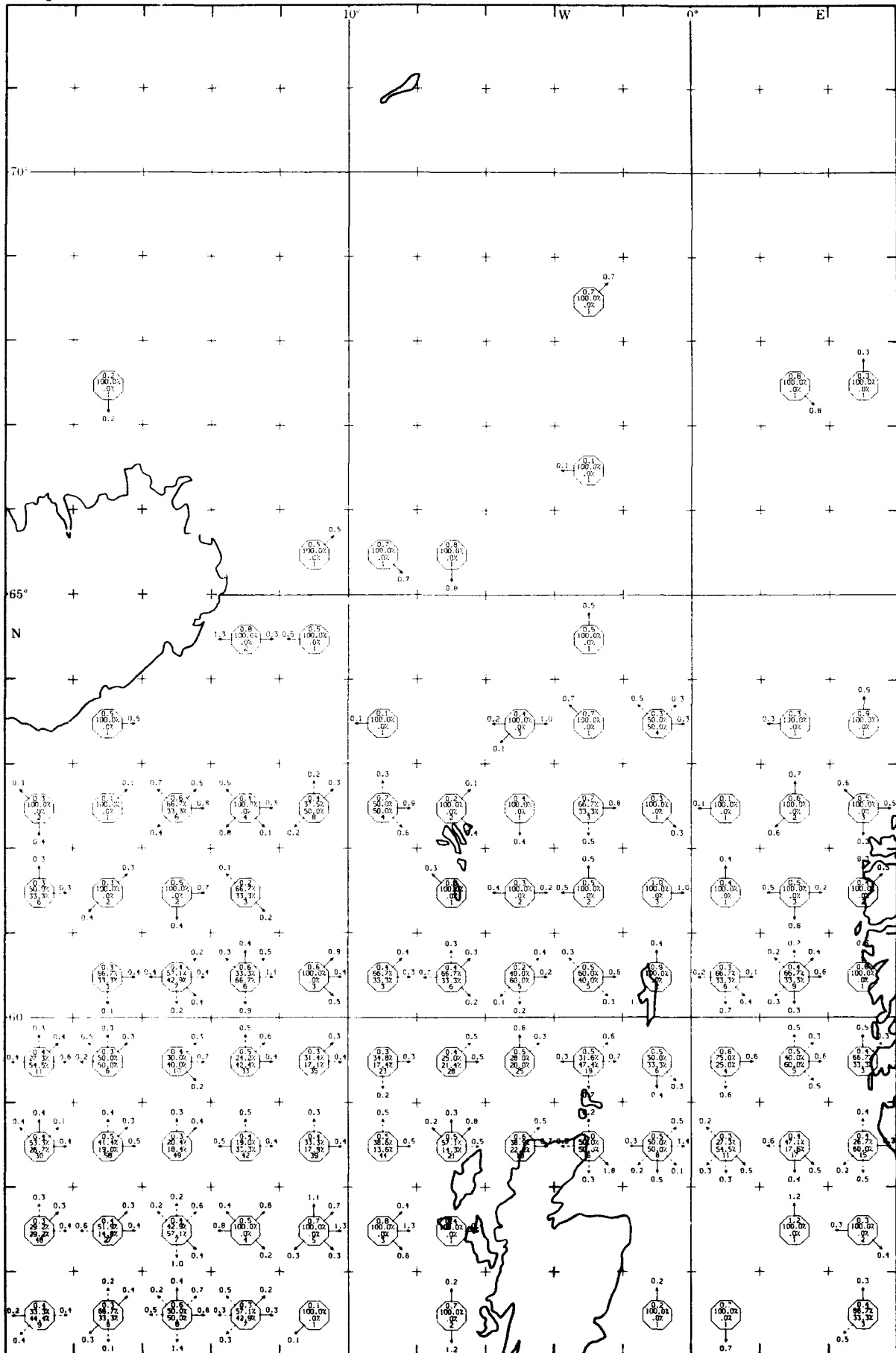
September

Surface Currents



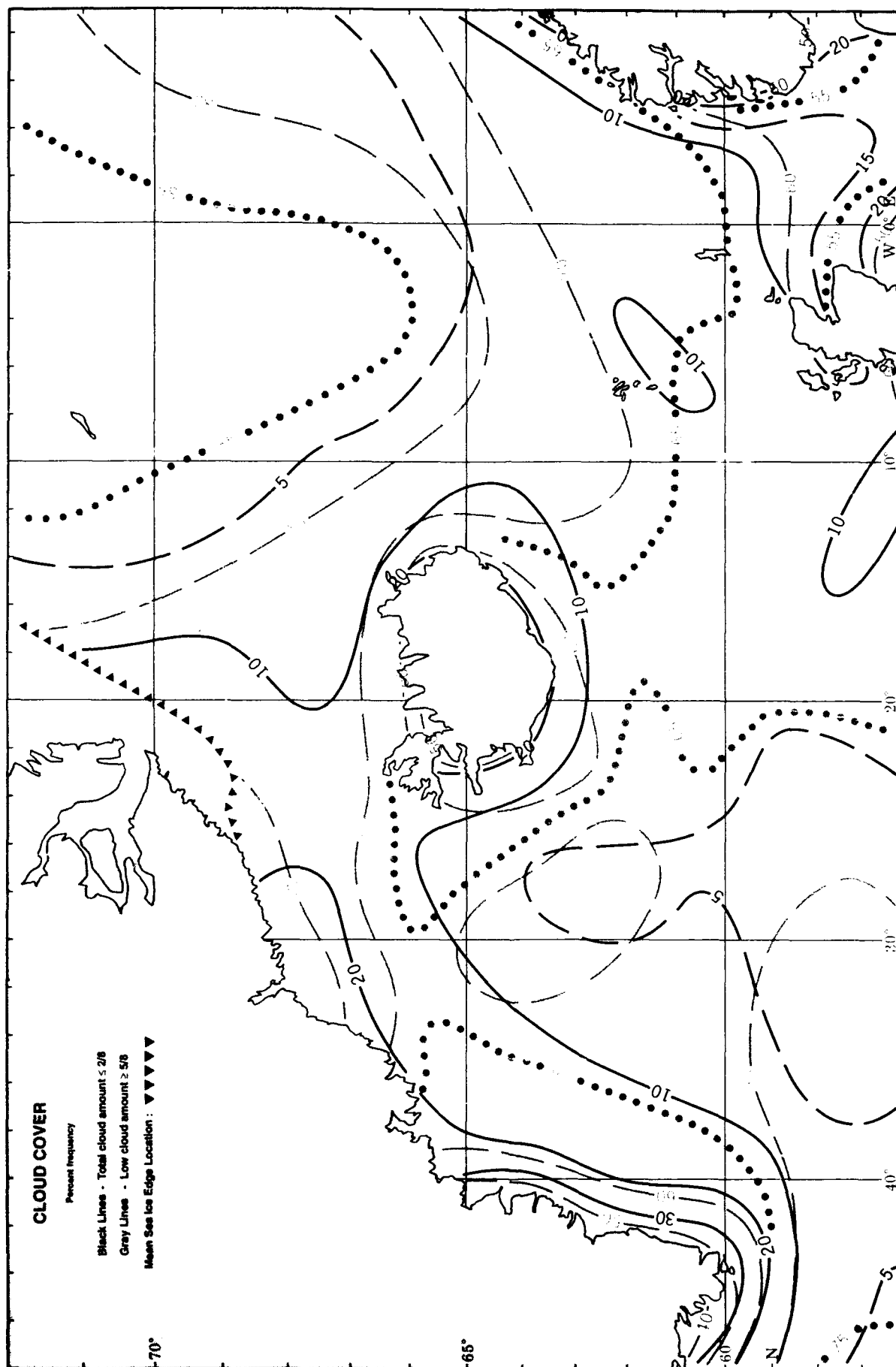
September

Surface Currents



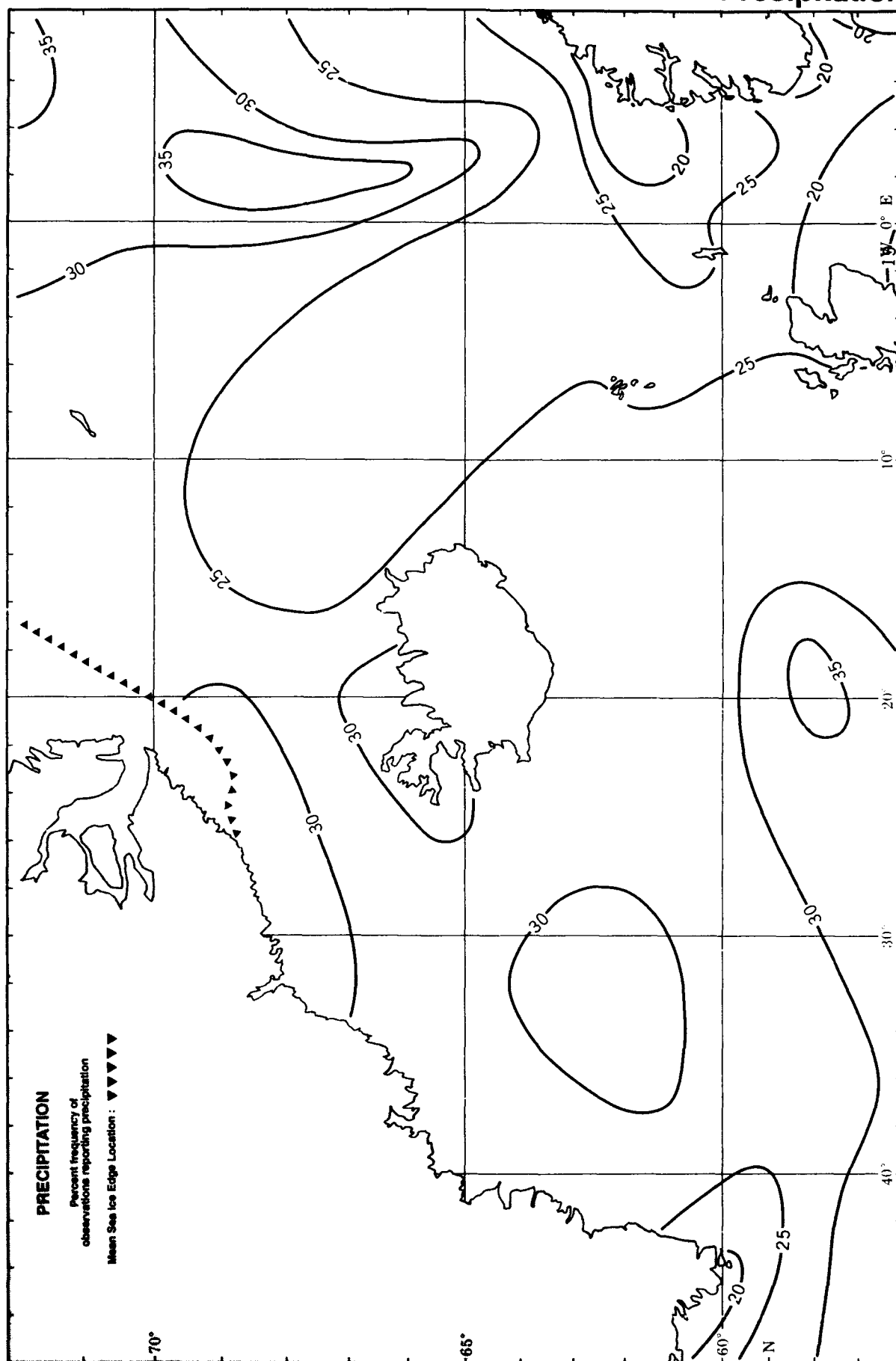
October

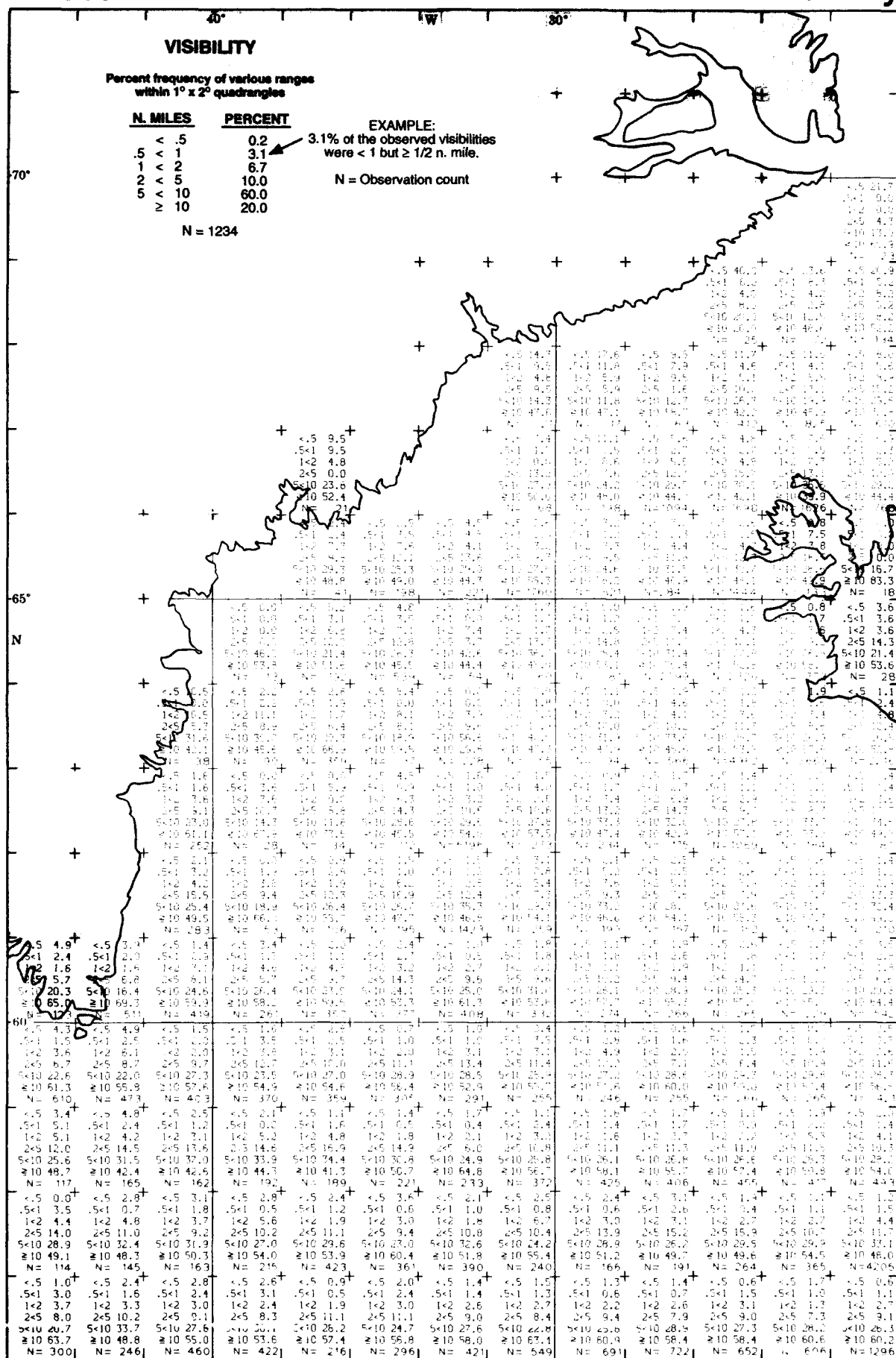
Clouds



October

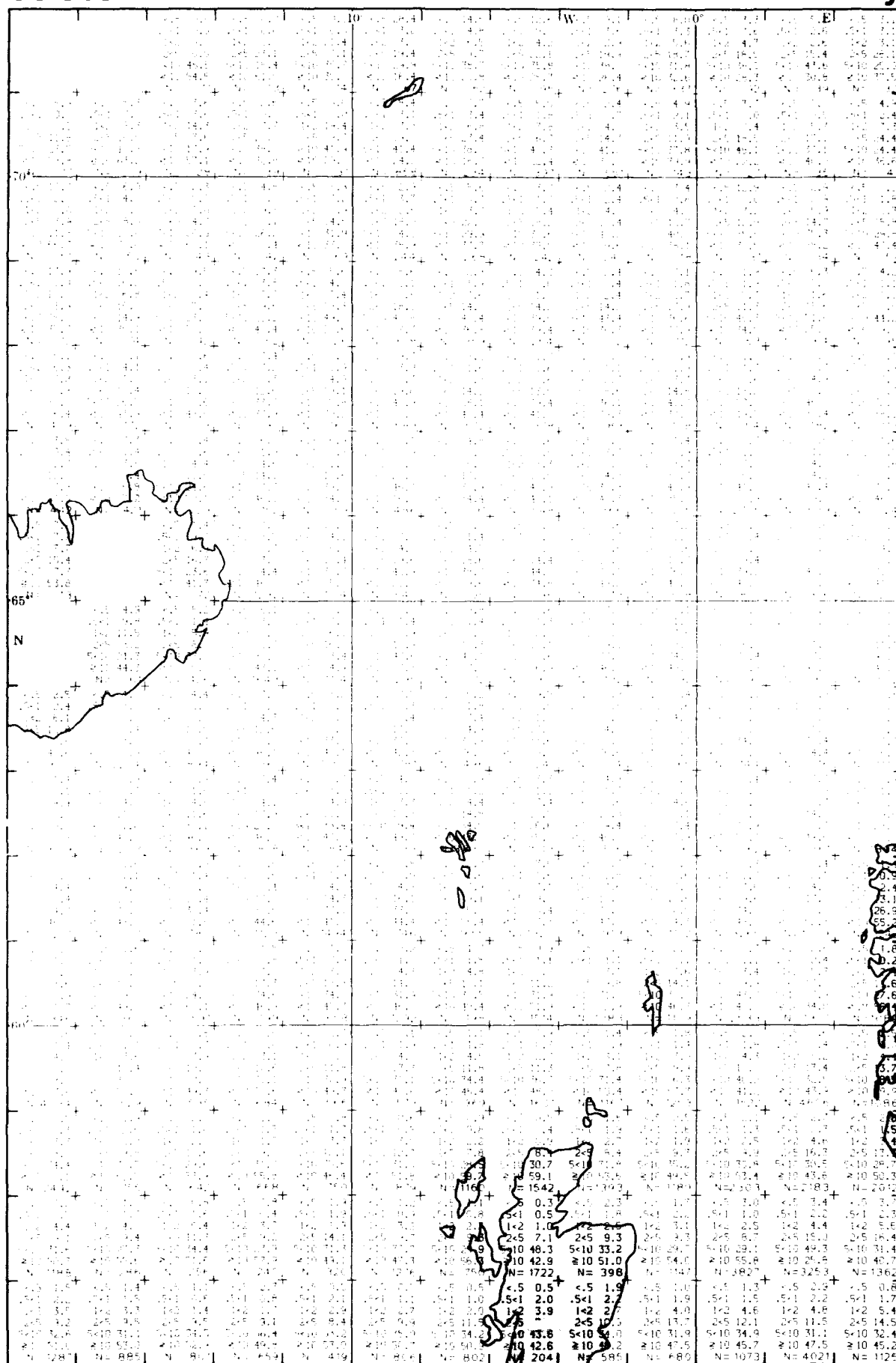
Precipitation





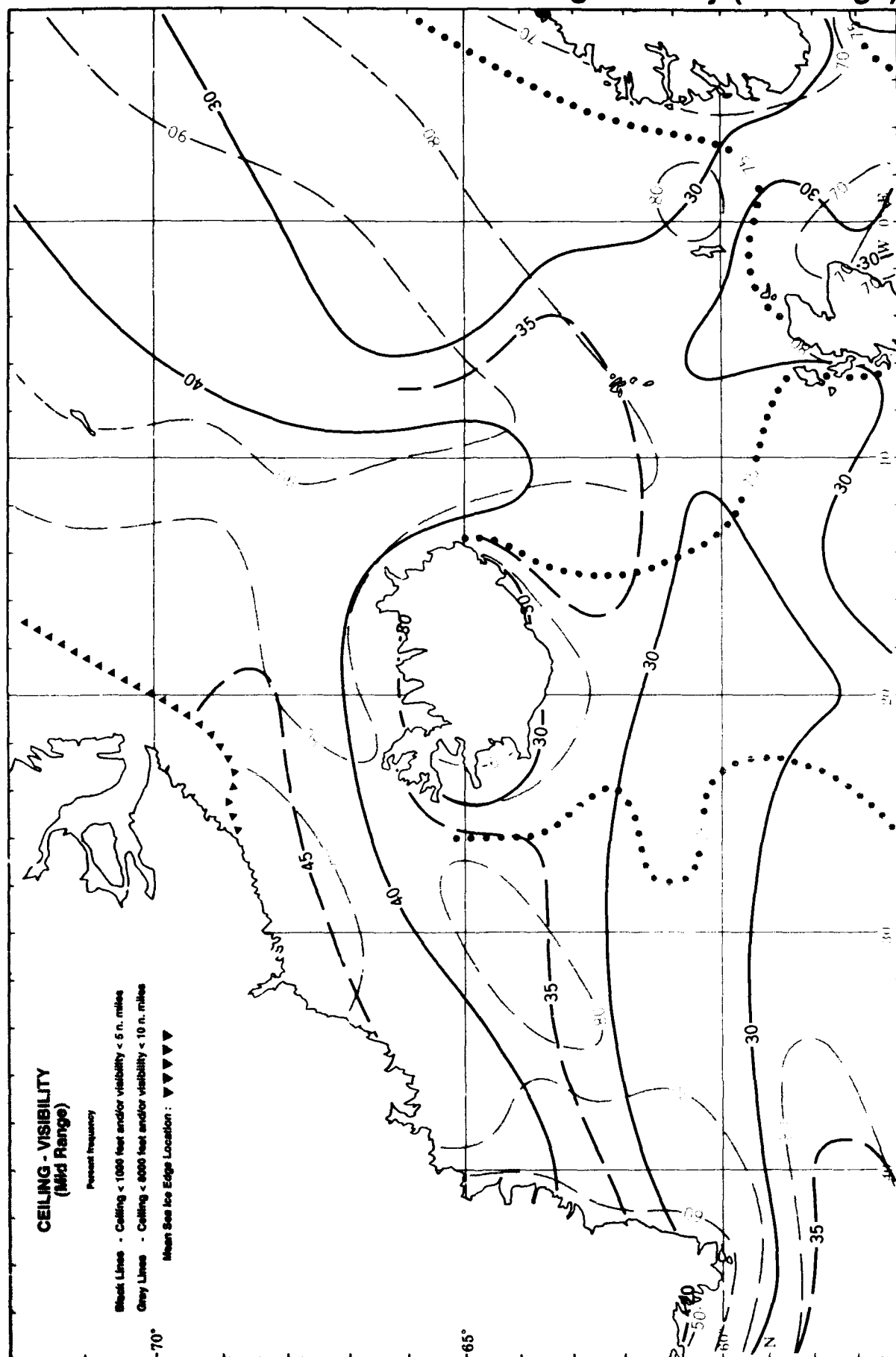
October

Visibility



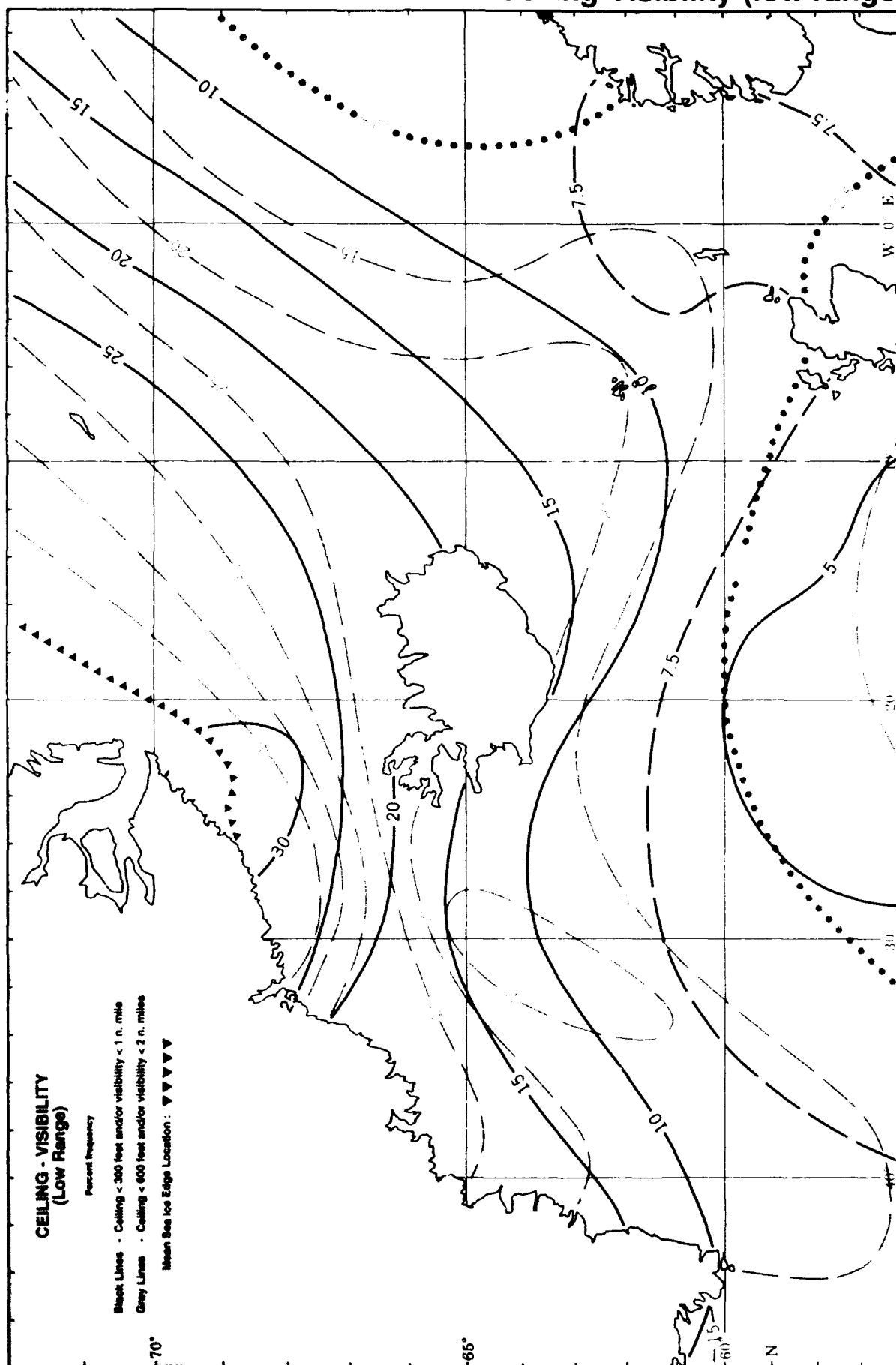
October

Ceiling-Visibility (mid range)



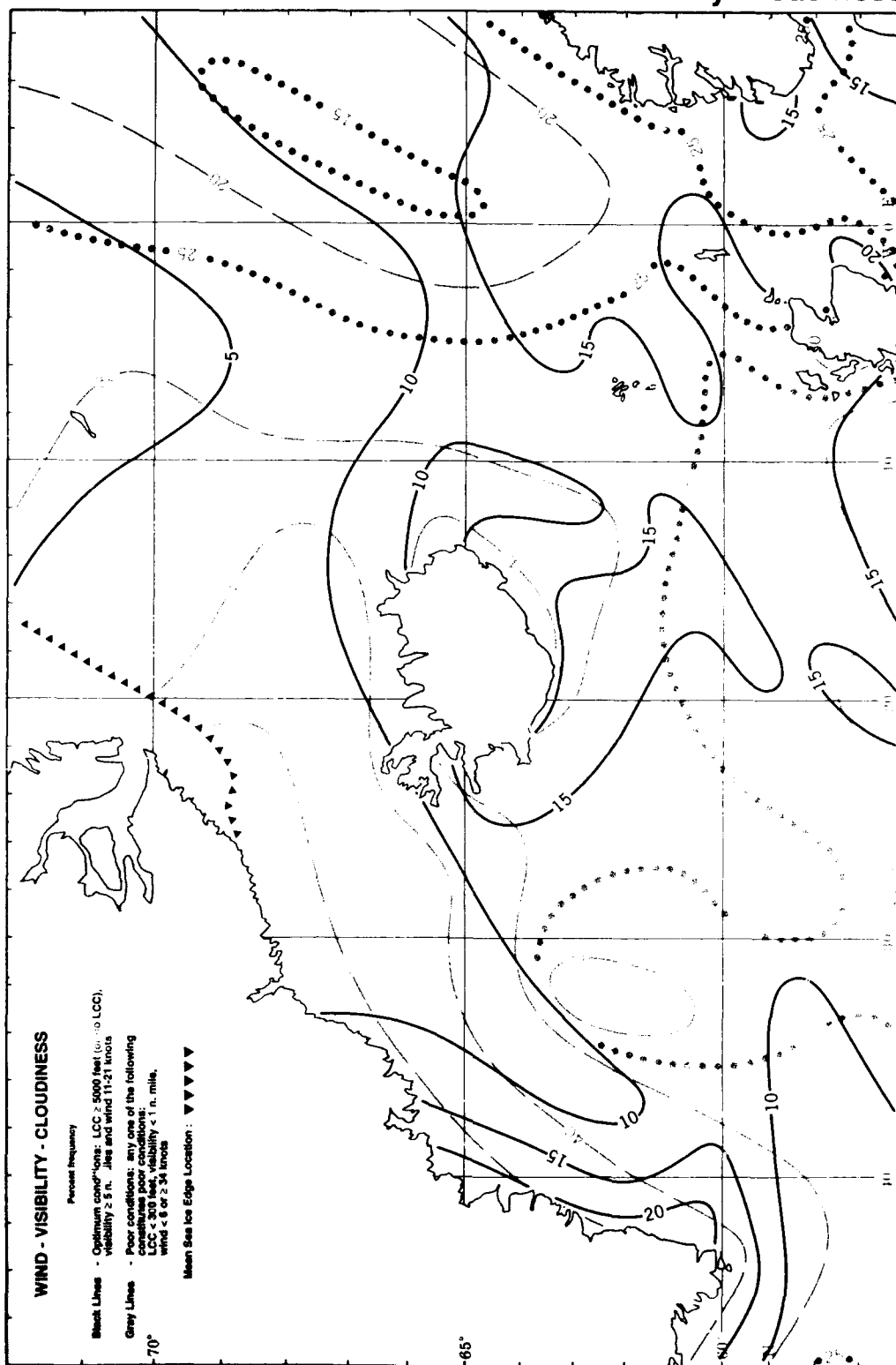
October

Ceiling-Visibility (low range)



October

Wind-Visibility-Cloudiness



188

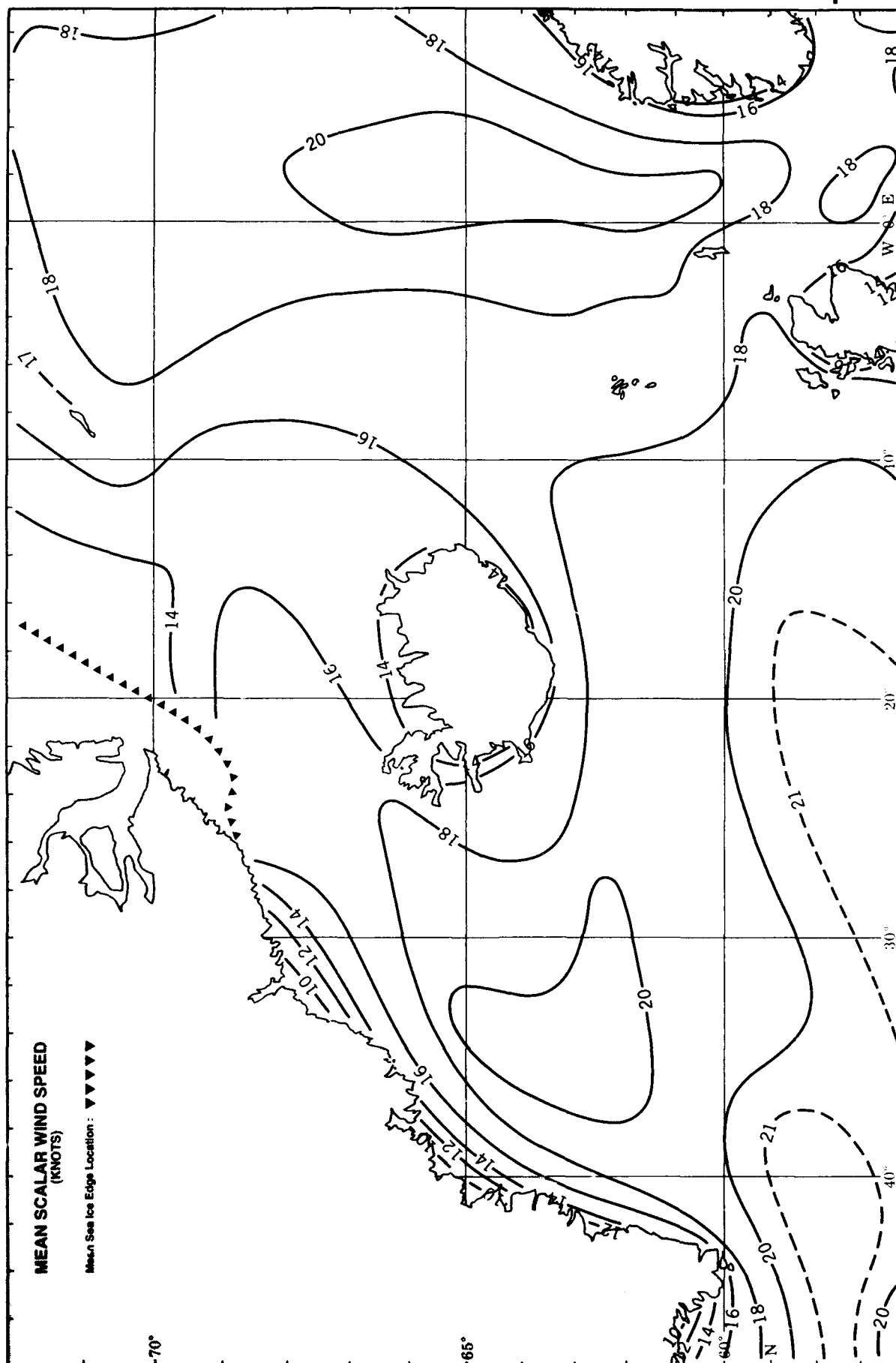
November

Clouds



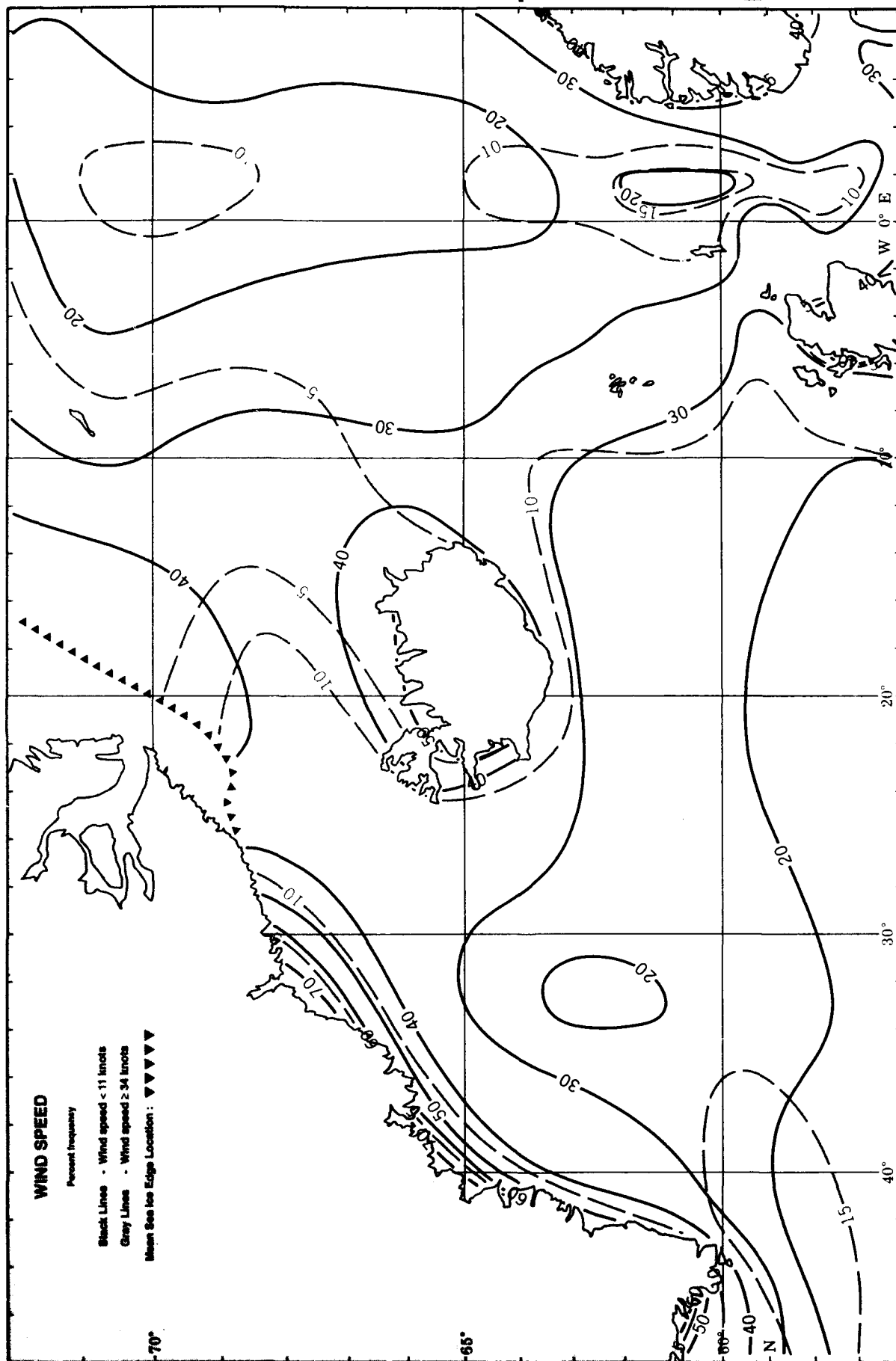
October

Mean Scalar Wind Speed



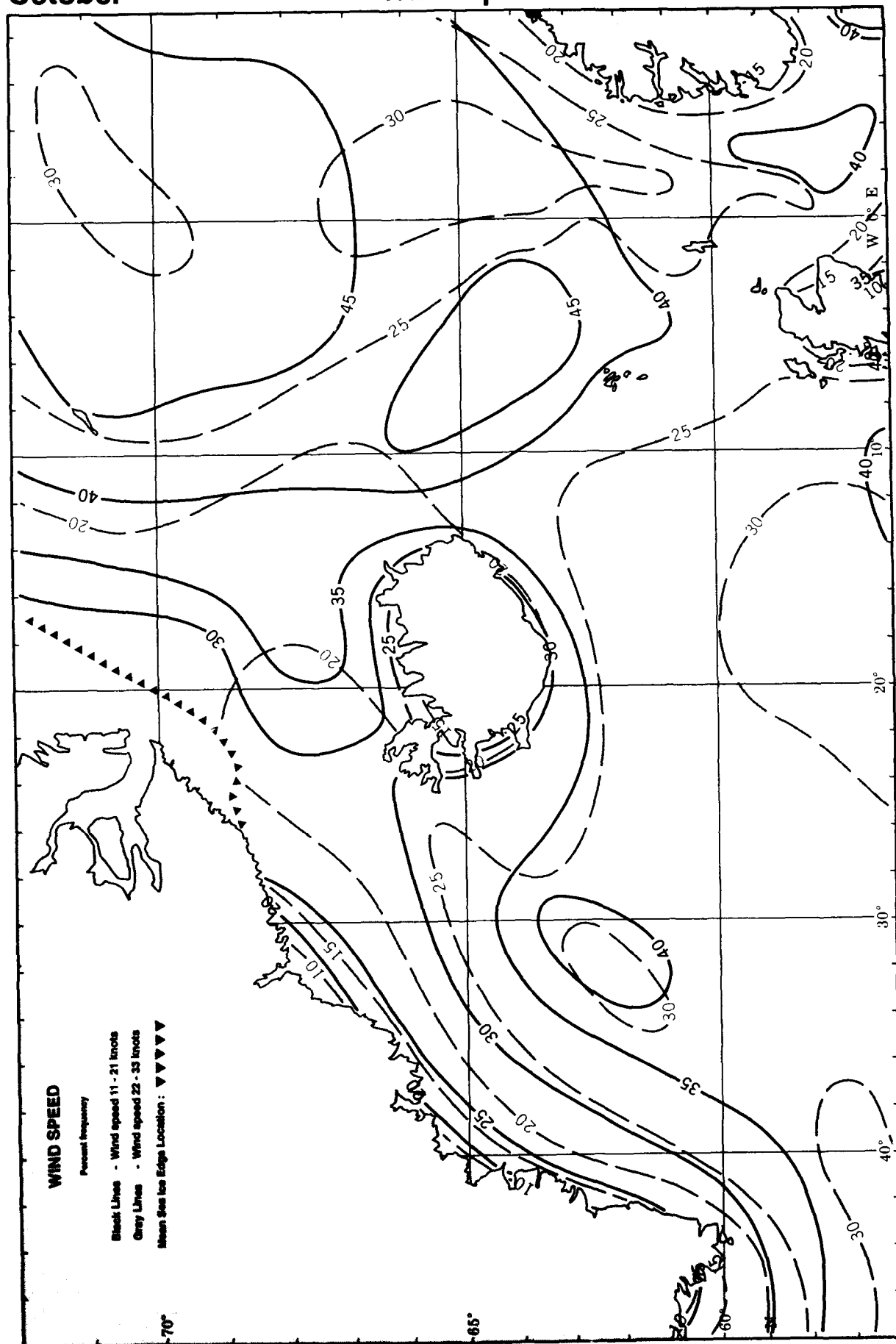
October

Wind Speed < 11 and ≥ 34 Knots



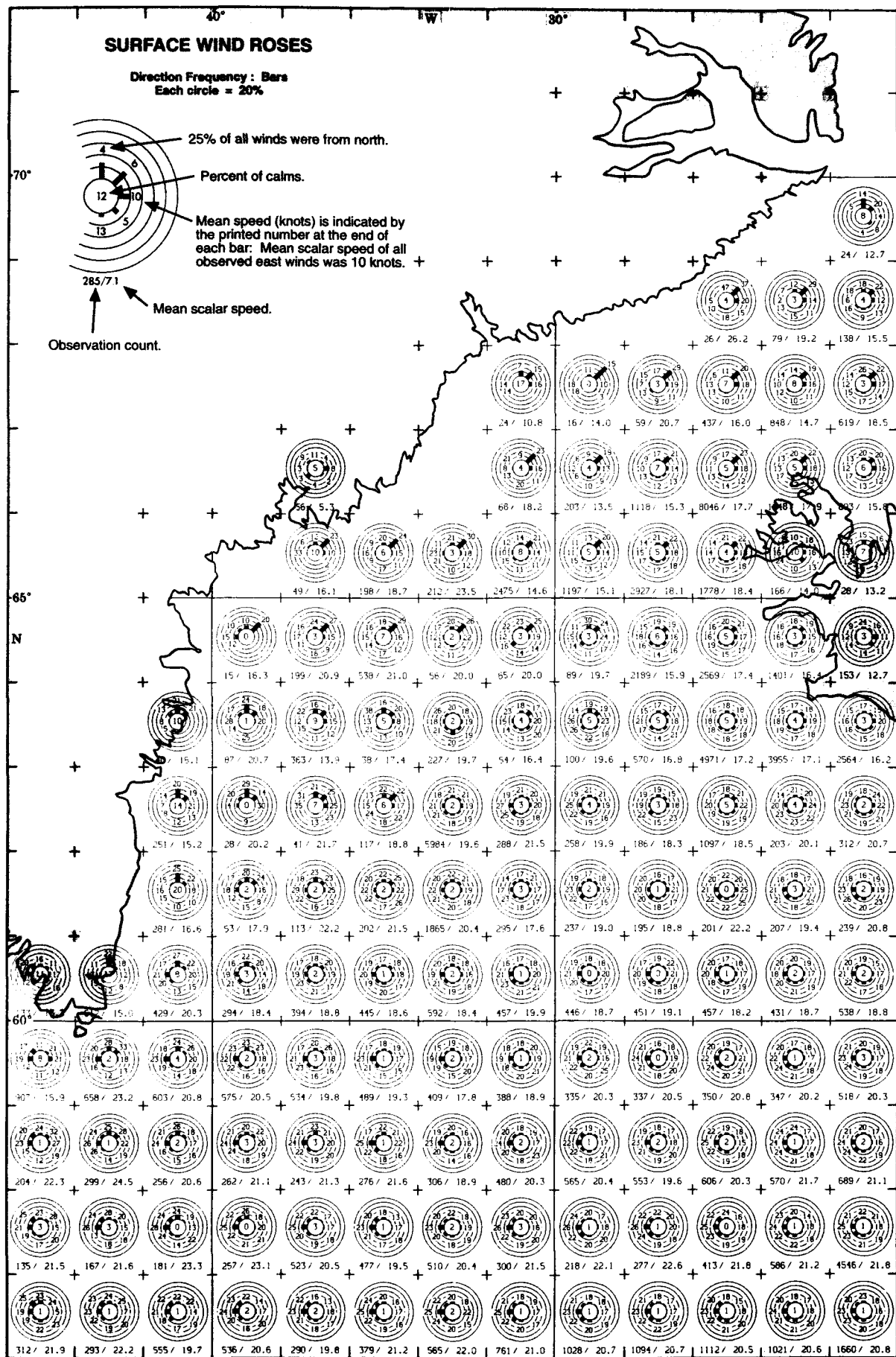
October

Wind Speed 11-21 and 22-33 Knots



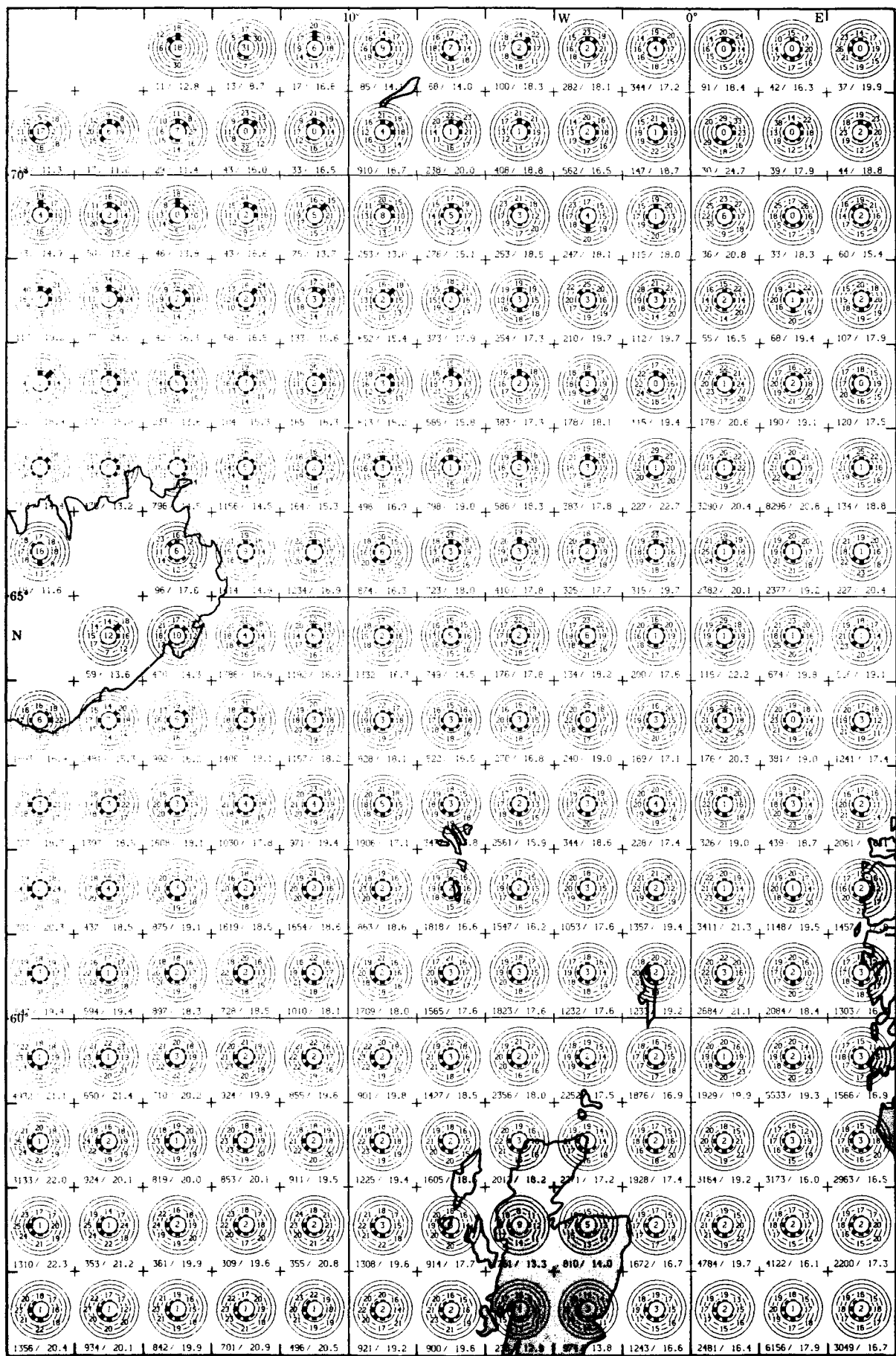
October

Surface Wind Roses



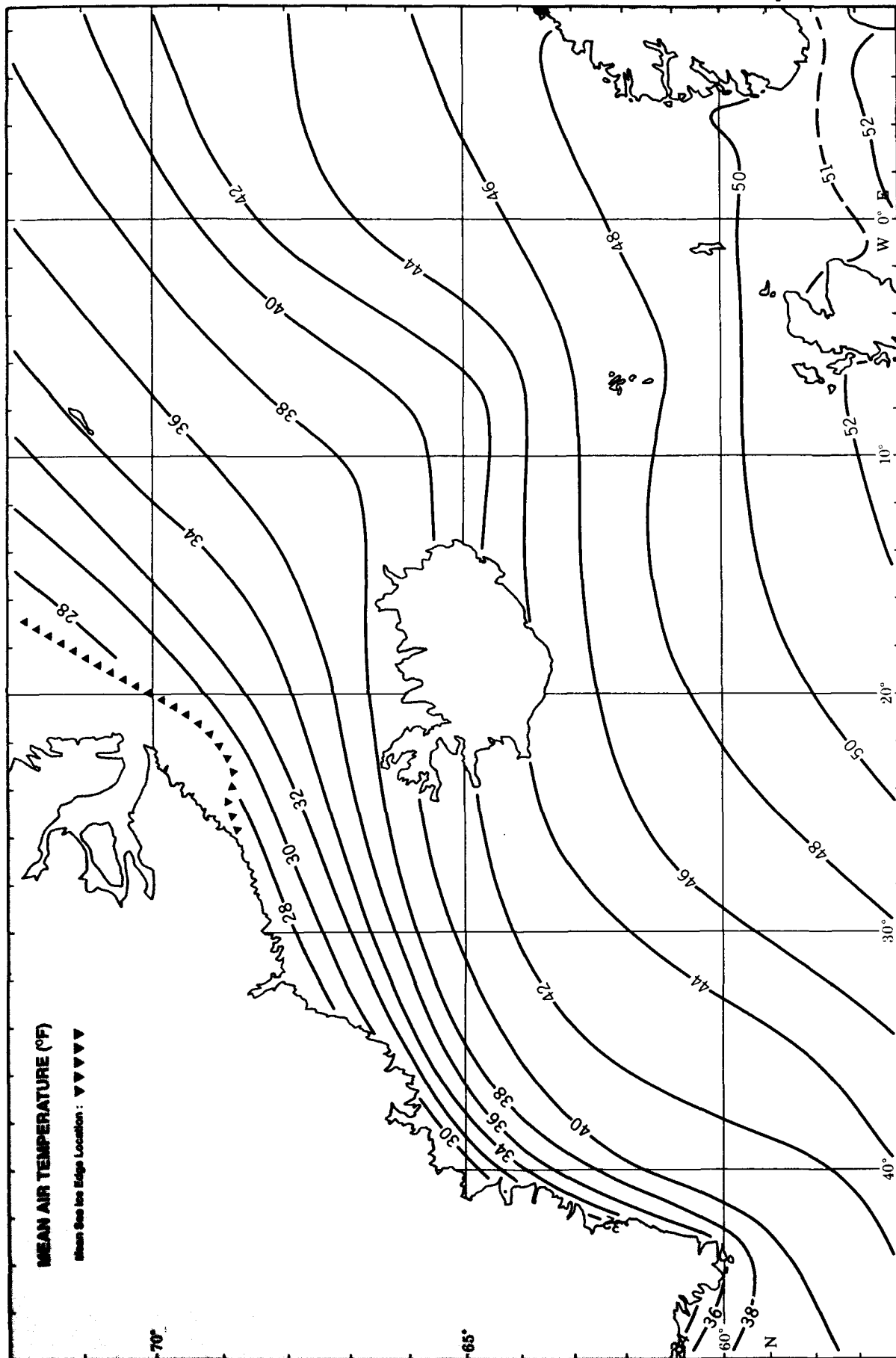
October

Surface Wind Roses



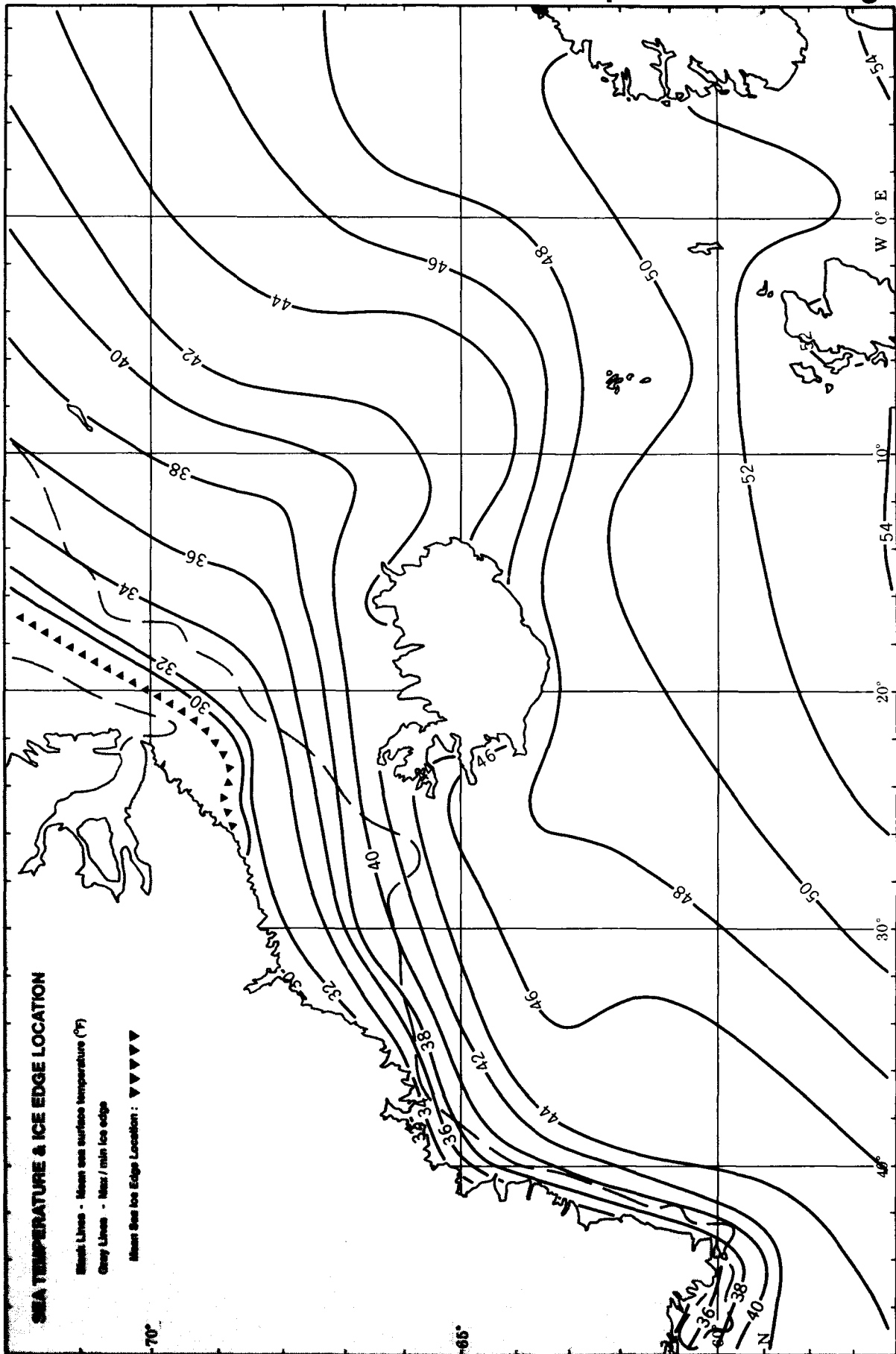
October

Mean Air Temperature



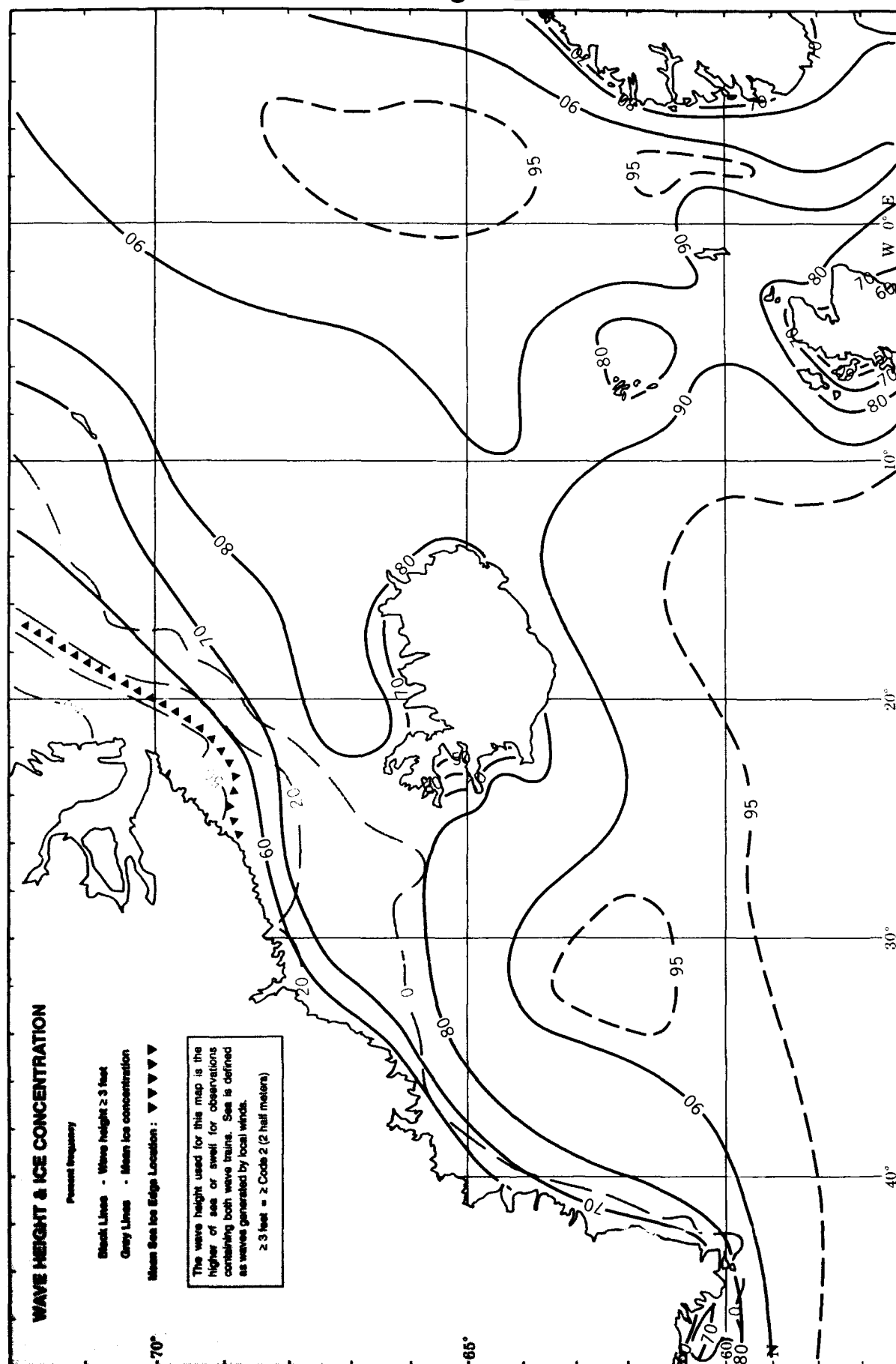
October

Mean Sea Temperature & Ice Edge



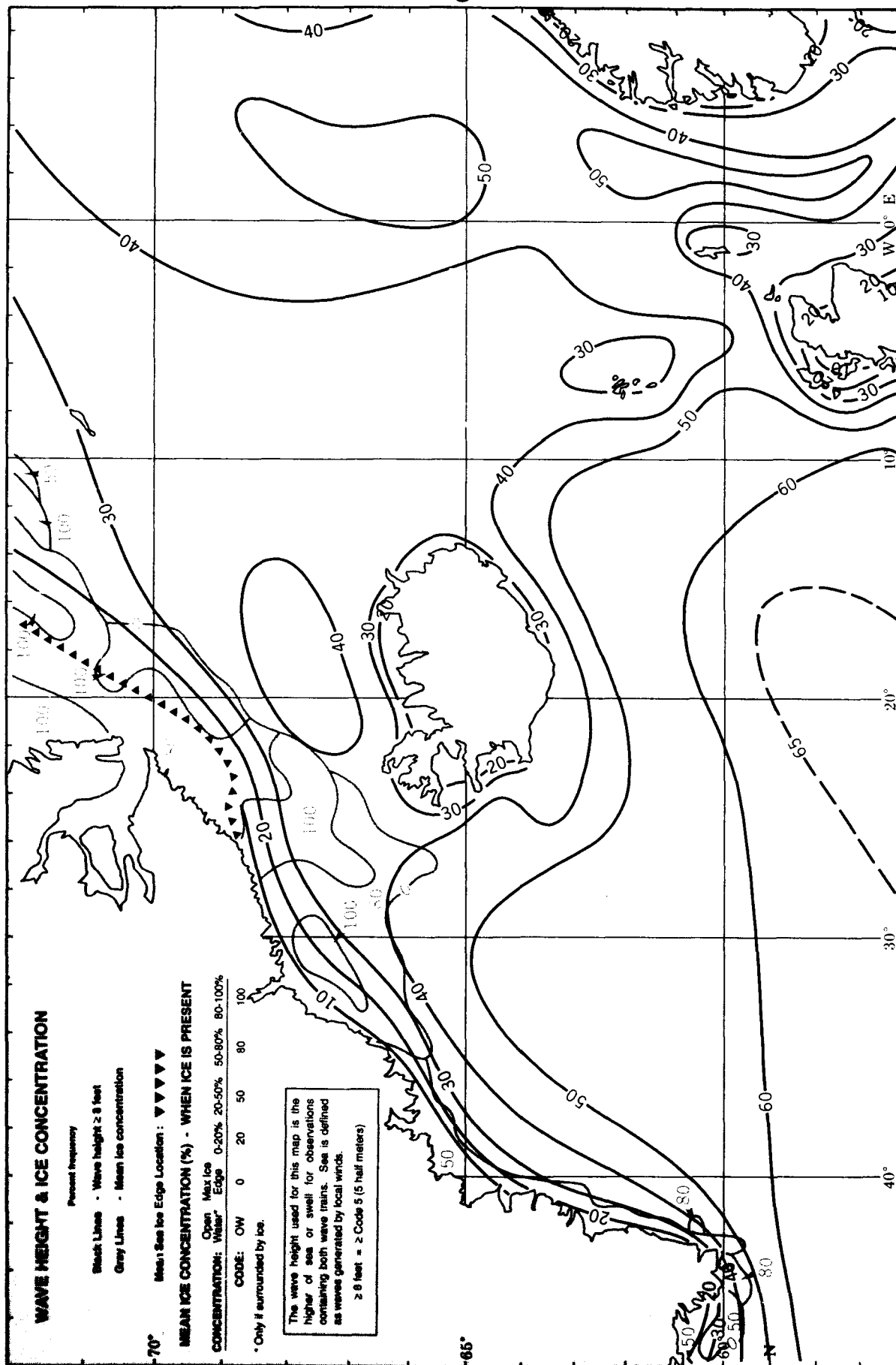
October

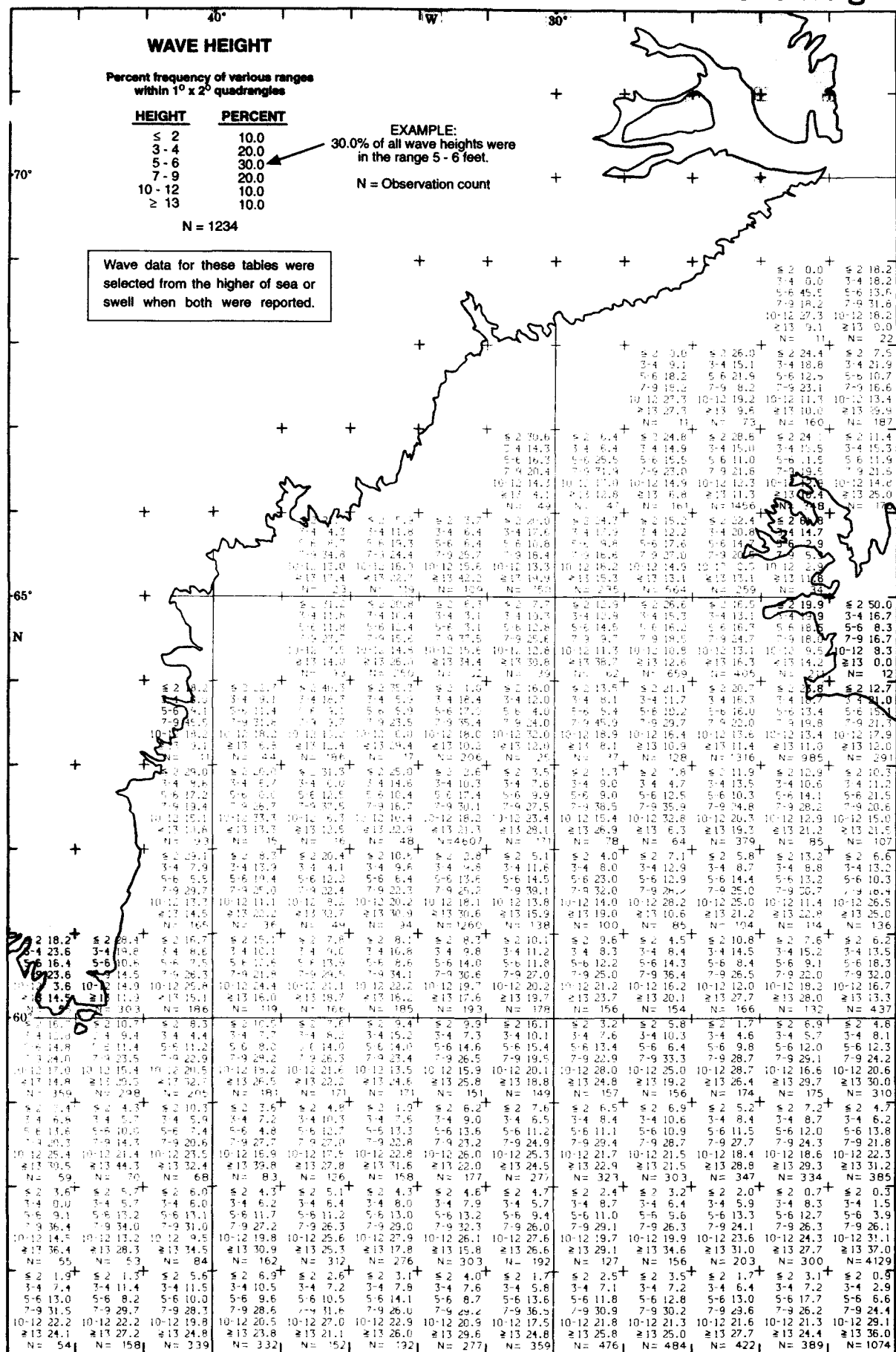
Wave Height ≥ 3 Ft. & Ice Concentration



October

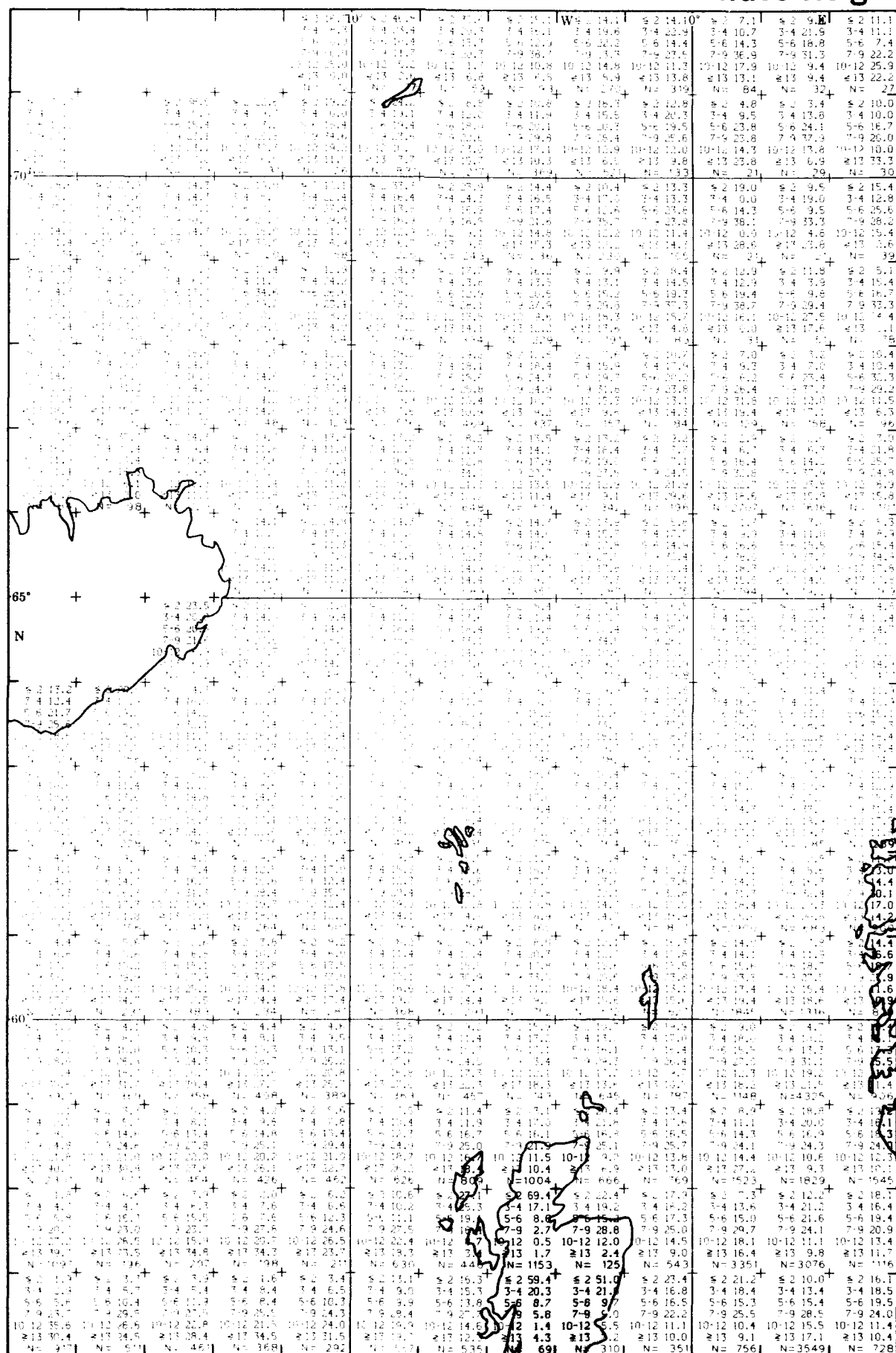
Wave Height ≥ 8 Ft. & Ice Concentration





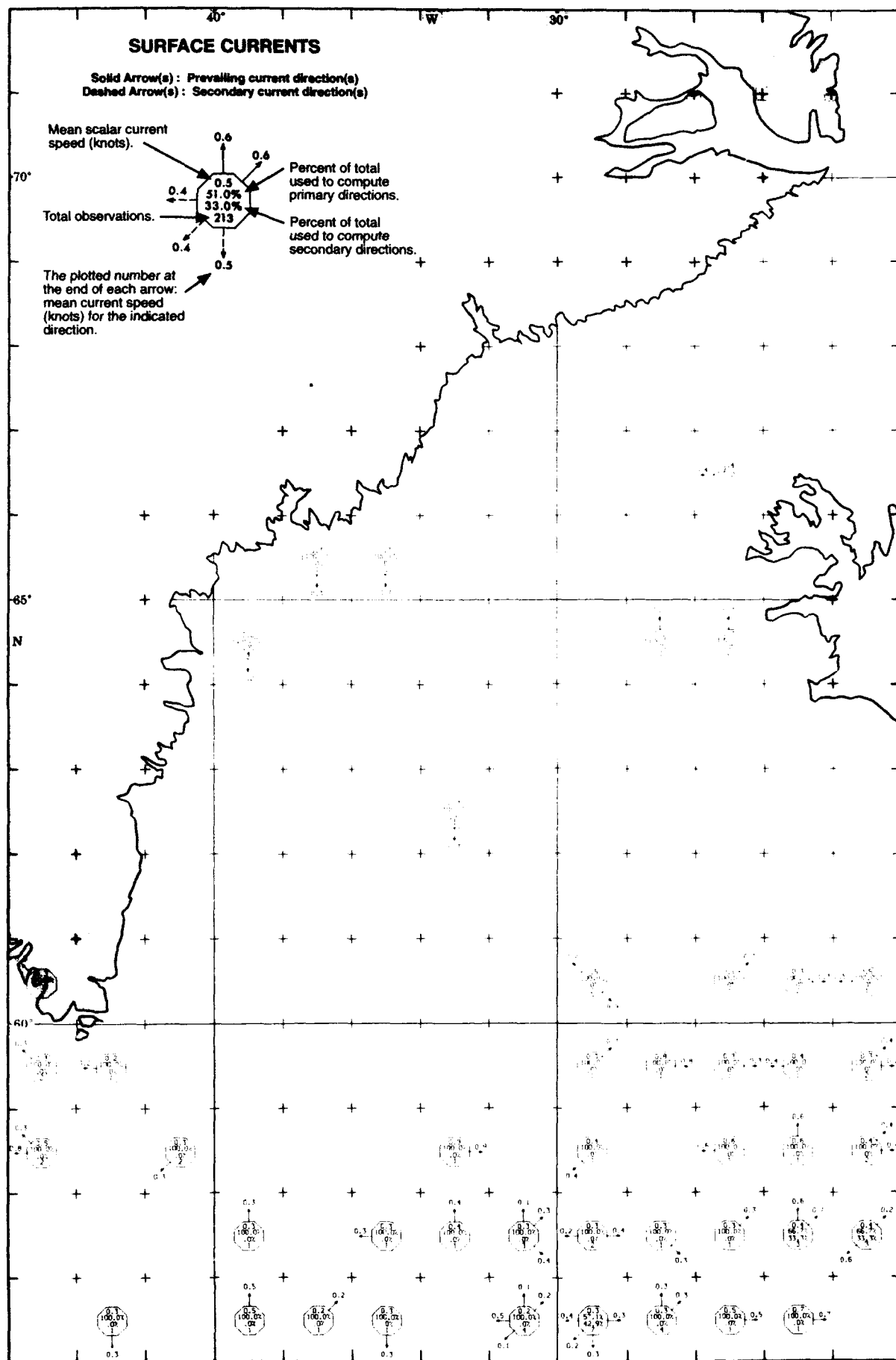
October

Wave Height



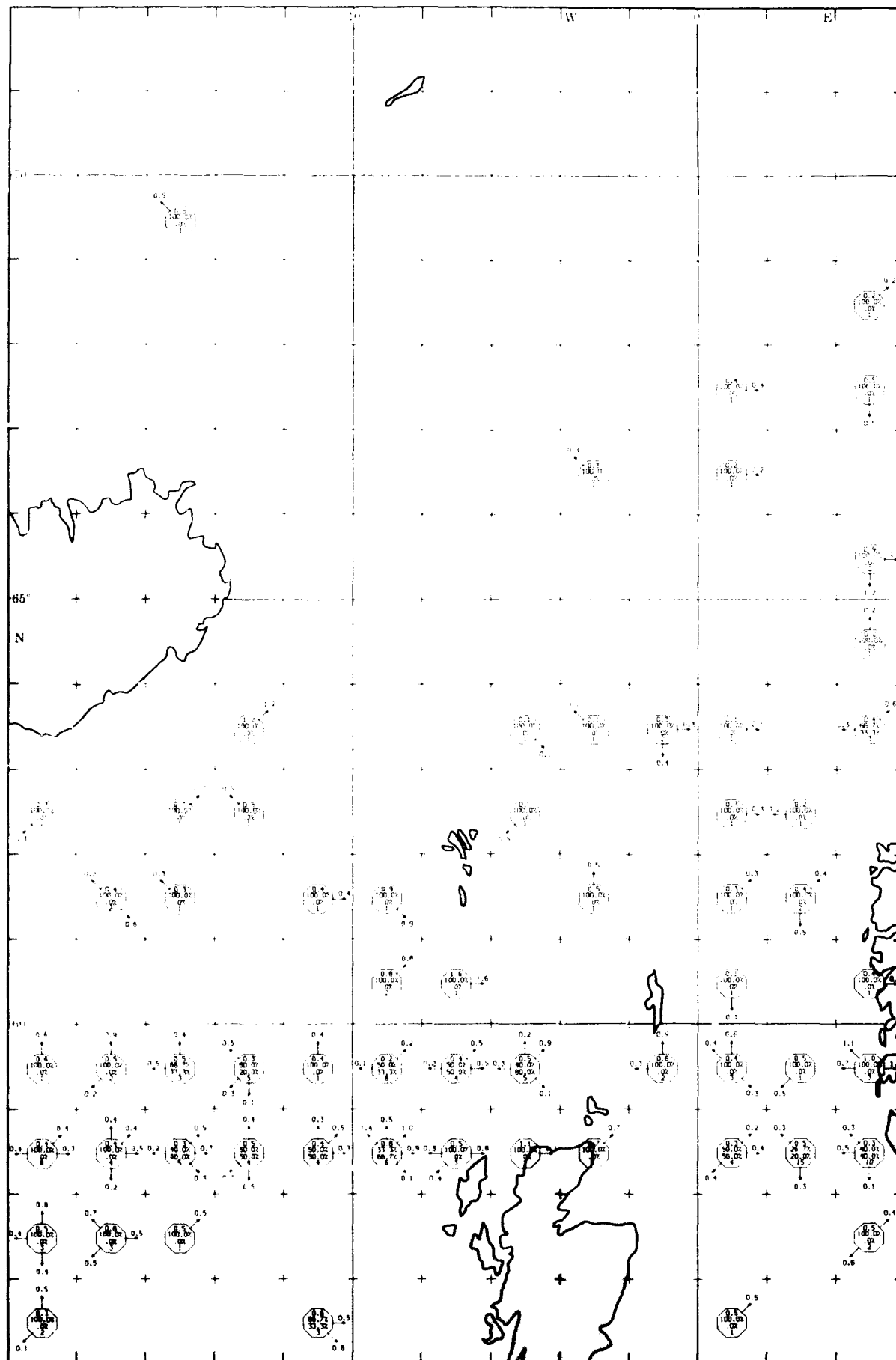
October

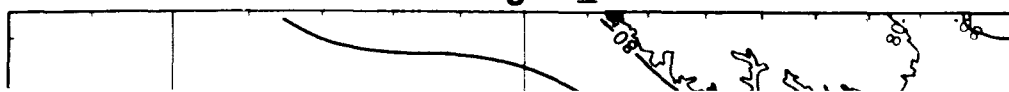
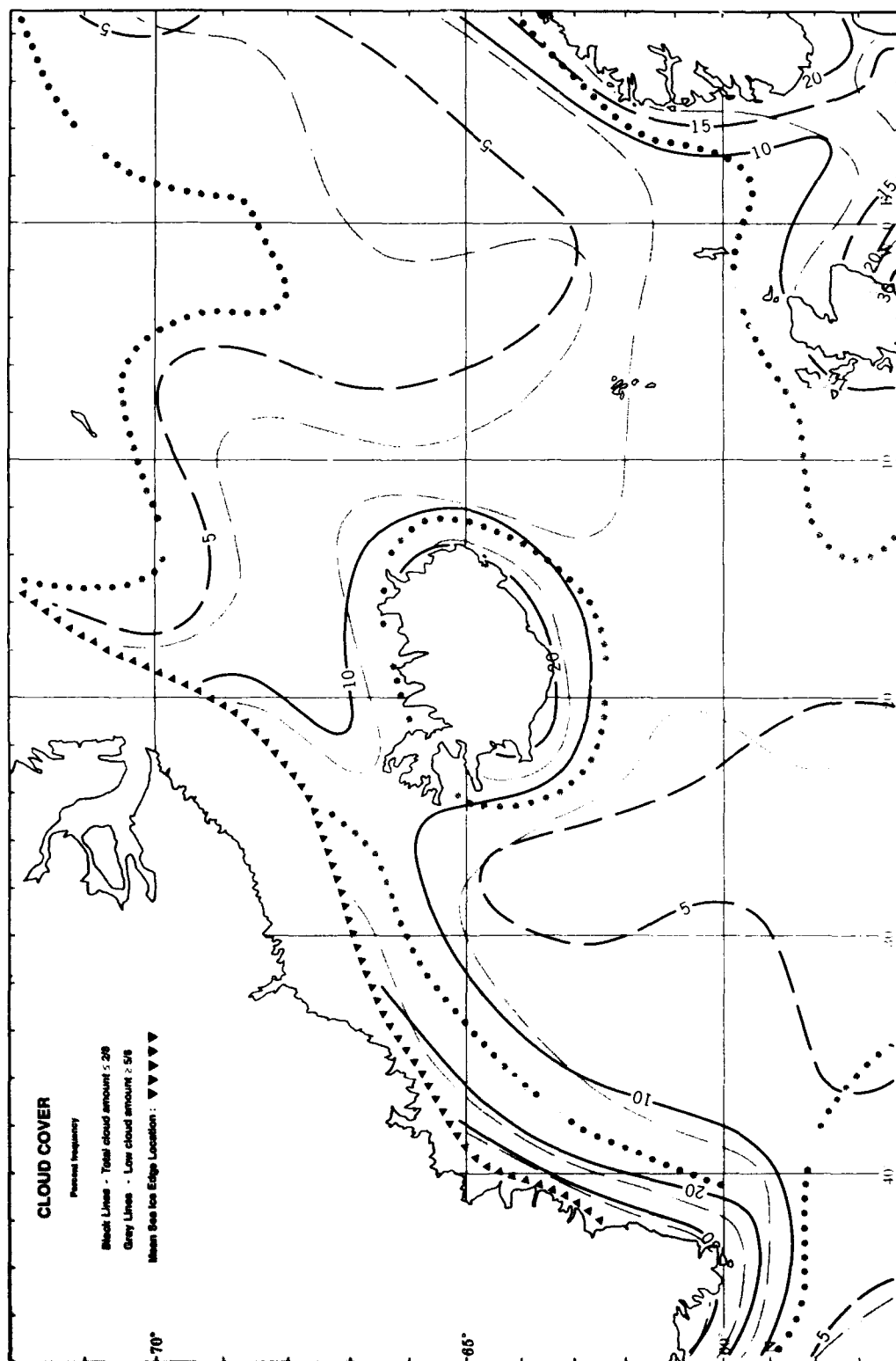
Surface Currents



October

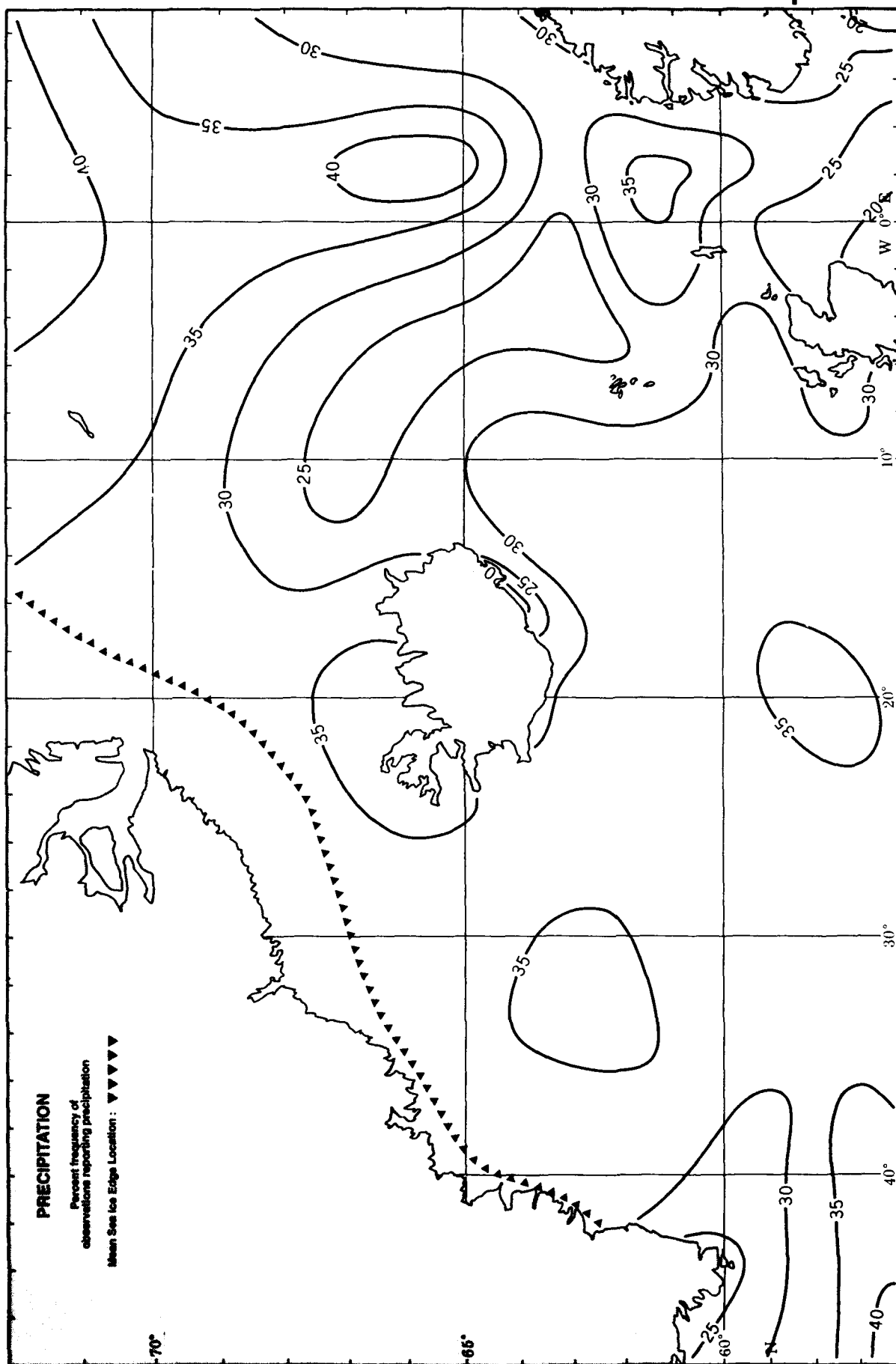
Surface Currents

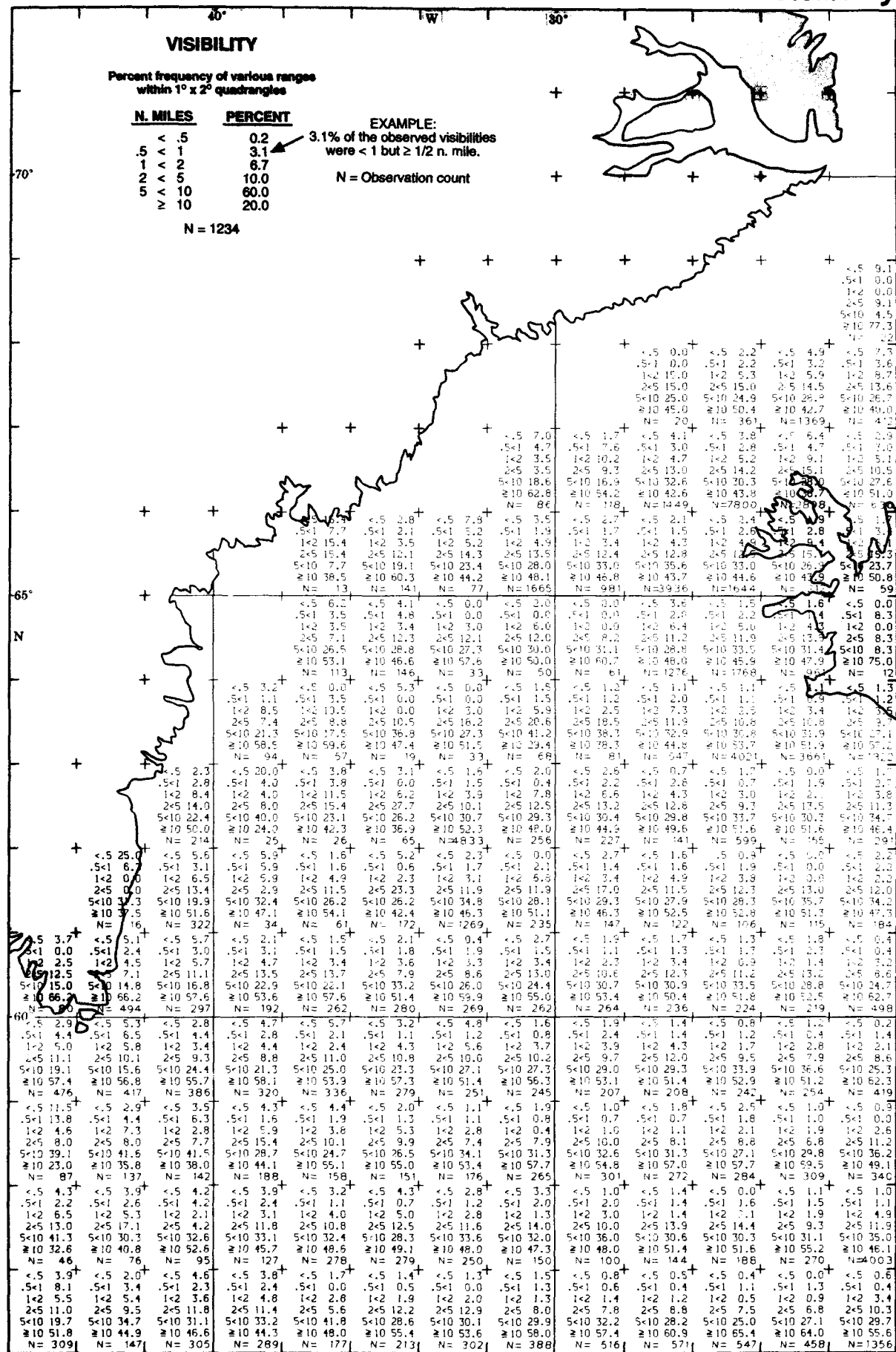




November

Precipitation



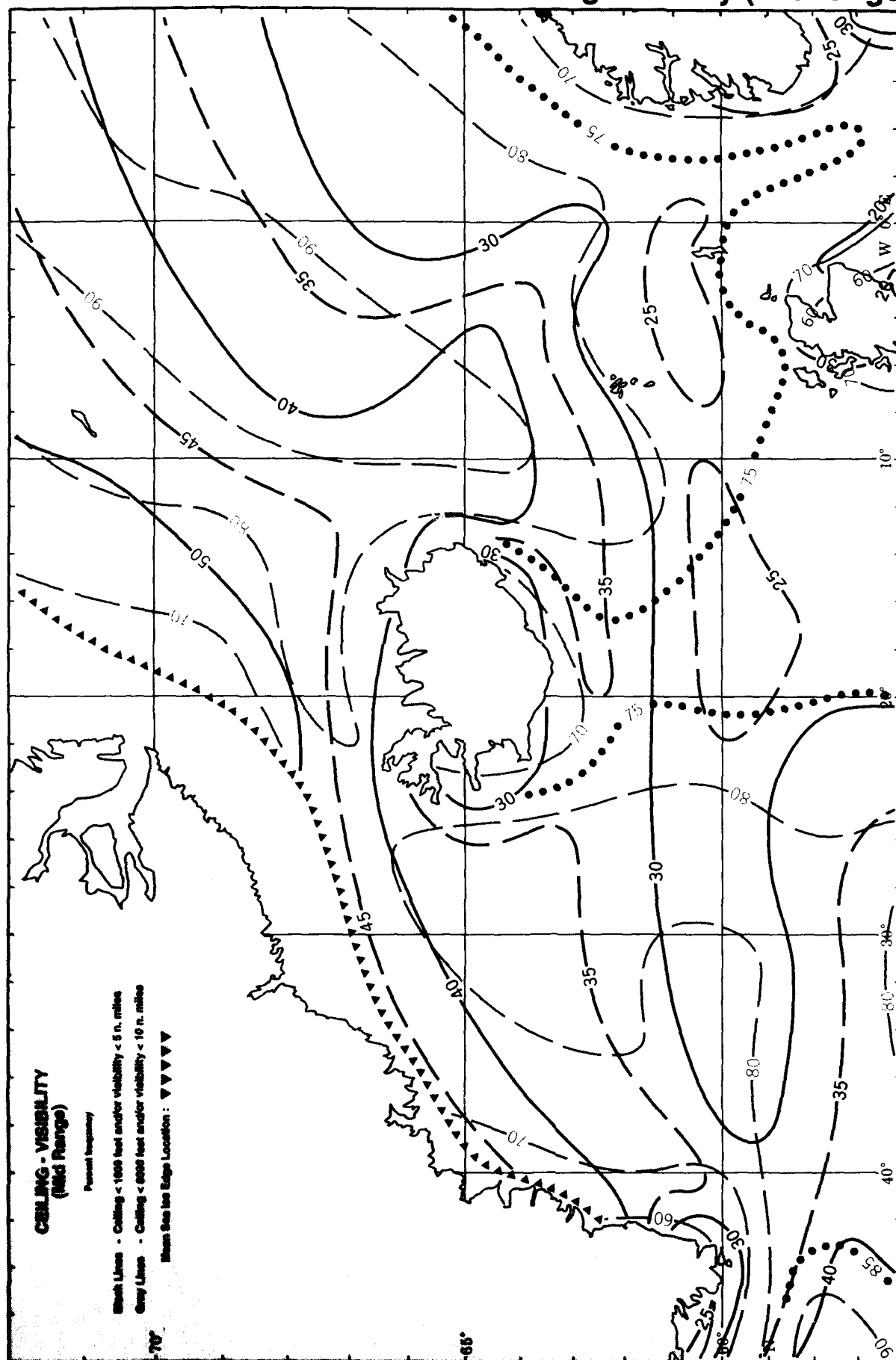


Visibility

Visibility

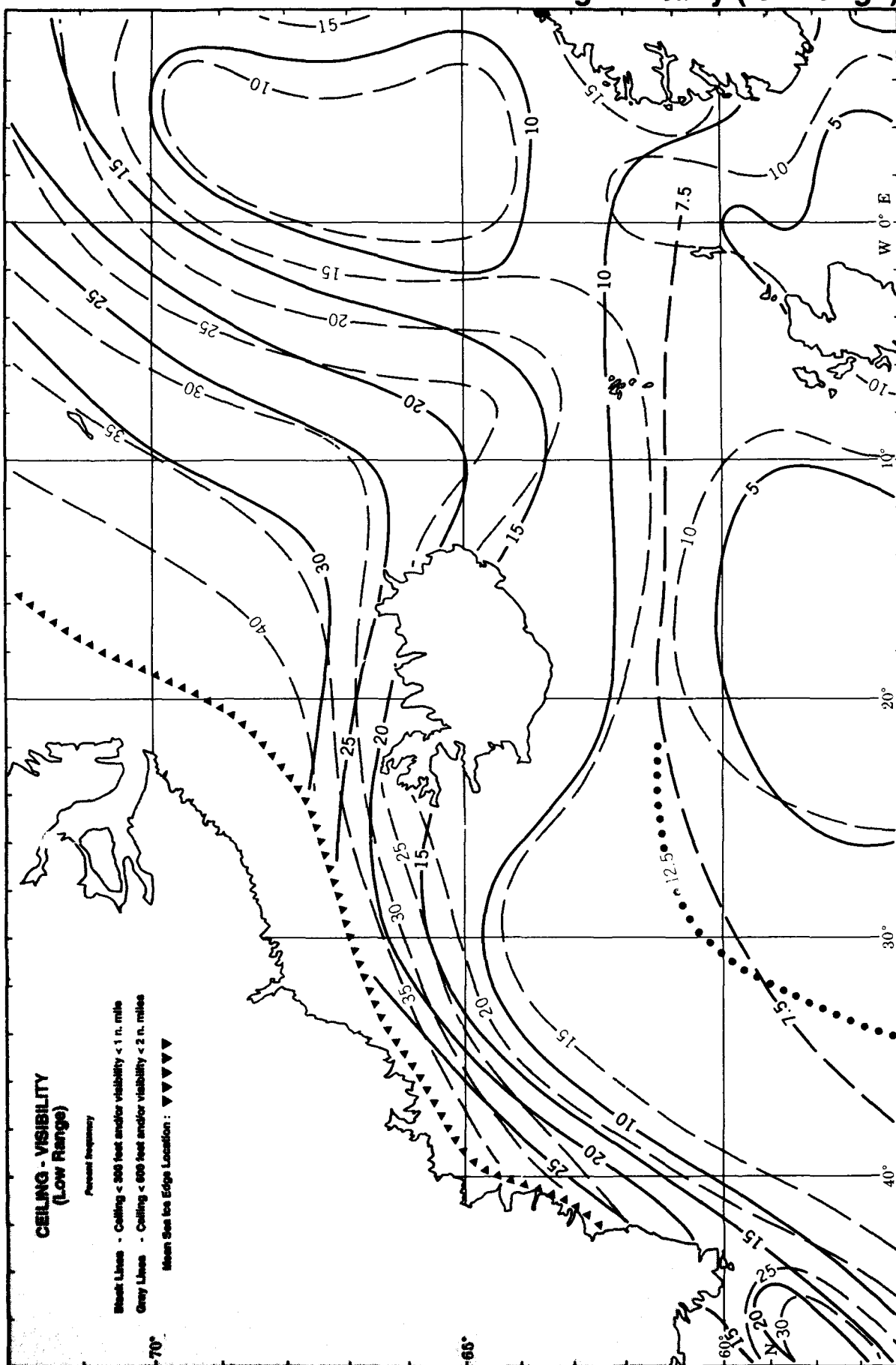
November

Ceiling-Visibility (mid range)



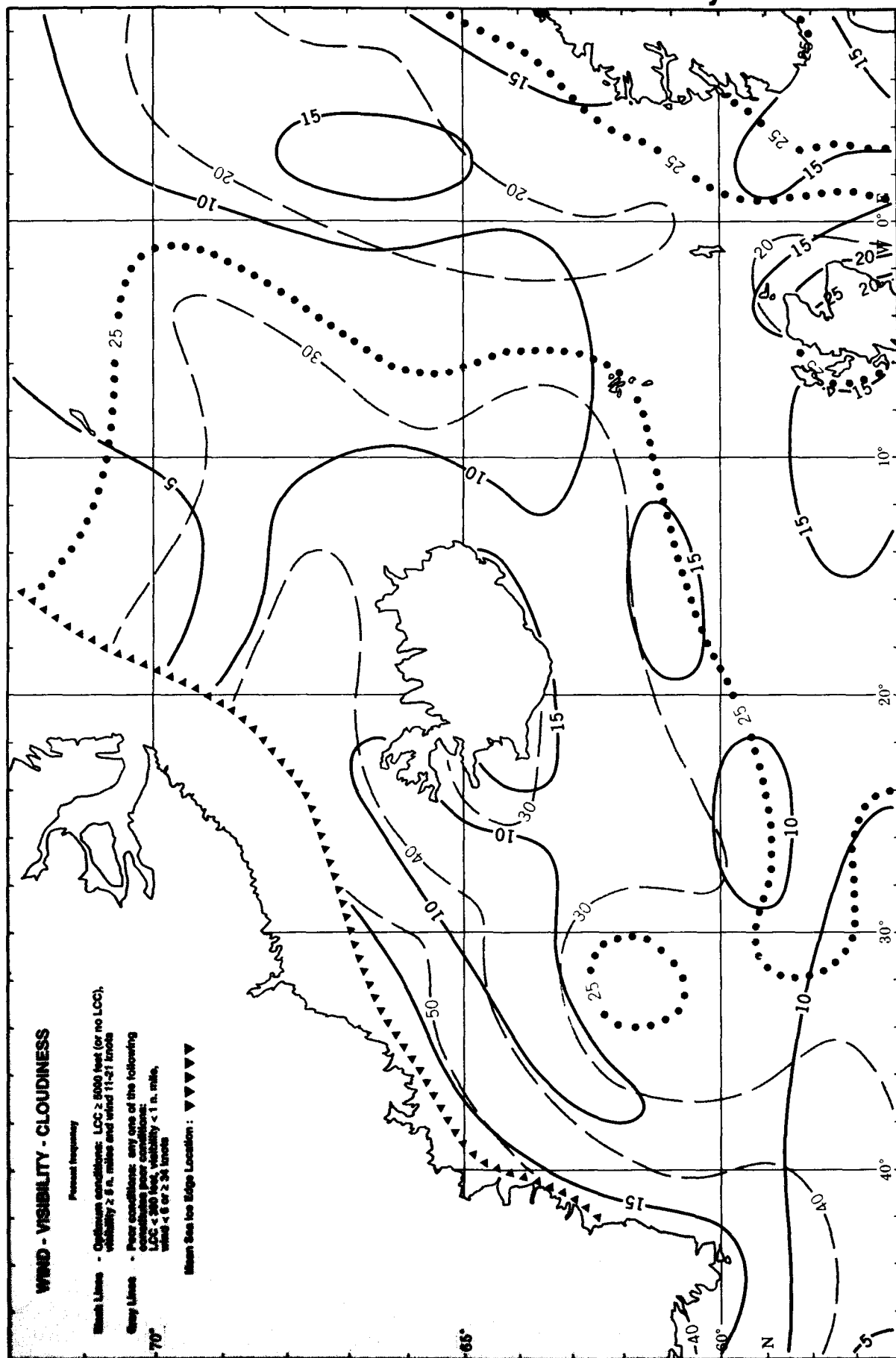
November

Ceiling-Visibility (low range)



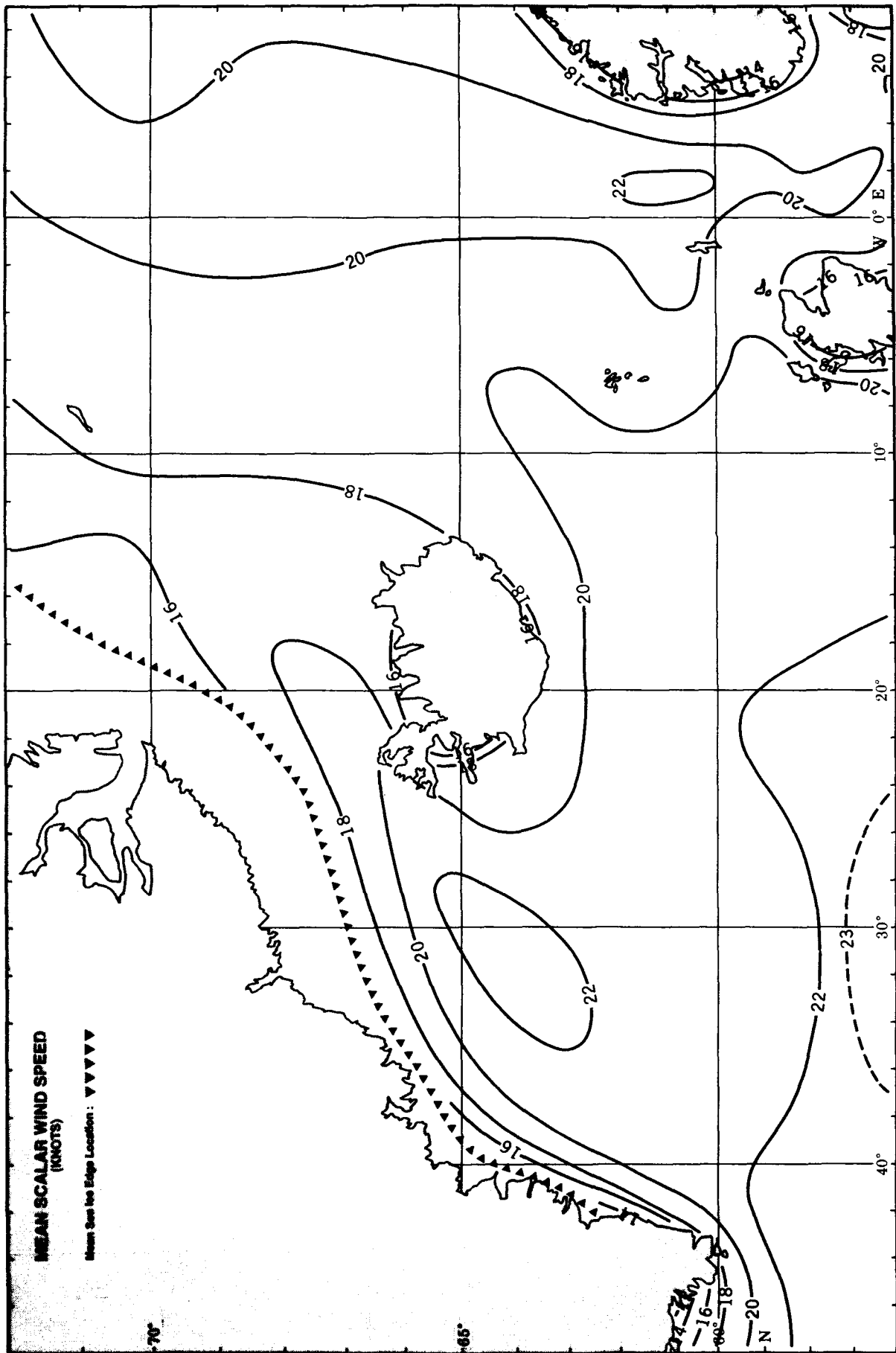
November

Wind-Visibility-Cloudiness

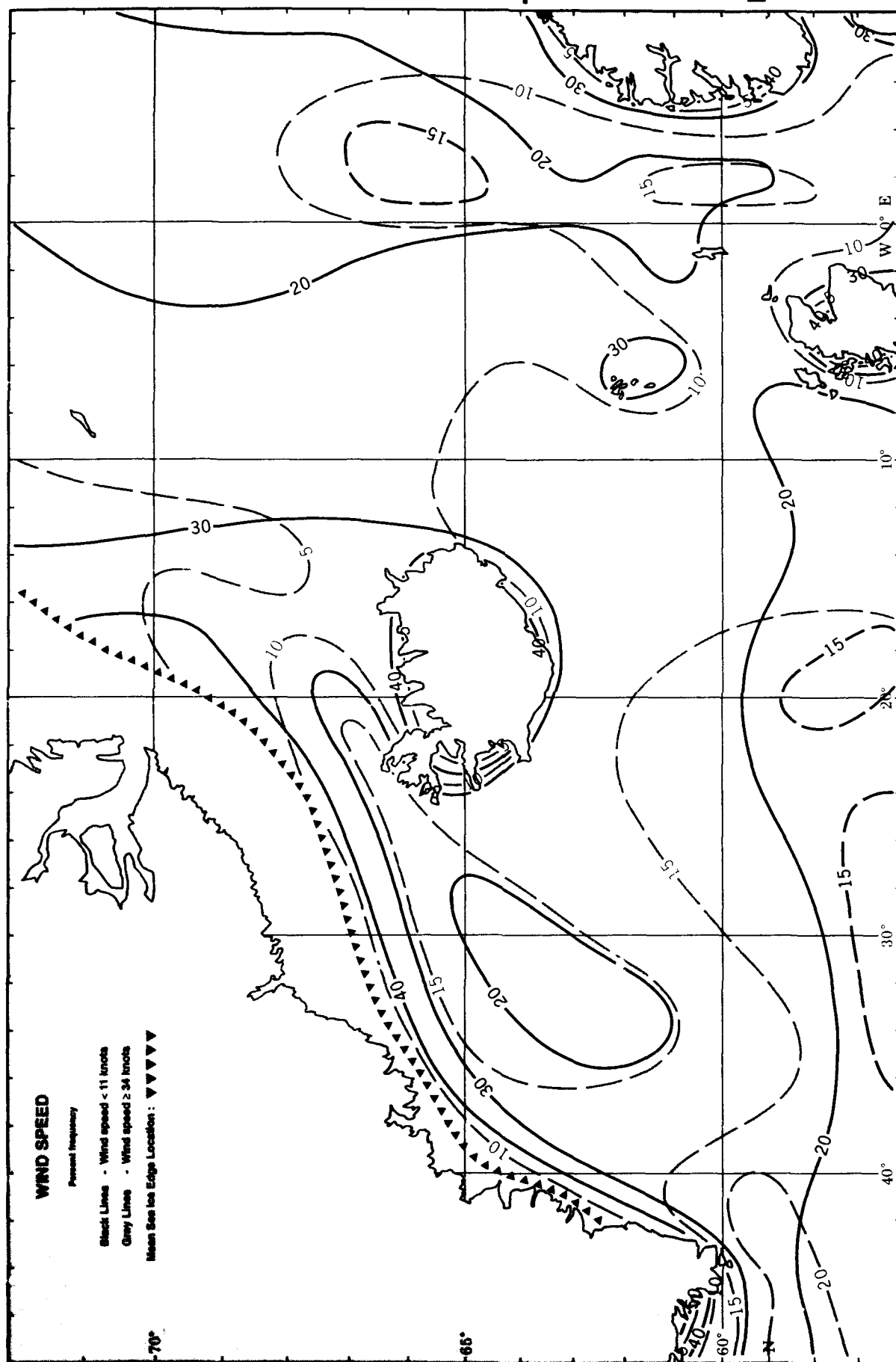


November

Mean Scalar Wind Speed

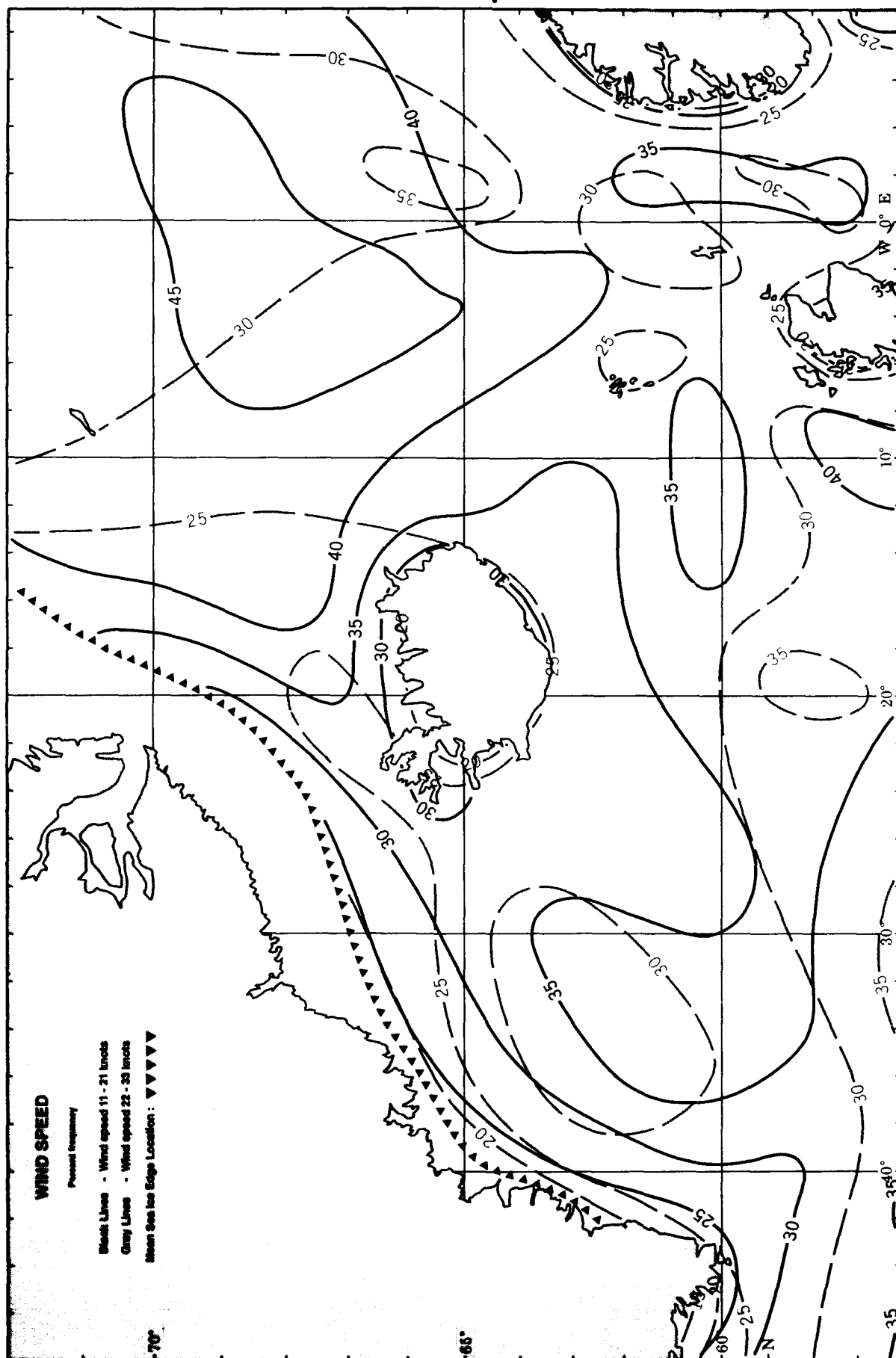


Wind Speed < 11 and ≥ 34 Knots



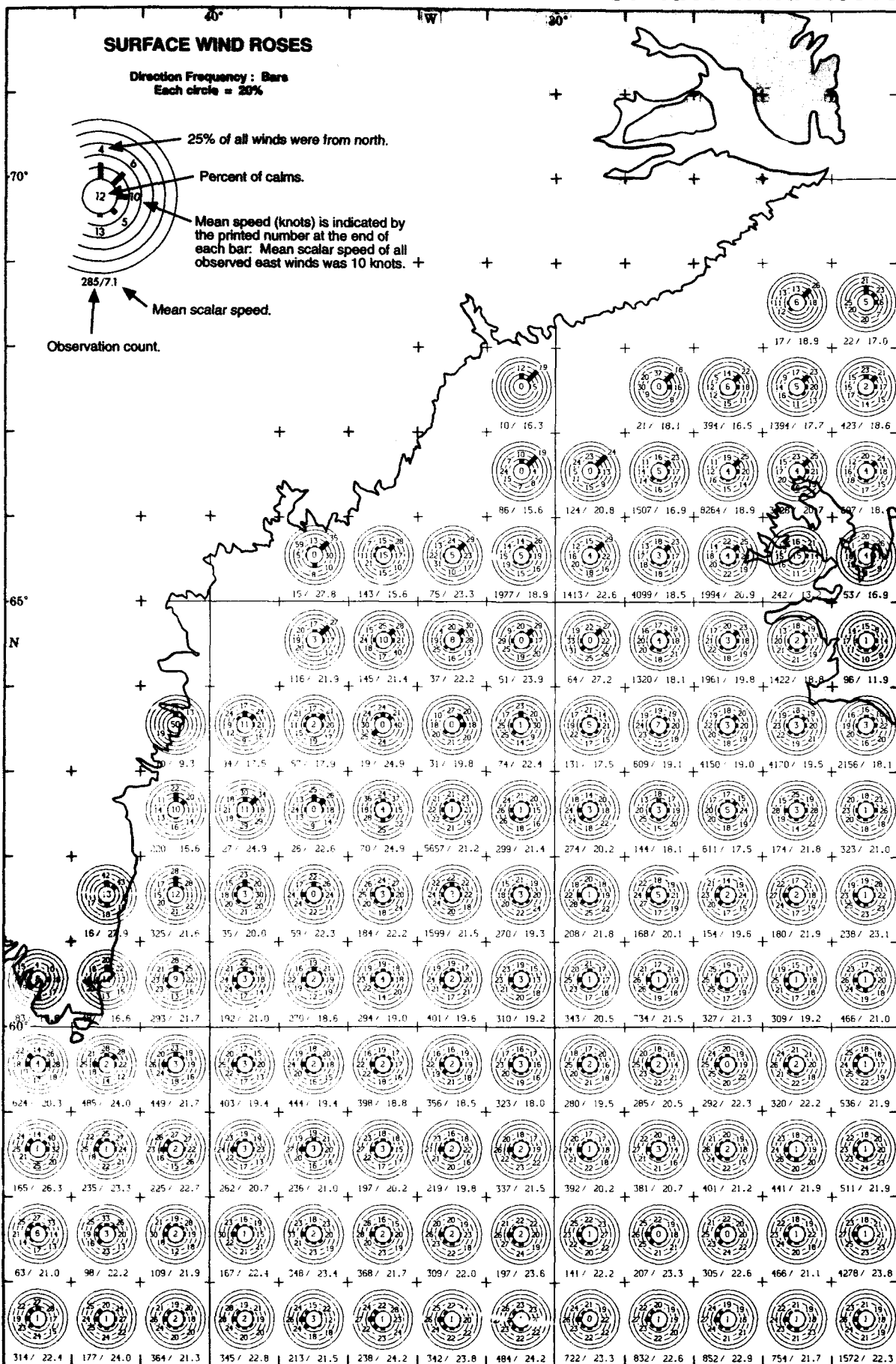
November

Wind Speed 11-21 and 22-33 Knots



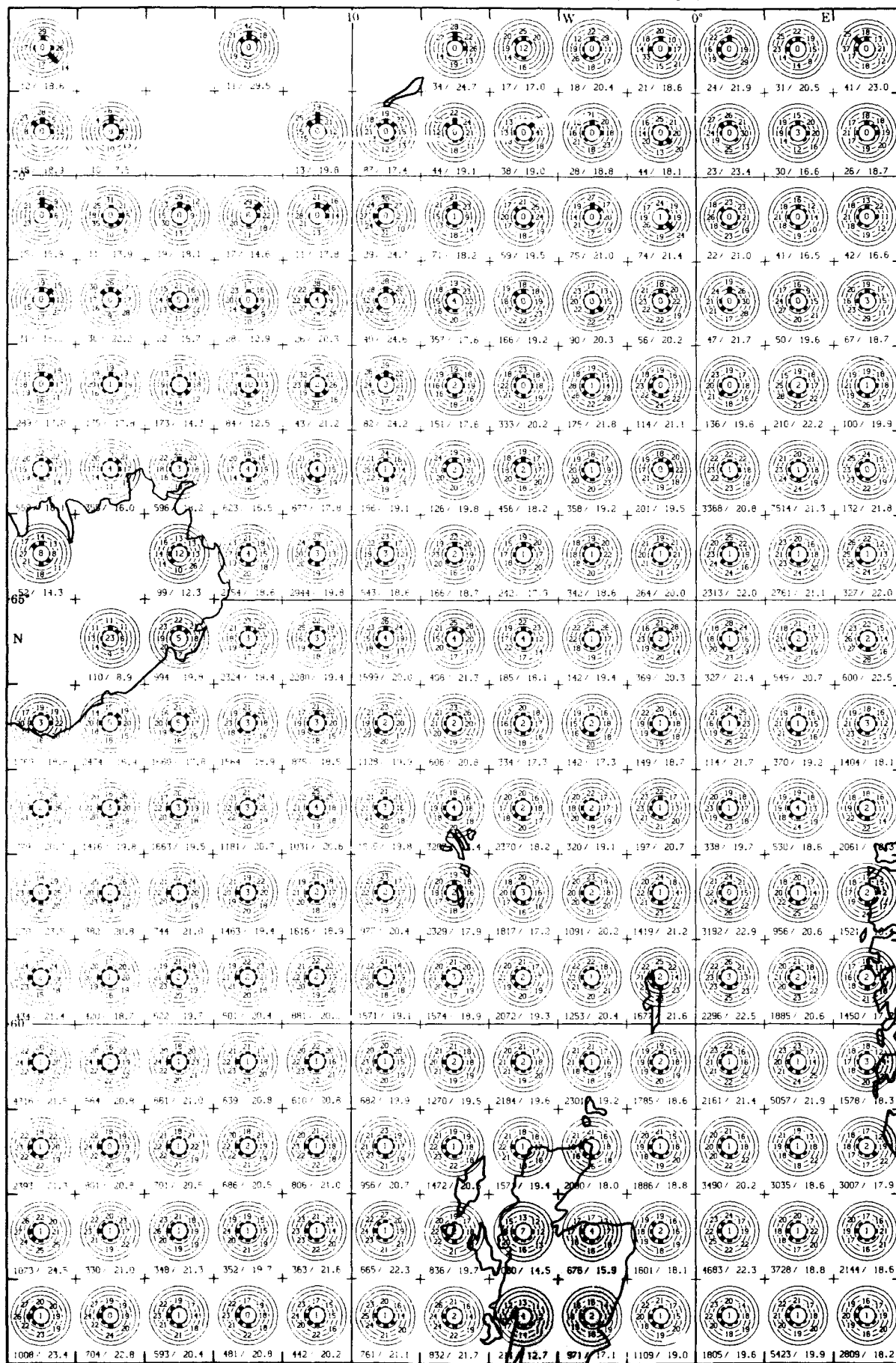
November

Surface Wind Roses



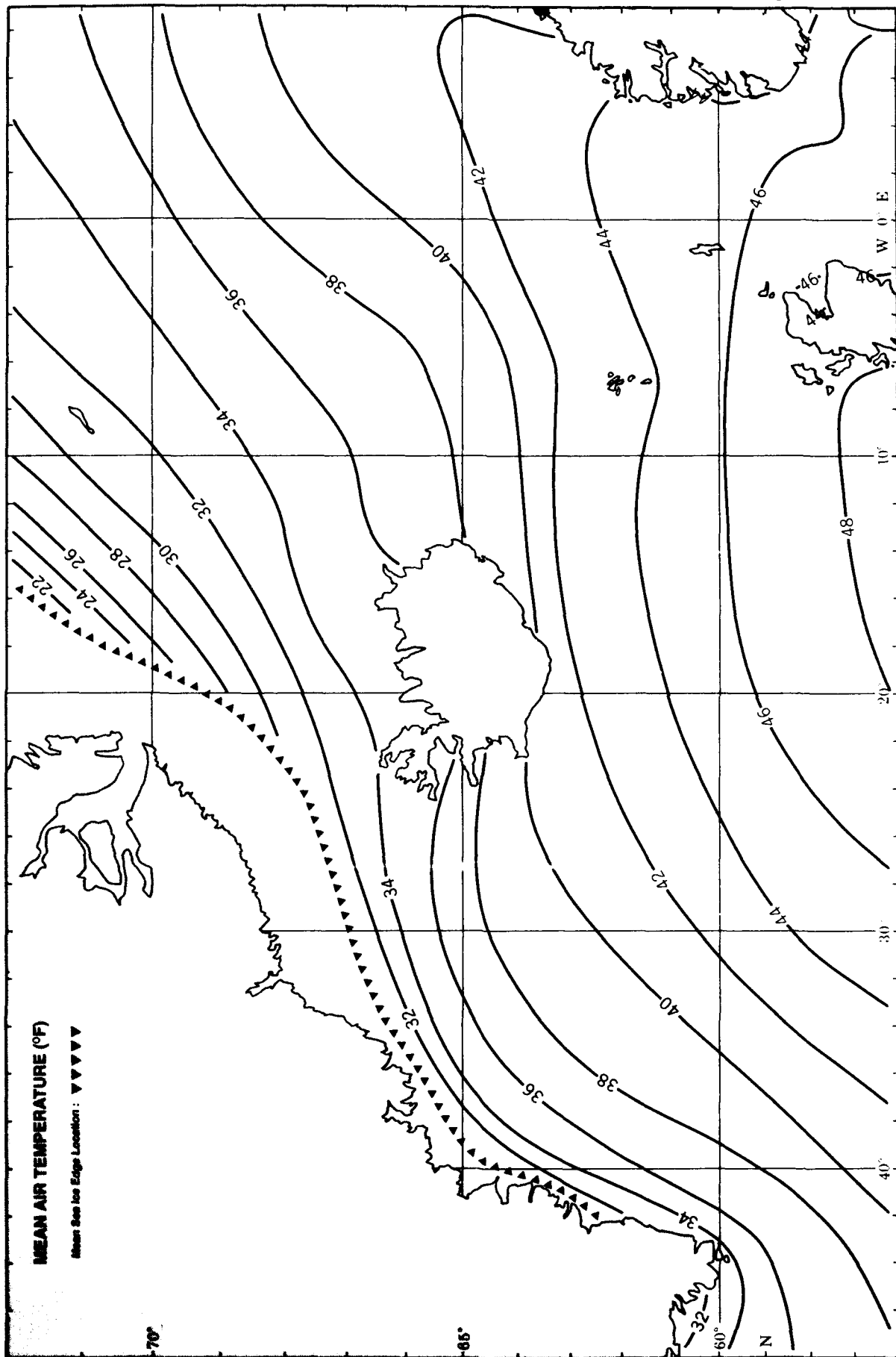
November

Surface Wind Roses



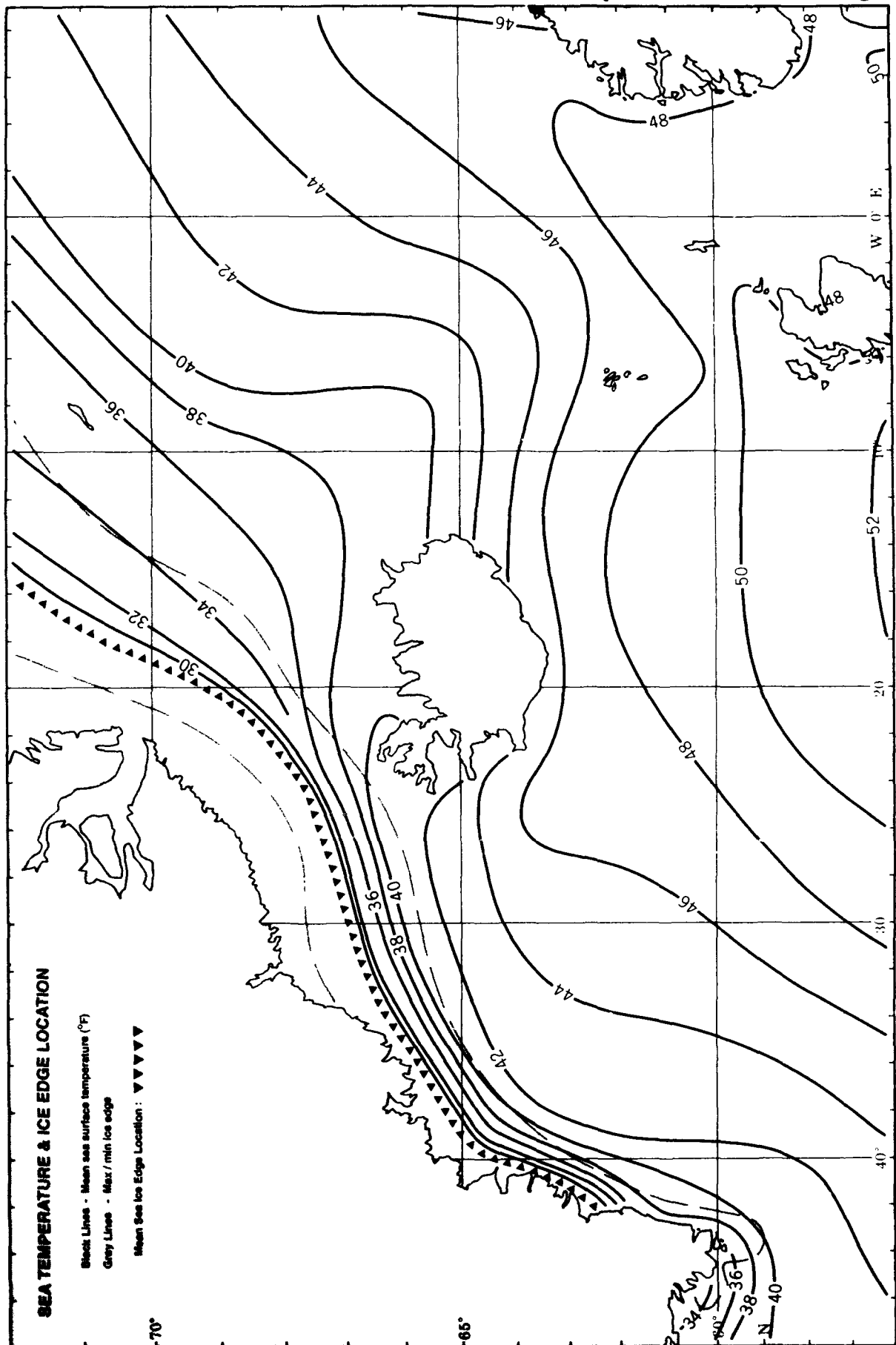
November

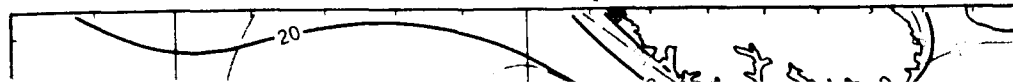
Mean Air Temperature



November

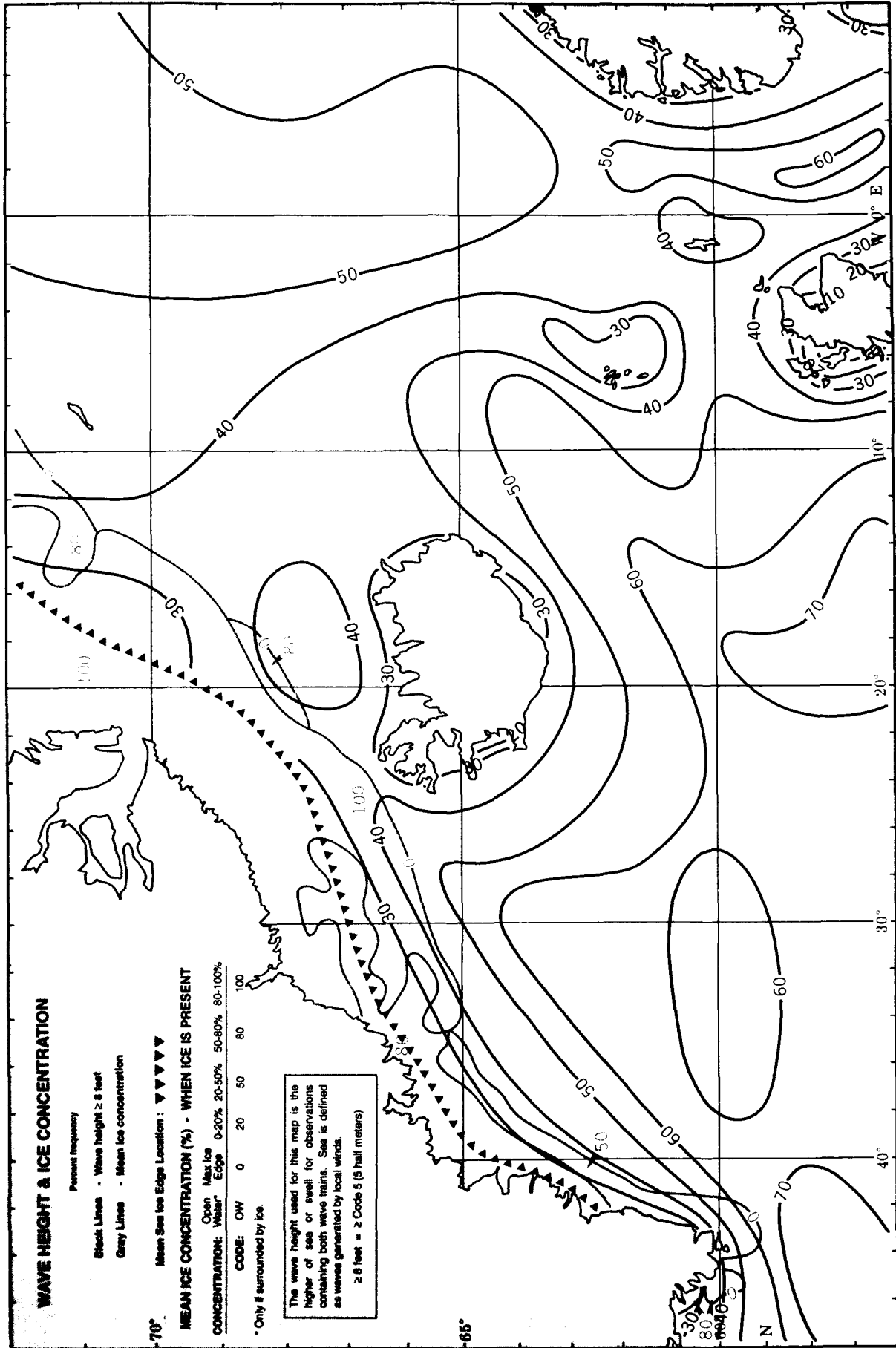
Mean Sea Temperature & Ice Edge

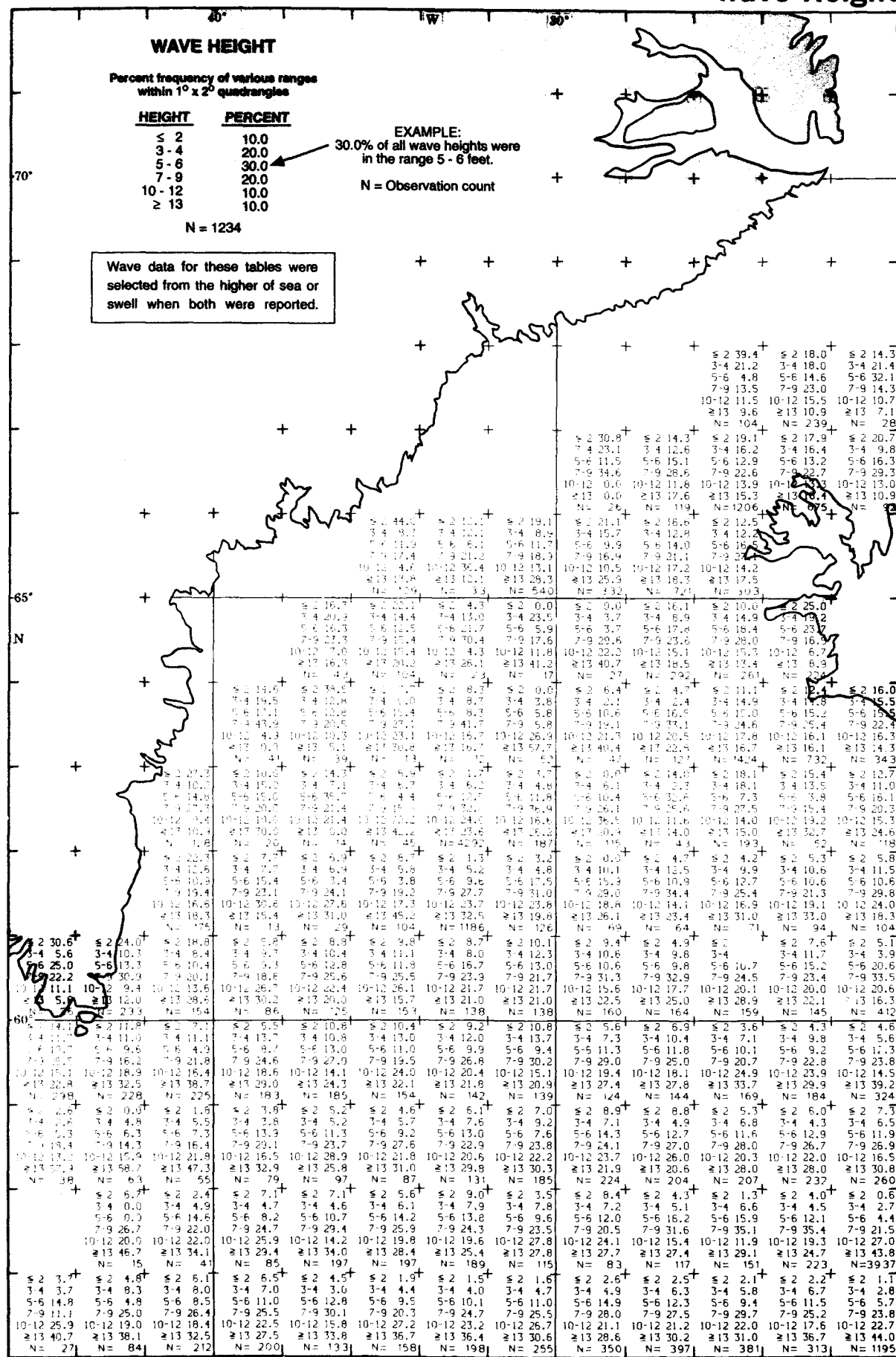




November

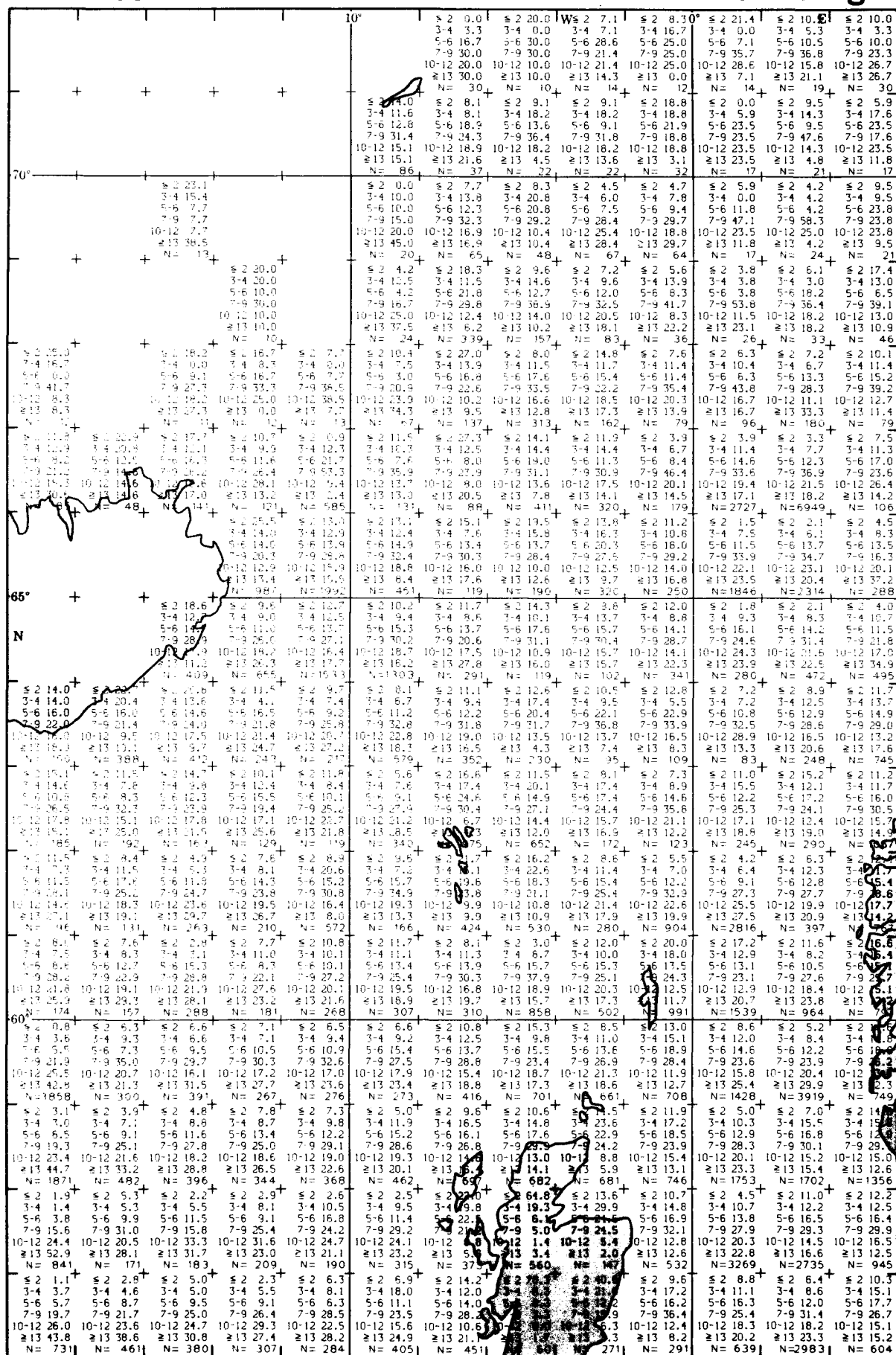
Wave Height ≥ 8 Ft. & Ice Concentration





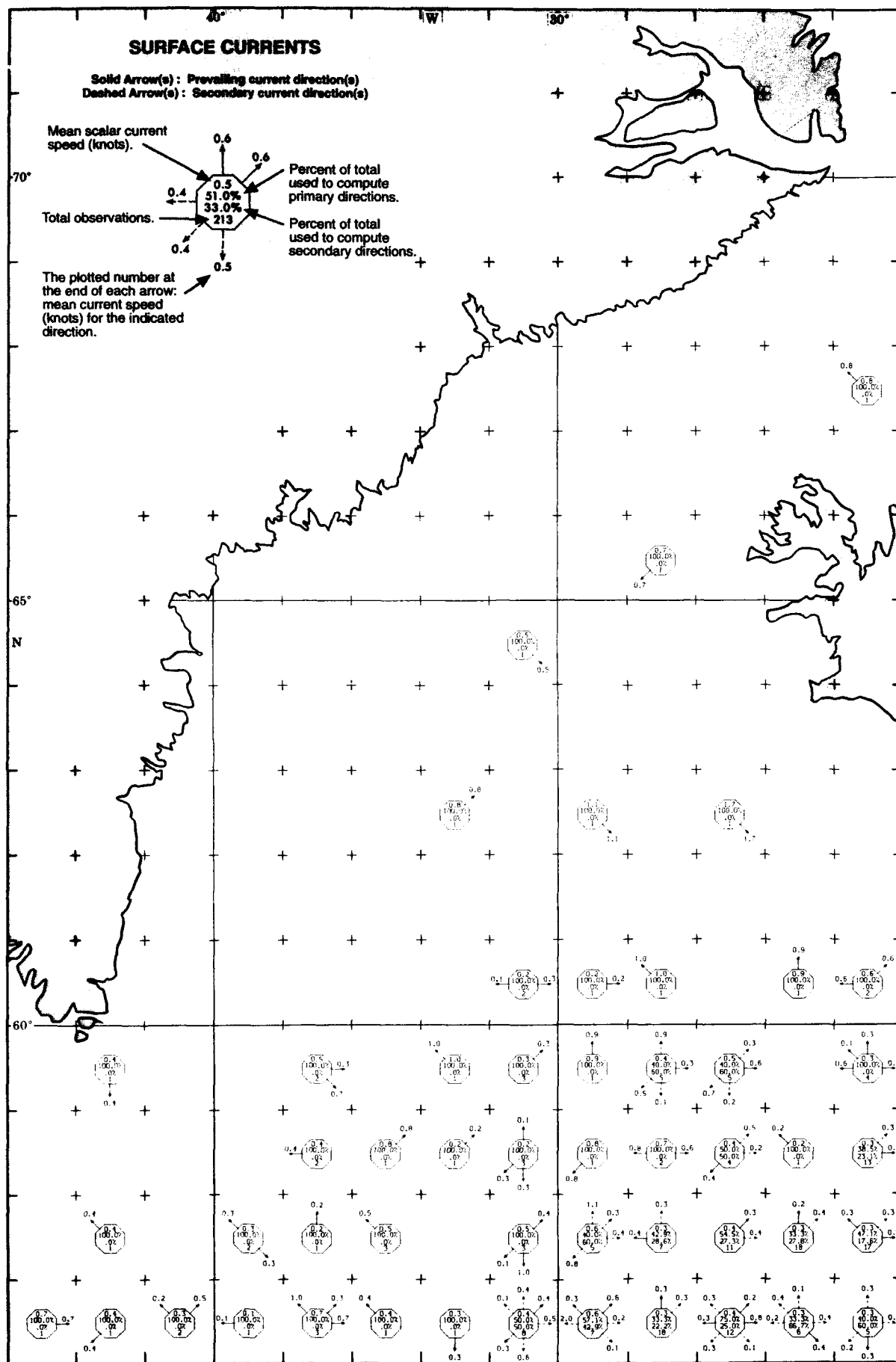
November Wave Height

November Wave Height



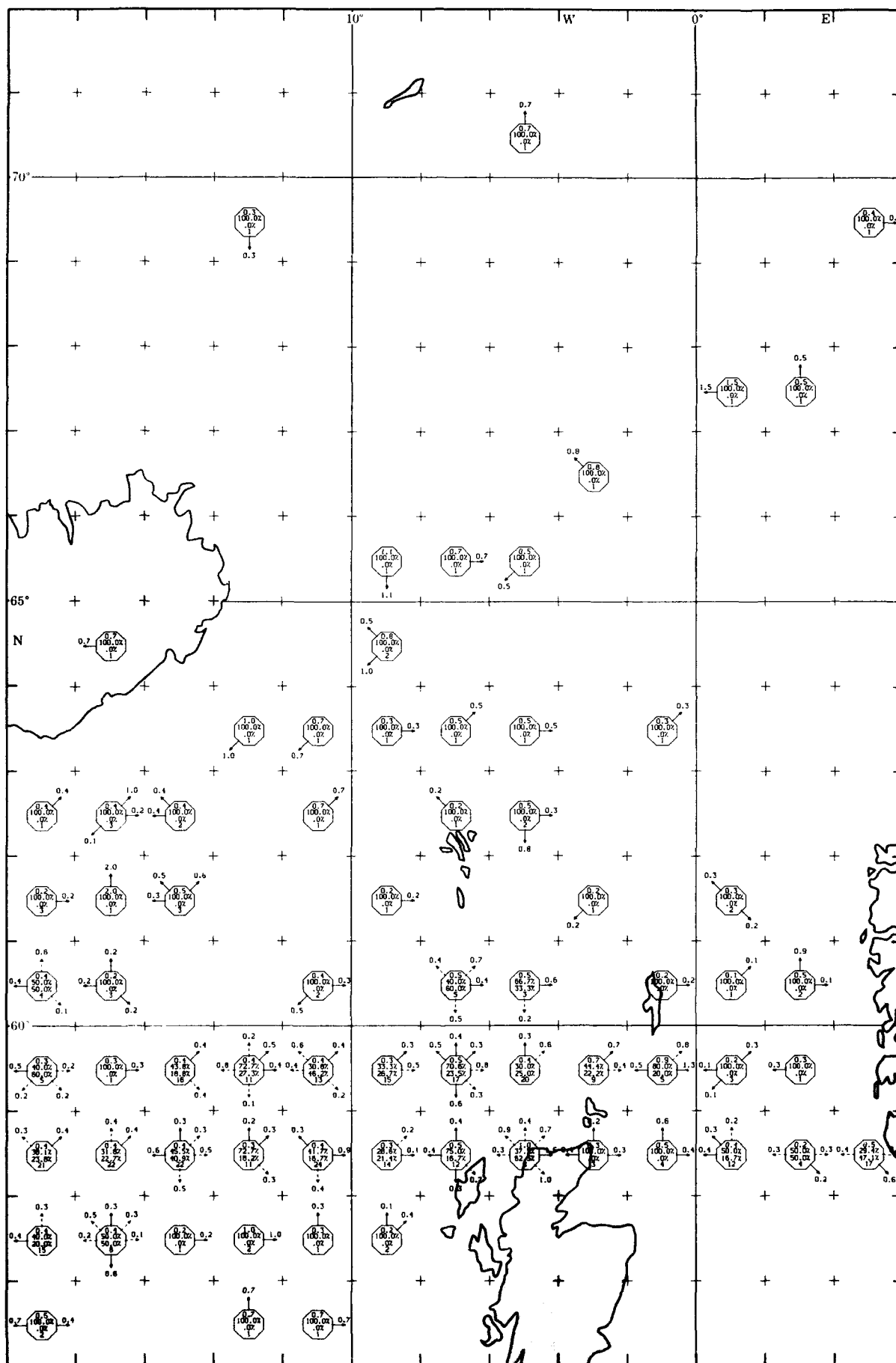
November

Surface Currents



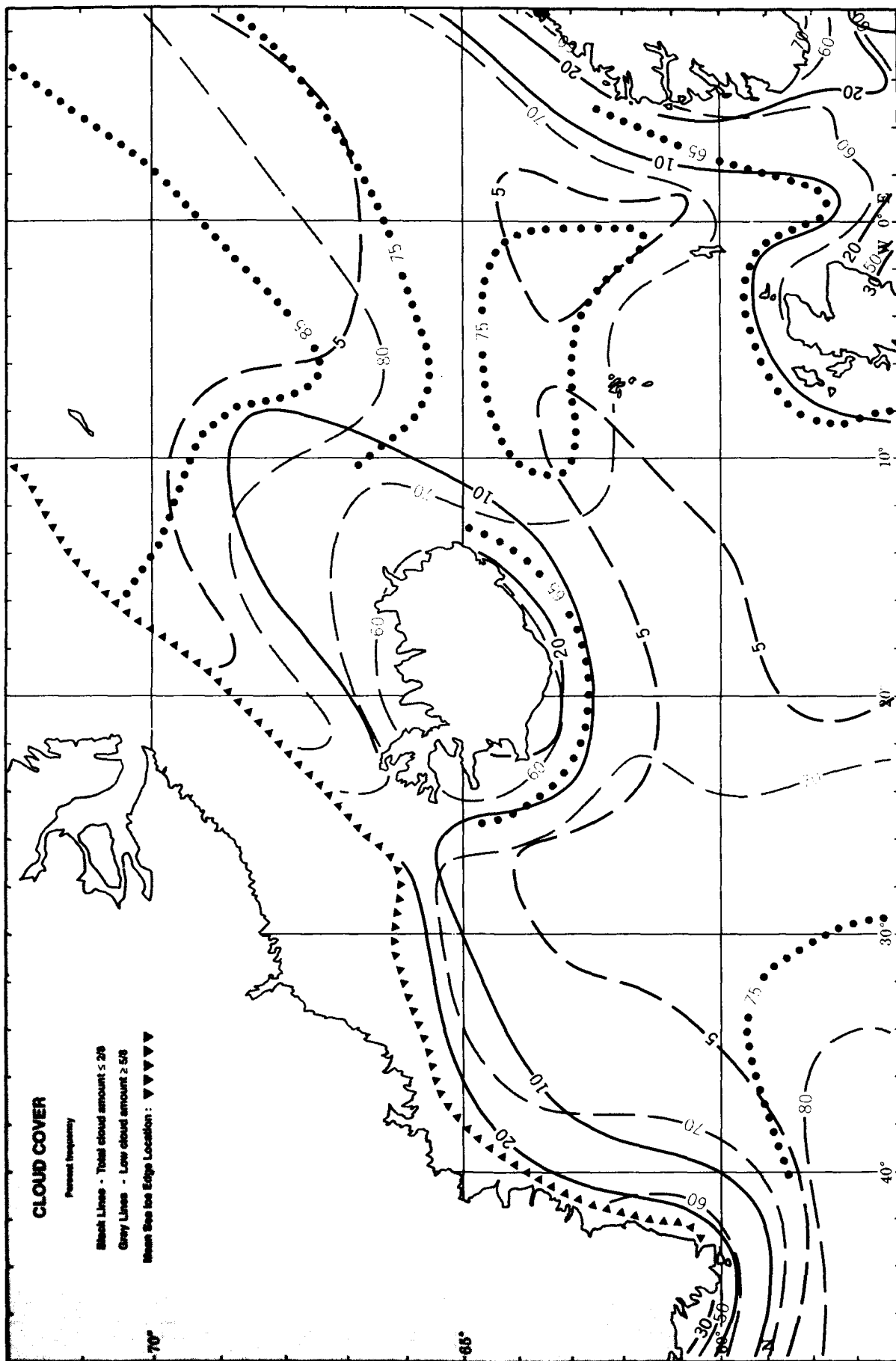
November

Surface Currents



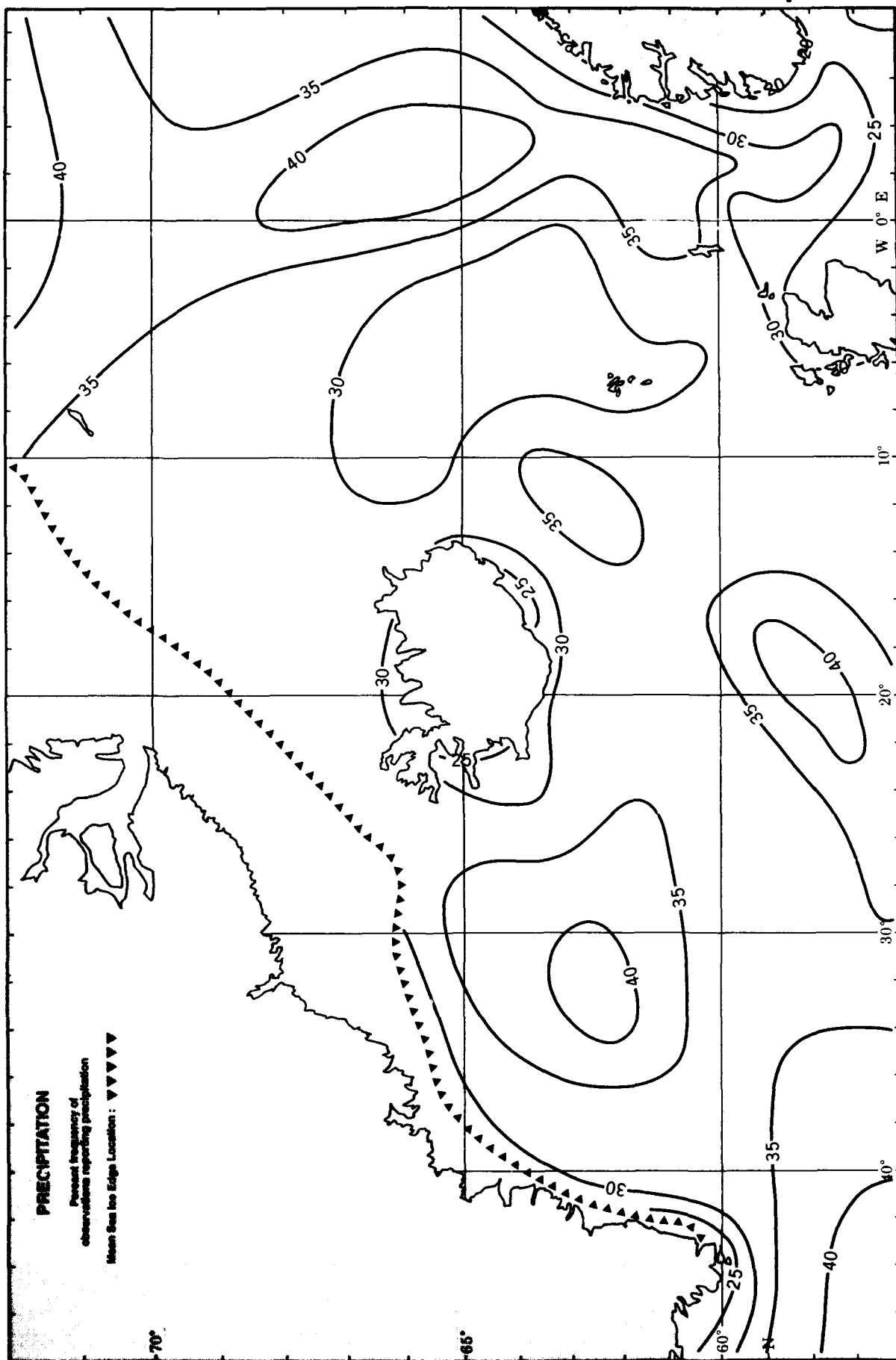
December

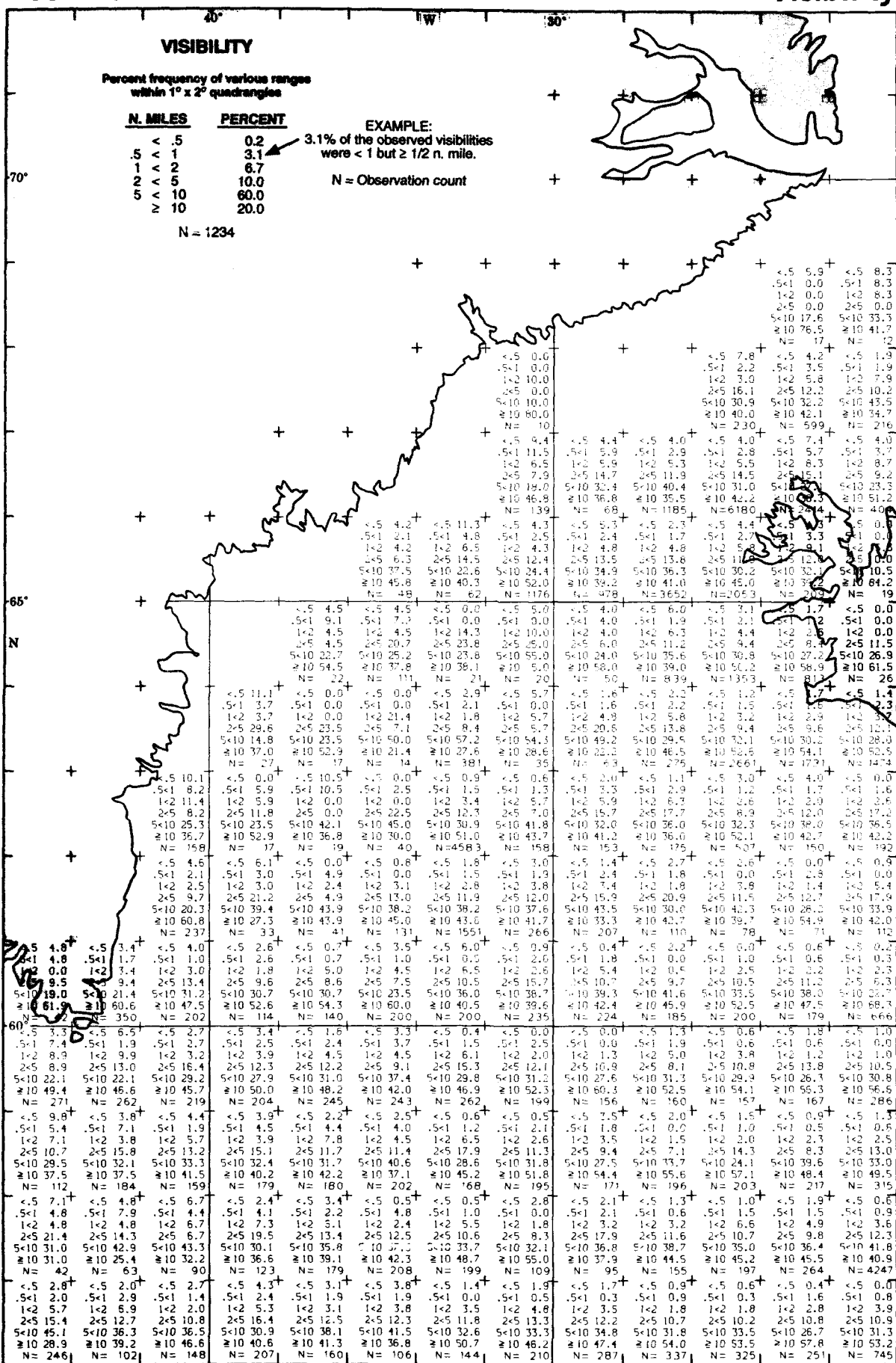
Clouds



December

Precipitation

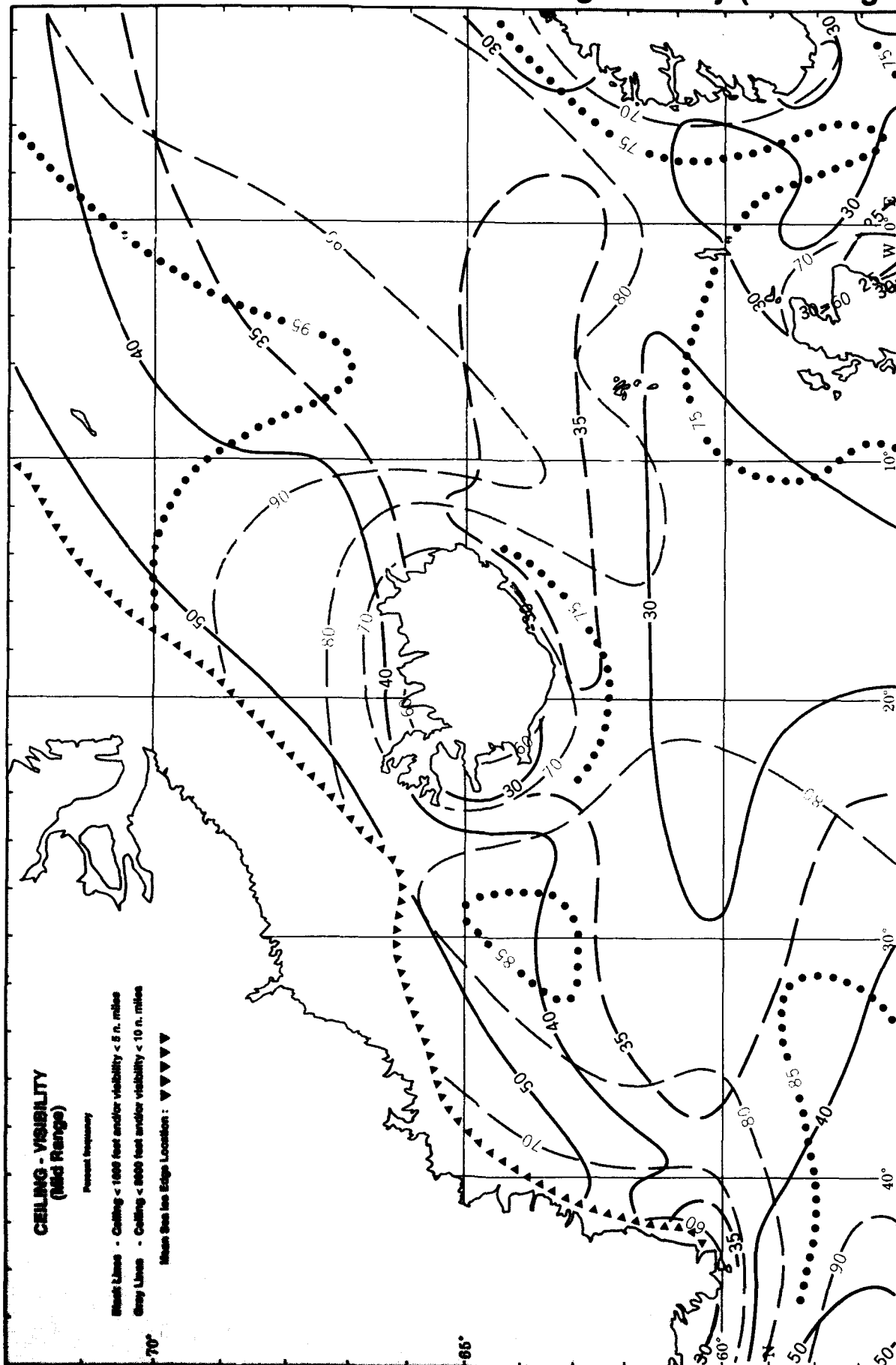




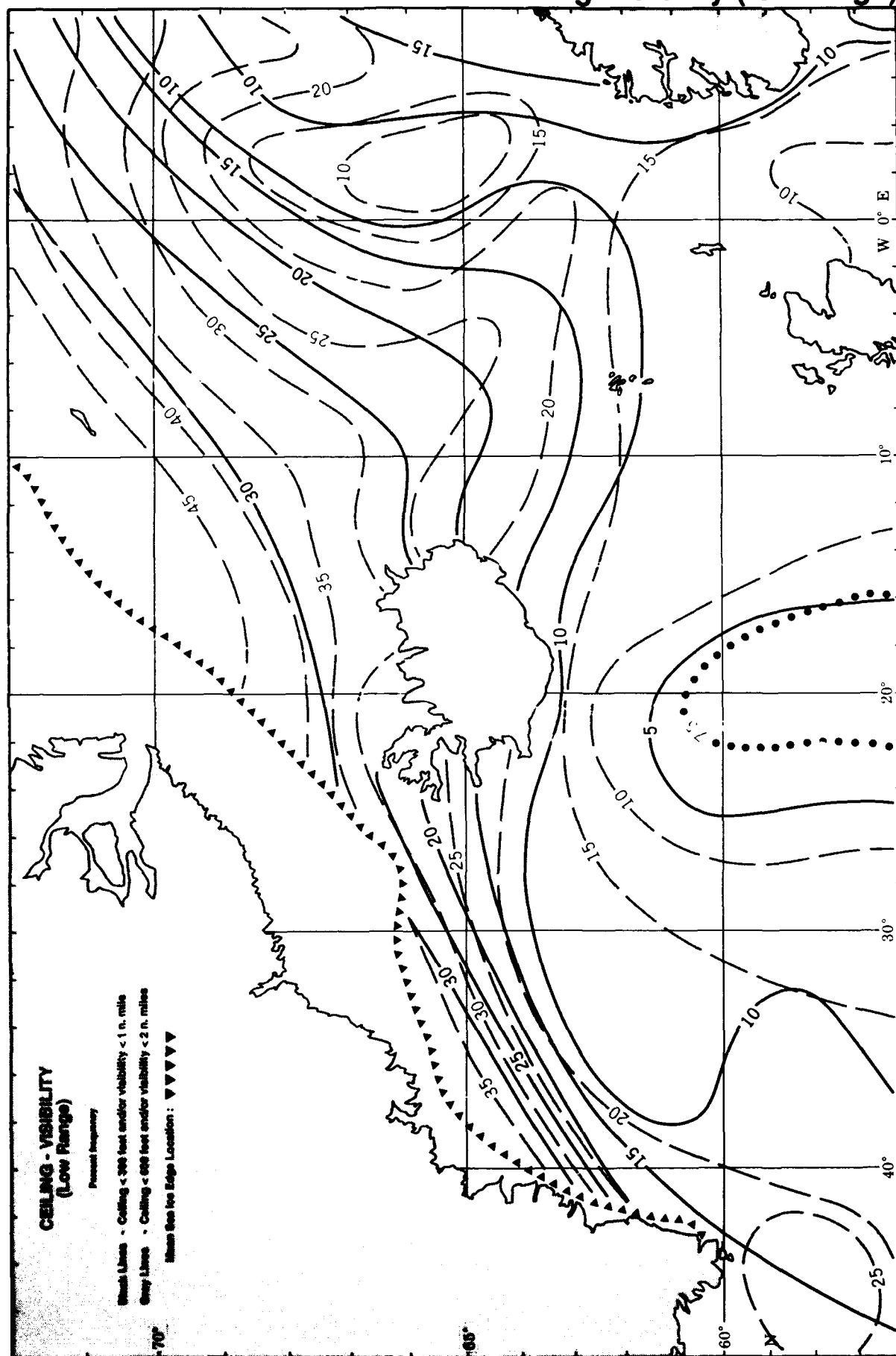
Visibility

December

Ceiling-Visibility (mid range)

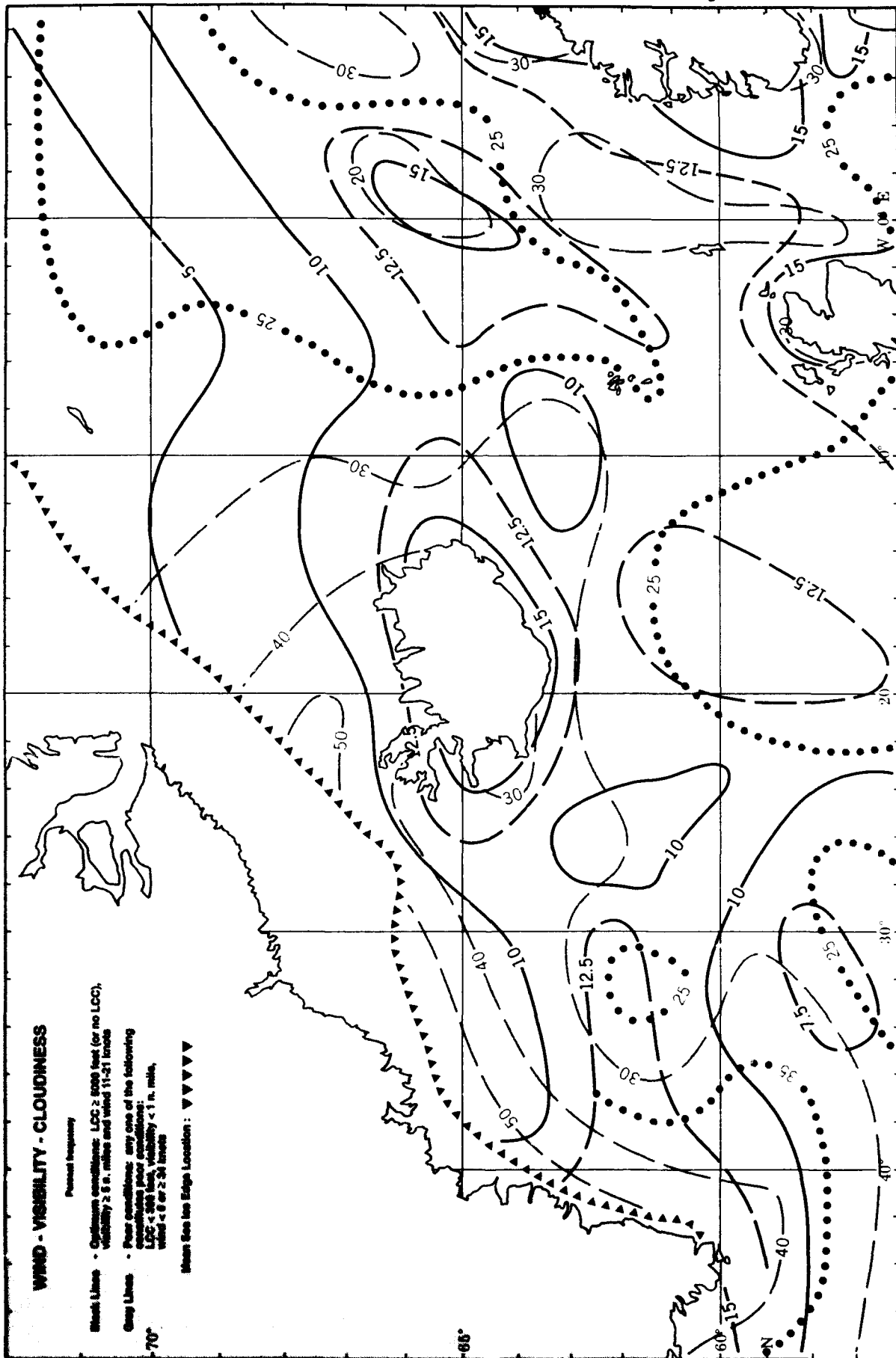


Ceiling-Visibility (low range)



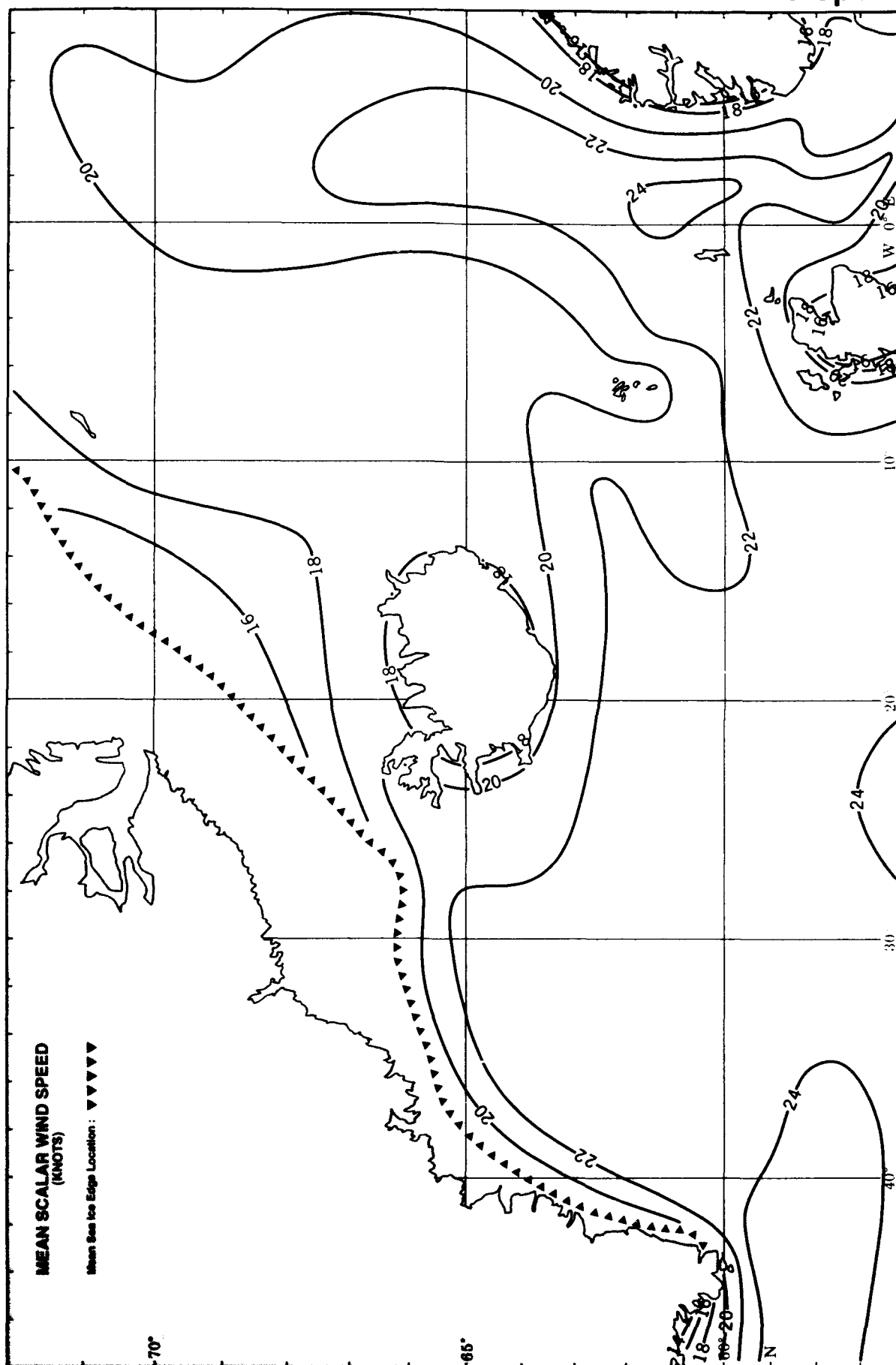
December

Wind-Visibility-Cloudiness

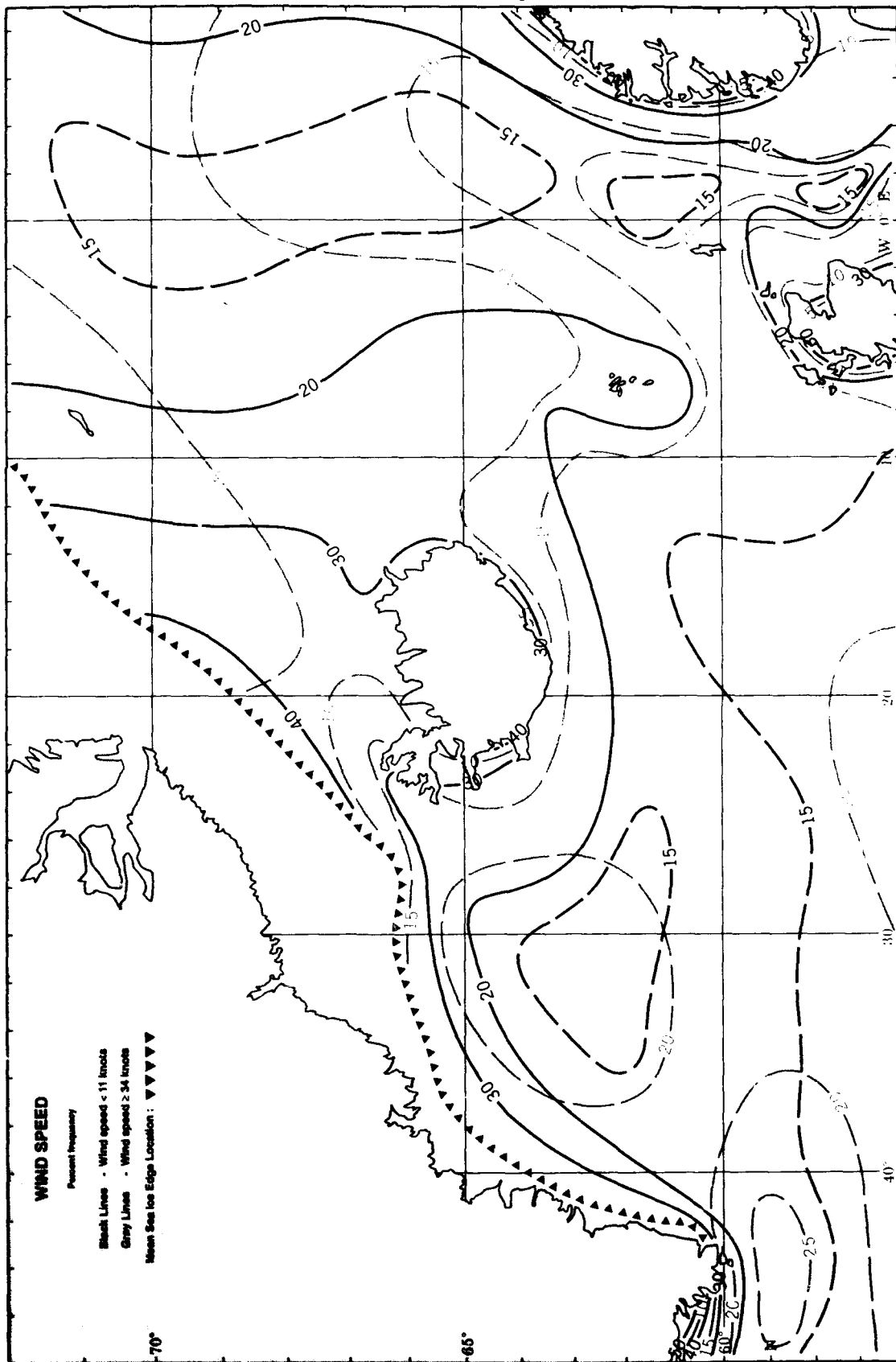


December

Mean Scalar Wind Speed

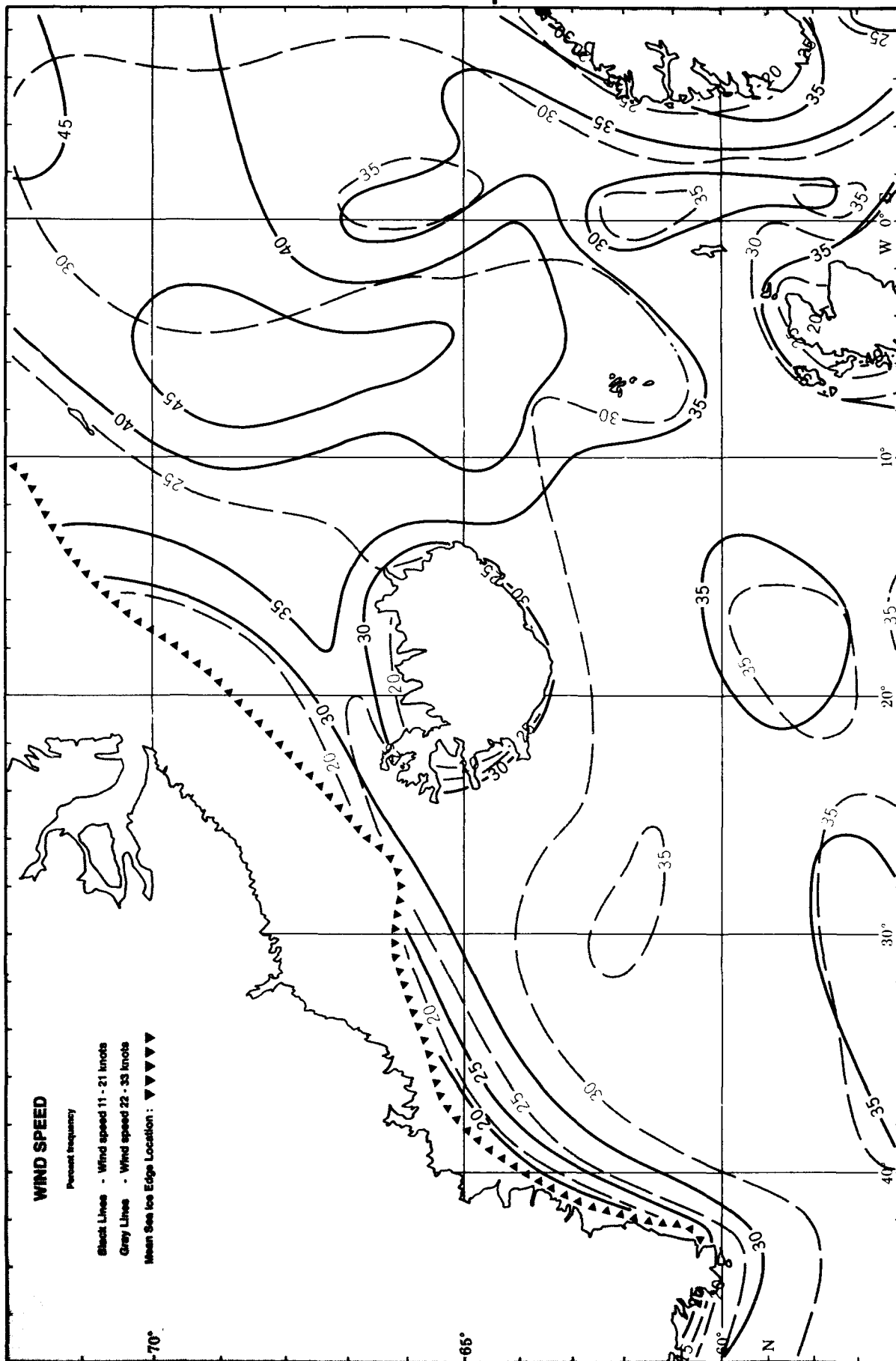


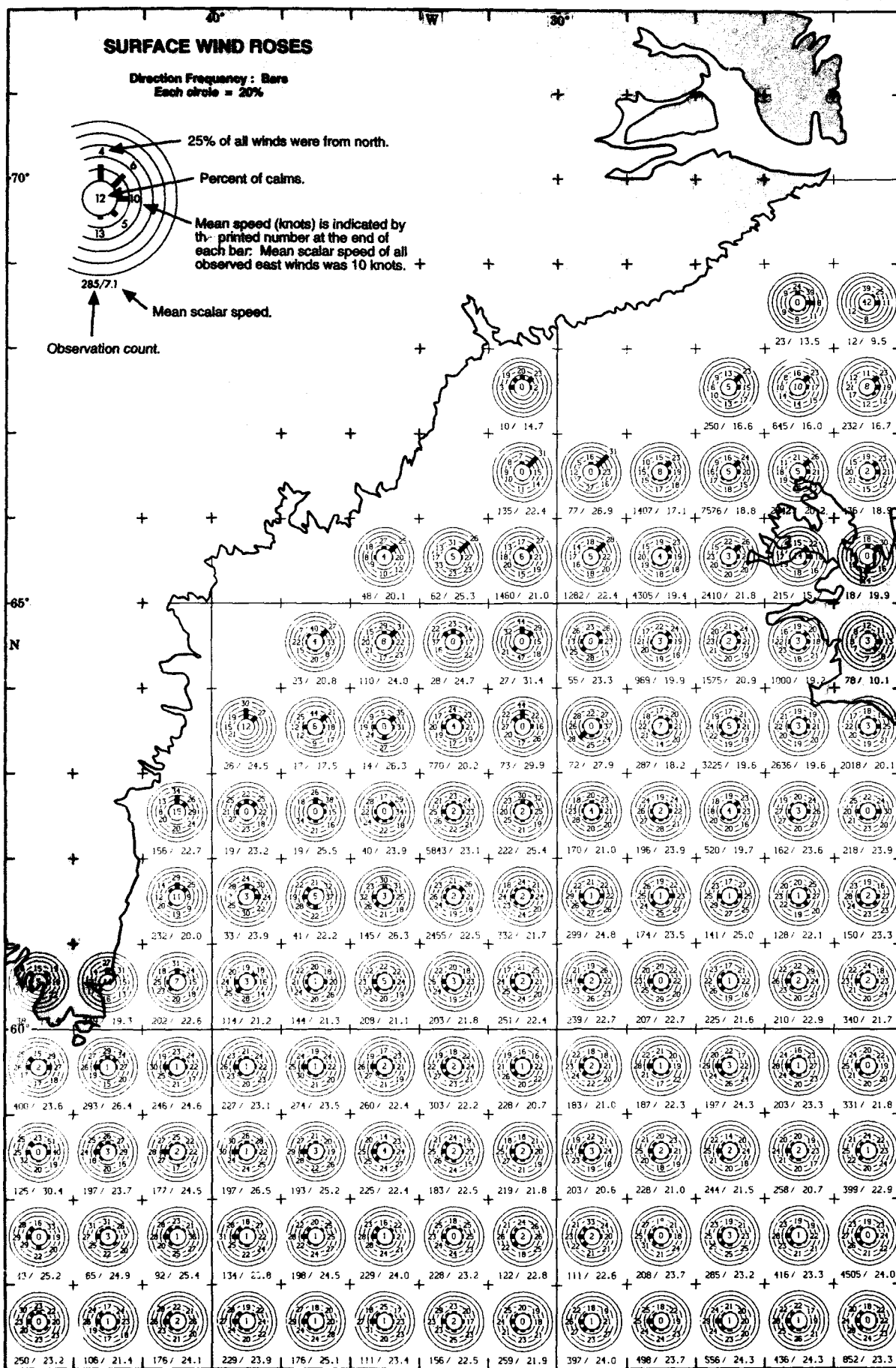
December

Wind Speed < 11 and ≥ 34 Knots

December

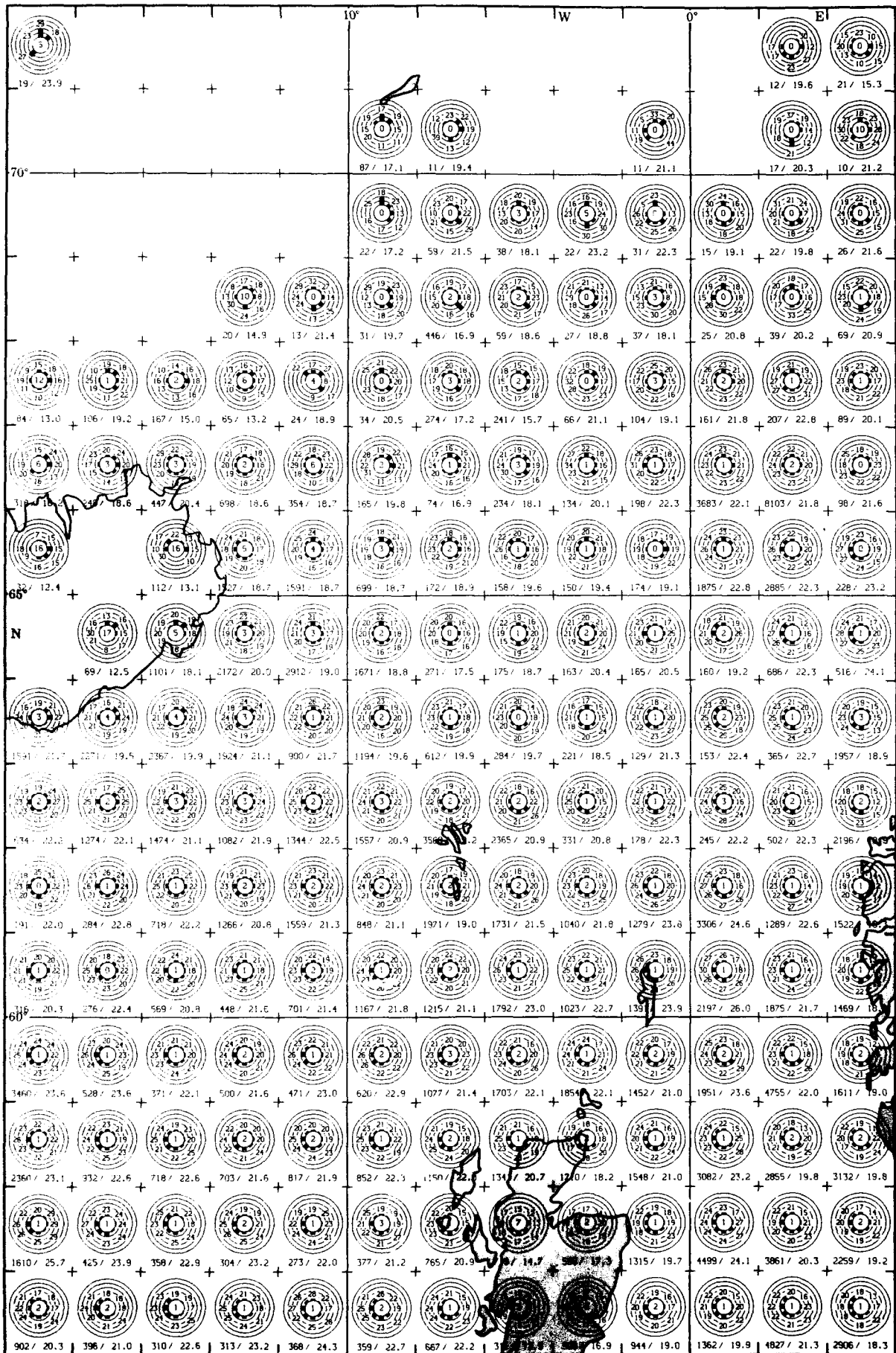
Wind Speed 11-21 and 22-33 Knots





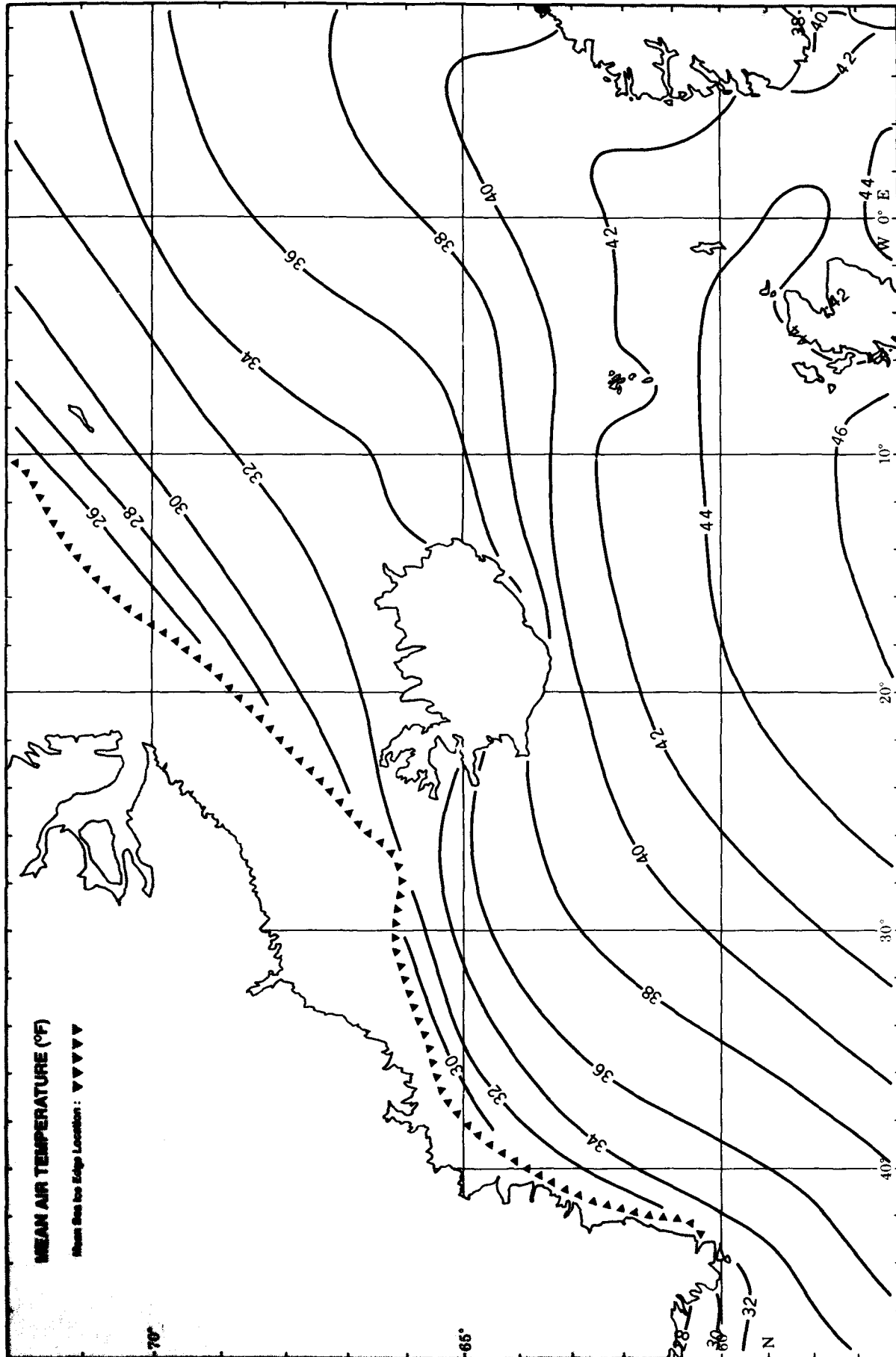
December

Surface Wind Roses



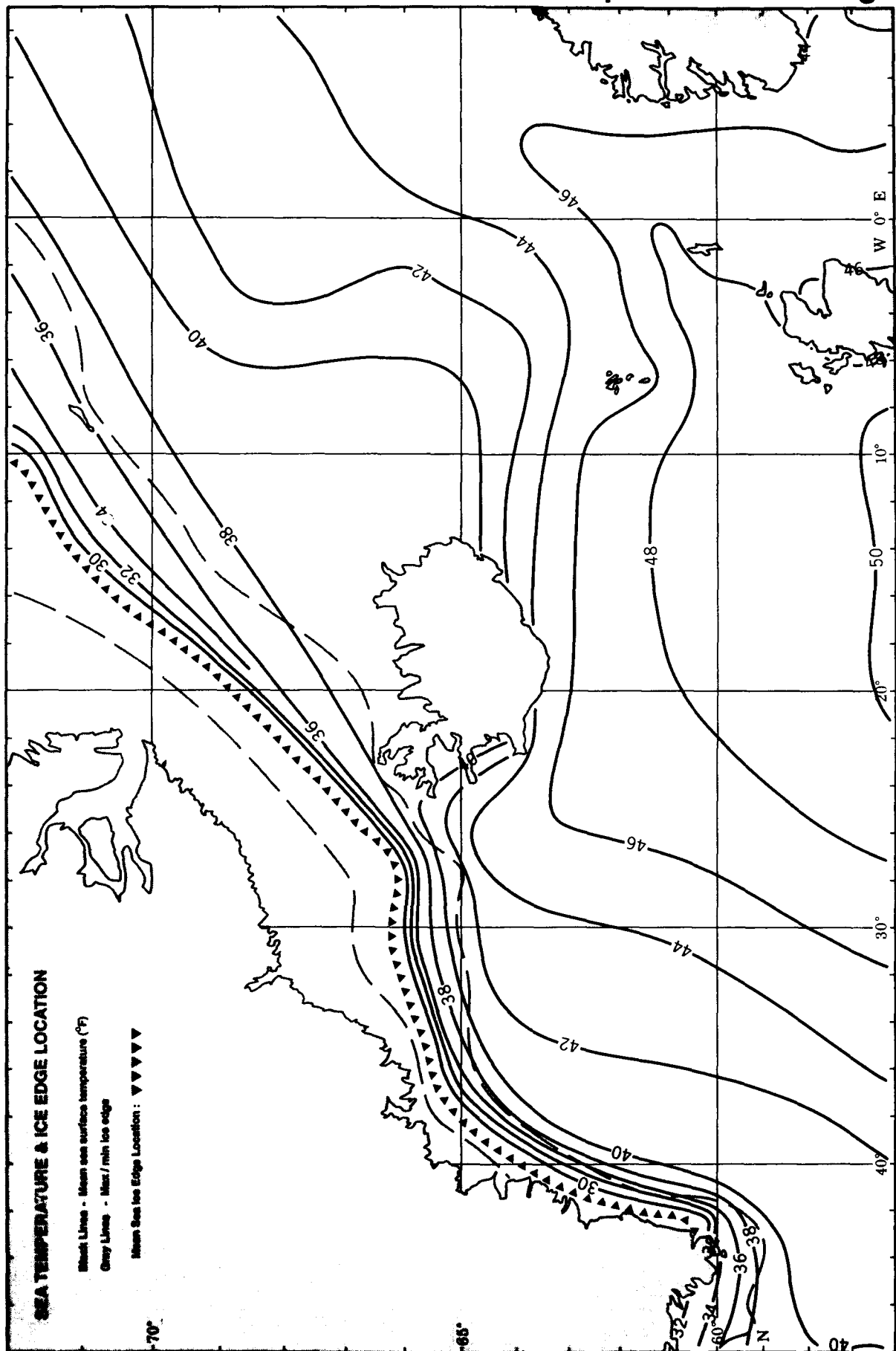
December

Mean Air Temperature



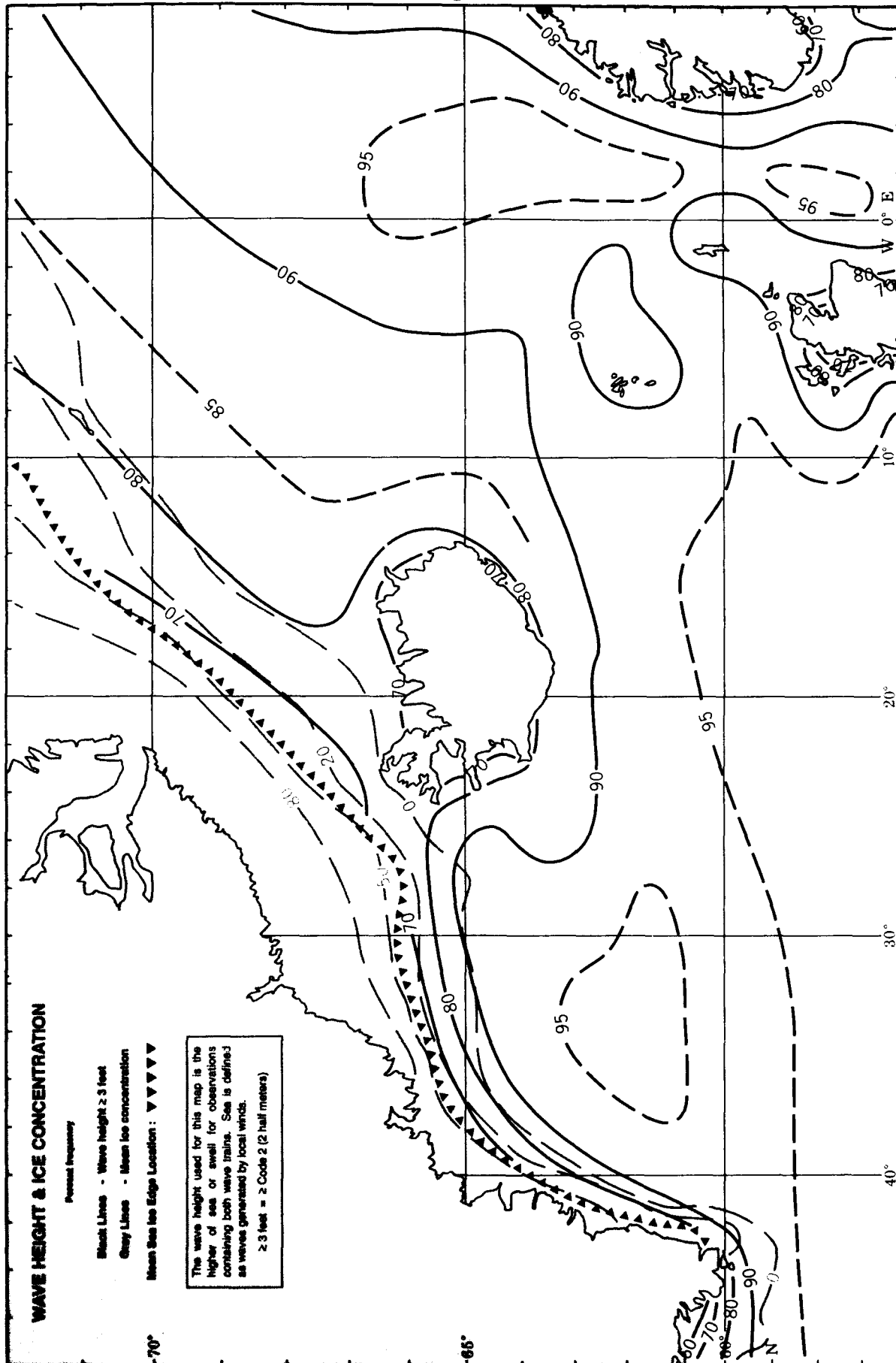
December

Mean Sea Temperature & Ice Edge



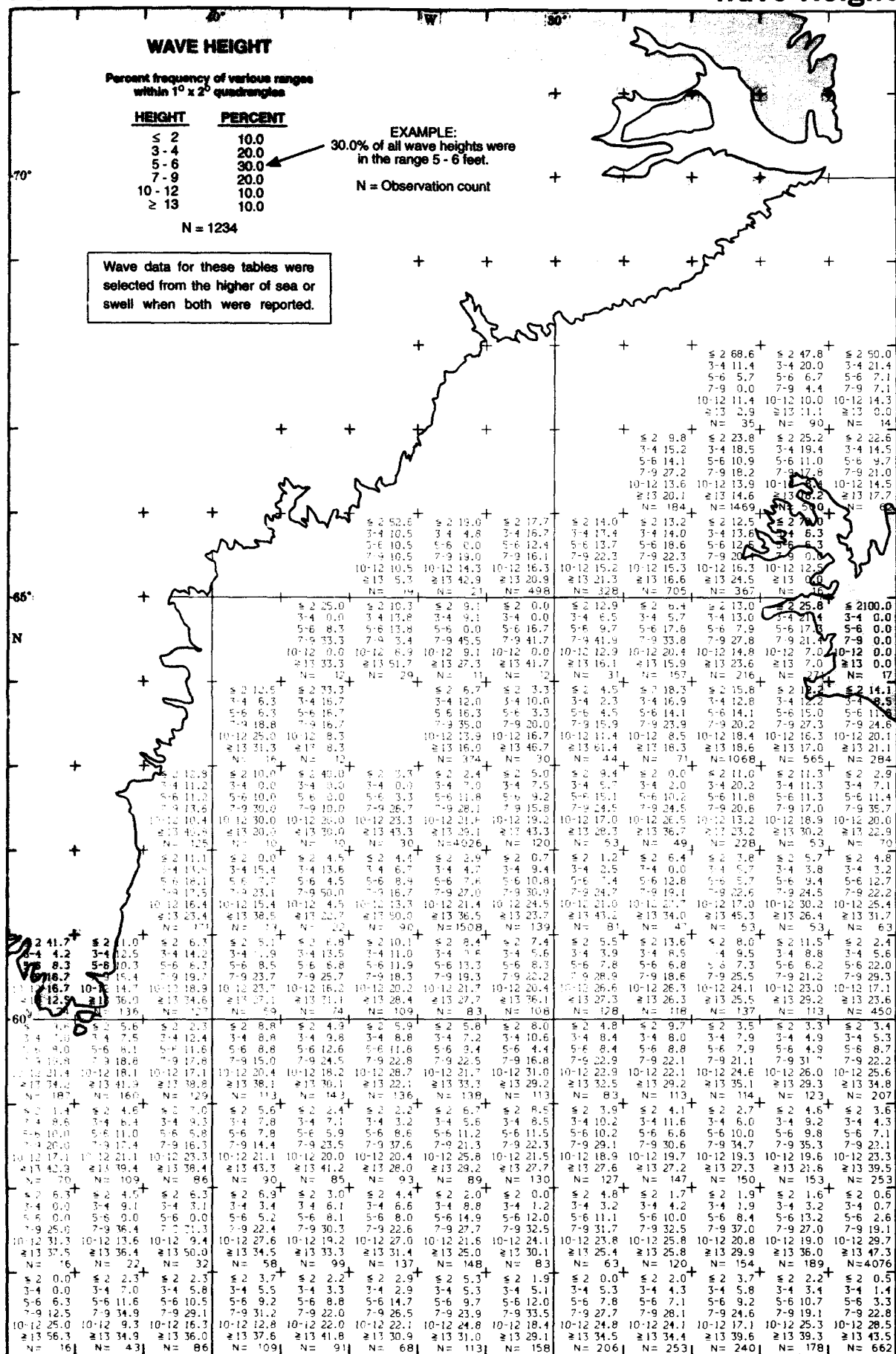
December

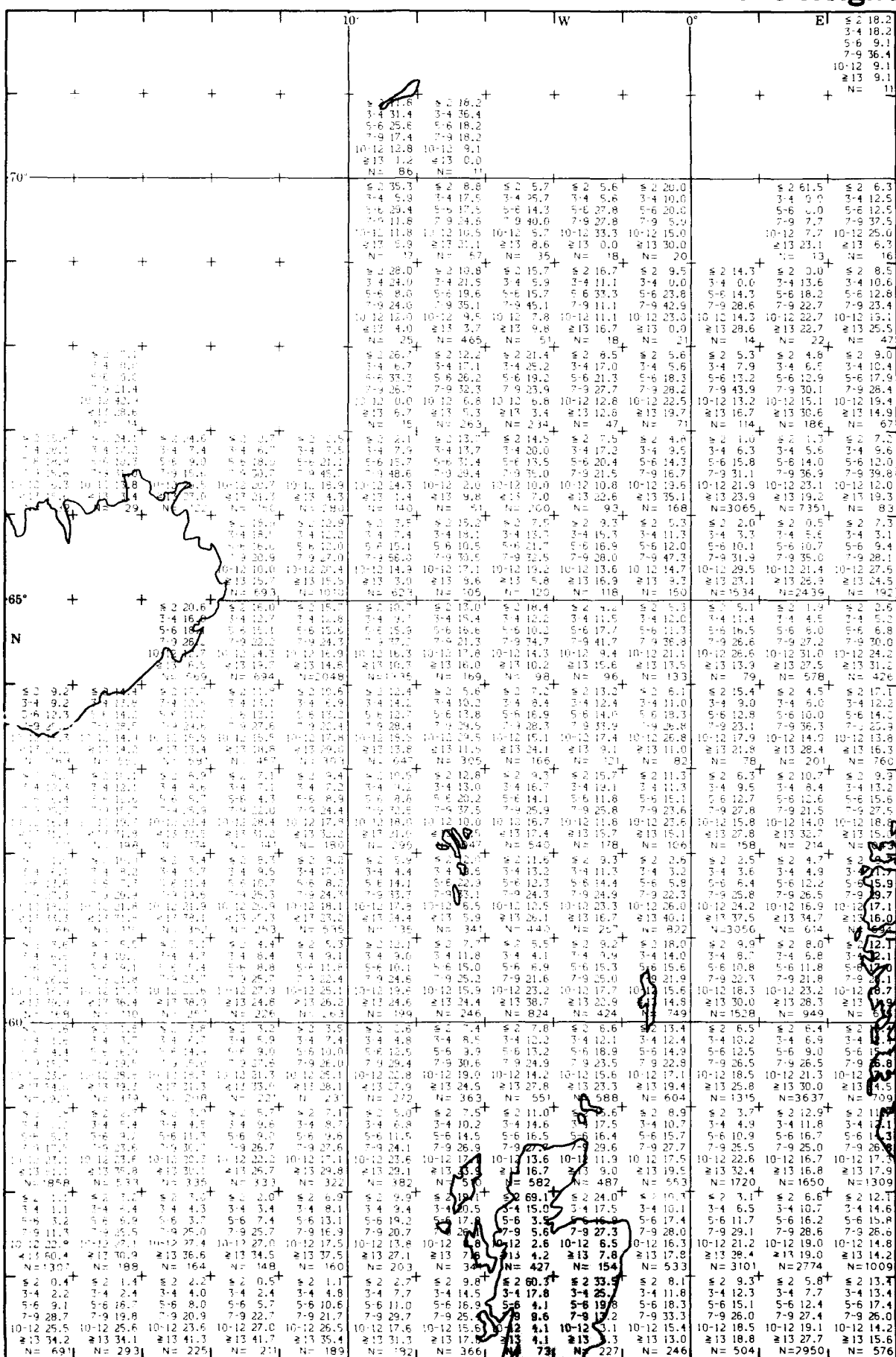
Wave Height ≥ 3 Ft. & Ice Concentration



Wave Height ≥ 8 Ft. & Ice Concentration

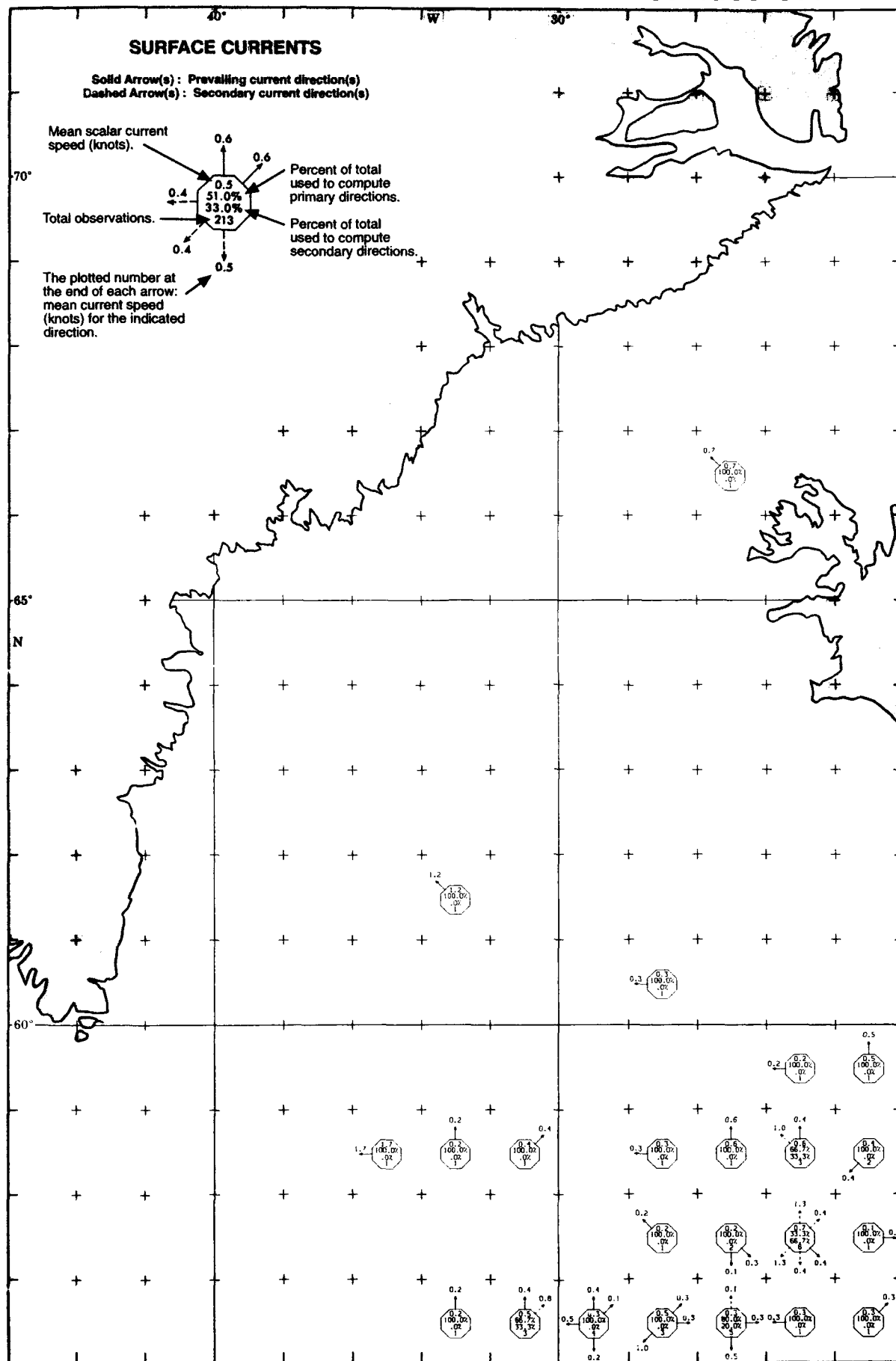






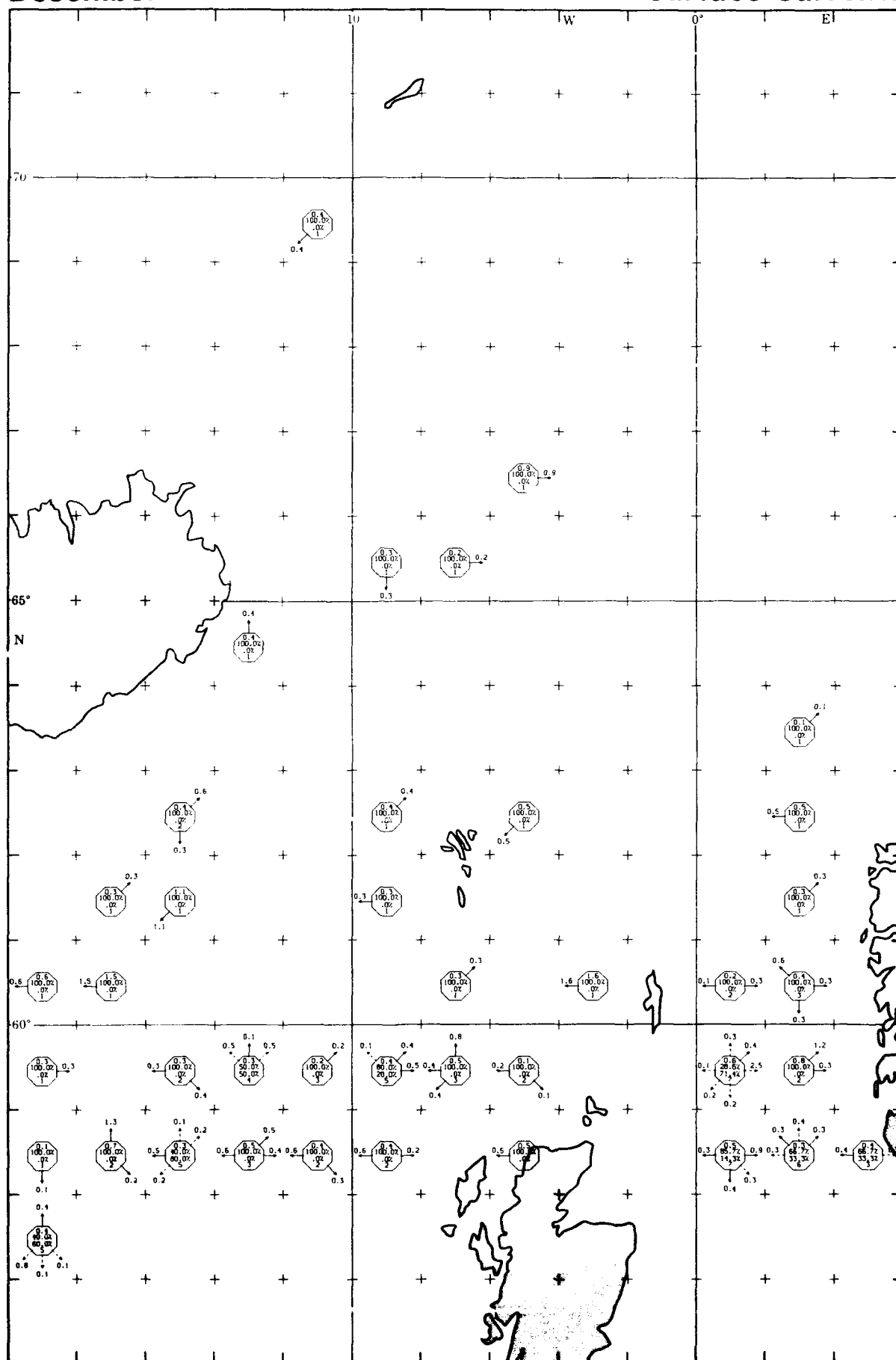
December

Surface Currents



December

Surface Currents



STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 010010: Jan Mayan, Norway

LAT: 70°56'N

LON: 8°40'W

ELEV: 30FT

Period of record (hourly): 1973 - 1990

Period of record (daily): 1973 - 1990

TEMPERATURE (DEG F) REL HUMID (%) WIND (KTS) TOTL										MEAN NO. OF DAYS WITH (C)										PRECIPITATION										OBSTR TO VISION									
MEANS		EXTREME		PERCENT		PR		PT.		ALT		SKY		TEMP (DEG F)		PRECIPITATION		IFRZ		THAIL		ITM		FOG		ISMOK		IRLOW		IDUST		QTS							
MAX	MIN	AVG	MAX	MIN	AM	PM	ING			FT.	IP	PREV	AVL	MAX	CVR	MAX	MAX	MIN	MIN	IFRZ	THAIL	ITM	FOG	ISMOK	IRLOW	IDUST	QTS												
07	16									%	IDP	SPD	SPD	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
90	75	45	32																																				
JAN 26	19	23	50	-15	83	83	.09	17	180	N	19	48	OVR	0	0	31	29	5	1	23	0	25	0	8	0	12	#	18											
FEB 26	19	23	48	-13	83	83	.09	18	175	N	20	54	OVR	0	0	28	27	6	1	21	0	23	0	11	#	12	#	19											
MAR 27	19	23	50	-15	84	83	.10	19	155	N	20	62	OVR	0	0	31	30	6	1	23	0	25	#	12	0	13	#	22											
APR 28	22	25	49	1	83	81	.10	20	110	N	18	52	OVR	0	0	30	29	6	1	20	0	23	0	10	#	11	#	19											
MAY 33	29	31	48	10	84	82	.14	26	70	N	15	42	OVR	0	0	31	25	10	#	14	0	20	0	13	#	3	#	16											
JUN 38	33	36	55	25	87	84	.18	32	75	S	6	43	OVR	0	0	30	12	16	#	8	0	20	#	18	#	#	0	19											
JUL 42	38	40	61	30	89	86	.22	37	70	S	6	51	OVR	0	0	31	2	21	#	1	0	21	0	23	0	#	23												
AUG 44	39	42	65	32	87	83	.22	37	80	SSW	7	42	OVR	0	0	31	#	21	0	1	0	21	0	19	#	4	#	19											
SEP 39	35	37	59	23	83	81	.18	32	115	N	16	53	OVR	0	0	29	9	20	#	10	0	24	#	11	0	1	#	12											
OCT 35	30	33	54	12	82	81	.15	27	135	N	17	43	OVR	0	0	31	20	16	1	16	0	25	#	11	#	3	#	14											
NOV 30	24	27	45	3	80	80	.11	21	150	N	18	60	OVR	0	0	30	26	9	1	22	0	25	0	7	#	6	#	14											
DEC 26	19	23	46	-10	80	81	.09	16	170	N	19	50	OVR	0	0	31	28	6	1	24	0	26	0	9	#	10	#	17											
ANN 33	27	30	65	-15	84	82	.13	25	135	N	15	62	OVR	0	0	363	235	142	7	183	0	278	1	152	1	73	2	211											
POR 18	18	18	18	18	17	17	17	17	17	17	17	17	18	13	18	18	19	18	17	17	17	17	17	18	18	17	17	17											

NOTES:

- # = Mean number of days < .5 days
- \$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)
- * = Visibility is not considered, must included when reported
- & = Annual totals may differ from the sum of the monthly values because of rounding
- + = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

HOOR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
01	72	74	73	69	75	79	82	76	76	77	78	76	76	18
04	73	74	75	74	78	80	83	79	75	79	80	76	77	18
07	76	72	75	71	74	82	83	76	76	81	77	75	77	18
10	74	73	70	70	73	79	81	76	75	77	79	75	75	18
13	73	70	70	69	70	75	79	72	74	76	75	76	73	18
16	76	72	68	66	71	74	76	70	73	75	76	79	73	18
19	74	73	71	64	72	74	77	72	73	80	79	78	74	18
22	75	73	77	66	73	75	79	75	74	80	79	78	76	18
ALL	74	73	72	69	73	77	80	75	75	78	78	77	75	18
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
01	67	68	69	63	67	75	80	71	68	68	67	69	69	18
04	69	69	71	67	70	73	81	75	70	70	69	70	71	18
07	71	66	70	66	68	76	80	72	70	72	68	67	71	18
10	69	68	64	64	67	74	78	71	68	67	66	69	68	18
13	69	66	62	63	62	69	76	68	65	67	67	69	67	18
16	71	68	62	59	64	67	72	65	66	67	68	75	67	18
19	67	68	66	59	67	68	74	68	65	73	72	70	68	18
22	70	69	72	60	67	70	76	71	72	69	68	72	70	18
ALL	69	68	67	63	67	71	77	70	68	69	69	70	69	18
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
01	42	42	45	39	47	50	67	52	41	37	39	40	45	18
04	44	43	47	42	46	53	67	56	42	36	39	42	46	18
07	45	42	47	44	46	54	69	53	47	38	38	39	47	18
10	40	42	45	44	41	50	65	51	41	37	38	38	44	18
13	47	45	44	40	37	46	61	50	41	40	41	42	45	18
16	47	48	45	40	41	44	57	48	42	40	43	46	45	18
19	41	52	47	39	41	46	61	50	42	42	40	40	45	18
22	42	47	48	38	44	46	63	51	45	38	40	42	45	18
ALL	44	45	46	41	43	49	64	51	43	38	40	41	45	18
PERCENT OF HOURS WITH CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 0.75 MILES														
01	18	19	20	17	32	37	53	39	22	18	16	19	26	18
04	21	18	20	17	32	37	50	40	22	16	15	20	26	18
07	21	19	23	22	31	37	53	39	28	17	19	14	27	18
10	19	18	24	20	26	34	50	37	27	21	16	17	26	18
13	20	22	25	21	27	33	43	37	26	21	19	21	26	18
16	21	23	23	22	28	29	43	31	26	21	18	22	26	18
19	18	22	23	20	26	31	43	35	27	20	15	19	25	18
22	17	21	20	18	29	34	49	37	23	19	15	20	25	18
ALL	20	20	22	20	29	34	48	37	25	19	17	19	26	18
PERCENT OF HOURS WITH CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.25 MILES														
01	16	14	13	9	19	18	27	17	9	11	11	15	15	18
04	16	13	15	11	18	16	26	17	9	9	12	15	15	18
07	17	13	15	12	17	18	25	15	10	9	13	14	15	18
10	15	13	16	11	16	16	22	16	11	10	10	13	14	18
13	14	15	14	11	17	15	19	15	11	9	11	16	14	18
16	15	17	13	12	16	13	18	12	12	9	11	16	14	18
19	13	16	15	12	15	15	18	14	10	9	10	16	13	18
22	13	17	13	10	17	17	22	15	9	9	9	16	14	18
ALL	15	15	14	11	17	16	22	15	10	9	11	15	14	18

STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 012410: Orlan, Norway

LAT: 63°42'N

LON: 9°36'E

ELEV: 23Ft

Period of record (hourly): 1973 - 1990

Period of record (daily): 1973 - 1990

	TEMPERATURE (DEG F)										REL HUMIDITY (%)										WIND (KTS)										PRECIPITATION (IN)										MEAN NO. OF DAYS WITH (1)										OBSTR TO VISION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	MEANS					EXTREME					PERCENT					IPR					ALT					DIR					FT.					PREVAIL					MAX					MIN					TEMP (DEG F)					IFRZ					1					HAIL					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1					1				

NOTES:

- # = Mean number of days < .5 days
 \$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)
 * = Visibility is not considered, mist included when reported
 & = Annual totals may differ from the sum of the monthly values because of rounding
 + = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
01	44	43	33	39	42	52	58	46	44	44	43	45	45	17
04	44	42	32	47	40	53	59	52	46	44	43	42	45	18
07	42	41	39	46	38	49	58	52	50	46	44	43	46	18
10	43	42	34	42	37	44	55	46	46	44	45	46	44	18
13	42	41	38	42	34	42	48	43	43	46	49	46	43	18
16	45	44	32	42	32	39	46	42	44	44	47	46	42	18
19	44	42	36	39	34	42	48	41	43	47	43	44	42	18
22	42	41	32	46	37	46	53	46	39	41	43	44	43	18
ALL	43	42	34	43	37	46	53	46	44	45	45	45	44	18
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
01	33	31	25	27	26	35	42	31	26	28	31	33	3	18
04	34	30	23	34	28	36	44	35	28	17	29	33	32	18
07	31	27	28	33	25	33	40	31	28	28	30	32	31	18
10	33	29	26	29	20	28	35	25	26	31	30	36	29	18
13	32	29	26	28	19	23	28	24	26	27	32	34	27	18
16	33	29	21	28	19	22	27	23	26	28	30	36	27	18
19	33	29	26	26	20	25	29	23	27	32	30	32	28	18
22	32	30	23	31	25	29	36	29	22	27	30	31	29	18
ALL	32	29	25	29	23	29	35	26	26	29	30	33	29	18
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
01	7	7	5	5	6	12	13	8	3	4	3	7	7	18
04	9	8	6	6	7	10	15	8	2	2	4	7	7	18
07	8	6	5	7	7	10	14	9	4	4	5	7	6	18
10	7	6	5	5	5	5	12	8	4	4	5	7	6	18
13	9	5	6	6	4	5	9	5	2	3	3	7	5	18
16	9	6	5	5	3	5	7	5	3	3	3	9	5	18
19	6	7	5	6	3	6	9	6	3	3	5	8	6	18
22	6	7	4	6	5	8	11	7	2	3	4	6	6	18
ALL	8	7	5	6	5	7	11	7	3	3	4	7	6	18
PERCENT OF HOURS WITH CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 0.75 MILES														
01	3	4	2	3	3	5	6	4	1	1	1	3	3	18
04	3	3	2	3	4	5	7	5	1	1	1	3	3	18
07	4	3	2	4	3	5	7	5	2	1	1	2	3	18
10	5	3	2	2	2	2	5	3	2	1	2	3	3	18
13	4	2	3	2	1	2	3	1	1	1	1	4	2	18
16	5	2	3	2	1	1	2	1	1	1	1	5	2	18
19	3	4	2	1	1	2	3	2	1	1	2	3	2	18
22	3	3	2	2	2	3	4	3	1	1	1	4	2	18
ALL	4	3	2	2	2	3	5	3	1	1	1	3	3	18
PERCENT OF HOURS WITH CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.50 MILES														
01	2	3	1	2	2	1	2	2	0*	0*	1	2	1	18
04	2	2	1	1	2	2	3	3	0*	0	1	1	2	18
07	2	1	1	2	1	1	2	2	1	0*	0*	1	1	18
10	2	1	2	1	0*	0*	1	1	0	0*	1	2	1	18
13	3	2	1	1	0*	0	0	0*	0	0*	1	2	1	18
16	3	4	1	1	0	0	0	0	0*	0*	0*	3	1	18
19	2	2	1	0*	0*	0	0	0	0*	0*	1	1	1	18
22	2	2	1	1	1	1	1	1	0*	0	1	2	1	18
ALL	2	2	1	1	1	1	1	1	0*	0*	1	2	1	18

NOTE:

* = VALUE > 0 AND < 0.5 PERCENT

STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 013110: Bergen, Norway

LAT: 60°18'N

LON: 5°13'E

ELEV: 164Ft

Period of record (hourly): 1973 - 1990

Period of record (daily): 1973 - 1990

TEMPERATURE (DEG F) REL HUMID (%) WIND (KTS) TOTL										MEAN NO. OF DAYS WITH (C)									
MEANS	EXTREME	PERCENT	PT	ALT	FT	PREVAIL	MAX	CVR	MAX	MIN	PRECIPITATION	OBSTR TO VISION	OBSTR	TO VISION	OBSTR	TO VISION	OBSTR	TO VISION	OBSTR
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JAN	38	29	34	52	0	80	78	15	28	170	SSE	11	38	OVR	0	#	19	#	19
FEB	38	29	34	52	9	81	72	14	27	170	SSE	10	36	OVR	0	#	18	0	14
MAR	42	31	37	61	14	81	66	16	29	155	SSE	11	35	OVR	0	2	17	0	18
APR	47	35	41	70	21	82	61	18	31	110	N	6	50	OVR	#	9	11	0	17
MAY	56	42	47	77	25	80	59	24	39	100	NNW	7	32	OVR	4	25	1	0	18
JUN	60	47	54	81	34	81	64	30	45	95	NNW	7	26	OVR	6	30	0	0	17
JUL	62	51	57	82	39	84	65	34	46	90	NNW	7	30	OVR	8	31	0	0	20
AUG	62	50	56	84	37	87	68	35	49	90	NNW	7	26	OVR	6	31	0	0	21
SEP	56	46	51	77	32	85	70	29	44	125	SSE	9	37	OVR	#	29	#	0	24
OCT	51	41	46	67	21	82	72	24	39	145	SSE	10	39	OVR	#	21	3	0	24
NOV	43	35	40	59	10	82	77	19	33	170	SSE	11	39	OVR	0	4	10	0	22
DEC	39	31	35	56	5	82	80	16	30	165	SE	7	44	OVR	0	1	17	0	21
ANN	50	39	45	84	0	82	69	22	37	140	SSE	9	50	OVR	26	162	97	#	235
POR	18	18	18	18	18	18	18	18	18	18	18	11	18	18	18	18	17	17	17

NOTES:

= Mean number of days < .5 days

\$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)

* = Visibility is not considered, mist included when reported

& = Annual totals may differ from the sum of the monthly values because of rounding

+ = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES

CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	60	55	53	46	41	46	49	49	55	50	59	61	53	18
04	62	59	55	50	46	47	55	56	57	60	55	57	55	18
07	59	58	56	47	45	51	55	55	58	61	59	57	55	18
10	58	54	52	48	41	45	52	53	57	54	56	57	52	18
13	56	55	52	45	39	40	45	49	59	58	56	57	51	18
16	59	55	52	42	39	38	39	45	58	56	58	59	50	16
19	58	57	50	41	39	37	41	45	55	59	59	61	50	18
22	60	55	54	41	39	39	45	48	53	57	60	55	51	18
ALL	59	56	53	45	41	43	48	50	56	58	58	56	52	18

CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES

CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	45	41	41	34	31	33	37	36	40	39	42	47	39	18
04	47	45	40	38	32	36	44	41	42	43	40	44	41	18
07	47	42	42	36	32	36	43	42	43	41	42	43	41	18
10	45	42	39	35	29	33	36	37	40	40	43	44	39	18
13	44	42	42	34	26	29	32	34	45	43	44	48	38	18
16	47	41	39	30	27	26	27	32	41	43	47	46	37	16
19	45	45	43	30	25	26	29	32	39	44	41	46	37	18
22	48	41	40	32	27	28	34	36	38	38	40	42	37	18
ALL	46	42	40	34	29	31	36	36	41	41	42	45	39	18

CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 1.00 MILES

CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 1.00 MILES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	16	17	15	17	11	16	15	12	13	11	10	16	14	18
04	15	18	15	19	15	17	16	15	11	12	10	15	15	18
07	16	17	16	21	15	16	19	17	14	12	9	13	15	18
10	15	18	15	16	10	8	13	11	13	12	10	13	13	18
13	14	15	11	11	6	5	8	8	9	11	11	14	10	18
16	18	16	14	10	5	6	7	5	9	12	13	14	12	18
19	15	16	13	12	7	8	8	8	11	12	10	14	11	16
22	17	17	16	16	10	13	14	10	11	10	13	13	13	18
ALL	16	17	14	15	10	11	12	11	11	11	11	14	13	18

CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 0.75 MILES

CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 0.75 MILES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	5	6	5	10	5	8	6	4	5	5	2	4	5	18
04	5	7	5	11	7	6	8	6	4	6	3	5	6	18
07	6	7	7	10	7	7	9	8	4	5	2	4	6	18
10	5	7	4	7	4	3	4	4	4	5	3	4	4	18
13	4	5	4	5	1	2	3	2	2	3	5	4	4	18
16	7	5	5	4	1	2	2	2	3	4	4	4	4	18
19	5	7	4	6	2	3	3	3	4	4	4	4	4	18
22	6	5	4	7	4	6	5	5	4	3	4	3	5	18
ALL	5	6	5	7	4	5	5	4	4	5	3	4	5	18

CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.25 MILES

CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.25 MILES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	2	2	1	5	2	3	3	2	2	1	0*	1	2	18
04	2	3	2	7	3	4	4	4	1	3	1	1	3	18
07	2	2	2	5	3	3	5	4	1	2	0*	1	3	18
10	2	2	1	2	1	1	1	1	1	2	1	1	1	18
13	1	1	1	2	0*	0*	1	0*	1	1	1	2	1	18
16	2	2	1	1	0	1	0*	1	0	1	1	1	1	18
19	1	2	1	2	0*	0*	0*	1	1	1	1	1	1	18
22	2	1	1	3	1	2	1	2	1	1	1	1	1	18
ALL	2	2	1	3	1	2	2	2	1	1	1	1	2	18

NOTE:

* = VALUE > 0 AND < 0.5 PERCENT

(Derived from hourly data)

ELEV: 276Ft

Period of record (daily): 1973 -1990

[illegible]

FLYING WEATHER - PERCENT OF HOURS

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
	PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES													
00	64	63	65	62	66	73	79	72	64	66	62	69	67	18
03	69	69	68	68	68	76	82	76	66	69	65	69	71	18
06	66	68	67	63	66	74	79	74	66	71	63	65	68	16
09	68	70	65	64	69	73	79	73	66	69	65	68	69	16
12	65	65	69	65	65	71	76	66	63	68	67	65	67	16
15	64	65	66	64	64	68	68	67	63	68	65	61	65	18
18	66	67	65	63	70	68	64	77	66	63	66	63	66	16
21	63	66	65	63	64	69	73	70	66	66	63	65	66	18
ALL	66	67	66	64	66	72	76	71	65	68	65	68	68	18

PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	45	45	49	45	49	55	57	55	47	46	42	49	49	18
03	47	44	49	46	52	56	59	58	47	46	42	46	49	18
06	45	47	48	44	50	54	59	56	51	51	42	45	49	18
09	48	47	47	44	48	54	60	52	46	53	47	49	50	18
12	45	47	50	45	47	49	58	46	47	49	50	50	49	18
15	48	48	50	43	46	47	50	47	46	51	49	48	48	18
18	47	49	49	47	47	49	47	46	47	45	50	47	47	18
21	44	49	47	45	49	49	54	50	50	48	42	47	48	18
ALL	46	47	49	44	48	51	56	51	48	49	45	47	49	18

PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET AND/OR VISIBILITY LESS THAN 3.00 MILES														
00	15	17	20	24	30	32	38	35	24	22		16	24	18
03	16	17	16	23	31	34	41	37	26	23	12	15	24	18
06	15	15	20	23	30	34	39	35	26	24	13	15	24	18
09	19	19	22	22	28	29	37	31	25	25	16	18	25	18
12	19	18	22	18	24	25	30	27	24	22	17	19	22	18
15	22	21	24	19	23	24	27	27	23	25	16	17	22	18
18	210	21	25	23	25	24	30	31	27	24	13	13	23	18
21	17	19	20	20	32	30	36	33	25	20	12	14	23	18
ALL	18	18	21	21	28	29	35	32	25	23	14	16	23	18

PERCENT OF HOURS WITH														
CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN					1.00 MILES									
00	5	6	7	12	18	21	24	22	14	10	5	5	12	18
03	4	7	5	12	18	24	29	22	14	13	4	5	13	18
06	4	5	7	12	18	22	27	23	14	11	5	5	13	18
09	5	6	9	10	16	18	24	19	16	13	5	7	12	18
12	6	7	7	7	14	14	18	15	13	7	7	11	18	
15	8	8	6	7	13	14	16	16	13	14	6	5	11	18
18	8	7	7	10	16	14	19	22	14	11	5	4	11	18
21	7	7	7	12	19	18	24	24	14	12	2	5	13	18
ALL	6	7	7	11	16	18	23	20	14	12	5	5	12	18

PERCENT OF HOURS WITH CEILING LESS THAN 200 FEET AND/OR VISIBILITY LESS THAN 0.75 MILES												
00	2	2	6	10	14	17	16	6	6	2	7	16
03	1	1	8	11	17	19	17	7	6	1	1	18
06	1	1	3	7	13	15	18	15	8	6	1	18
09	2	2	3	4	10	12	15	11	8	7	1	18
12	3	4	3	7	9	10	10	6	7	2	2	18
15	4	3	7	9	9	10	10	6	7	2	2	18
18	4	3	3	5	11	9	12	14	8	6	1	18
21	3	3	2	6	12	10	17	16	7	6	1	18
ALL	3	2	3	6	10	12	15	14	7	6	1	18

STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 030260: Stormway, United Kingdom

LAT: 58°13'N

LON: 6°19'W

ELEV: 43FT

Period of record (hourly): 1973 - 1990

Period of record (daily): 1973 -1990

TEMPERATURE (DEG F) REL HUMIDITY (DEG F) WIND (KTS) (TOTS)										PRECIPITATION (INCHES) MEAN NO. OF DAYS WITH (C)										OBSTR TO VISION (MILES)									
MEANS	EXTREME	PERCENT	PR	PT	ALT	IS	SKY	TEMP	DEG F	PRECIPITATION	IFRZ	IMAIL	ITH	IFOG	ISMOK	IBLOW	IDUST	IBS	IBS	IBS	IBS	IBS	IBS	IBS	IBS	IBS	IBS	IBS	IBS
MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
JAN	44	36	40	63	19	87	84	21	36	170	SSW	18	51	OVR	0	#	9	0	27	0	9	#	28	#	2	2	2	2	2
FEB	44	36	40	53	21	87	81	21	36	170	S	18	60	OVR	0	#	7	0	21	0	7	#	22	#	2	4	#	#	6
MAR	45	37	42	57	20	88	79	22	37	155	S	18	45	OVR	0	0	5	0	26	0	8	#	27	#	2	5	C	0	6
APR	48	39	44	69	25	90	78	24	39	105	W	12	60	OVR	0	#	3	0	23	0	4	0	23	0	5	6	#	#	9
MAY	53	43	48	70	30	89	75	28	43	95	NE	12	41	BRK	#	3	1	0	22	0	1	0	22	#	5	8	G	#	10
JUN	56	47	52	72	34	89	78	32	47	80	S	11	50	BRK	#	5	0	0	23	0	#	0	23	#	5	5	G	0	8
JUL	59	51	55	77	39	93	80	38	51	80	S	11	36	BRK	1	12	0	0	27	0	0	0	27	#	8	4	0	#	9
AUG	60	51	55	73	41	93	80	38	51	90	S	12	38	BRK	1	12	0	0	25	0	0	0	25	#	6	4	0	#	8
SEP	56	47	52	64	32	91	80	33	48	120	SSW	15	58	OVR	0	3	#	0	28	0	0	0	28	#	3	2	0	#	4
OCT	52	44	49	65	28	89	82	30	45	140	SSW	15	59	OVR	0	1	1	0	27	0	#	#	27	#	3	4	C	0	6
NOV	47	39	44	66	26	88	85	25	40	160	SSW	15	58	OVR	0	#	3	0	27	0	4	#	27	#	2	2	0	#	3
DEC	45	38	42	61	19	87	85	23	36	165	SSW	15	44	OVR	0	#	5	0	27	0	6	#	28	1	3	3	#	#	5
ANN	51	42	47	77	19	89	80	27	43	135	S	14	60	OVR	2	36	34	0	303	0	39	1	307	1	46	49	#	1	78
POR	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18

NOTES:

= Mean number of days < 5 days

S = Pressure altitude in tens of feet (i.e., 50 = 500 feet)

* = Visibility is not considered, mist included when reported

& = Annual totals may differ from the sum of the monthly values because of rounding

+ = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

HOURLY (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
00	60	55	57	52	49	59	73	59	59	55	61	56	58	18
03	60	54	59	56	54	61	76	64	64	55	59	56	60	16
06	61	55	64	61	51	61	74	65	63	59	56	61	61	18
09	64	57	57	58	56	66	76	68	59	55	61	63	62	16
12	62	56	59	59	53	64	74	70	64	56	64	61	62	18
15	63	54	60	57	50	62	69	66	65	53	60	60	60	18
18	60	53	56	53	47	58	71	60	58	52	59	63	58	18
21	60	53	52	51	49	54	66	59	57	53	60	59	56	18
ALL	61	55	58	56	51	61	72	64	61	55	60	60	60	18
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	39	35	36	30	25	35	50	36	38	33	39	36	36	18
03	40	34	36	31	32	39	50	41	41	36	37	37	38	18
06	42	35	42	37	32	41	52	41	42	39	35	41	40	18
09	48	35	40	38	36	44	53	42	41	36	38	40	41	18
12	44	34	40	39	33	41	49	45	42	36	41	43	41	18
15	46	33	43	35	27	34	43	38	42	36	42	43	39	18
18	45	34	38	34	25	34	43	37	37	35	39	42	37	18
21	40	31	34	30	25	32	43	37	35	32	37	39	35	16
ALL	43	34	39	34	30	38	48	40	40	35	39	40	38	18
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	5	3	4	5	5	6	13	8	6	4	4	3	6	18
03	3	2	4	5	6	8	15	11	7	5	5	3	6	18
06	3	3	8	9	7	11	19	16	9	4	4	4	8	18
09	7	6	7	8	5	9	14	13	9	7	5	8	8	18
12	9	5	5	6	5	5	11	11	7	6	3	8	7	18
15	8	5	6	5	4	4	11	9	7	7	6	10	7	18
18	5	5	7	5	3	7	10	9	6	6	4	6	6	18
21	4	3	4	5	4	6	14	11	6	4	5	7	6	18
ALL	6	4	6	6	5	7	14	11	7	5	4	6	7	18
PERCENT OF HOURS WITH CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
00	0	0*	0*	1	1	2	3	2	1	1	0*	0*	1	18
03	1	0*	1	1	1	1	4	3	1	1	1	0*	1	18
06	1	0*	1	2	2	4	5	5	1	1	0*	1	2	18
09	0*	0*	1	1	1	1	3	2	1	1	0	1	1	18
12	1	0*	1	0*	1	1	3	2	0*	1	0	1	1	18
15	1	1	0*	1	1	1	1	1	1	1	0	1	1	18
18	1	0*	0*	1	0*	1	2	1	1	1	0*	1	1	18
21	0	0*	0*	1	1	1	1	1	1	1	0*	1	1	18
ALL	1	0*	1	1	1	1	3	2	1	1	0*	1	1	18
PERCENT OF HOURS WITH CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.75 MILES														
00	0	0*	0*	1	0	1	1	0*	0*	0*	0	0*	0*	18
03	0*	0	0*	0*	1	0*	1	1	1	1	0*	0	1	18
06	0*	0*	0*	2	1	1	3	1	1	1	0	1	1	18
09	0	0*	0*	1	1	0	1	1	0*	1	0	0*	0*	18
12	0*	0	1	0*	0*	0*	0*	1	0*	1	0	0*	0*	18
15	1	0	0*	0*	0*	0*	1	0*	0*	0	0	0*	0*	18
18	0*	0	0	0*	0*	1	1	1	0*	0*	0	0*	0*	18
21	0	0	0*	0*	0*	1	1	1	0*	0*	0	0*	0*	18
ALL	0*	0*	0*	1	0*	1	1	1	0*	0*	0*	0*	0*	18

NOTE:

* = VALUE > 0 AND < 0.5 PERCENT

STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 016201: Keflavik/Navsta, Iceland

LAT: 63°58'N

LON: 22°36'W

ELEV: 177ft

Period of record (hourly): 1949 - 1990

Period of record (daily): 1949 -1990

	TEMPERATURE (DEG F) REL HUM WIND WIND DIR ALT										WIND (KTS) TOT										TEMP (DEG F)										MEAN NO. OF DAYS WITH (C)										PRECIPITATION										OBSTR TO VISION																																																																										
	MEANS					EXTREME					PERCENT					IN PT.					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS																			
	MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS				
	MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS				
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					
MAX					MIN					AVG					MAX					MIN					WIND					WIND DIR					ALT.					FT.					PREVAIL					MAX					MIN					TEMP					MAX					MIN					WIND					FRZ					PRECIPITATION					MAIL					TH					F06					SMOK					BLOW					DUST					OBS					

NOTES:

- # = Mean number of days < .5 days
 \$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)
 * = Visibility is not considered, mist included when reported
 & = Annual totals may differ from the sum of the monthly values because of rounding
 + = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

HOURL (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
00	62	65	64	67	62	66	66	62	63	64	62	63	64	42
03	63	64	65	69	63	68	68	63	64	65	64	64	65	42
06	63	66	68	70	65	69	67	63	66	66	64	63	66	42
09	66	67	63	68	63	69	67	63	66	66	66	64	66	42
12	64	64	64	69	62	68	65	63	64	66	66	67	65	42
15	63	64	64	68	64	64	62	61	63	67	65	67	64	42
18	66	64	64	66	61	62	61	59	63	67	65	66	64	42
21	63	62	65	66	60	65	61	60	62	65	63	62	63	42
ALL	64	64	65	68	63	66	65	62	64	66	64	65	65	42
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	46	47	47	50	43	51	53	45	44	47	44	47	47	42
03	48	46	47	52	44	54	54	48	46	47	46	47	48	42
06	48	45	50	52	46	53	53	47	47	49	48	45	49	42
09	48	48	48	51	48	54	55	49	47	51	49	48	50	42
12	49	45	49	54	48	54	54	51	50	49	49	50	50	42
15	50	48	48	52	48	51	52	49	49	53	51	51	50	42
18	51	48	49	52	46	49	50	48	47	51	48	50	49	42
21	49	43	49	51	44	49	49	44	44	48	47	45	47	42
ALL	49	46	48	52	46	52	53	47	47	49	48	48	49	42
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
00	13	14	14	16	13	17	22	15	13	12	12	12	14	42
03	13	14	13	16	13	17	23	16	15	13	12	13	15	42
06	13	13	14	16	14	18	20	16	14	12	13	12	15	42
09	13	12	14	16	12	16	20	16	15	13	13	13	14	42
12	15	15	13	16	10	14	17	15	14	13	14	14	14	42
15	15	15	13	15	11	13	14	14	14	13	14	14	14	42
18	14	14	16	16	11	13	17	15	13	12	13	12	14	42
21	14	12	14	15	12	16	18	16	13	11	13	11	14	42
ALL	14	14	14	16	12	16	19	15	14	12	13	13	14	42
PERCENT OF HOURS WITH CEILING LESS THAN 300 FEET &/OR VISIBILITY LESS THAN 0.25 MILES														
00	4	5	4	5	3	4	6	3	3	2	3	4	4	42
03	5	5	4	4	3	5	7	4	3	2	3	4	4	42
06	3	4	5	5	3	5	5	3	4	2	3	4	4	42
09	4	4	4	4	2	2	3	2	3	2	3	4	3	42
12	5	4	4	4	1	1	2	1	2	3	3	5	3	42
15	5	5	3	3	2	2	2	2	2	2	4	5	3	42
18	4	5	4	4	2	2	2	3	3	3	3	3	3	42
21	4	5	3	5	3	3	4	3	3	3	3	4	4	42
ALL	4	5	4	4	3	3	4	3	3	2	3	4	3	42
PERCENT OF HOURS WITH CEILING LESS THAN 100 FEET &/OR VISIBILITY LESS THAN 0.25 MILES														
00	1	1	0*	1	1	1	2	1	1	0*	1	1	1	42
03	1	1	1	1	1	1	2	1	1	1	0*	0*	1	42
06	1	1	1	2	1	1	2	1	1	1	1	1	1	42
09	1	1	1	2	1	0	1	0*	1	1	1	1	1	42
12	1	2	1	1	0*	0*	0	0*	0*	0*	1	1	1	42
15	2	2	1	1	0*	0	0*	0*	0*	1	1	1	1	42
18	1	2	1	1	1	0*	0*	1	1	0*	1	0*	1	42
21	1	1	1	2	1	1	1	1	1	1	1	1	1	42
ALL	1	1	1	1	1	1	1	1	1	0*	1	1	1	42

NOTE:

* = VALUE > 0 AND < 0.5 PERCENT

STATION CLIMATIC SUMMARY

(Derived from hourly data)

WMO NO. 040300: Reykjavik, Iceland

LAT: 64°08'N

LON: 21°54'W

ELEV: 200Ft

Period of record (hourly): 1973 - 1990

Period of record (daily): 1973-1990

TEMPERATURE (DEG F) REL HUMIDITY (%) WIND (KTS) TOTAL SKY MEAN NO. OF DAYS WITH (E)										PRECIPITATION (IN) OBSTR TO VISION (M)									
MEANS	EXTREME	PERCENT	PR IPT.	ALT.	FT.	IPREVAIL	MAX	CVR	MAX	MIN	IFRZ	IMAIL	ITM	IFOG	ISMOK	BLOW	FOUST	OBST	VIS
MAX	MIN	AVG	MAX	MIN	1	5	IDIR	SPD	1	5	1	5	1	5	1	5	1	5	1
1	06	15	1	06	15	1	06	15	1	06	15	1	06	15	1	06	15	1	06
JAN 34	26	31	50	3	78	78	12	24	215	E 12	69	OVR	0	8	24	0	14	#	18
FEB 37	29	33	57	9	79	77	14	26	200	E 12	65	OVR	0	1	19	0	15	#	16
MAR 37	29	33	50	9	79	74	14	26	190	E 12	52	OVR	0	8	21	0	16	#	18
APR 41	33	37	57	12	82	74	17	30	130	E 11	47	OVR	0	2	14	0	19	#	11
MAY 48	39	43	66	19	82	68	20	35	100	E 11	54	BRK	#	12	4	0	21	0	4
JUN 52	44	48	66	32	85	73	26	41	85	S 11	40	OVR	#	23	8	0	22	0	8
JUL 55	47	51	75	34	87	75	30	45	90	N 11	50	OVR	1	30	0	0	22	0	0
AUG 55	47	51	66	34	88	75	30	45	105	E 10	45	BRK	#	30	0	0	23	0	0
SEP 49	41	45	59	25	82	71	23	38	130	E 10	54	OVR	0	16	2	0	21	0	1
OCT 44	36	40	66	19	81	75	19	33	170	E 11	53	OVR	#	6	9	0	22	#	6
NOV 38	31	35	50	10	79	79	16	28	175	E 11	61	OVR	0	2	17	0	17	#	12
DEC 35	28	32	50	7	78	77	13	25	195	E 12	51	OVR	0	1	23	0	15	#	17
ANN 44	36	40	75	3	82	75	19	33	160	E 11	69	OVR	1	121	133	0	227	1	103
POR 18	18	18	18	18	17	17	17	17	17	17	17	18	12	18	18	18	17	17	17

NOTES:

- # = Mean number of days < .5 days
- \$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)
- * = Visibility is not considered, mist included when reported
- & = Annual totals may differ from the sum of the monthly values because of rounding
- + = The predominant sky condition

FLYING WEATHER - PERCENT OF HOURS

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
00	53	62	55	61	54	63	64	63	53	58	58	58	58	18
03	55	60	58	64	56	64	67	63	54	56	57	57	59	18
06	54	62	58	61	55	63	65	59	50	57	58	56	58	18
09	56	60	54	57	54	63	64	64	47	52	53	53	56	18
12	53	59	53	60	56	62	59	58	47	48	52	49	55	18
15	55	58	52	61	60	63	59	58	48	48	55	55	56	18
18	54	56	51	61	56	63	61	57	46	48	54	56	55	18
21	53	59	56	56	52	62	63	59	49	57	54	56	56	18
ALL	54	59	55	60	55	63	63	60	49	53	55	55	57	18
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	41	46	43	43	31	43	43	40	35	40	39	43	40	18
03	44	45	45	46	33	42	46	42	37	38	41	46	42	18
06	42	47	44	40	34	41	44	36	31	35	41	44	40	18
09	43	42	39	36	29	43	42	37	28	28	36	41	37	18
12	39	40	37	38	31	40	39	37	30	29	34	36	36	18
15	41	37	38	40	30	40	37	34	27	30	37	38	36	18
18	42	39	38	40	31	41	40	34	26	30	37	41	37	18
21	42	43	43	40	26	37	39	36	30	36	39	43	38	18
ALL	42	42	41	40	31	41	41	37	31	33	38	41	38	18
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	11	13	10	9	4	9	10	8	5	4	6	9	8	18
03	12	15	10	10	4	9	13	9	5	4	7	12	9	18
06	12	9	11	11	5	7	13	8	4	4	6	10	8	18
09	11	10	11	7	4	7	14	8	3	5	5	9	8	18
12	12	12	11	8	4	5	9	5	4	5	7	10	8	18
15	12	10	10	8	3	6	8	6	3	3	9	8	7	18
18	11	13	11	7	4	5	7	6	4	2	8	9	7	18
21	9	11	10	8	4	5	8	5	3	4	6	8	7	18
ALL	11	11	10	9	4	7	10	7	4	4	7	9	8	18
PERCENT OF HOURS WITH CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
00	2	3	4	3	2	3	4	3	1	1	2	3	3	18
03	4	4	4	3	2	3	5	3	1	1	3	3	3	18
06	5	3	3	5	2	2	6	3	1	1	1	2	3	18
09	5	3	3	4	1	2	4	3	1	2	2	3	3	18
12	5	5	4	4	0*	2	3	1	1	1	2	4	3	18
15	4	3	4	3	0*	2	2	2	0*	1	2	4	2	18
18	3	5	4	3	1	1	2	1	0*	0*	2	4	2	18
21	3	2	3	4	2	2	4	2	0*	0*	2	2	2	18
ALL	4	4	4	4	1	2	4	2	1	1	2	3	3	18
PERCENT OF HOURS WITH CEILING LESS THAN 200 FEET &/OR VISIBILITY LESS THAN 0.75 MILES														
00	2	3	2	2	1	1	2	1	0	0*	1	2	1	18
03	2	3	2	3	1	1	3	1	0*	0*	1	2	2	18
06	3	2	2	3	1	1	2	1	0*	0*	0*	1	1	18
09	4	2	2	2	1	1	1	1	0*	1	1	1	1	18
12	3	3	1	2	0*	0*	0*	0*	0*	1	1	3	1	18
15	3	2	1	2	0*	0	0	0	0	0*	1	2	1	18
18	2	4	3	2	1	0*	0*	0*	0	0	1	2	1	18
21	2	1	2	2	1	0	1	0*	0	0	2	1	1	18
ALL	2	3	2	2	1	1	1	1	0*	0*	1	2	1	18

NOTE 1:

* = VALUE > 0 AND < 0.5 PERCENT

(Derived from hourly data)

ELEV: 33Ft

Period of record (daily): 1973 -1990

NOTES:

= Mean number of days < .5 days

S = Pressure altitude in tens of feet (i.e., 50 = 500 feet)

* = Visibility is not considered, mist included when reported

& = Annual totals may differ from the sum of the monthly values because of rounding

+ = The predominant sky condition

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
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PERCENT OF HOURS WITH
CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES

00	49	54	57	54	57	64	67	61	50	51	45	50	55	18
03	55	57	57	56	57	62	67	61	51	51	45	52	56	18
06	54	54	56	57	56	62	66	61	51	52	46	51	55	18
09	57	58	55	55	54	63	62	60	53	52	53	52	56	18
12	56	57	53	50	49	57	57	55	50	53	51	51	53	18
15	55	56	52	50	47	50	57	54	47	53	51	51	52	18
18	52	56	53	50	52	58	55	57	49	47	49	53	18	18
21	52	55	55	55	54	62	61	61	53	50	47	48	54	18
ALL	54	56	55	53	53	61	62	59	50	52	48	56	54	18

PERCENT OF HOURS WITH
CEILING LESS THAN 3000 FEET AND/OR VISIBILITY LESS THAN 3.00 MILES

00	29	36	34	32	39	50	55	43	33	35	29	29	37	18
03	32	36	34	31	41	47	55	46	34	31	26	30	37	18
06	29	35	34	36	39	48	52	46	34	30	28	28	37	18
09	31	43	35	35	39	49	50	47	35	33	32	31	38	18
12	36	39	36	35	35	42	46	40	35	36	32	31	37	18
15	38	39	33	34	33	40	45	39	33	35	32	32	36	18
18	33	39	33	31	36	44	40	40	35	36	29	36	37	18
21	37	36	36	36	36	35	48	43	30	28	27	36	37	18
ALL	32	38	35	34	37	46	49	43	34	33	30	30	37	18

PERCENT OF HOURS WITH
CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES

00	12	17	15	16	26	33	38	30	17	18	13	13	20	16
01	13	14	12	16	27	32	42	31	19	16	10	12	20	18
06	13	14	12	19	20	33	38	33	20	14	11	10	20	18
09	12	19	13	17	19	33	35	32	18	15	14	12	20	18
12	14	16	15	17	17	32	28	18	15	16	15	19	16	18
15	17	14	15	16	15	24	31	26	17	16	15	15	18	18
18	14	16	15	16	16	28	30	28	13	19	12	19	18	18
21	12	15	16	17	19	27	32	32	18	17	11	11	19	18
ALL	13	16	14	17	19	29	35	30	18	16	13	13	19	18

PERCENT OF HOURS WITH
CEILING LESS THAN 500 FEET C/OR VISIBILITY LESS THAN 1.00 MILES

00	2	3	2	3	5	16	20	16	5	8	3	3	7	18
01	2	4	1	3	6	16	24	16	6	6	2	1	7	18
06	1		1	4	6	14	20	18	8	5	2	3	7	18
09	2	5	1	5	4	14	18	17	8	6	4	3	7	16
12	3	4	2	4	6	10	15	12	5	6	5	3	6	18
15	4	3	2	4	5	10	11	12	6	7	4	3	6	18
18	3	3	3	3	5	11	13	8	3	13	6	3	6	18
21	2	3	3	5	5	12	15	15	6	6	2	3	7	18
ALL	2	4	2	5	6	13	17	15	7	7	3	3	7	18

PERCENT OF HOURS WITH
CEILING LESS THAN 200 FEET AND/OR VISIBILITY LESS THAN 0.75 MILES

00	0*	0*	1	1	1	5	4	4	1	3	1	1	2	18
01	1	0*	1	1	2	5	4	3	2	2	1	0*	2	18
06	0*	0*	0	2	3	3	3	3	2	2	1	1	2	18
09	1	2	1	2	1	3	3	3	2	2	1	1	2	18
12	1	1	1	2	1	2	3	1	1	2	1	1	1	18
15	2	1	0*	0*	2	2	2	1	1	2	2	1	1	18
18	2	1	0*	0*	1	3	2	2	1	3	2	1	1	18
21	1	0*	1	2	1	3	3	1	3	1	1	1	2	18
ALL	1	1	1	1	1	3	3	3	1	2	1	1	2	18

NOTE :

* = VALUE > 0 AND < 0.5 PERCENT

(Derived from hourly data)

ELEV: 171Ft

Period of record (daily): 1973 -1990

NOTES:

= Mean number of days < .5 days

\$ = Pressure altitude in tens of feet (i.e., 50 = 500 feet)

* = Visibility is not considered, mist included when reported

& = Annual totals may differ from the sum of the monthly values because of rounding

† = The predominant sky condition

HOURLY (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YEARS
PERCENT OF HOURS WITH CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES														
00	44	49	41	42	49	46	43	36	34	44	47	39	43	18
03	46	48	41	44	46	49	43	39	32	44	46	41	43	18
06	44	48	43	46	45	48	44	40	35	45	44	39	43	18
09	44	47	39	43	42	40	34	36	34	46	50	41	41	18
12	45	47	39	41	39	35	29	30	33	44	48	42	39	18
15	48	46	39	42	41	34	25	29	31	42	50	42	39	18
18	43	45	40	41	41	36	26	29	34	45	50	46	39	18
21	43	49	40	43	46	40	30	34	36	44	50	39	41	18
ALL	45	47	40	43	44	41	34	34	34	44	48	40	41	18
PERCENT OF HOURS WITH CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	37	41	36	36	44	42	35	29	29	36	39	33	36	18
03	39	43	36	40	43	44	37	33	27	36	39	34	38	18
06	36	42	40	40	42	44	37	34	30	38	38	33	38	18
09	39	41	34	38	39	37	28	31	29	39	44	36	36	18
12	39	42	35	38	35	31	23	26	28	38	41	35	34	18
15	40	42	34	38	37	29	19	24	26	37	45	37	34	18
18	37	41	37	38	37	33	22	23	26	38	45	36	34	18
21	36	42	36	38	42	36	25	28	30	36	42	34	35	18
ALL	38	42	36	38	40	37	28	28	28	37	42	35	36	18
PERCENT OF HOURS WITH CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES														
00	28	32	28	29	36	32	29	21	19	22	28	26	28	18
03	30	32	30	30	36	33	29	26	17	23	27	27	28	18
06	28	30	32	30	34	33	29	26	22	25	27	25	28	18
09	31	33	28	31	31	30	18	23	20	28	33	27	28	18
12	31	35	29	30	28	22	14	19	21	27	32	28	26	18
15	32	36	29	31	28	21	11	16	19	27	35	29	26	18
18	28	33	31	32	29	24	14	15	17	25	34	29	26	18
21	26	30	29	32	33	27	18	18	18	22	30	26	26	18
ALL	29	33	30	30	32	28	20	20	19	25	31	27	27	18
PERCENT OF HOURS WITH CEILING LESS THAN 500 FEET &/OR VISIBILITY LESS THAN 1.00 MILES														
00	16	17	17	18	23	23	23	13	8	12	15	14	17	18
03	17	17	18	19	24	24	24	16	7	11	12	15	17	18
06	15	18	21	21	22	24	22	17	13	13	11			

(Derived from hourly data)

ELEV: 128Ft

Period of record (daily): 1973 -1990

NOTES:

† = The predominant sky condition

MOOR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
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PERCENT OF HOURS WITH
CEILING LESS THAN 5000 FEET &/OR VISIBILITY LESS THAN 5.00 MILES

00	81	81	75	75	79	86	82	86	81	81	80	77	82	16
03	80	83	81	79	82	85	84	86	81	77	80	80	80	16
06	79	81	79	74	78	80	84	84	77	80	79	77	79	18
09	78	76	76	73	78	81	85	81	76	75	76	80	76	18
12	74	75	77	73	76	77	83	80	76	78	75	73	76	18
15	77	77	79	73	74	76	82	78	76	76	74	74	76	18
18	75	73	77	74	77	79	81	76	81	77	81	82	77	18
21	84	79	80	76	72	79	78	80	80	82	80	81	79	18
ALL	80	78	74	77	80	82	82	80	78	78	78	78	79	18

PERCENT OF HOURS WITH
CEILING LESS THAN 3000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES

Q3	80	80	74	73	77	82	80	83	80	80	79	75	79	18
Q7	80	81	77	80	82	82	84	79	76	78	75	74	79	18
Q6	78	79	78	71	76	78	83	81	75	77	77	76	77	18
Q9	76	74	74	70	74	78	82	76	74	72	74	76	75	18
12	71	72	76	70	74	73	79	77	73	76	71	74	74	18
15	75	75	77	70	74	73	80	75	73	73	72	72	74	18
18	81	73	70	68	74	76	73	76	74	79	81	75	74	18
21	82	78	75	74	69	77	75	77	79	80	78	81	77	18
ALL	78	77	76	72	74	77	80	79	76	76	76	77	76	18

PERCENT OF HOURS WITH
CEILING LESS THAN 1000 FEET &/OR VISIBILITY LESS THAN 3.00 MILES

00	43	42	40	39	39	50	54	49	47	48	43	42	45	18
03	43	42	44	40	43	47	55	50	44	45	39	44	45	18
06	40	42	38	32	38	42	53	49	39	45	38	43	42	18
09	31	30	30	27	37	40	51	48	38	33	32	36	36	18
12	29	28	30	26	35	37	47	45	36	33	27	28	33	18
15	28	27	30	26	34	35	49	43	36	33	29	32	33	18
18	38	32	30	24	33	40	49	45	36	33	36	41	36	18
21	40	38	41	32	33	40	50	46	39	43	38	43	41	18
ALL	36	35	35	31	36	41	51	47	40	39	35	38	39	18

PERCENT OF HOURS WITH
CEILING LESS THAN 500 FEET 1/OR VISIBILITY LESS THAN 1.00 MILES

00	11	9		10	16	26	30	26	17	15	10	9	16	18
03	9	6	8	11	16	24	30	29	16	13	9	10	15	18
06	8	6	6	8	17	21	28	24	16	14	6	8	14	18
09	6	6	7	6	15	19	20	26	15	12	6	6	13	18
12	7	7	7	7	15	20	26	23	16	13	7	7	13	18
15	6	7	7	8	14	19	29	21	16	13	7	6	13	18
18	7	8	7	7	15	19	29	24	16	14	7	8	13	18
21	8	11	9	9	17	23	30	27	17	16	7	7	15	18
24	8	7	8	8	16	23	29	24	16	14	8	8	14	18

PERCENT OF HOURS WITH
CEILING LESS THAN 200 FEET AND/OR VISIBILITY LESS THAN 0.75 MILES

00	4	2	2	4	7	11	16	13	6	6	3	2	6	18
03	2	2	3	5	6	13	12	5	3	1			6	16
06	4	1	3	3	7	10	16	12	7	3	2	2	6	16
09	1	2	2	3	5	8	14	14	5	4	1	1	5	18
12	2	2	2	2	5	8	12	11	6	5	1	1	5	18
15	1	2	1	3	5	8	12	9	6	4	2	1	5	18
18	2	2	2	3	6	9	14	12	6	3	1	1	5	18
21	1	2	2	5	7	9	12	15	2	6	2	1	8	6
24	2	2	2	3	6	9	13	12	6	5	2	2	5	18