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13. ABSTRACT This publication contains isoline charts showing monthly mean and extreme temperatures, mean number of thunderstorm days, precipitation amounts, frequencies of two categories of flying conditions, and other parameters, all for the European-Northern Africa-Mid East area.			

DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MAC)
APO New York 09332

2WW PAMPHLET 105-13
31 January 1972

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

This pamphlet provides summarized data of some of the most important meteorological parameters affecting Europe. Both mean and extreme values of temperatures by month are shown in isotherm form. Other factors, as precipitation and thunderstorm activity, are reflected in charts of average values. The pamphlet will be useful in general planning for military operations throughout the year.

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OPR: DNC

DISTRIBUTION: (See signature page)

Approved for public release; distribution unlimited

SECTION 1

Introduction

1-1. General. This pamphlet is intended to provide both meteorologists and operations personnel a ready climatological and planning reference for the European theater. It is largely an extension and continuation of the data presented on charts in 2 Weather Wing Pamphlet 105-6, Climatology, 15 November 1965. The main areas of concern in that earlier publication were the eastern portions of Europe. In this more complete volume data for western Europe, northern Africa and Near East have been added.

The elements shown in this publication are frequently considered in the initial planning stage for various military operations. The charts show average frequencies and limits of weather phenomenon computed from observations taken over a period of years. They are not a forecast of conditions for any particular year, month or day. Application of these climatic data to planning detailed specific operations is often unwarranted. In case of doubt, an applied climatology study of a specific problem should be requested.

The assistance of Mr. Willi Laun in compiling, editing and plotting the thousands of pieces of data for this publication is gratefully acknowledged. His work has been indispensable to the completion of this project.

1-2. Data and Analysis Limitations. The isolines on the charts in this pamphlet were drawn after summarized data from various sources were plotted at numerous points. The most current climatological data available were used; however, many of the original weather observations were made prior to World War II. Increased urbanization and industrialization affect some parameters, particularly visibility values, which have probably decreased near industrial areas in recent years. The visibility values shown here are therefore more representative of present day rural and smaller industrial areas than of large industrial areas. The magnitude of the effect obviously depends on the size of the industrial area and the distance from it. Thus, precise quantitative values of the effect would not be meaningful over any large area, even if they were available.

Isoline analyses are always somewhat unsatisfactory because the plotted data are strictly representative only for individual stations. The use of synoptic observations from

standard instrument shelters reduces this effect, except for visibility which is highly discontinuous. The effects from all factors which tend to make observations non-representative for a large area are not known for each station. Therefore, unless an obvious reason for non-representativeness (such as a mountain station) existed, the data have been accepted as representative. In mountainous areas, often only one isopleth was drawn because the gradients were too great to be adequately described by the isopleth interval used. In some cases, "spot" values were plotted to depict the large differences encountered with changes in elevation.

Extreme maximum and minimum temperature, sometimes termed absolute extremes, vary greatly from point to point and from year to year. Another aspect which tends to confuse these presentations is that the period of record of the original data varied considerably from one station to another. As a rough estimate the indicated extreme values may be expected to occur approximately once in 20 years.

SECTION 2

Chart Descriptions and Data Sources

2-1. Temperature (48 charts). Temperature charts include

- a. Monthly mean daily maximums.
- b. Monthly mean daily minimums.
- c. The monthly extremes of temperature, all in degrees fahrenheit.

2-2. Precipitation (24 charts).

- a. Monthly mean precipitation in inches.
- b. Monthly mean number of days with measurable precipitation (at least 0.004 inches liquid).

2-3. Thunderstorms (12 charts). These show the monthly mean number of thunderstorm days for each month. A thunderstorm day is a day in which thunder is audible from the point of observation.

2-4. Ceiling and Visibility (48 charts). These charts for each month show the percent frequency of occurrence of ceiling and/or visibility less than 300 feet/1 mile and 1500 feet/3 miles at 0800 and 1400 local standard time.

2-5. Sea Temperature (24 charts). These charts for each month show the mean water temperature and mean minimum water temperature for each month. They have been extracted from the Oceanographic Atlas of the North Atlantic Ocean, Section II, Physical Properties, of the U.S. Naval Oceanographic Office.

2-6. Aircraft Icing (12 charts). One chart has been included for each of the four seasons for aircraft flying at 5,000, 10,000 and 15,000 feet MSL. Very little icing, if any, should be expected above 15,000 feet except near large cumulus-type buildups. Data on these charts have been taken from Air Weather Service Technical Report 194, Climatological Probability of Aircraft Icing. Methods of determining these probabilities are described therein.

2-7. Data Sources and References

a. Air Weather Service Technical Report 194, Climatological Probability of Aircraft Icing, 1967.

b. U.S. Naval Oceanographic Office, Pub No. 700, Oceanographic Atlas of the North Atlantic Ocean, Section II, Physical Properties, 1967.

c. Great Britain Meteorological Office, Tables of Temperature, Relative Humidity and Precipitation for the World, Part III, Europe and the Atlantic Ocean North of 35°N, 1958.

d. NIS Weather Summaries for many countries, (dates vary).

e. 3 Weather Wing SS, Ceiling - Visibility Summaries (Europe), 1964.

f. USAF Environmental Technical Applications Center, Worldwide Airfield Climatic Data, Volumes II, IX, X, 1968-71.

g. 2 Weather Wing Pamphlet 105-6, Climatology, 1965.

2-7 Snowfall Days (12 charts).

A snowfall day is one during which falling snow is observed, regardless of whether there is snow accumulation.

SECTION 3

Climatic Charts

3-1. Chart Numbering System. The first digit of the following page numbers indicates the section which corresponds to the month, except for section 13 which contains seasonal charts. The second digit indicates the type of chart, which remains the same throughout all months. For example, chart 5-4 is the May Extreme Minimum Temperature and chart 11-5 is the November Mean Precipitation. The order of the charts, which is shown below, is the same in all months.

a. Monthly Charts:

- 1 Extreme Maximum Temperature
- 2 Mean Maximum Temperature
- 3 Mean Minimum Temperature
- 4 Extreme Minimum Temperature
- 5 Mean Precipitation (Inches)
- 6 Mean Number of Days with Precipitation
- 7 Mean Number of Thunderstorm Days
- 8 Frequency of Ceiling/Visibility Below 300 ft/
1 mi, 0800 LST
- 9 Frequency of Ceiling/Visibility Below 300 ft/
1 mi, 1400 LST
- 10 Frequency of Ceiling/Visibility Below 1500 ft/
3 mi, 0800 LST
- 11 Frequency of Ceiling/Visibility Below 1500 ft/
3 mi, 1400 LST

- 12 Minimum Sea Surface Temperature (°F)
- 13 Mean Sea Surface Temperature (°F)
- 14 Mean Number of Snowfall Days
- b. Season Charts
 - 13-1 Icing Probability, 5000 ft, Winter
 - 13-2 Icing Probability, 10,000 ft Winter
 - 13-3 Icing Probability, 15,000 ft, Winter
 - 13-4 Icing Probability, 5,000 ft, Spring
 - 13-5 Icing Probability, 10,000 ft Spring
 - 13-6 Icing Probability, 15,000 ft Spring
 - 13-7 Icing Probability, 5,000 ft Summer
 - 13-8 Icing Probability, 10,000 ft Summer
 - 13-9 Icing Probability, 15,000 ft Summer
 - 13-10 Icing Probability, 5,000 ft Autumn
 - 13-11 Icing Probability, 10,000 ft Autumn
 - 13-12 Icing Probability, 15,000 ft Autumn

- c. Locator Charts
 - 14-1 For Ceiling/Visibility and Thunderstorm Days
 - 14-2 For Precipitation and Temperature
 - 14-3 For Snowfall Days

3-2 Charts. The climatic charts follow in numerical order.



SAMUEL G. [Name obscured] Capt, USAF
Chief, Administration Division

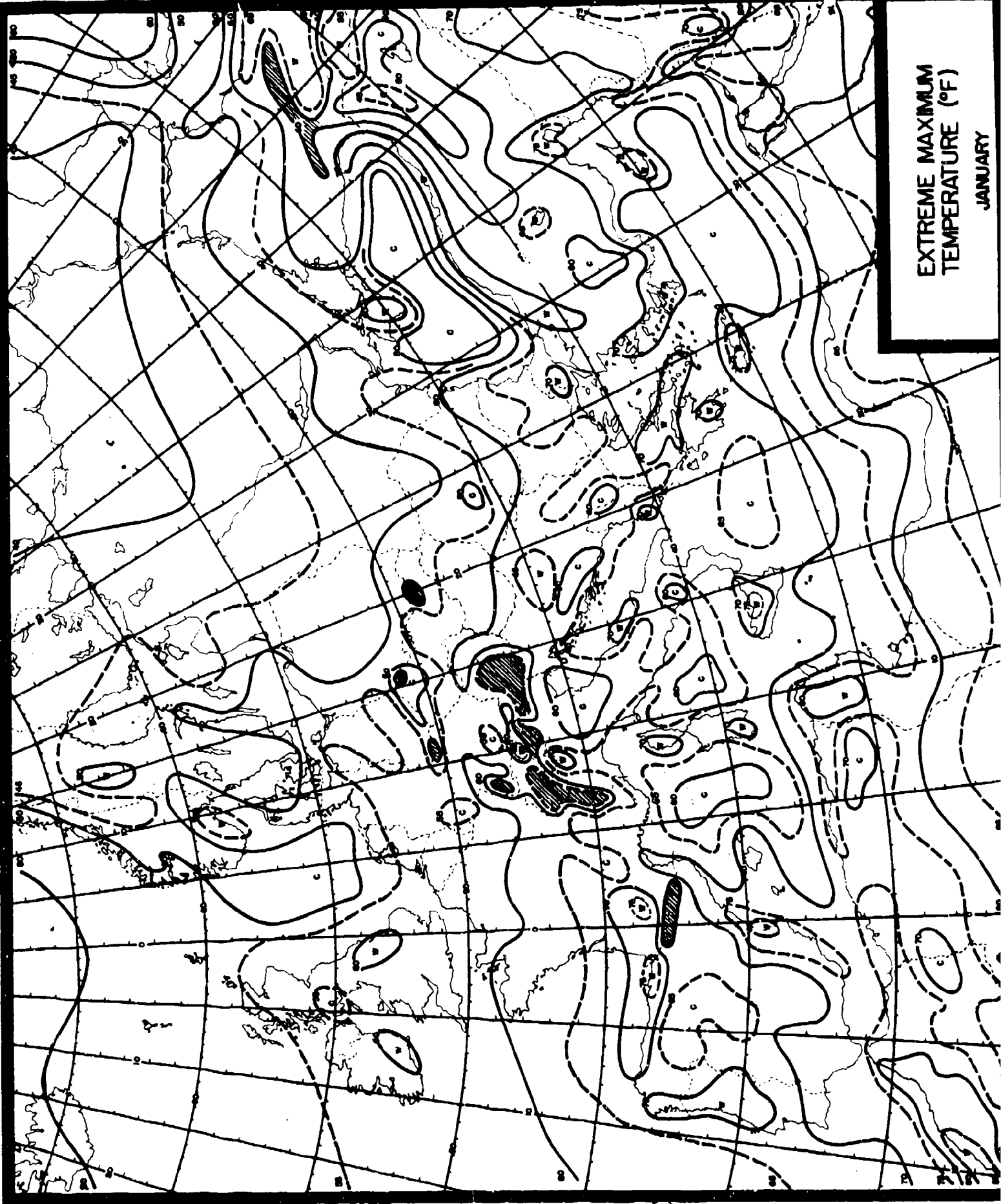
JAMES M. BURKHART, Colonel, USAF
Commander

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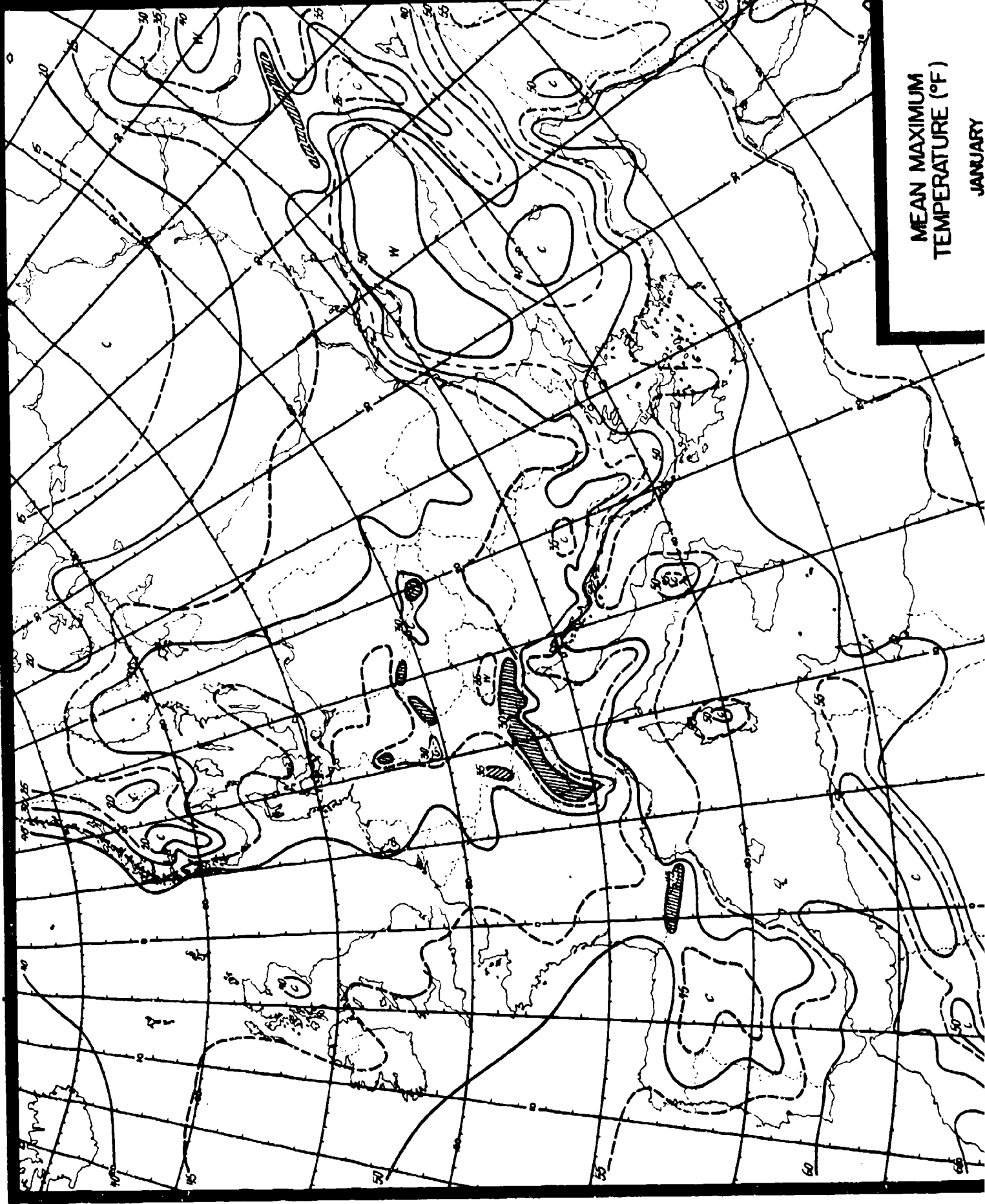
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- ETAC, Navy Yard Annex, Bldg 159, Washington D. C. 20332 - 2
- DDC, Cameron Station, Alexandria, VA 22314 - 20
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- 1 WMG, AFO San Francisco 96553 - 2
- 3 WMG, Offutt AFB, NE 68113 - 2
- 4 WMG, Ent AFB, CO 80912 - 2
- 5 WMG, Leagley AFB, VA 23365 - 2
- 6 WMG, Andrews AFB, Washington, D.C. 20332 - 2
- 7 WMG, Scott AFB, IL 62225 - 2
- 9 MRMG, McClellan AFB, CA 95652 - 2
- Fleet Weather Central, FPO 09540 - 1
- Dept of Weather Training 3345 Technical School, Chamute AFB, IL 61866 - 1

EXTREME MAXIMUM
TEMPERATURE (°F)

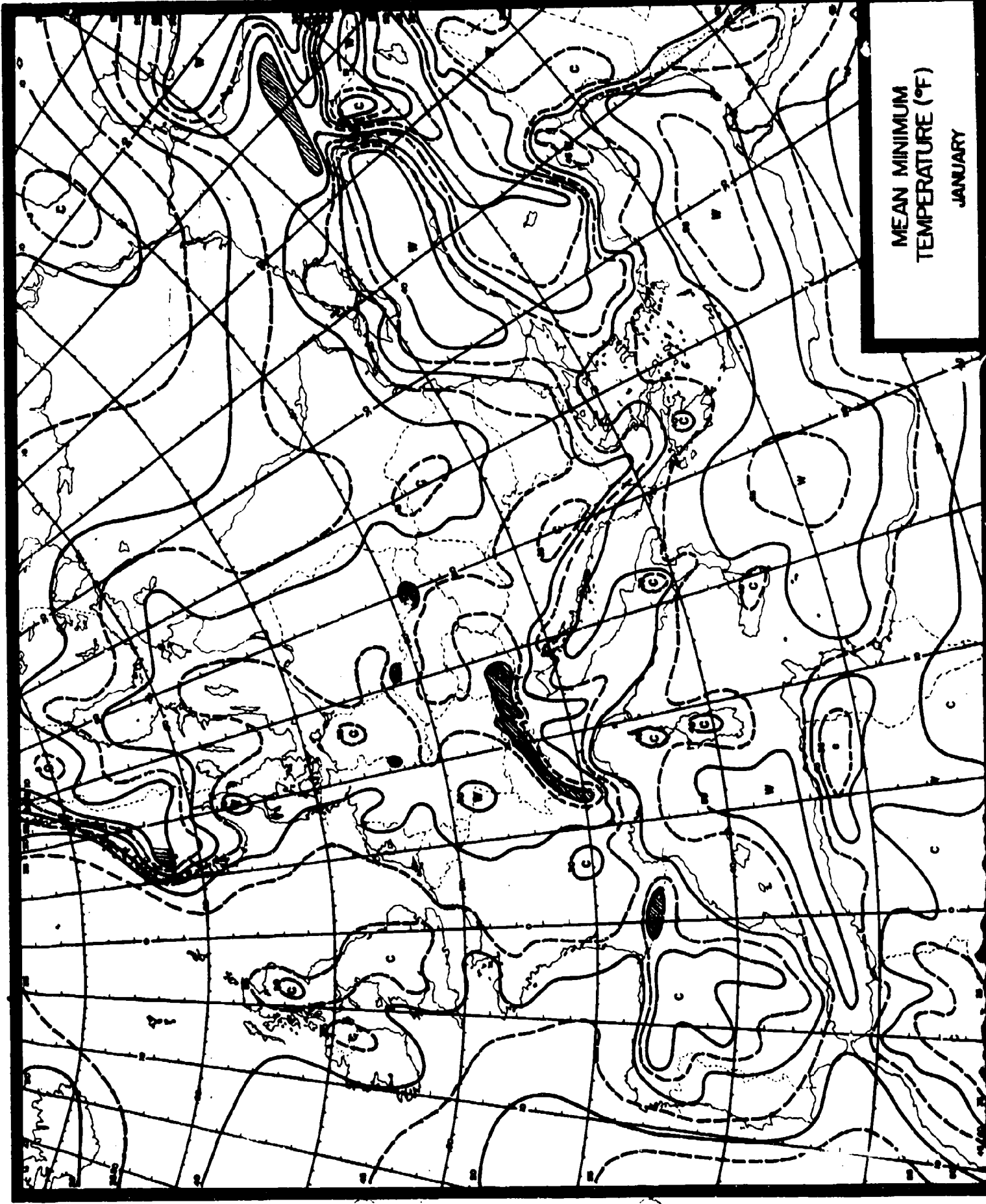
JANUARY



MEAN MAXIMUM
TEMPERATURE (°F)
JANUARY

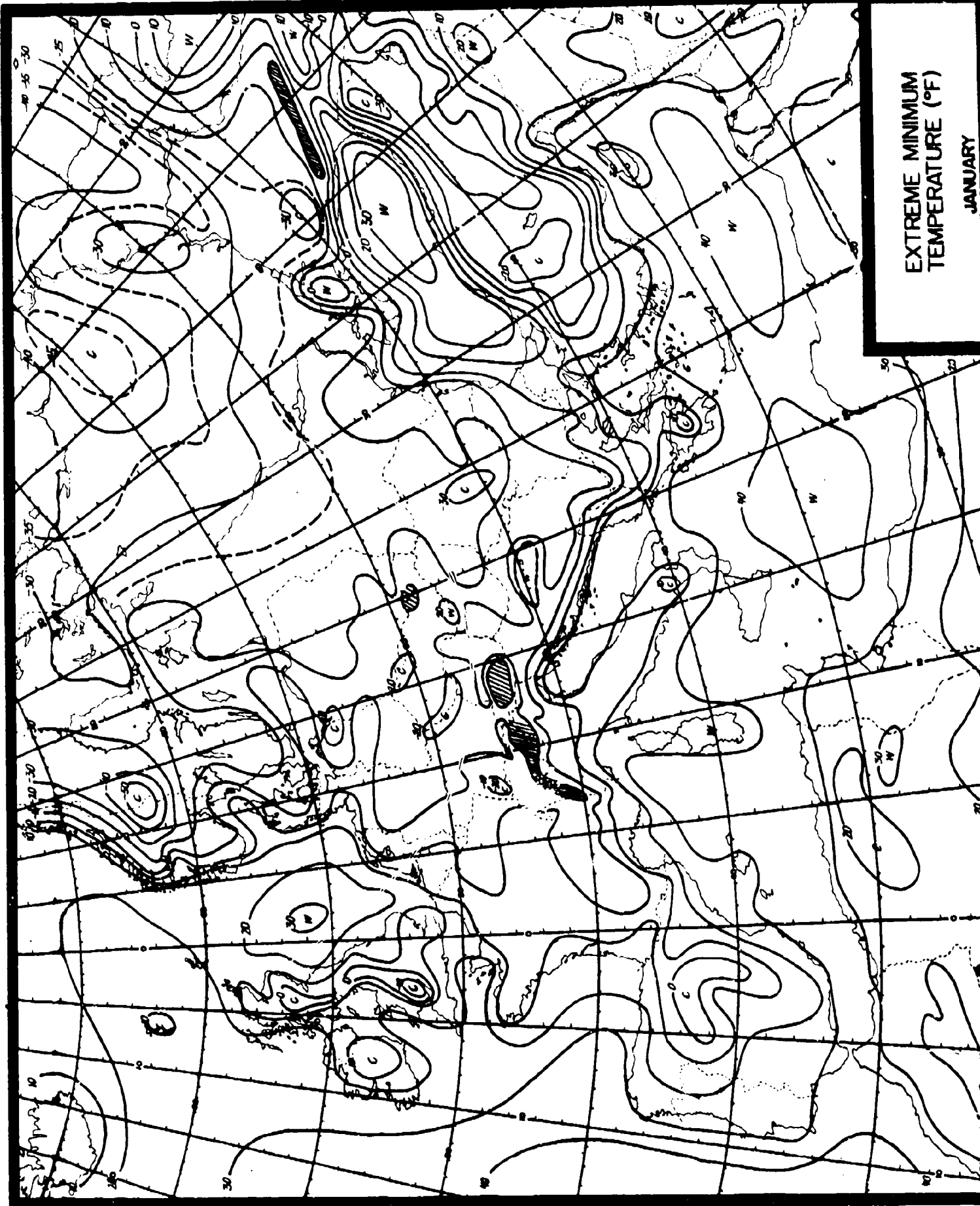


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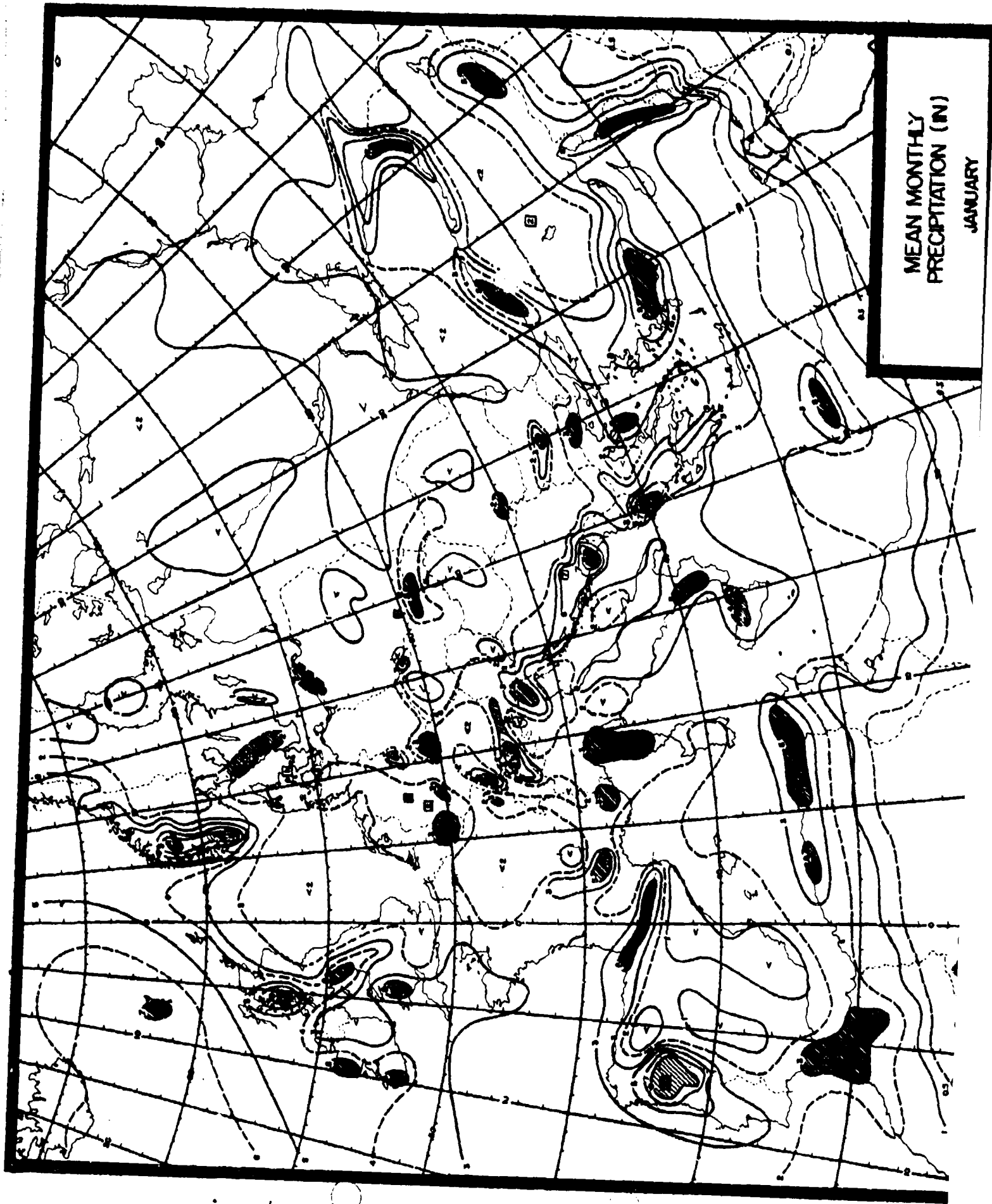


EXTREME MINIMUM
TEMPERATURE (°F)

JANUARY

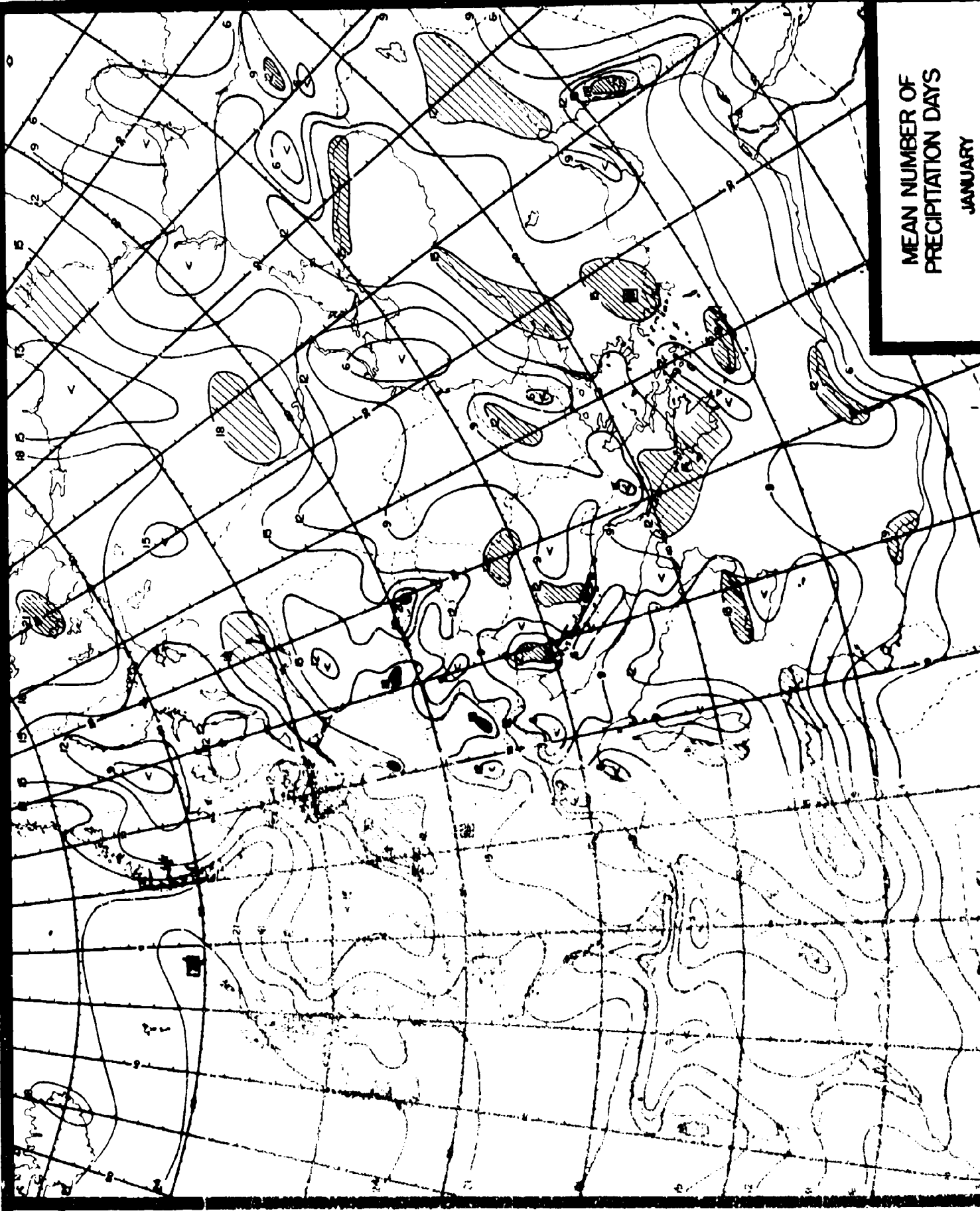


MEAN MONTHLY
PRECIPITATION (IN)
JANUARY

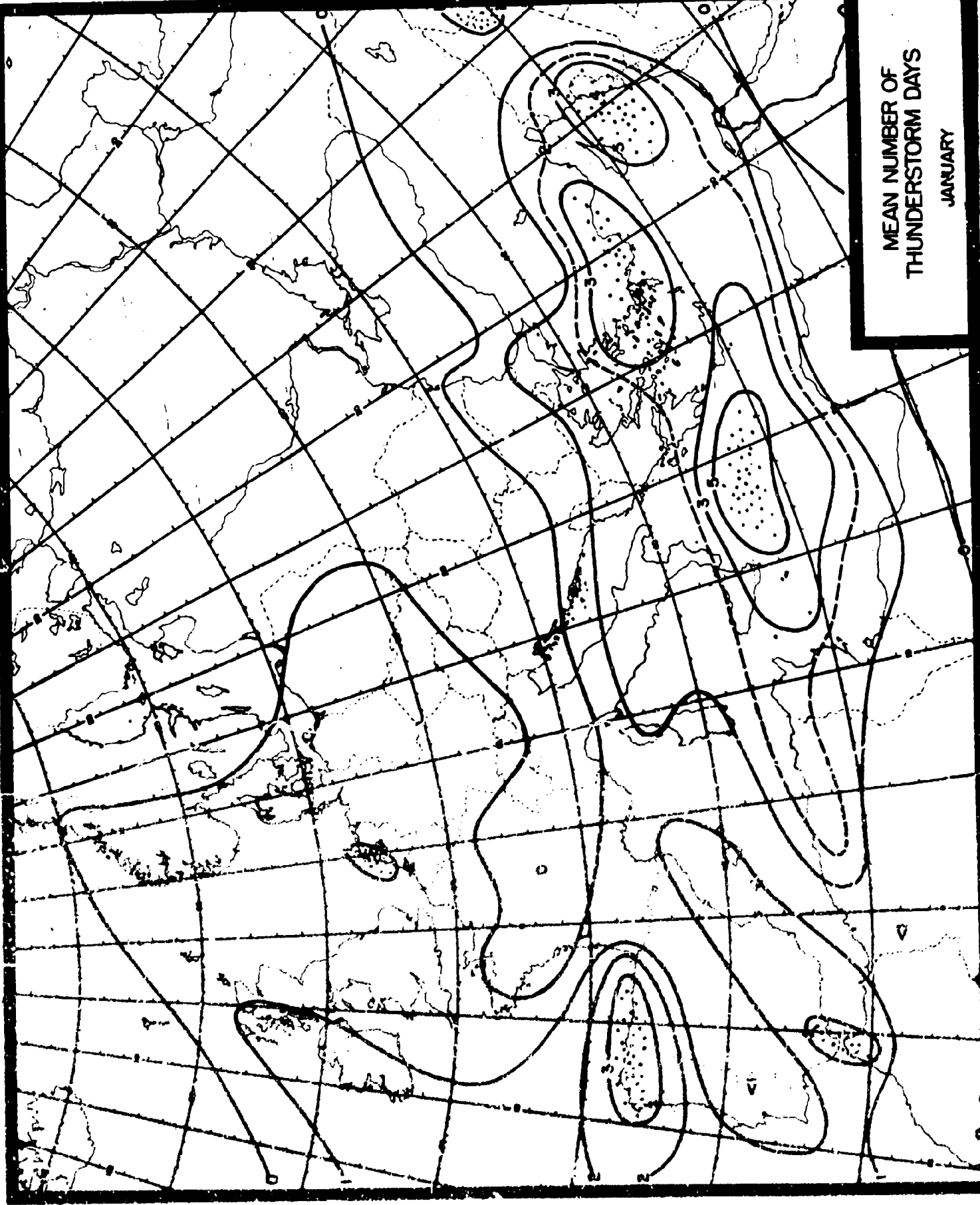


U.S. DEPARTMENT OF COMMERCE
BUREAU OF METEOROLOGY
WASHINGTON, D.C.

MEAN NUMBER OF
PRECIPITATION DAYS
JANUARY

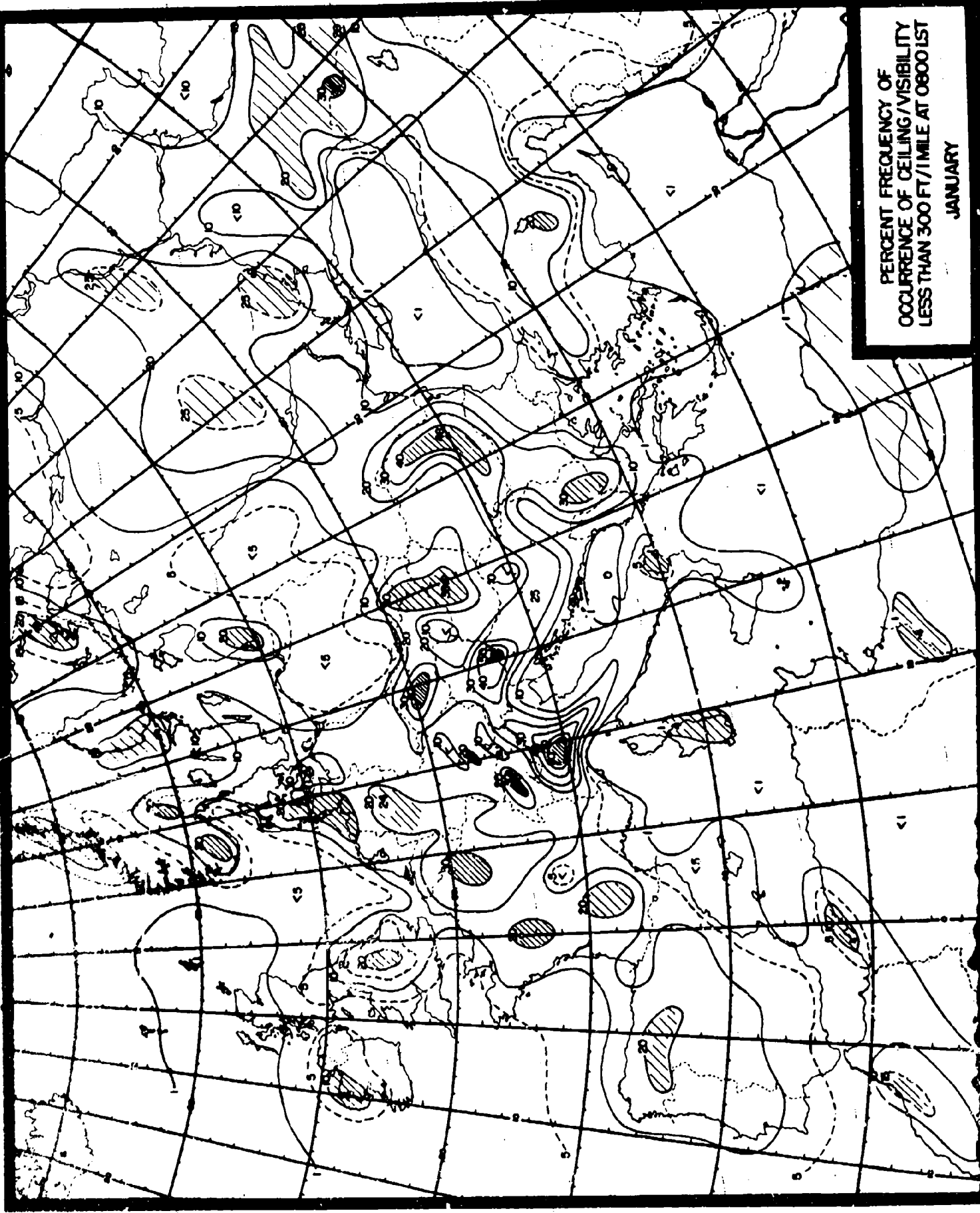


MEAN NUMBER OF
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JANUARY



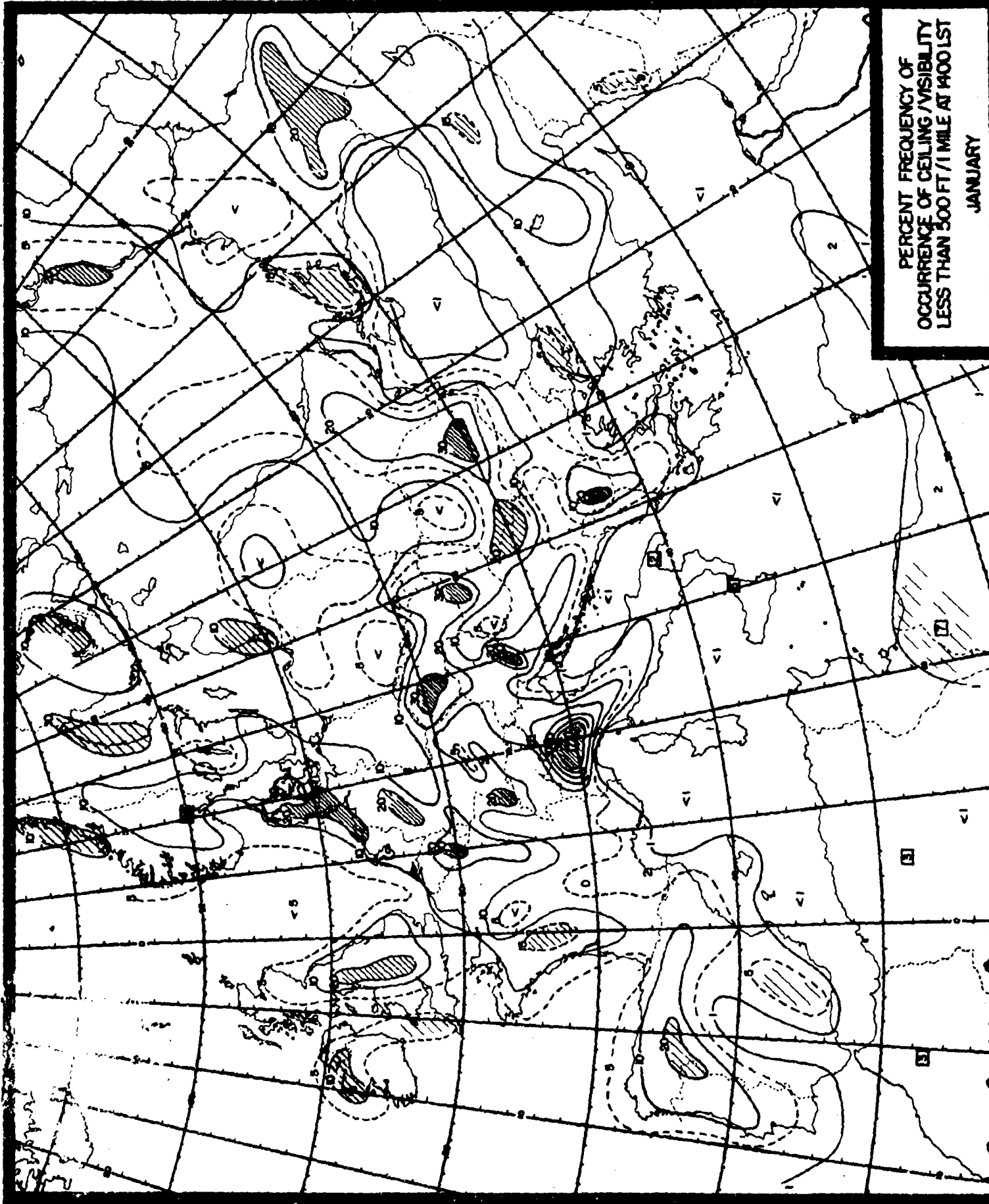
2 WWP 105-13 (C-1)

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
JANUARY

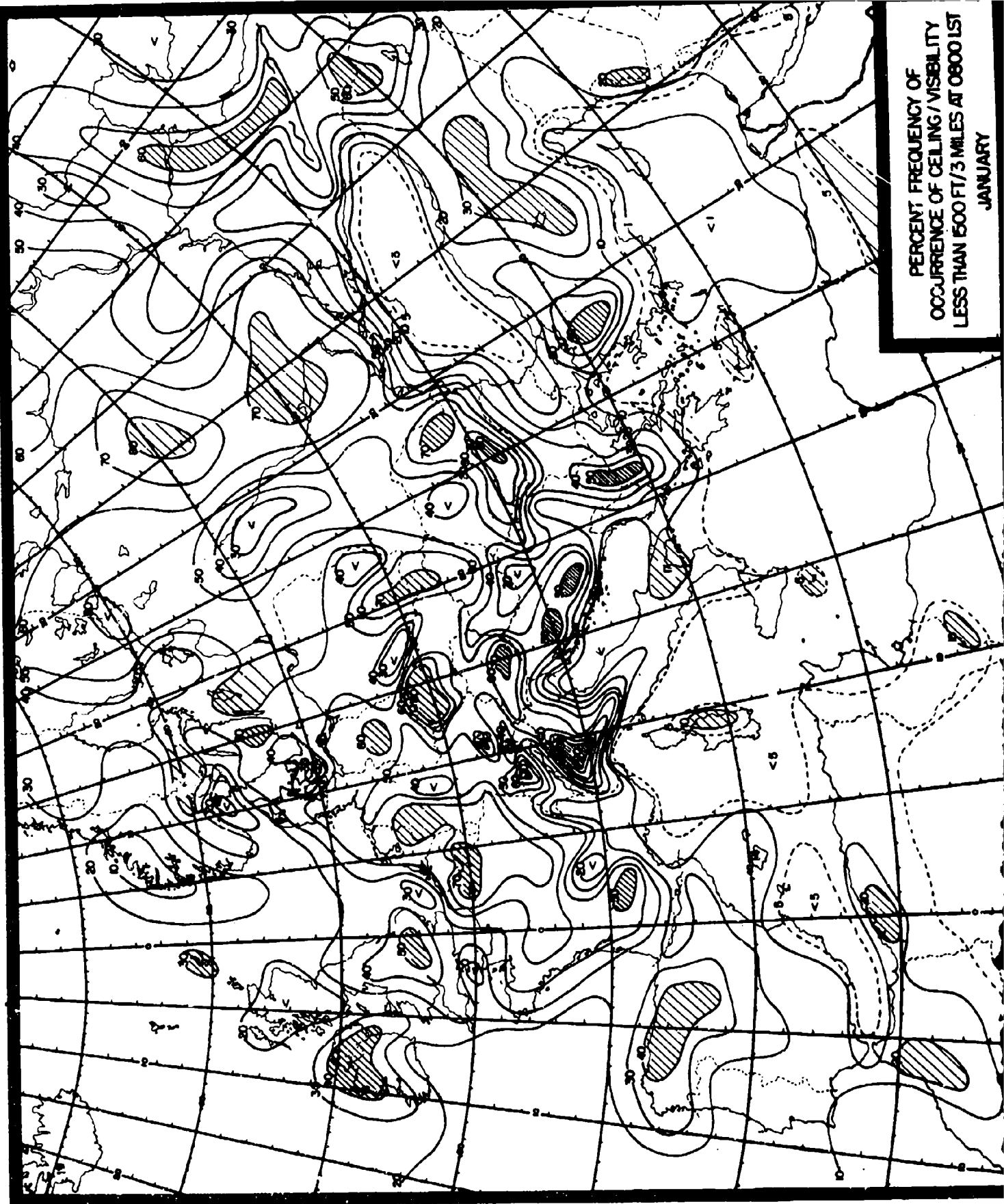


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST

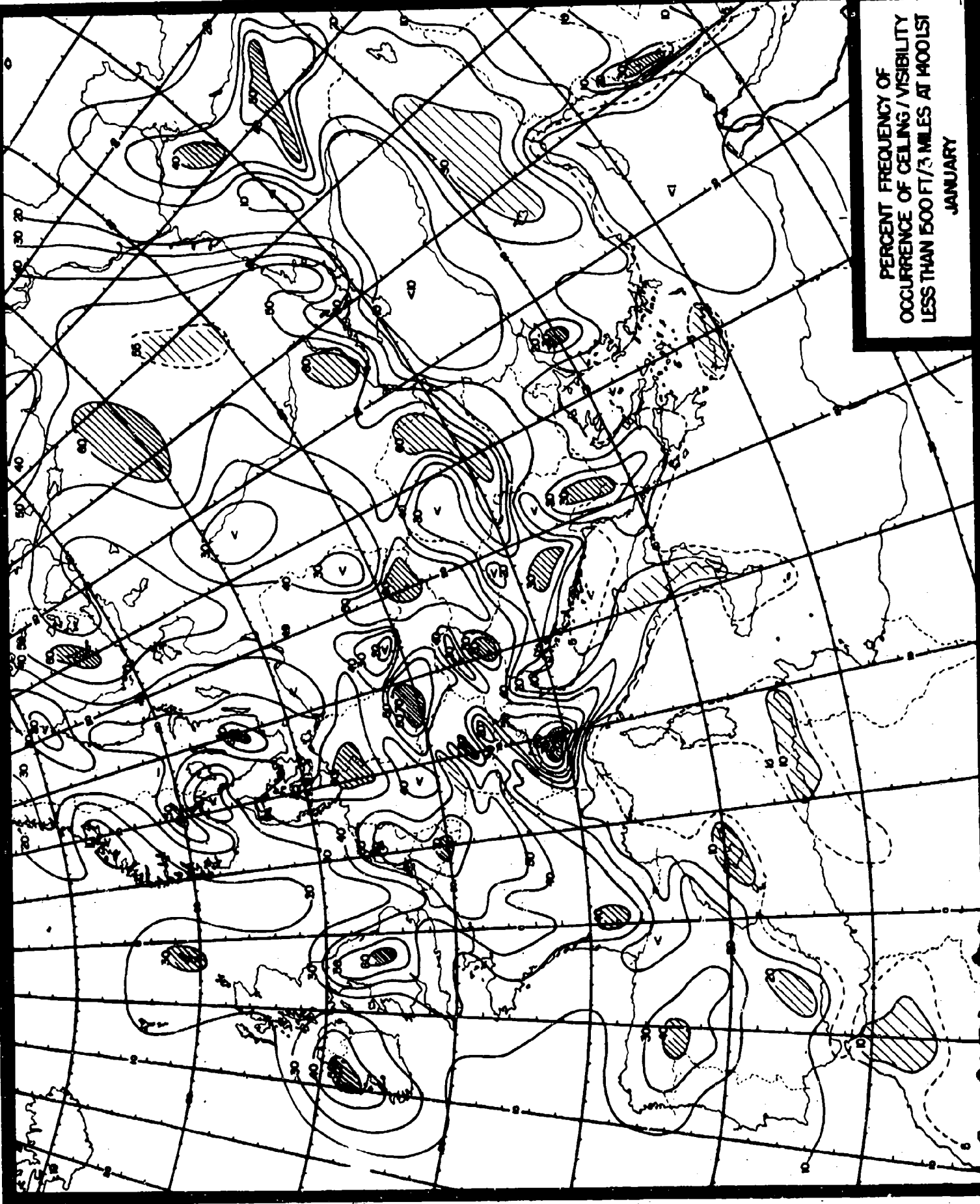
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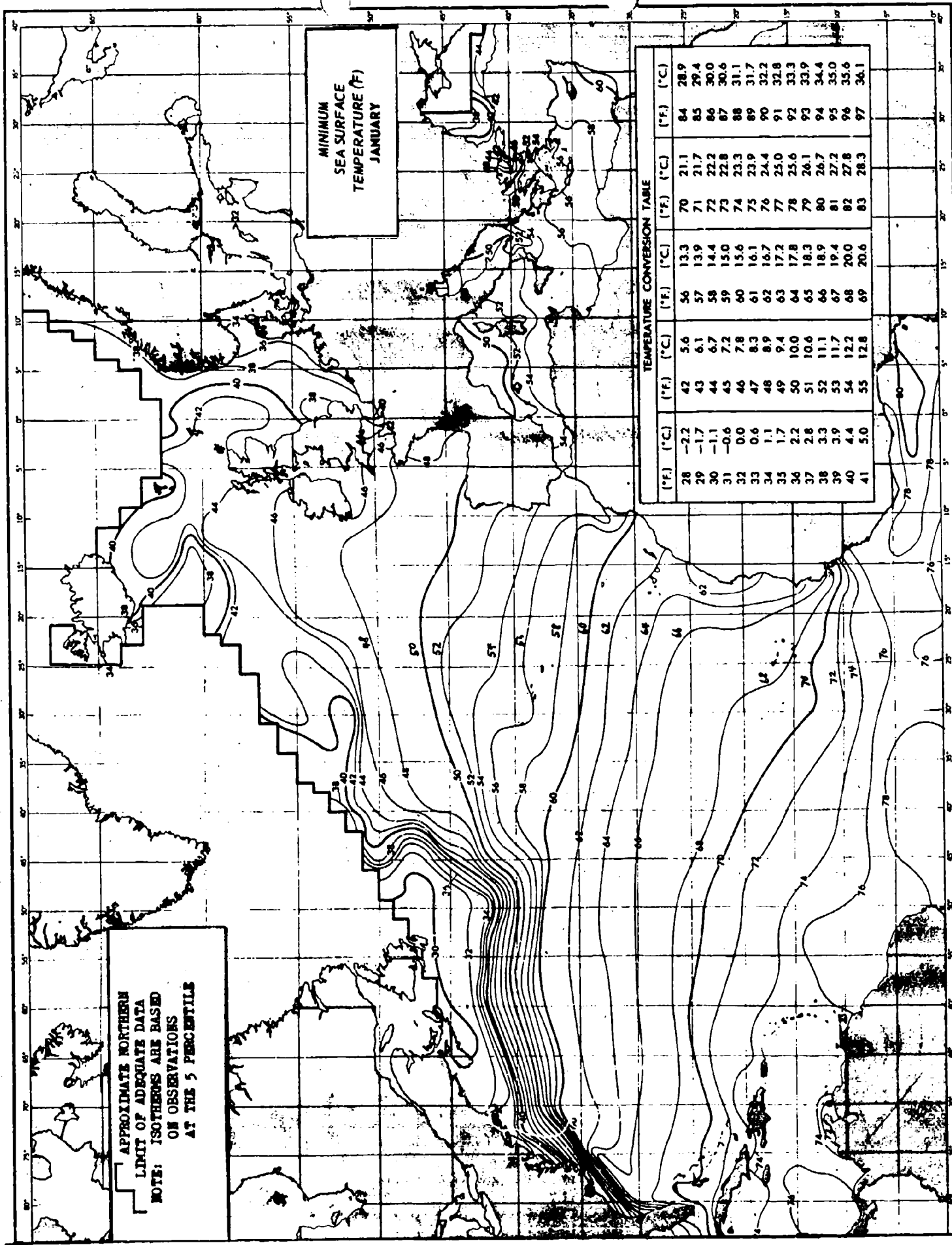


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 0800 LST
JANUARY



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 4001ST
JANUARY



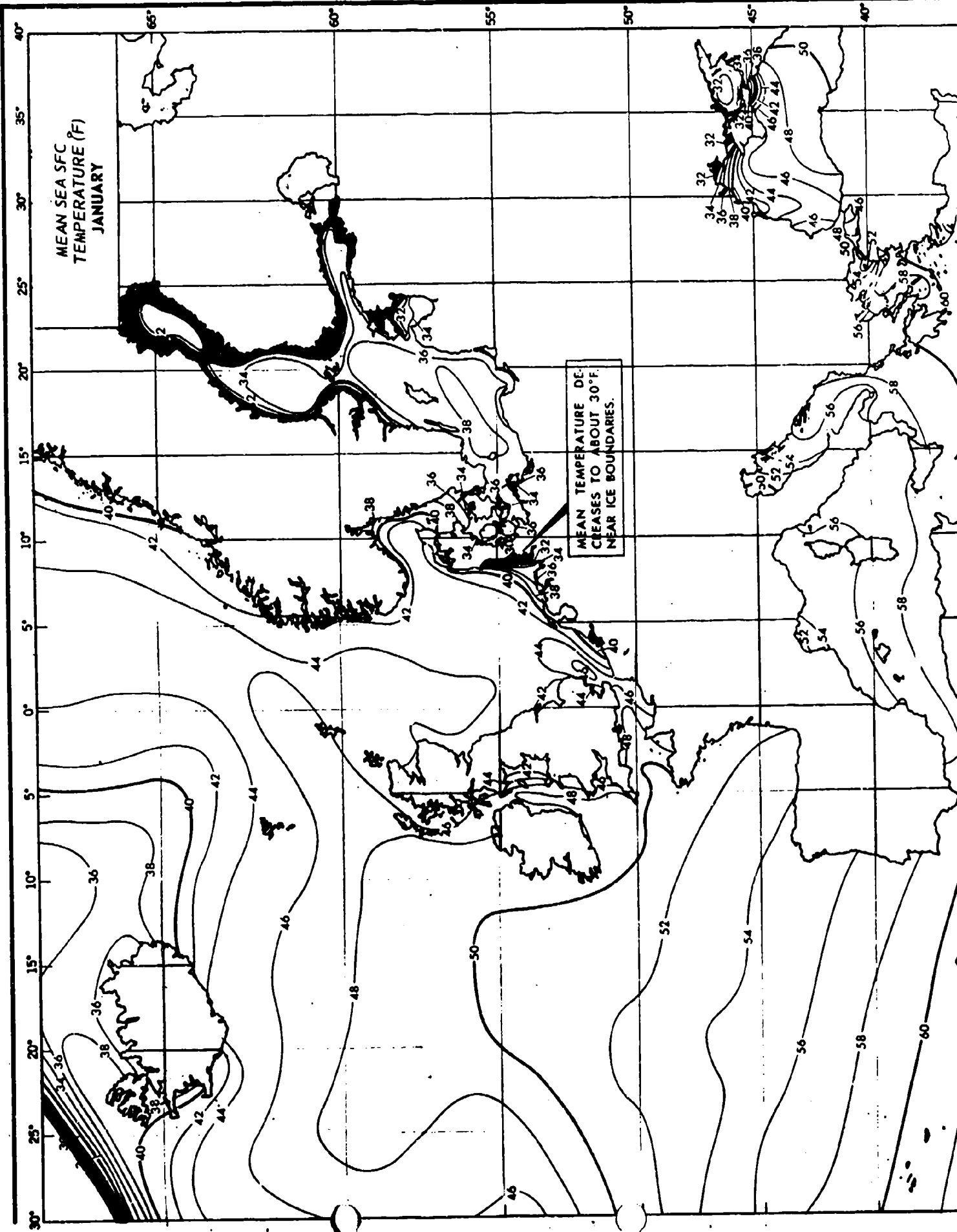


**MINIMUM
SEA SURFACE
TEMPERATURE (F)
JANUARY**

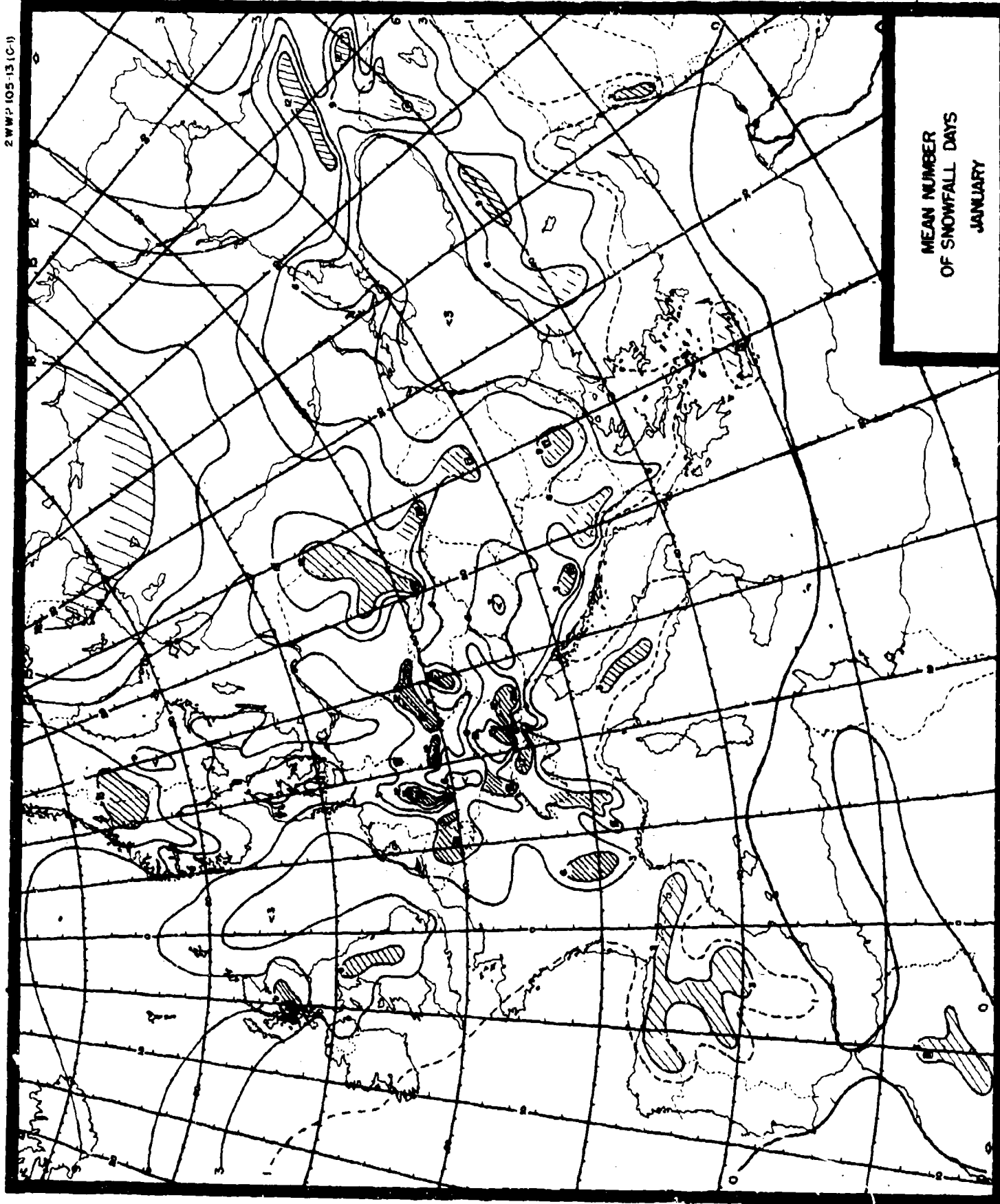
TEMPERATURE CONVERSION TABLE

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29	-1.7	43	6.1	57	13.9	71	21.7
30	-1.1	44	6.7	58	14.4	72	22.2
31	-0.6	45	7.2	59	15.0	73	22.8
32	0.0	46	7.8	60	15.6	74	23.3
33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
35	1.7	49	9.4	63	17.2	77	25.0
36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.6	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
						92	33.3
						93	33.9
						94	34.4
						95	35.0
						96	35.6
						97	36.1

APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA
NOTE: ISOOTHERMS ARE BASED
ON OBSERVATIONS
AT THE 5 PERCENTILE



2 WWP 105-13 (C-1)

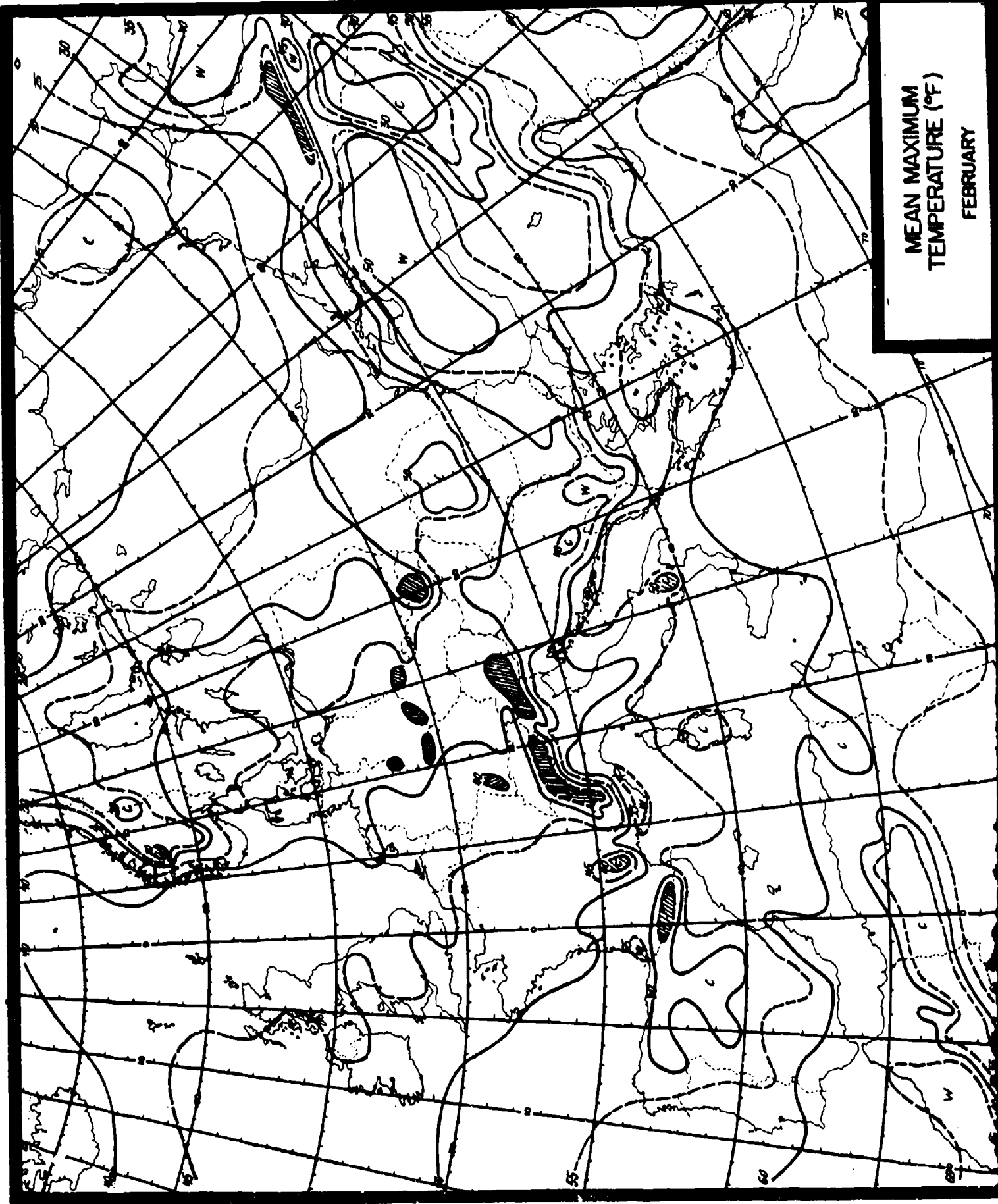


MEAN NUMBER
OF SNOWFALL DAYS
JANUARY

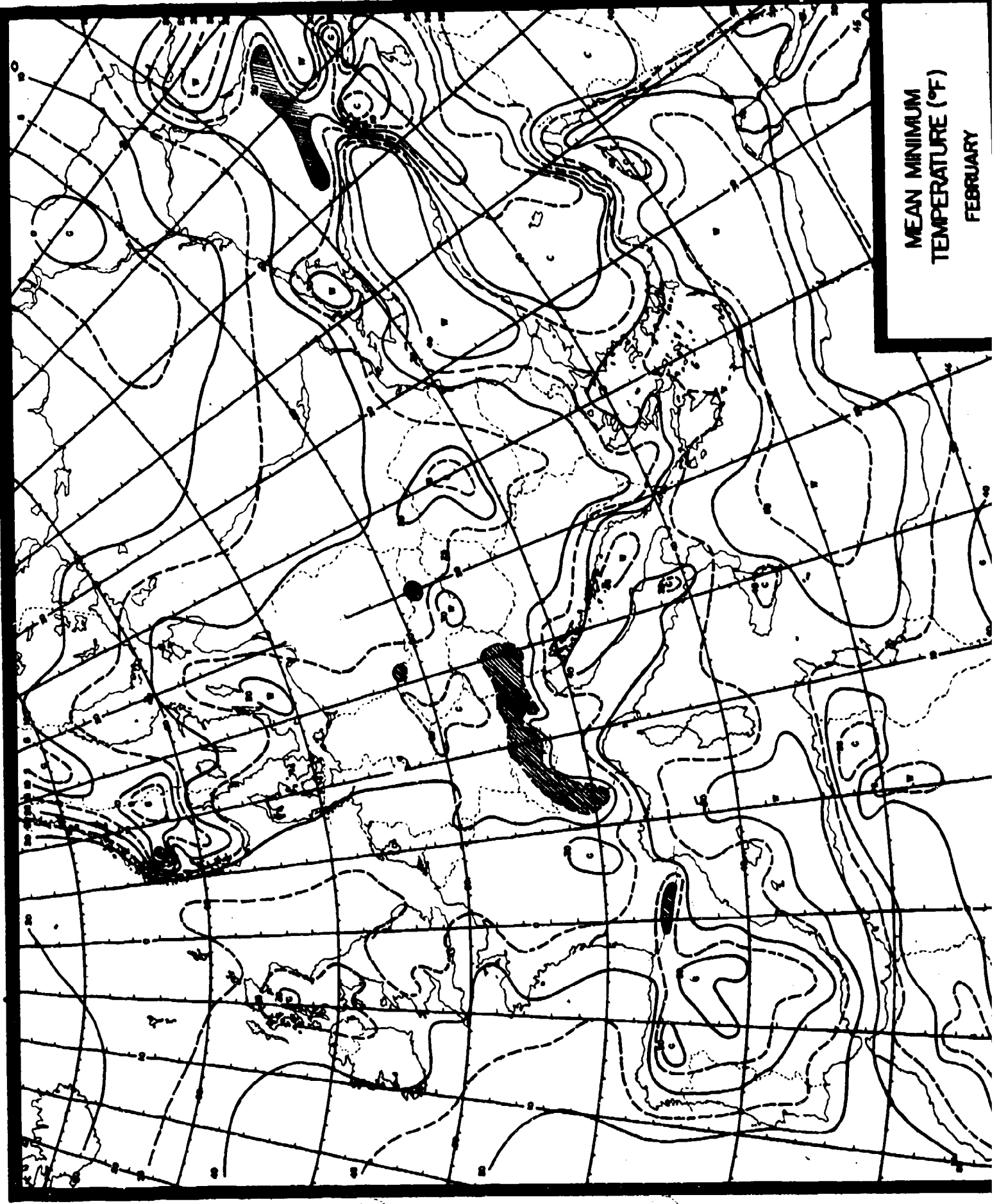
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TEMPERATURE (°F)
FEBRUARY



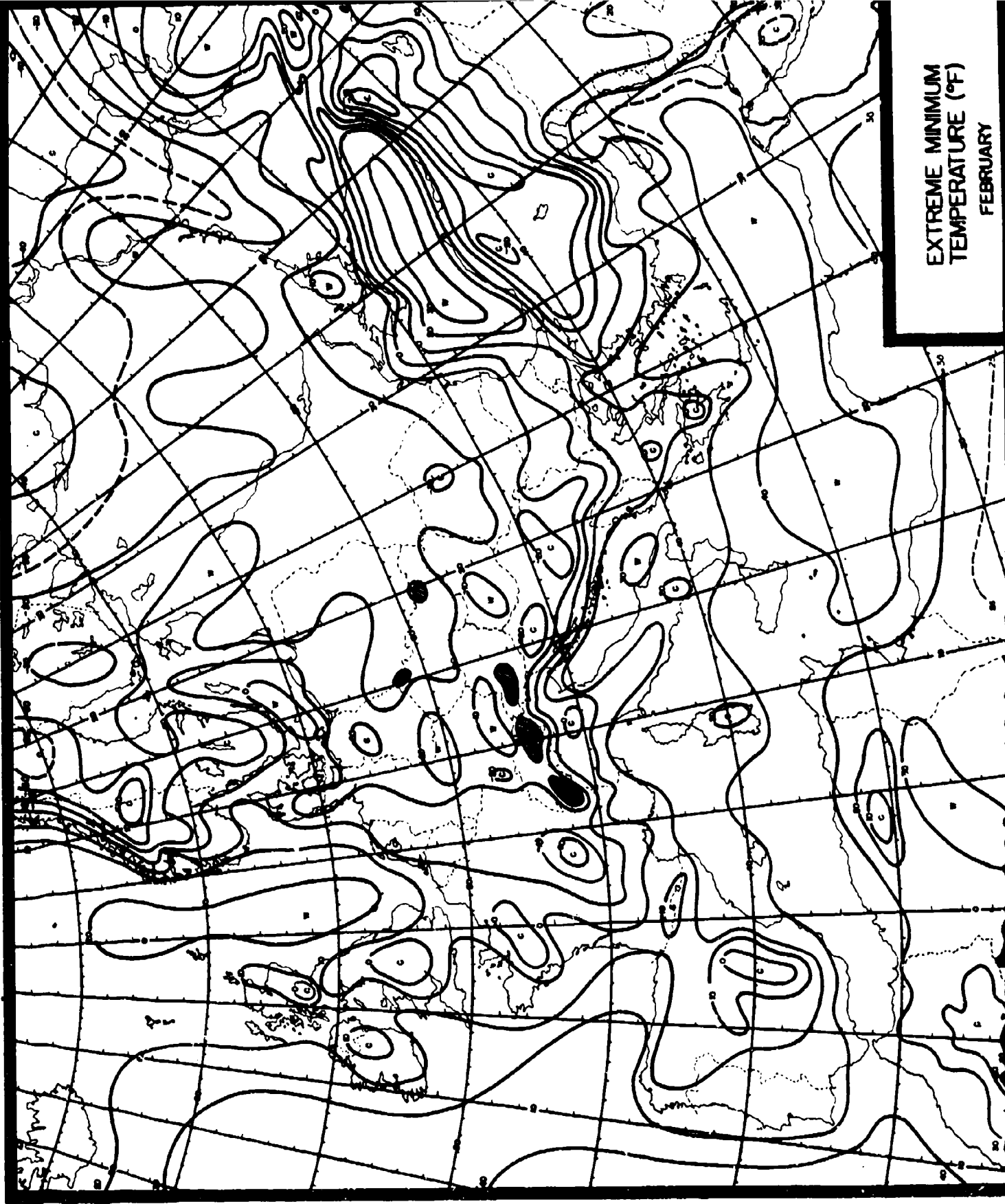
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TEMPERATURE (°F)
FEBRUARY



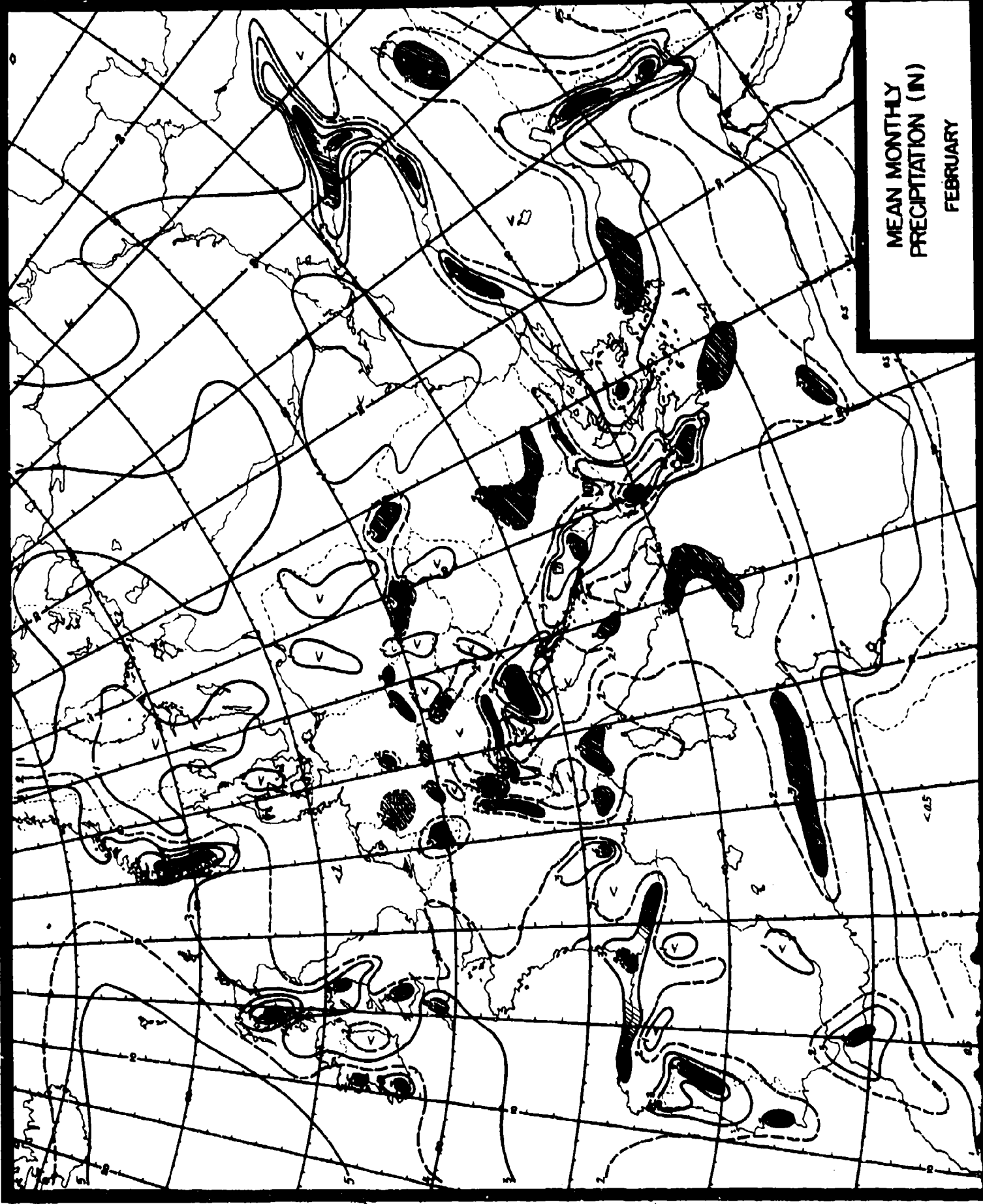
MEAN MINIMUM
TEMPERATURE (°F)
FEBRUARY



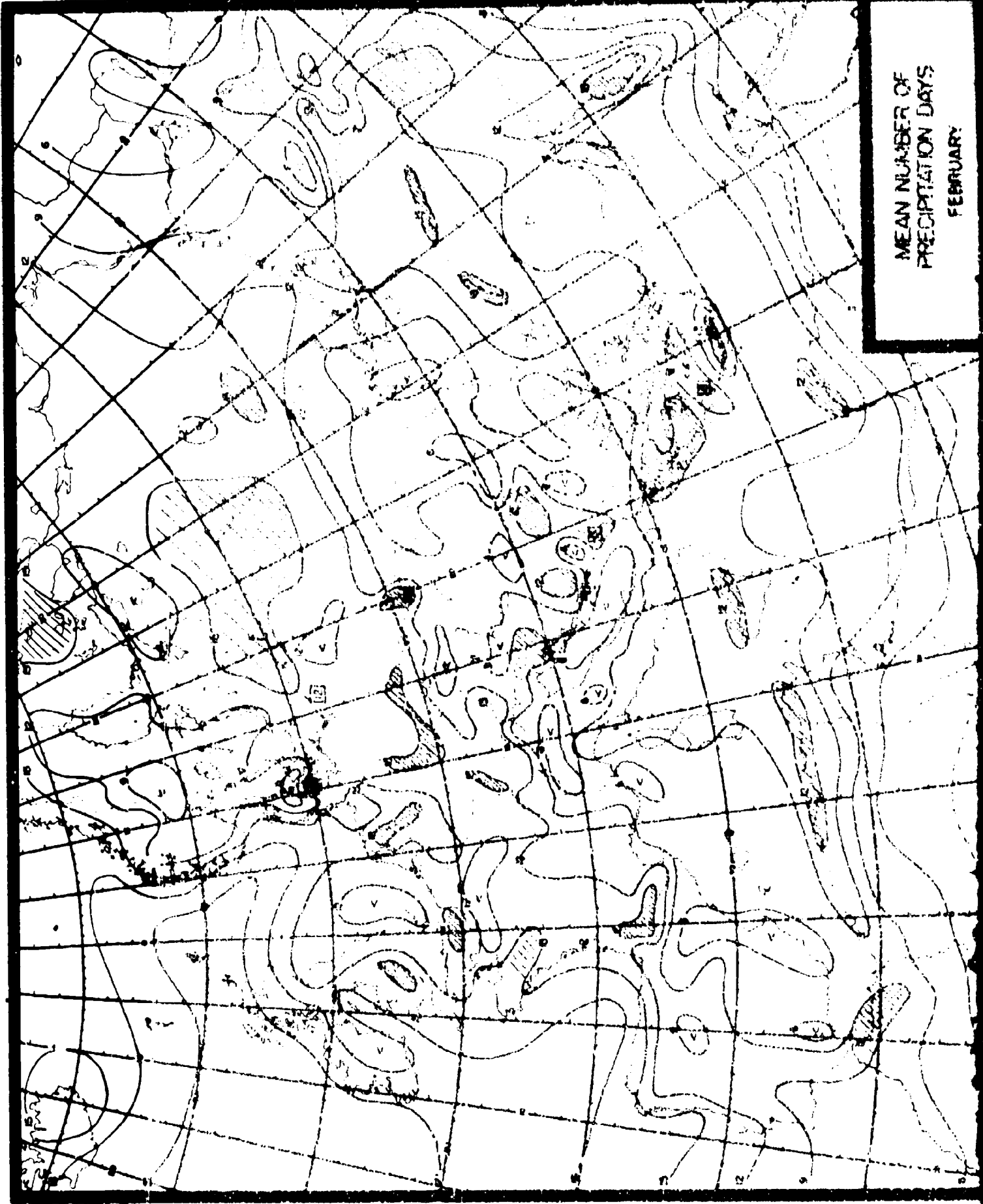
EXTREME MINIMUM
TEMPERATURE (°F)
FEBRUARY



MEAN MONTHLY
PRECIPITATION (IN)
FEBRUARY

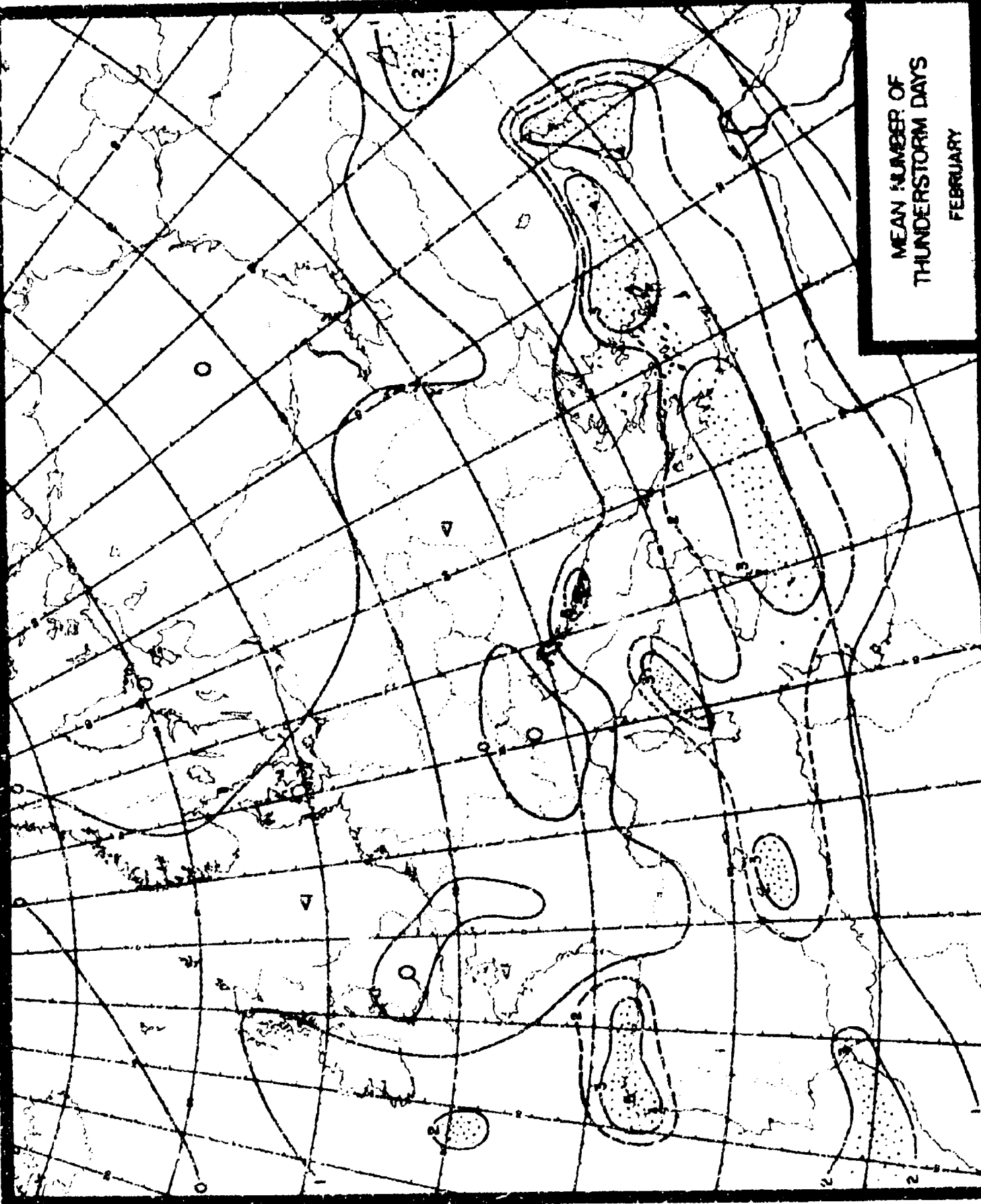


MEAN NUMBER OF
PRECIPITATION DAYS
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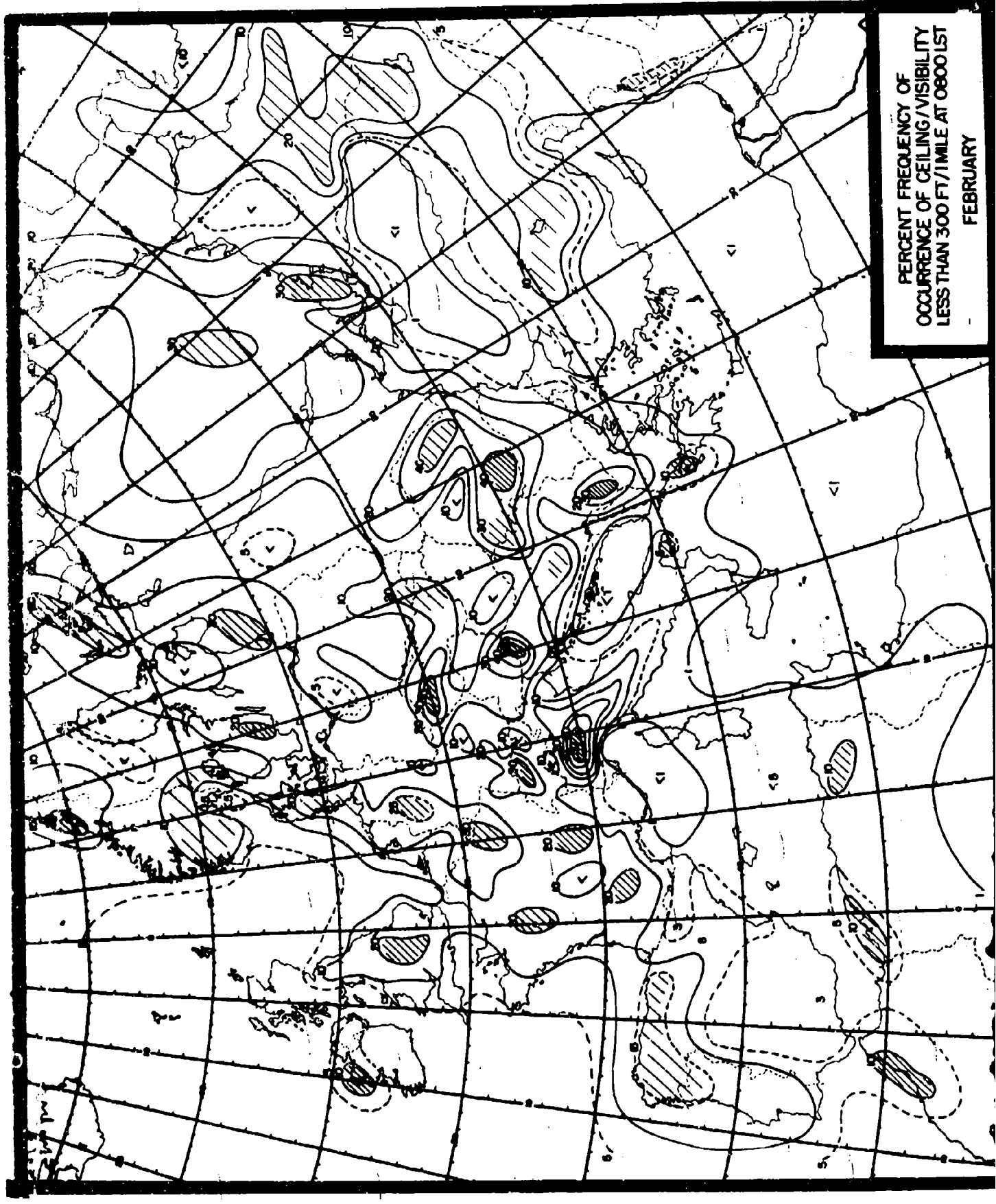


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MEAN NUMBER OF
THUNDERSTORM DAYS
FEBRUARY

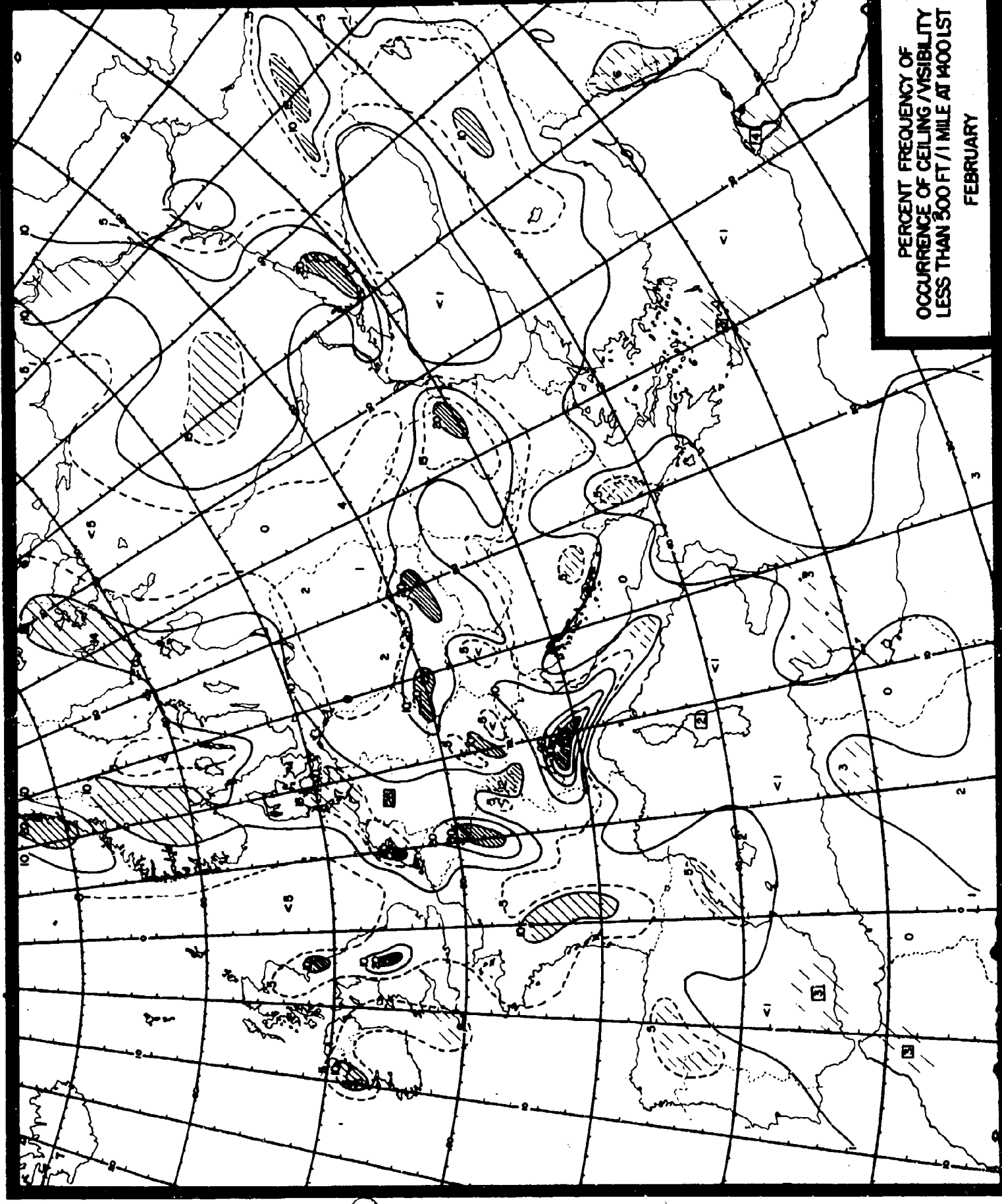


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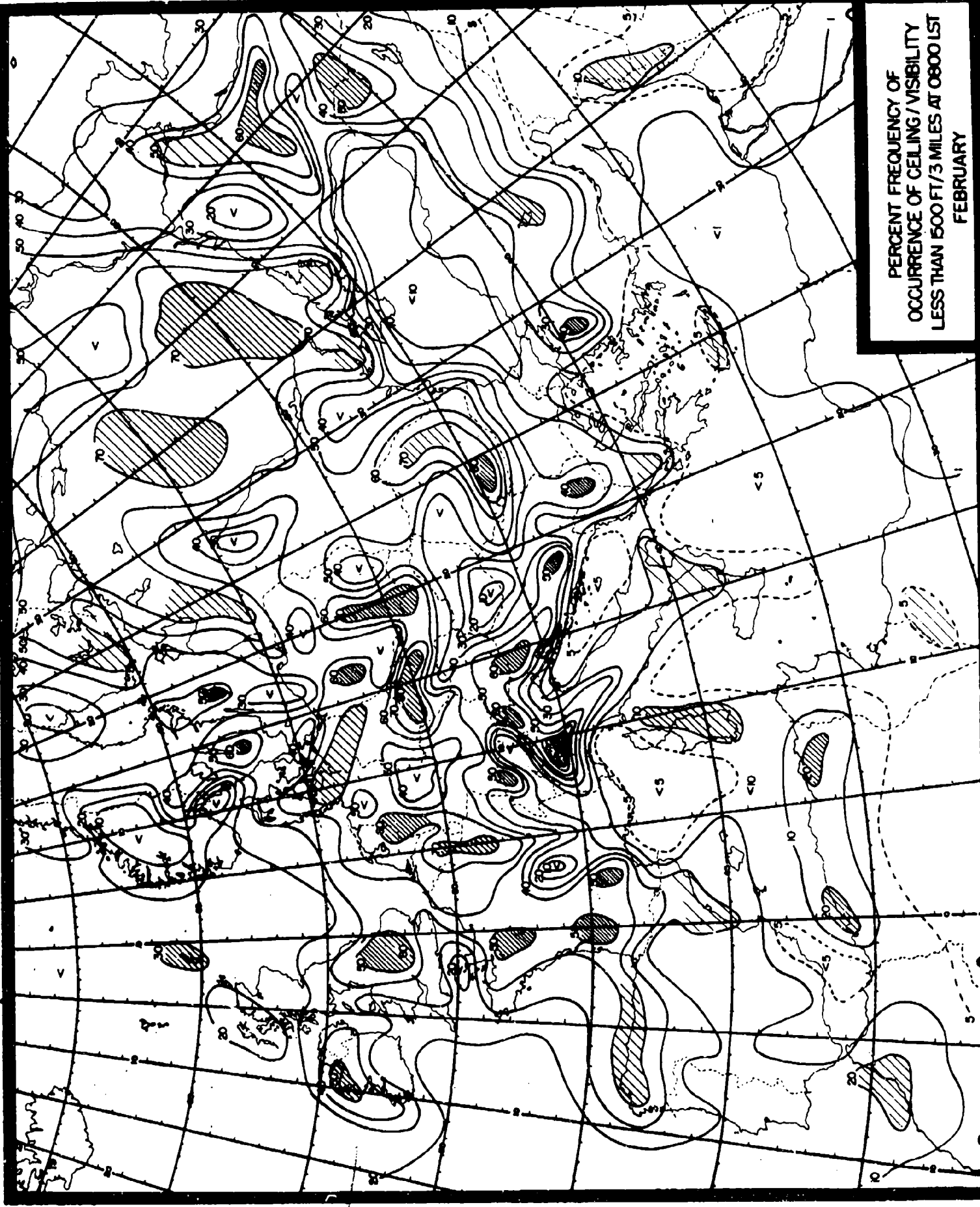


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
FEBRUARY

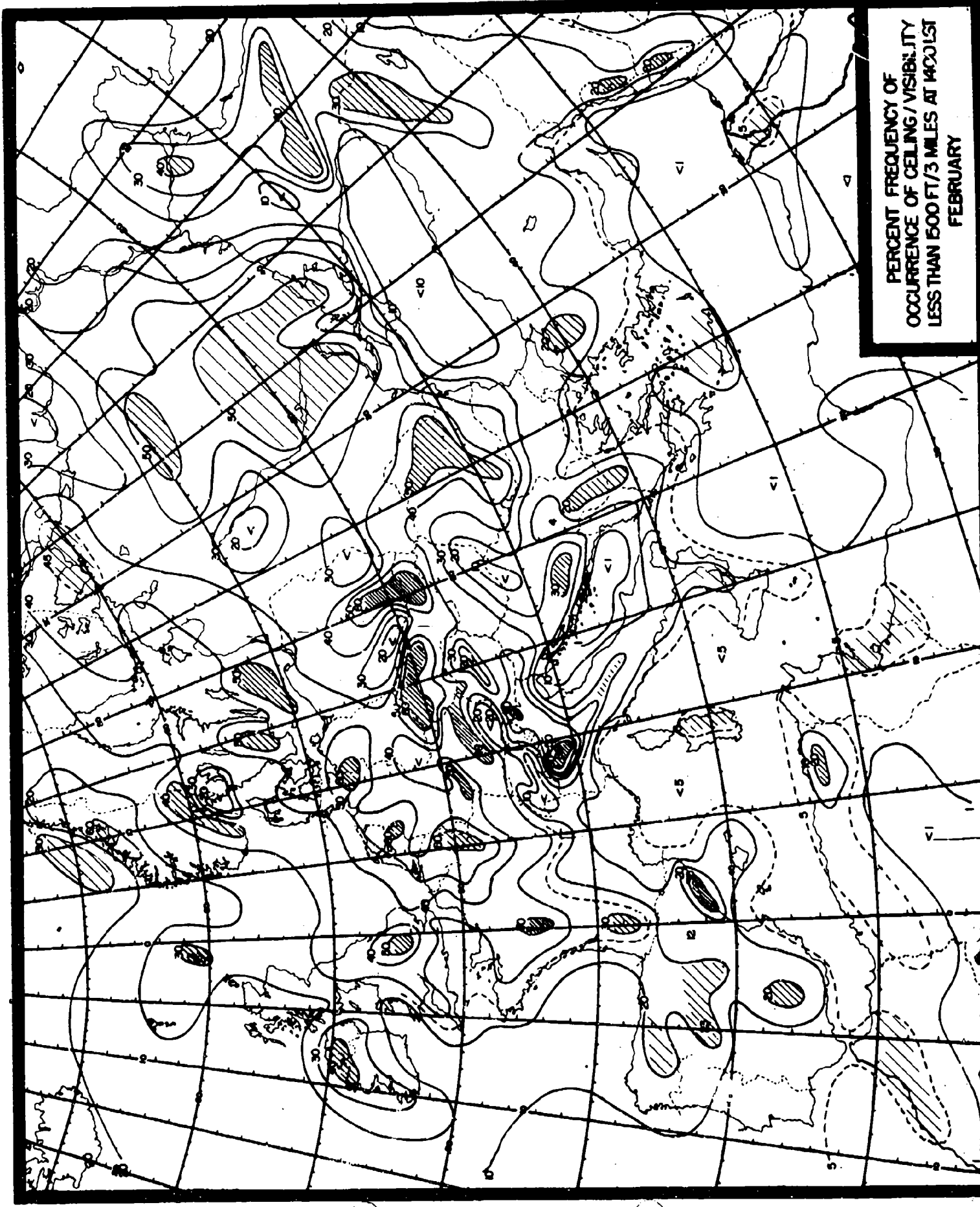
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
FEBRUARY



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 0800 LST
FEBRUARY



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400LST
FEBRUARY



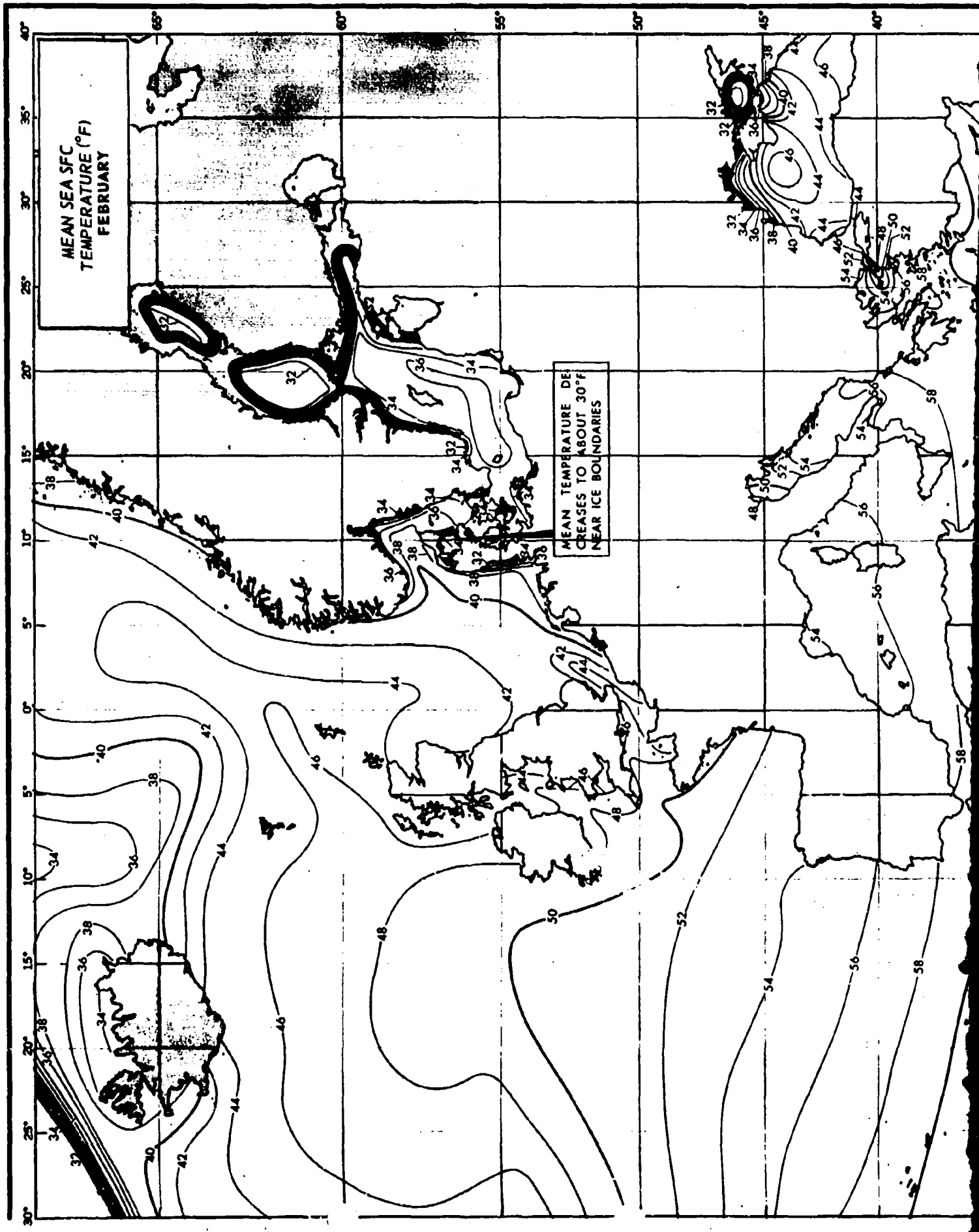
APPROXIMATE NORTHERN
LIMIT OF ADJUTATE DATA

NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILES

MINIMUM
SEA SURFACE
TEMPERATURE (F)
FEBRUARY

TEMPERATURE CONVERSION TABLE

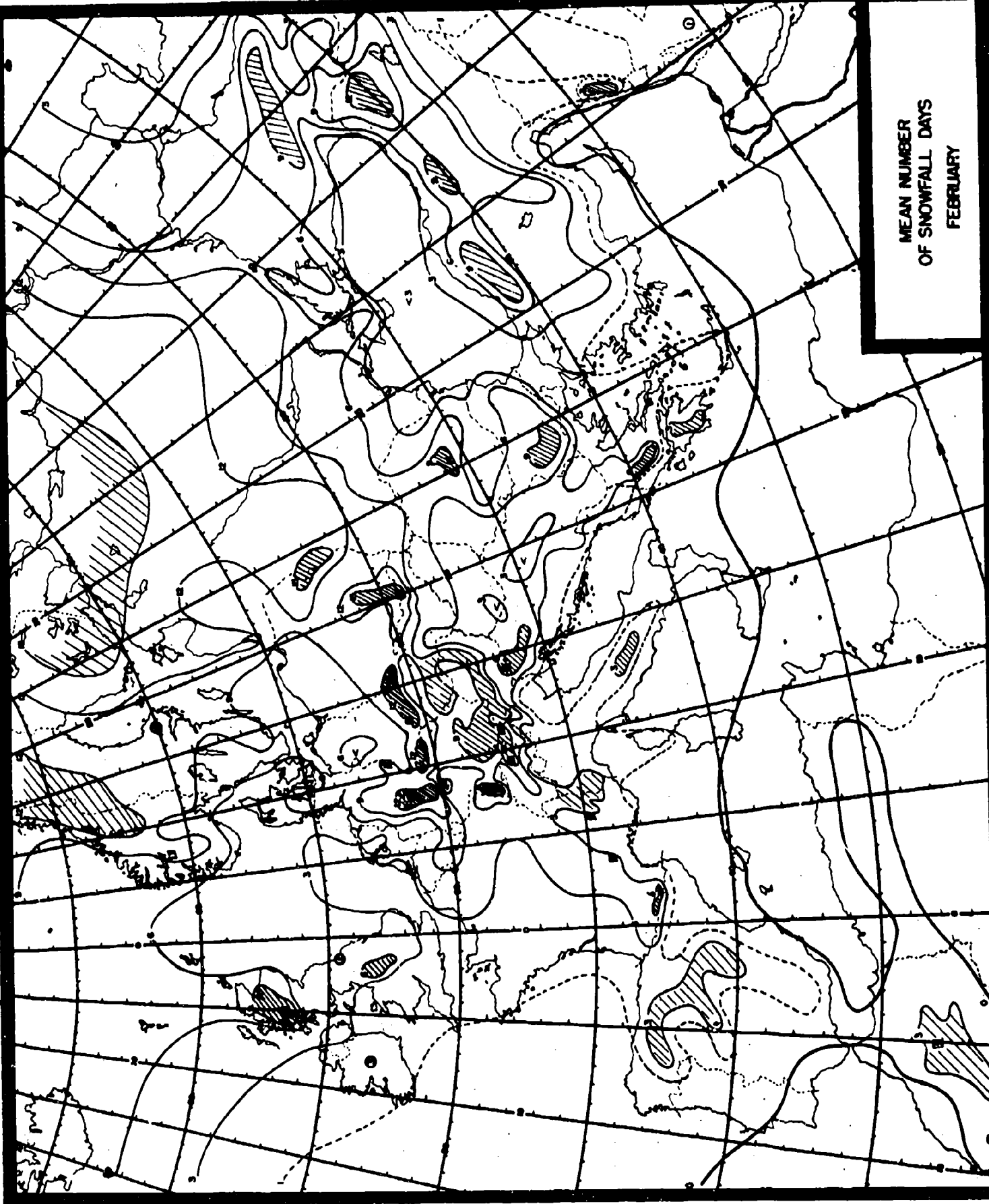
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33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
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37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.5	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
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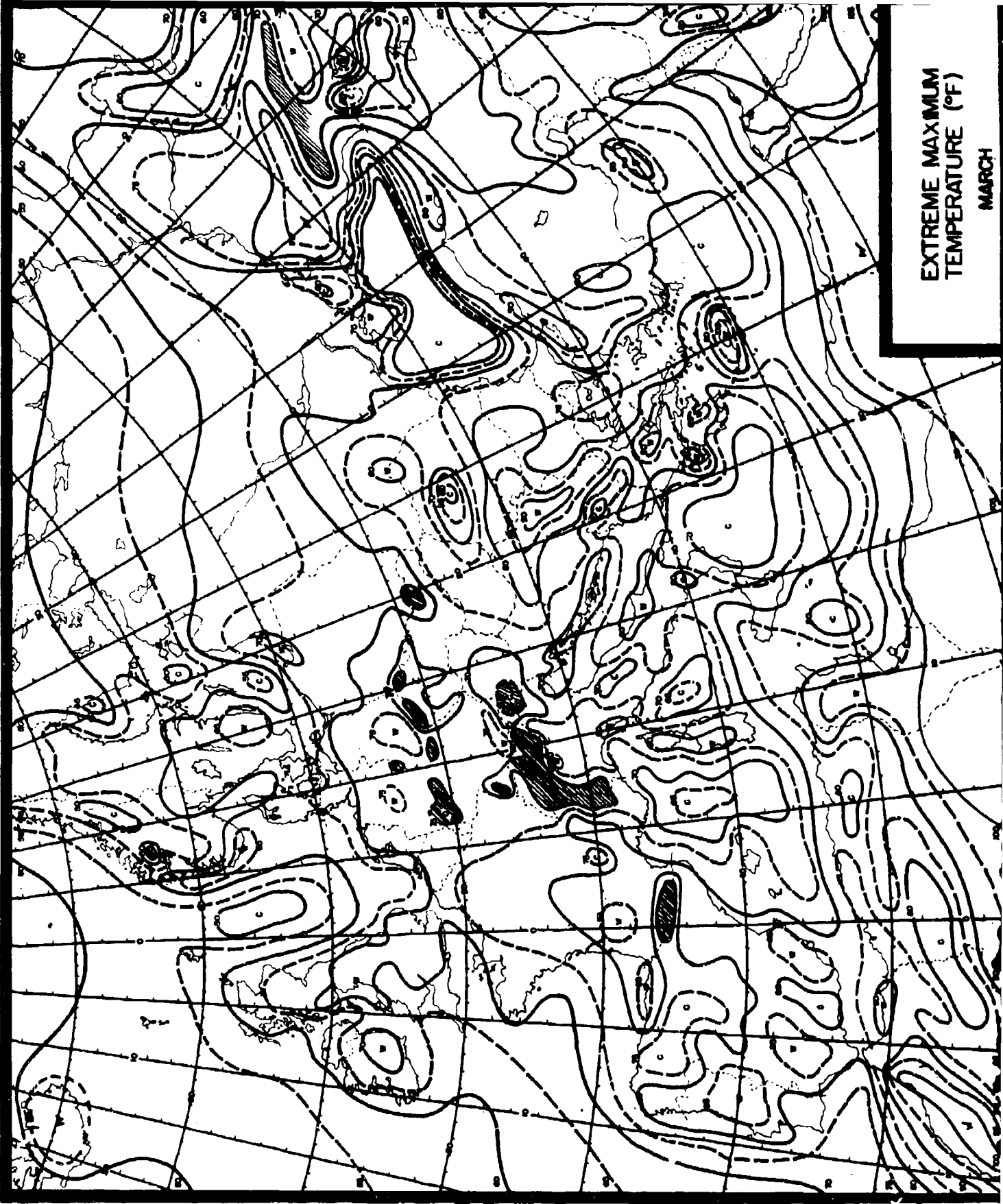
MEAN SEA SFC
TEMPERATURE (°F)
FEBRUARY

MEAN TEMPERATURE DECREASES TO ABOUT 30°F NEAR ICE BOUNDARIES

MEAN NUMBER
OF SNOWFALL DAYS
FEBRUARY

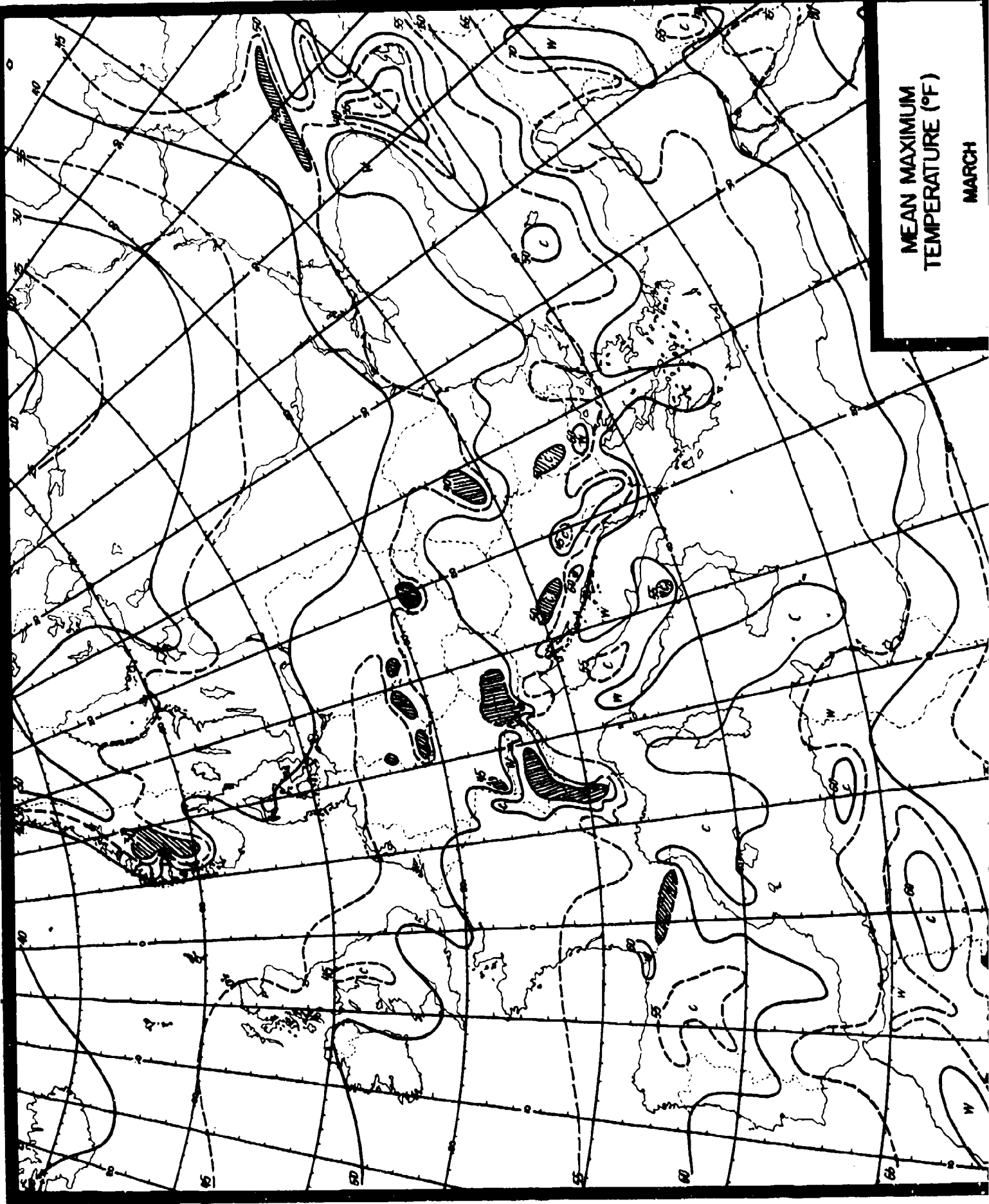


EXTREME MAXIMUM
TEMPERATURE (°F)
MARCH

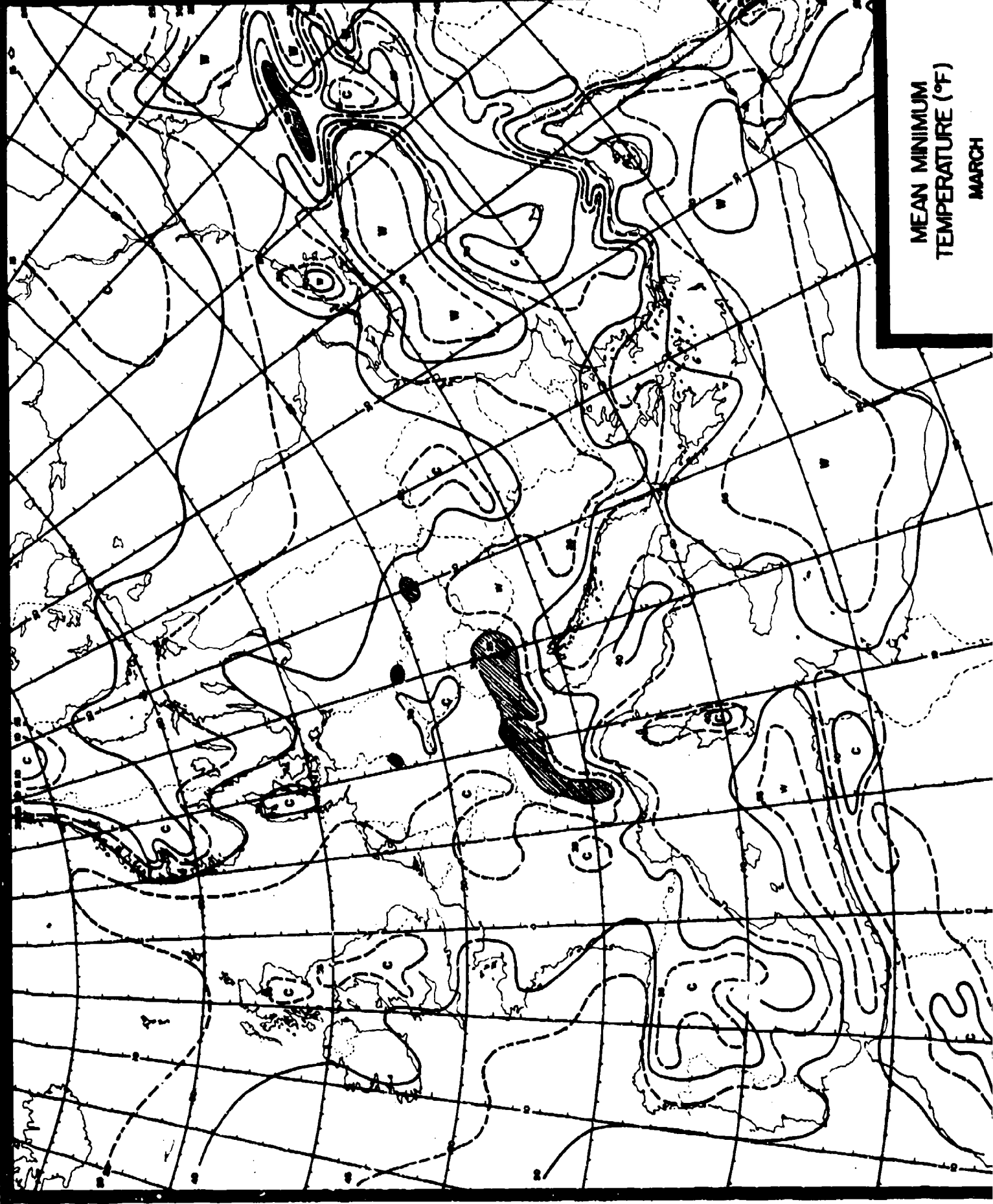


MEAN MAXIMUM
TEMPERATURE (°F)

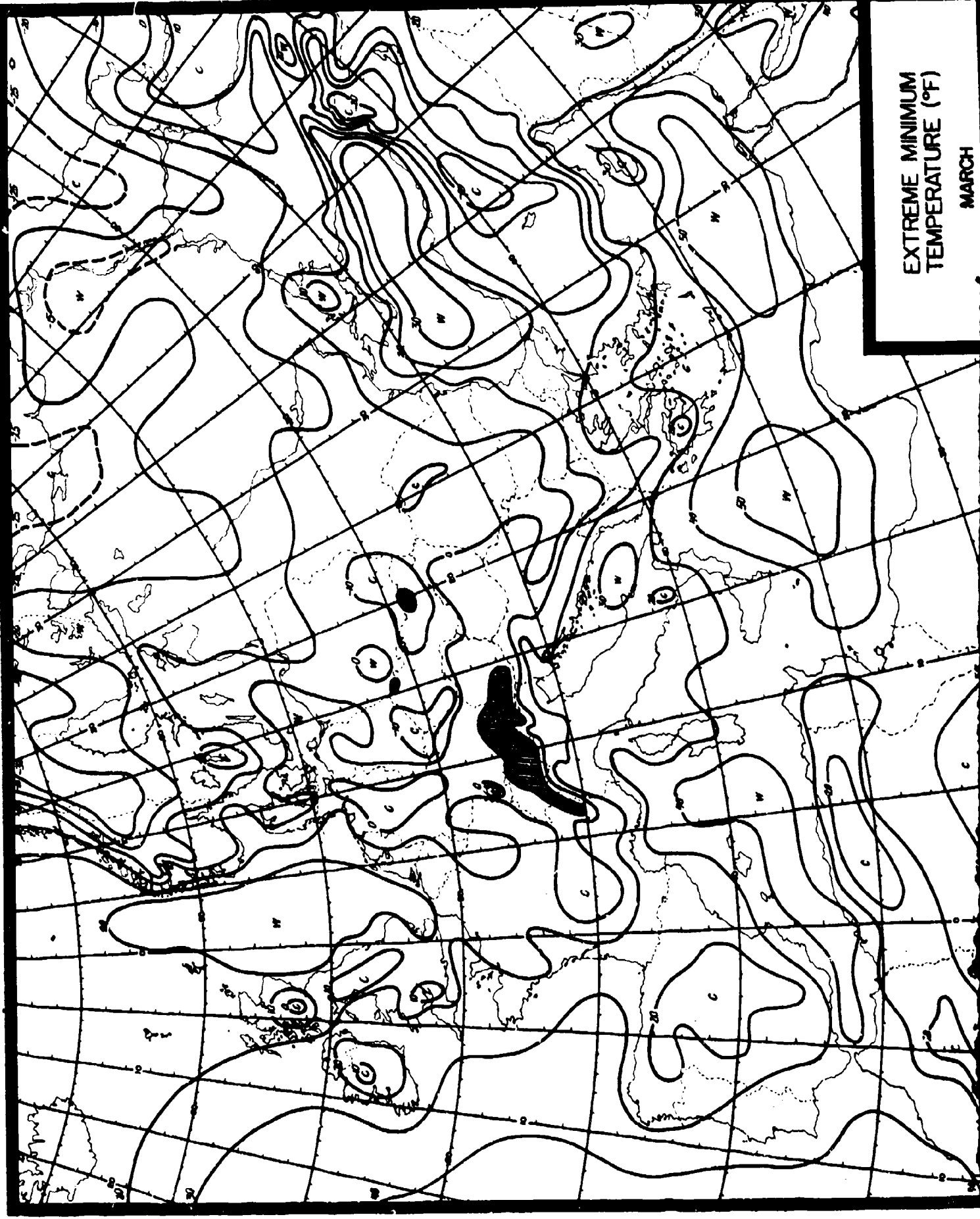
MARCH



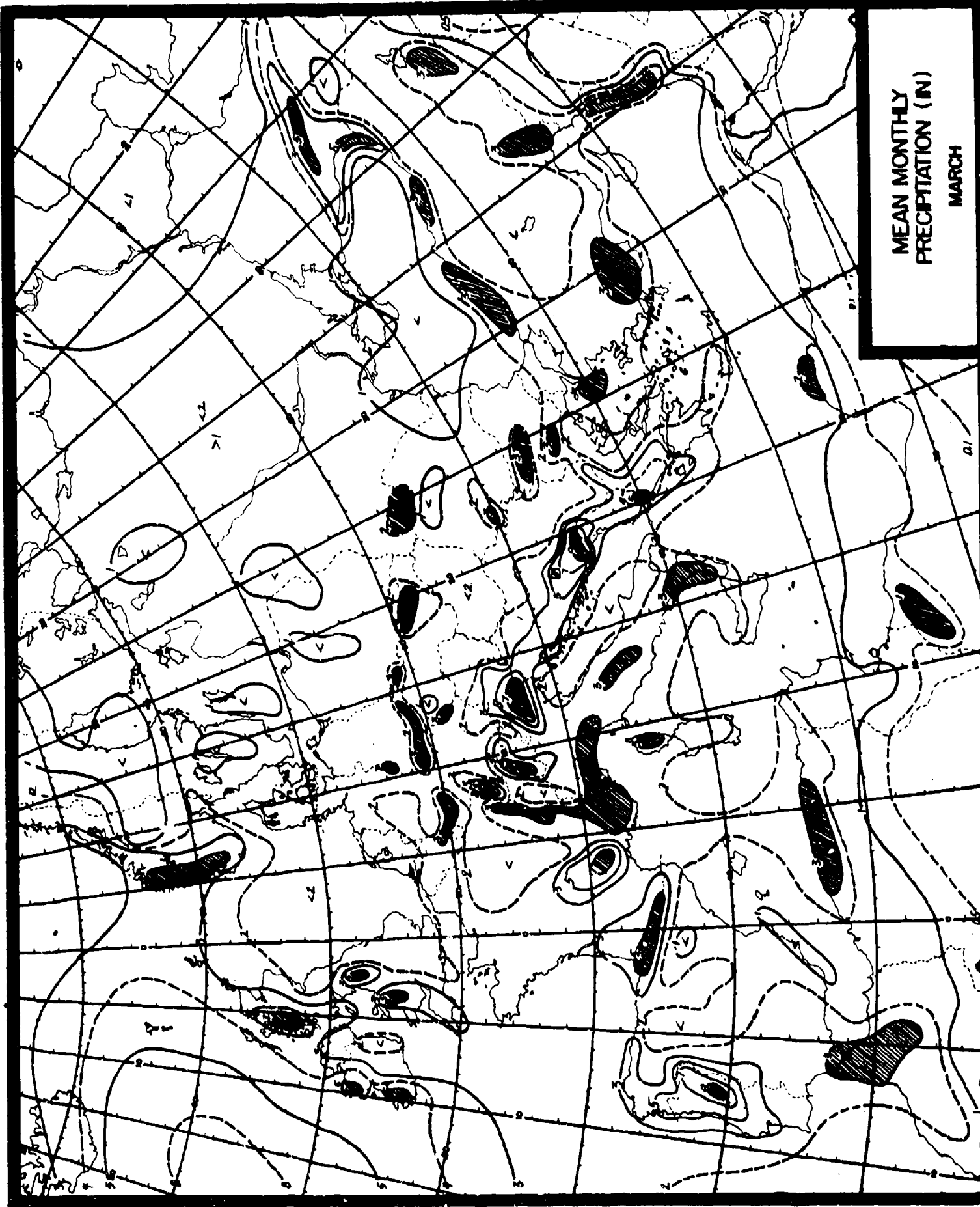
MEAN MINIMUM
TEMPERATURE (°F)
MARCH



EXTREME MINIMUM
TEMPERATURE (°F)
MARCH

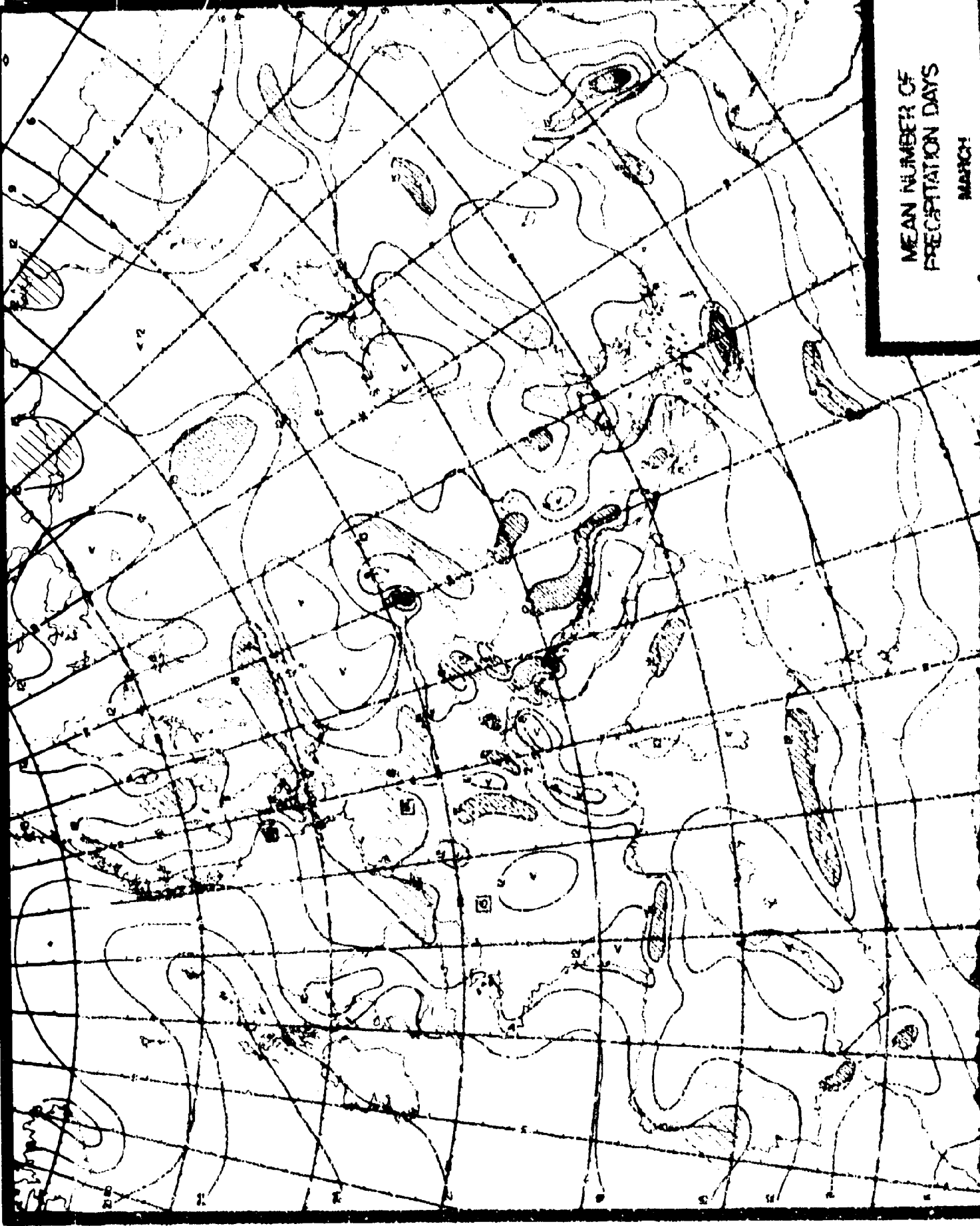


MEAN MONTHLY
PRECIPITATION (IN)
MARCH

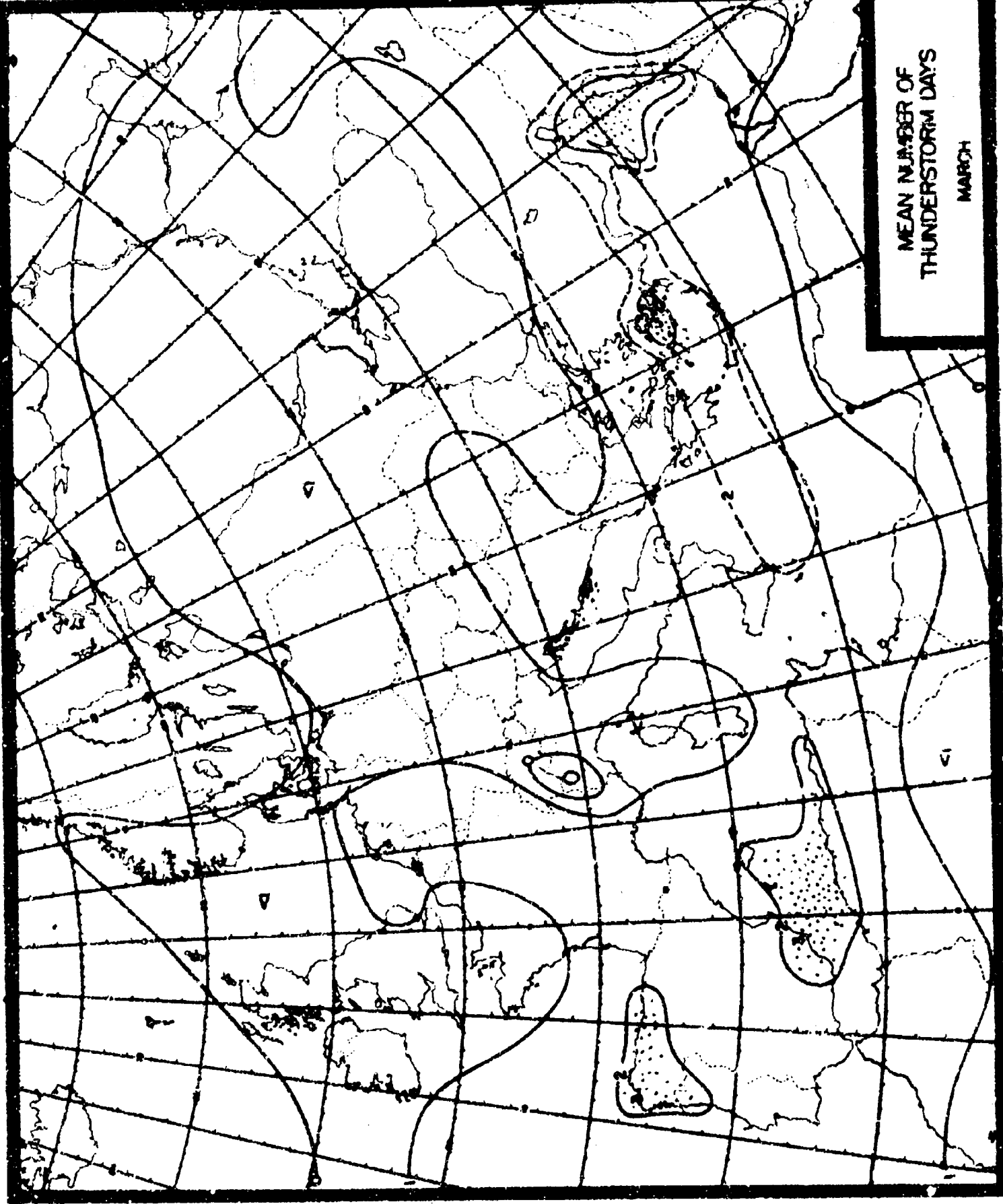


MEAN NUMBER OF
PRECIPITATION DAYS

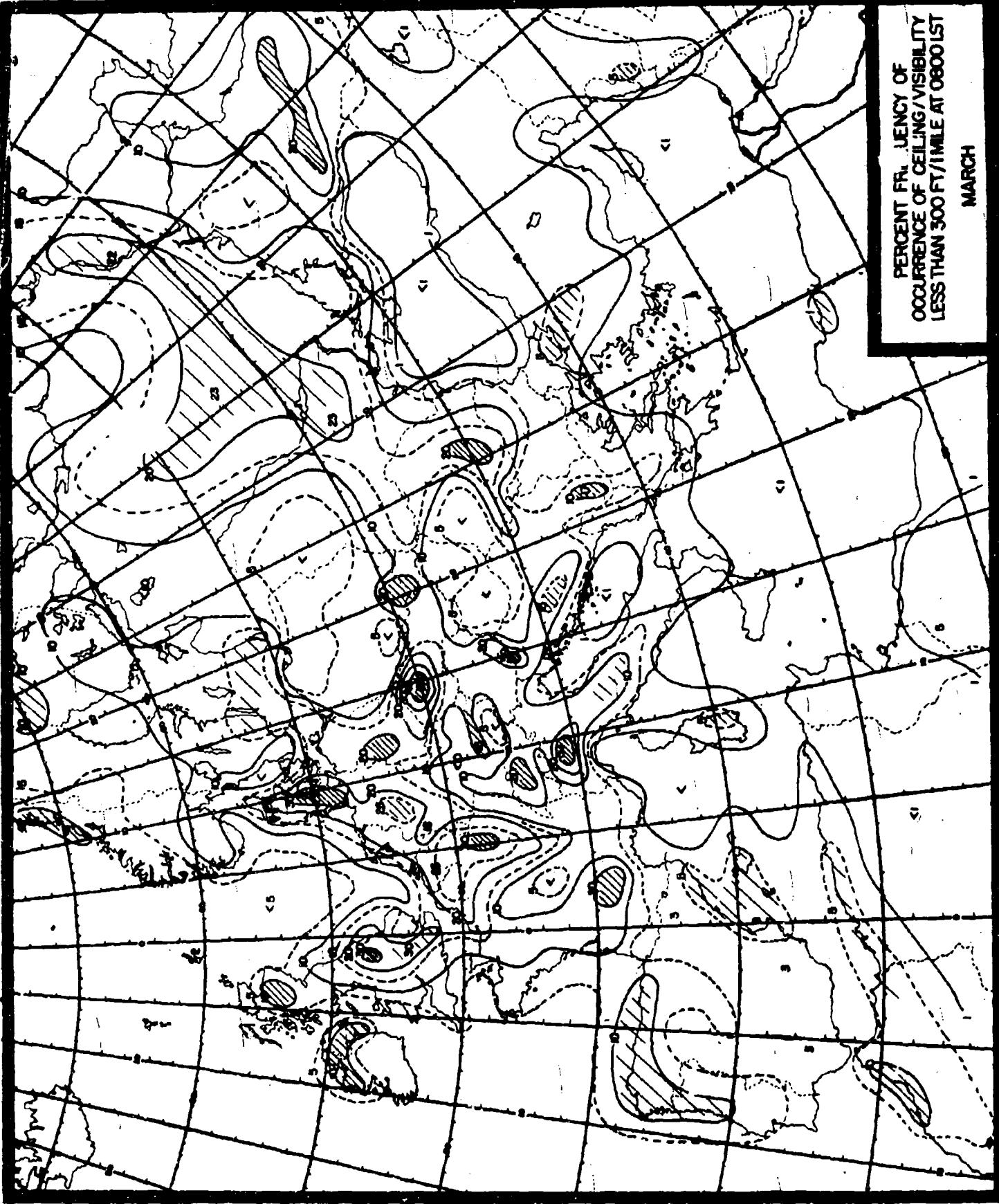
MARCH



MEAN NUMBER OF
THUNDERSTORM DAYS
MARCH

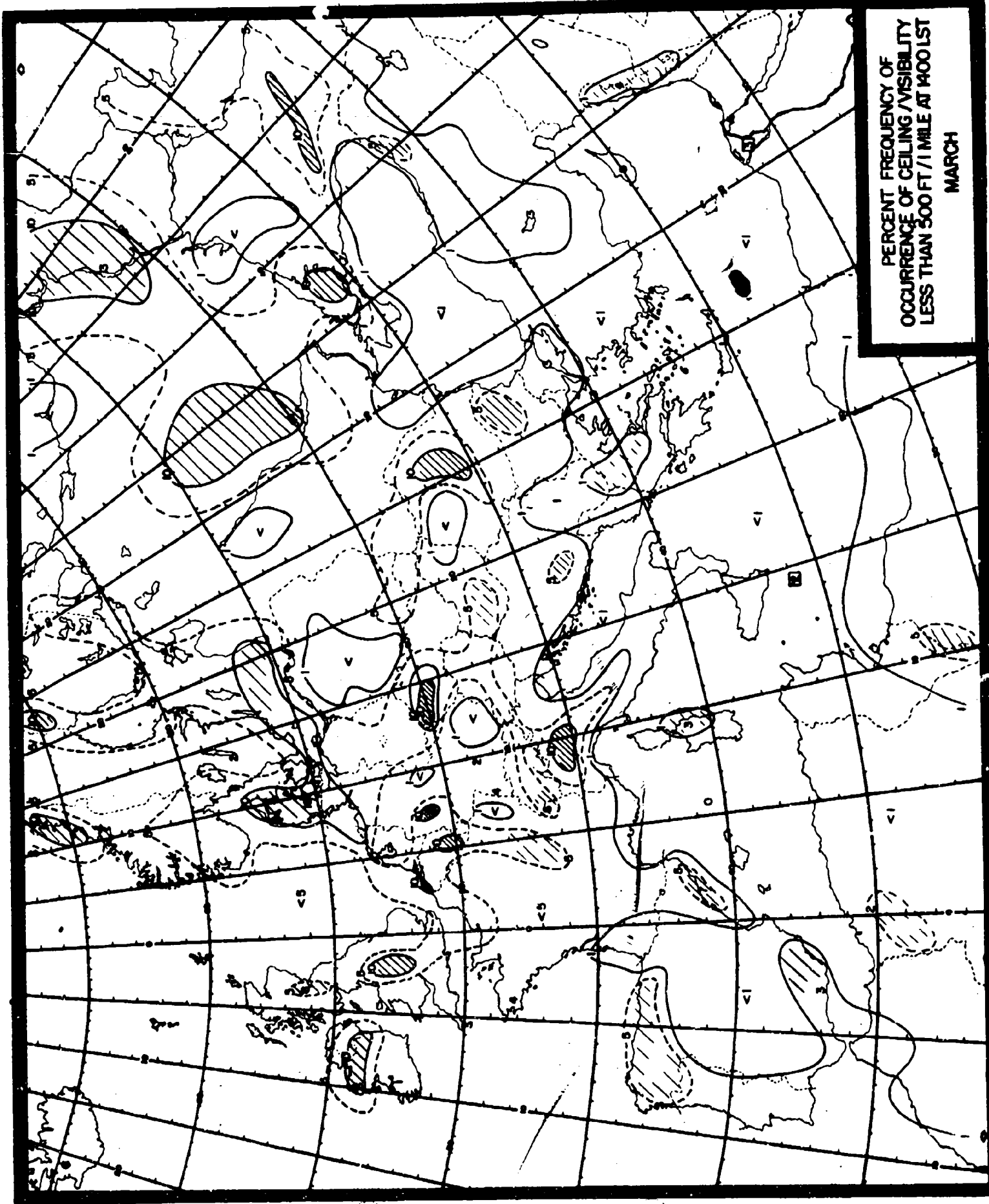


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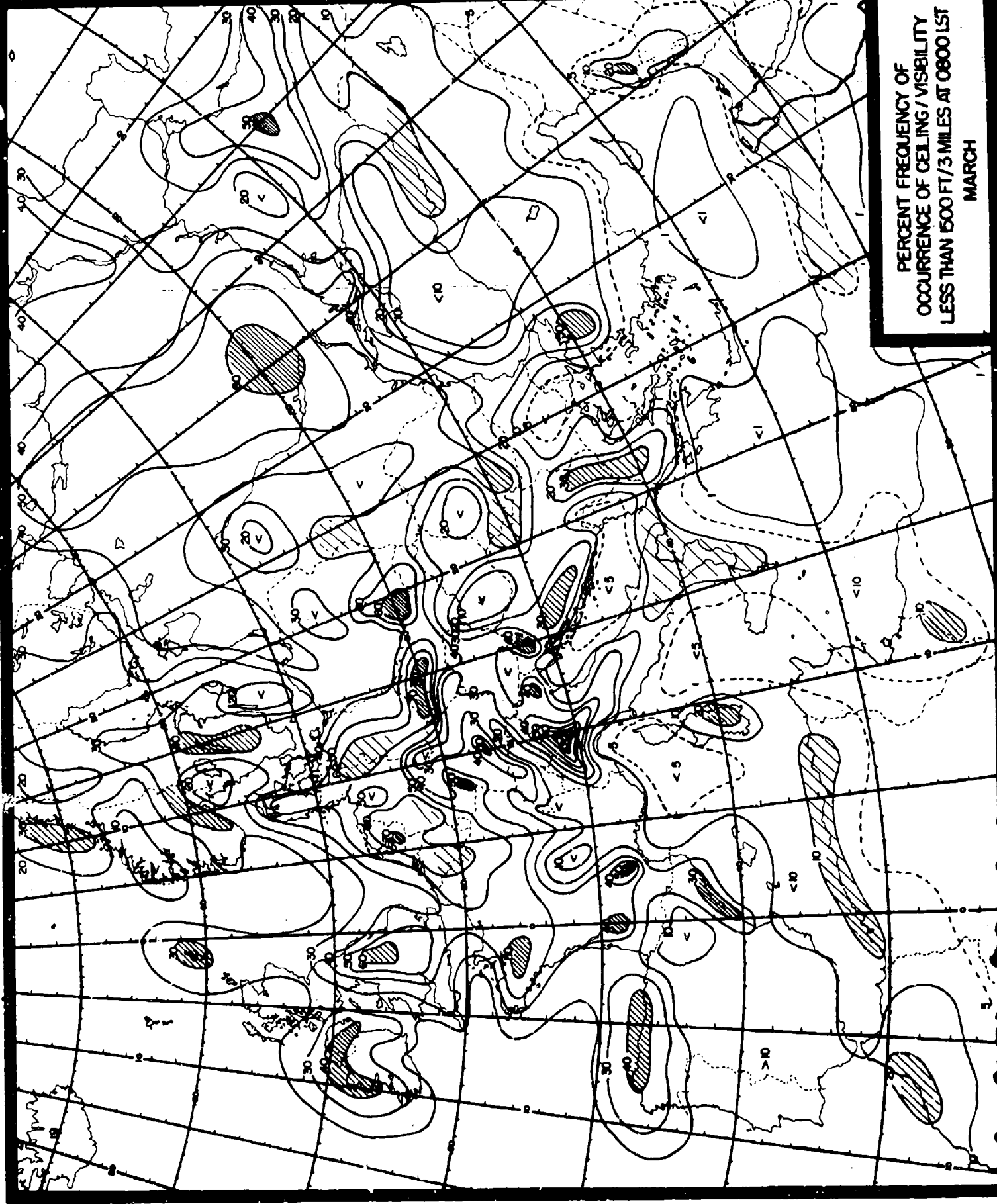


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
MARCH

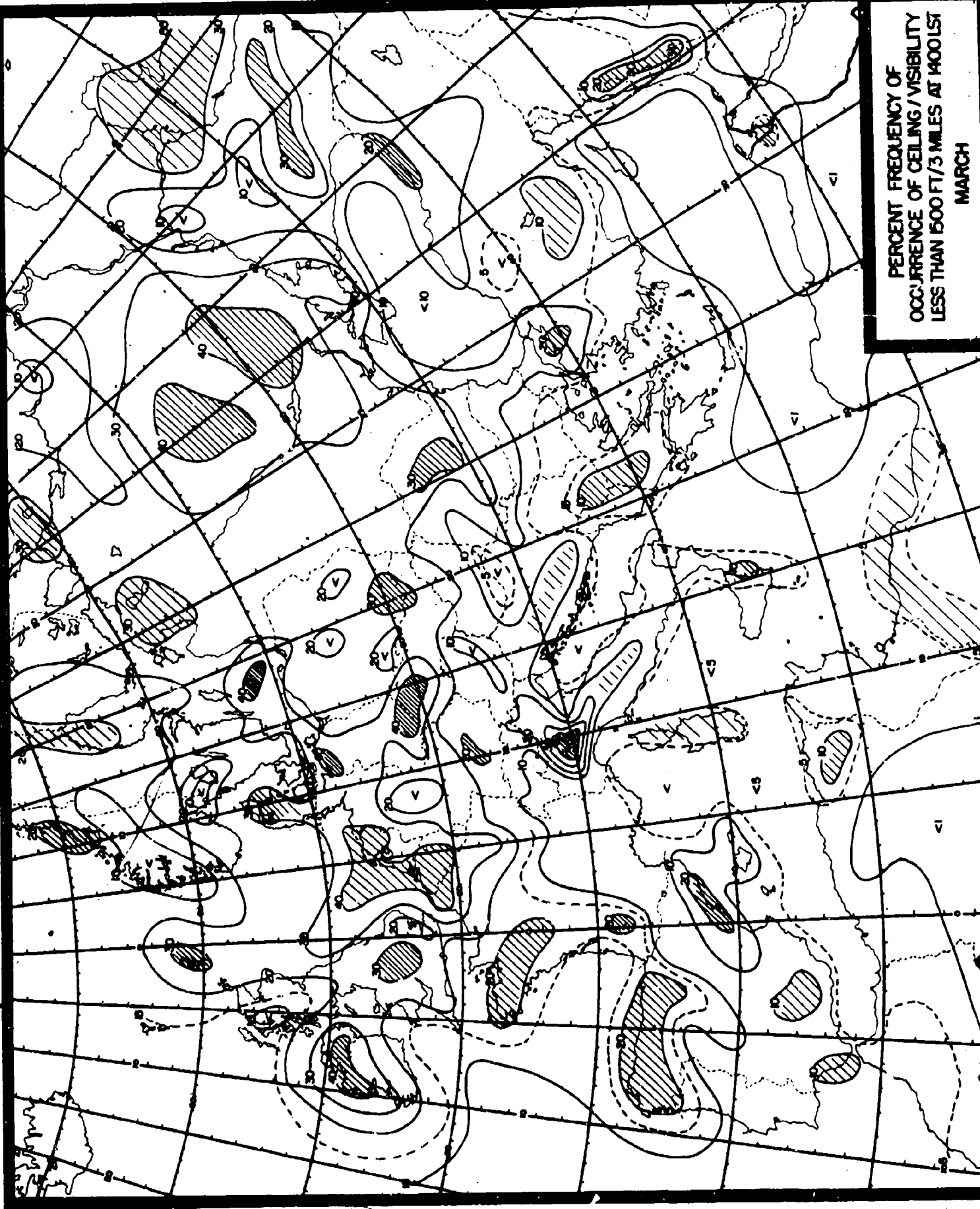
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT MOO LIST
MARCH

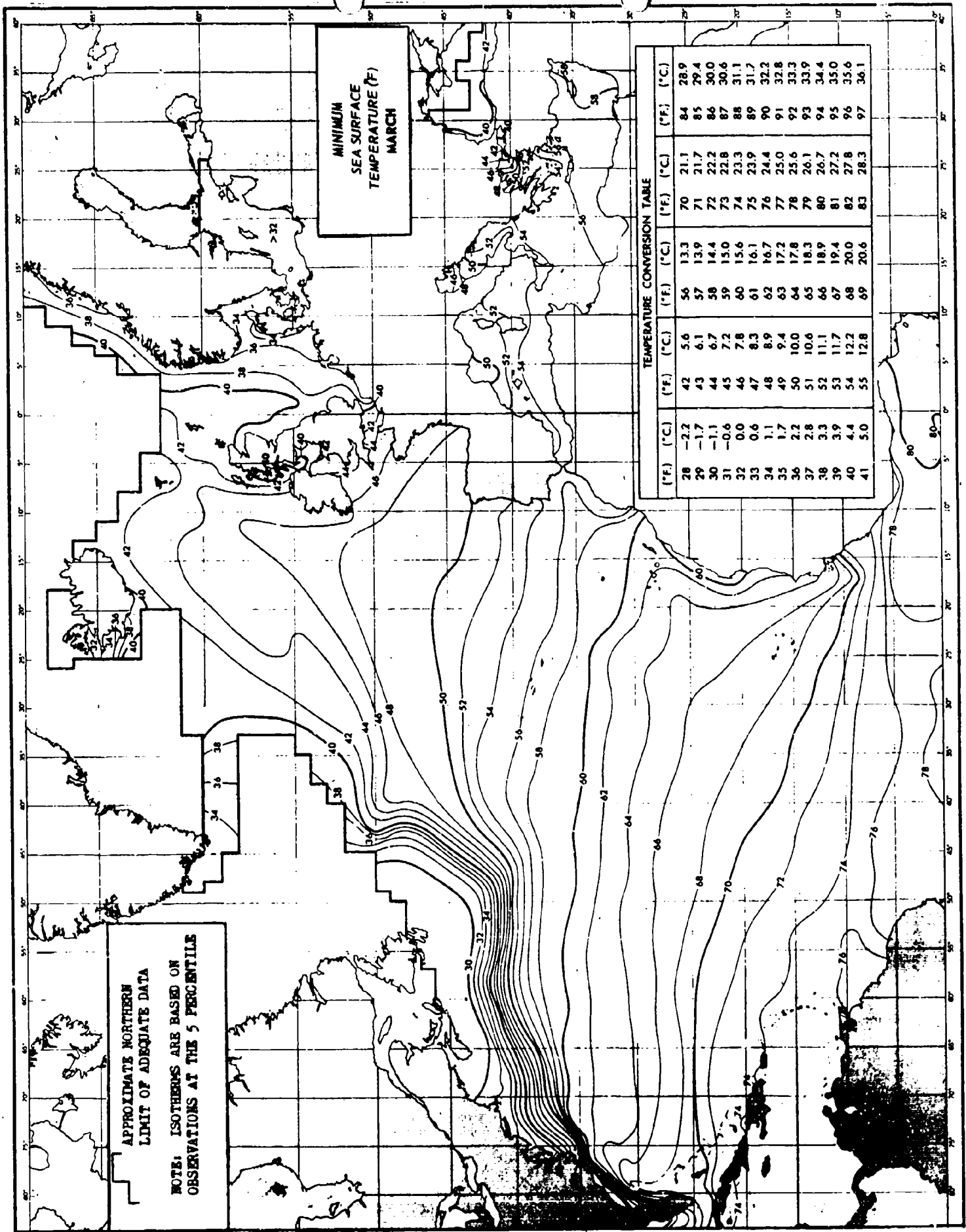


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 0800 LST
MARCH



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
MARCH





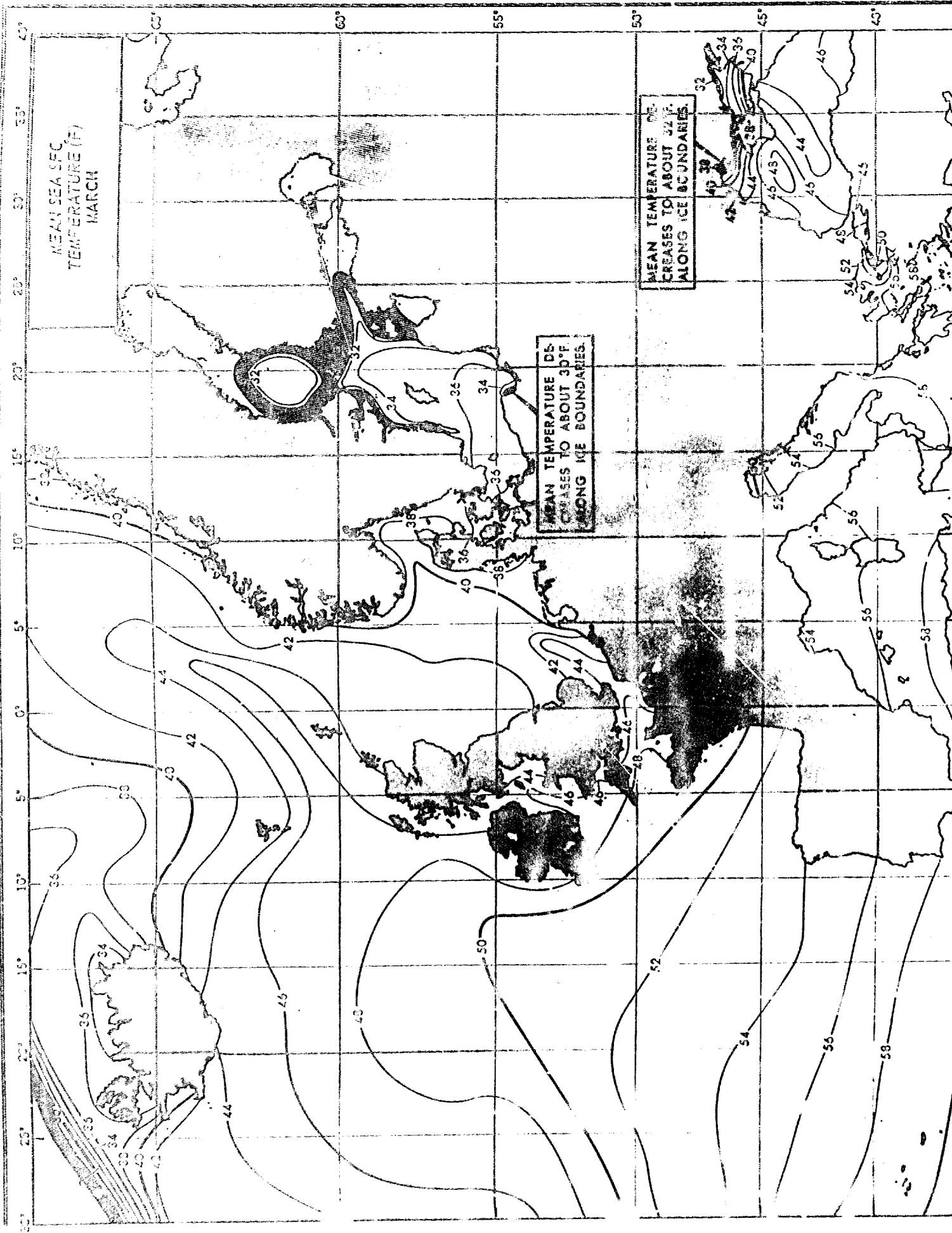
MINIMUM
SEA SURFACE
TEMPERATURE (°F)
MARCH

APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

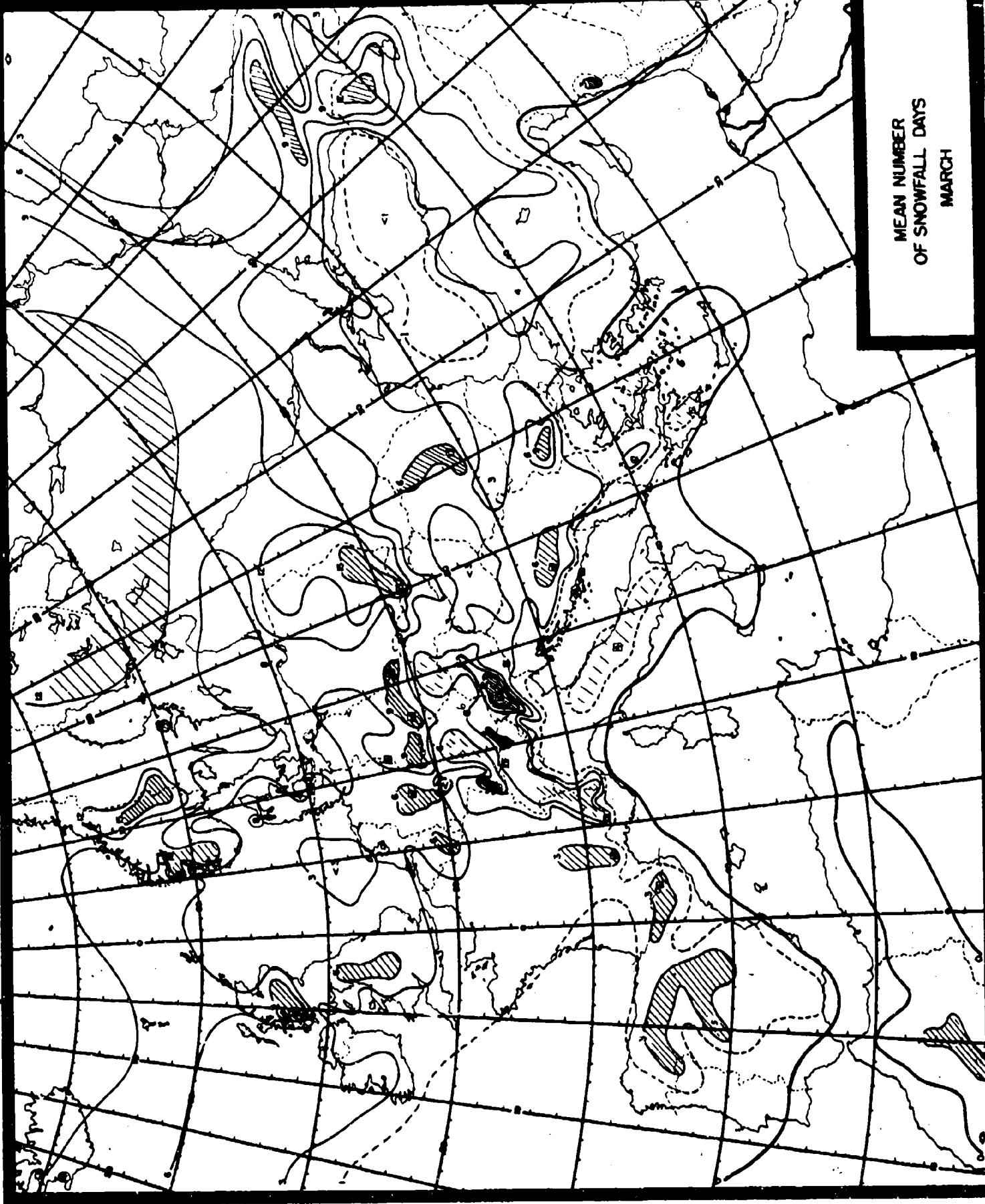
NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

TEMPERATURE CONVERSION TABLE

(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)		
28	-2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	-1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	-1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	-0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1



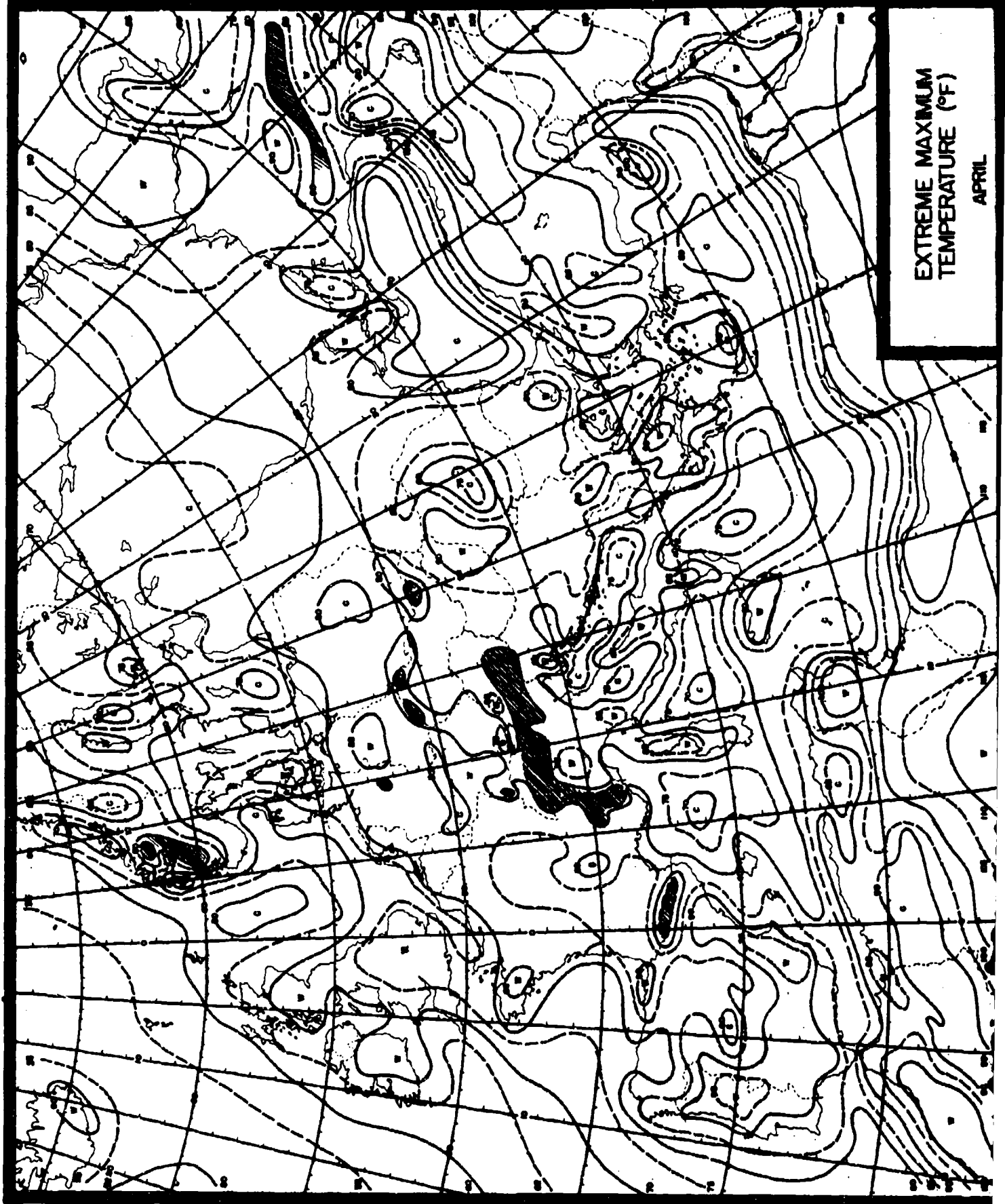
2WWP 105 13(C-1)



MEAN NUMBER
OF SNOWFALL DAYS
MARCH

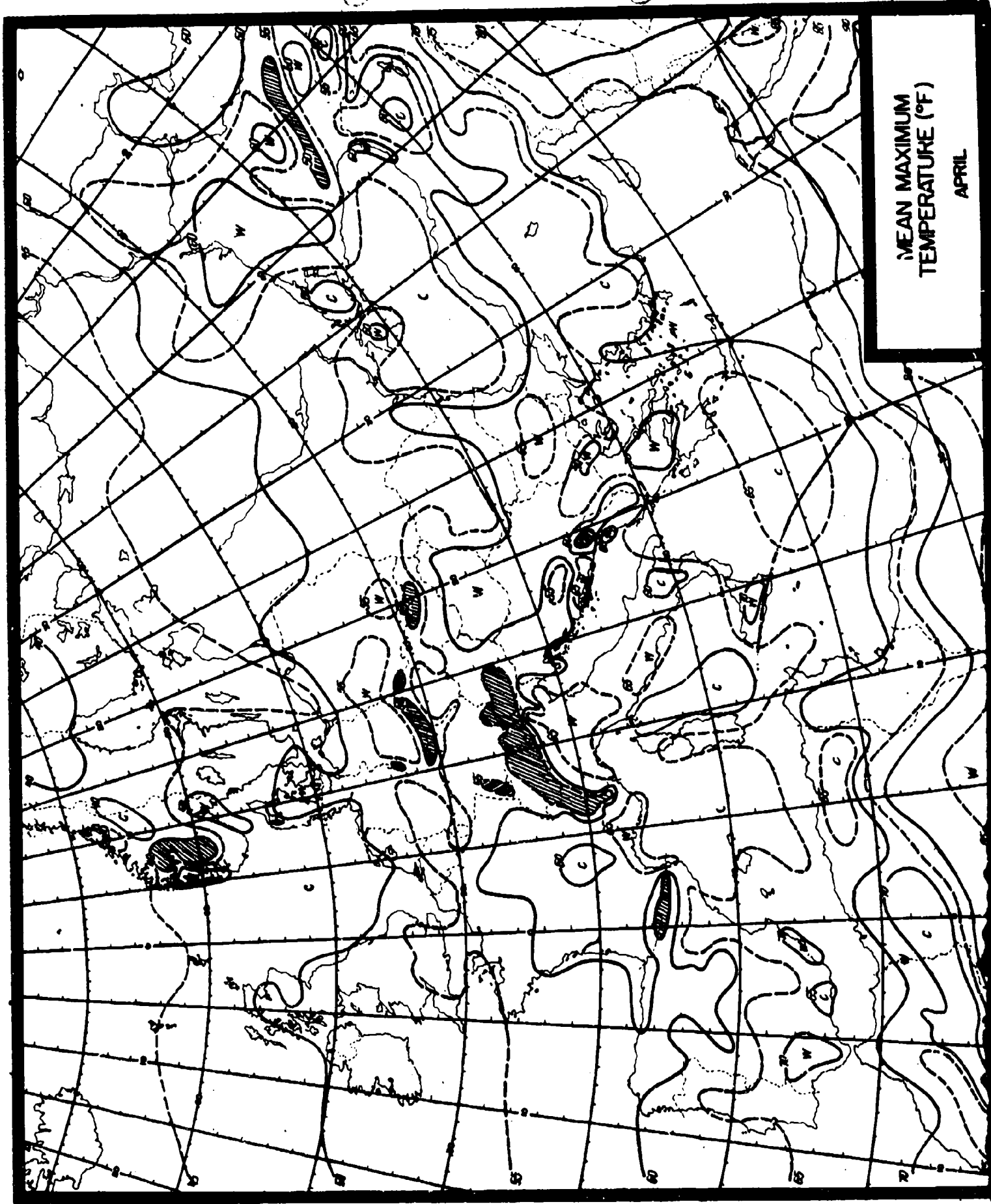
EXTREME MAXIMUM
TEMPERATURE (°F)

APRIL

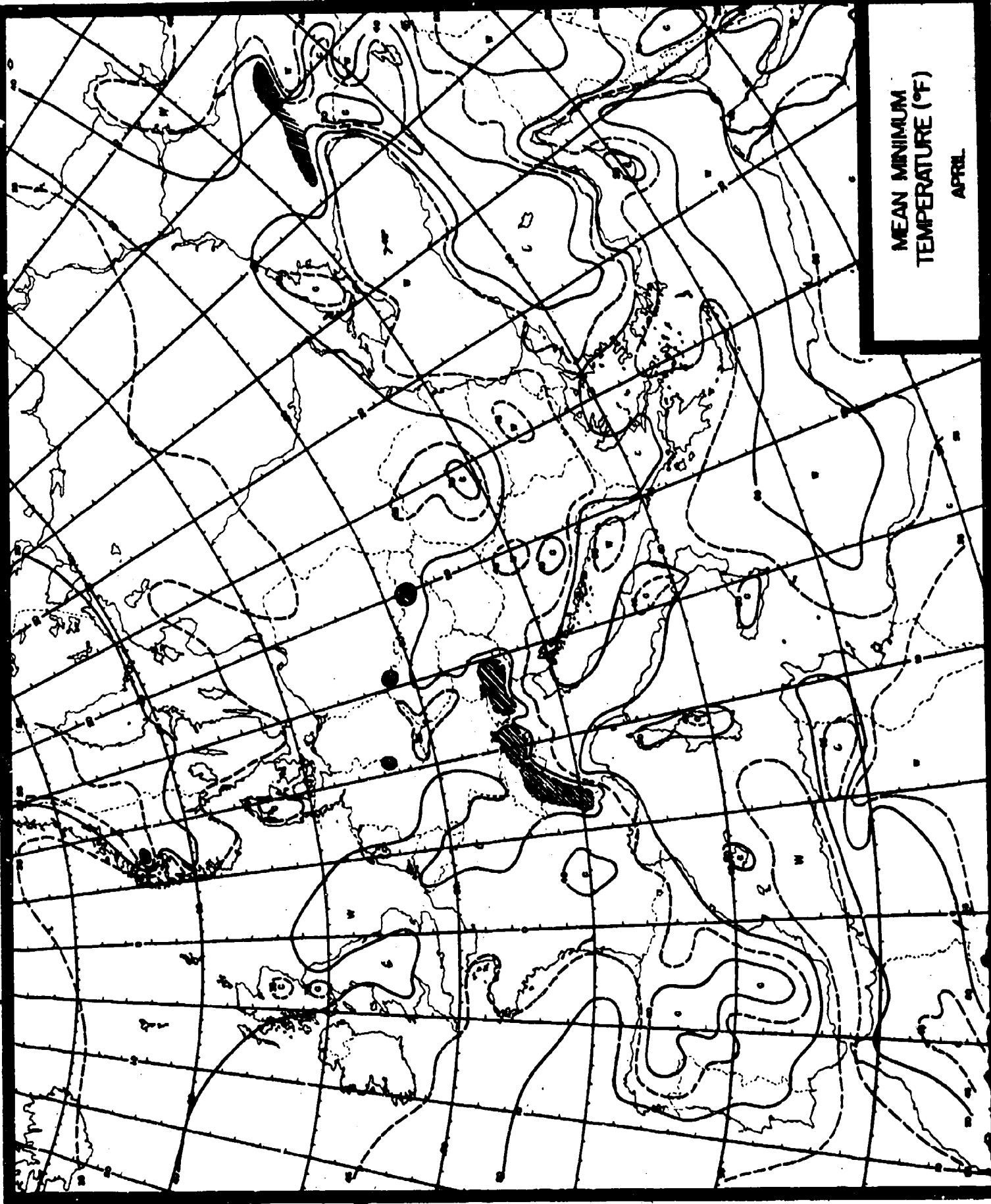


MEAN MAXIMUM
TEMPERATURE (°F)

APRIL

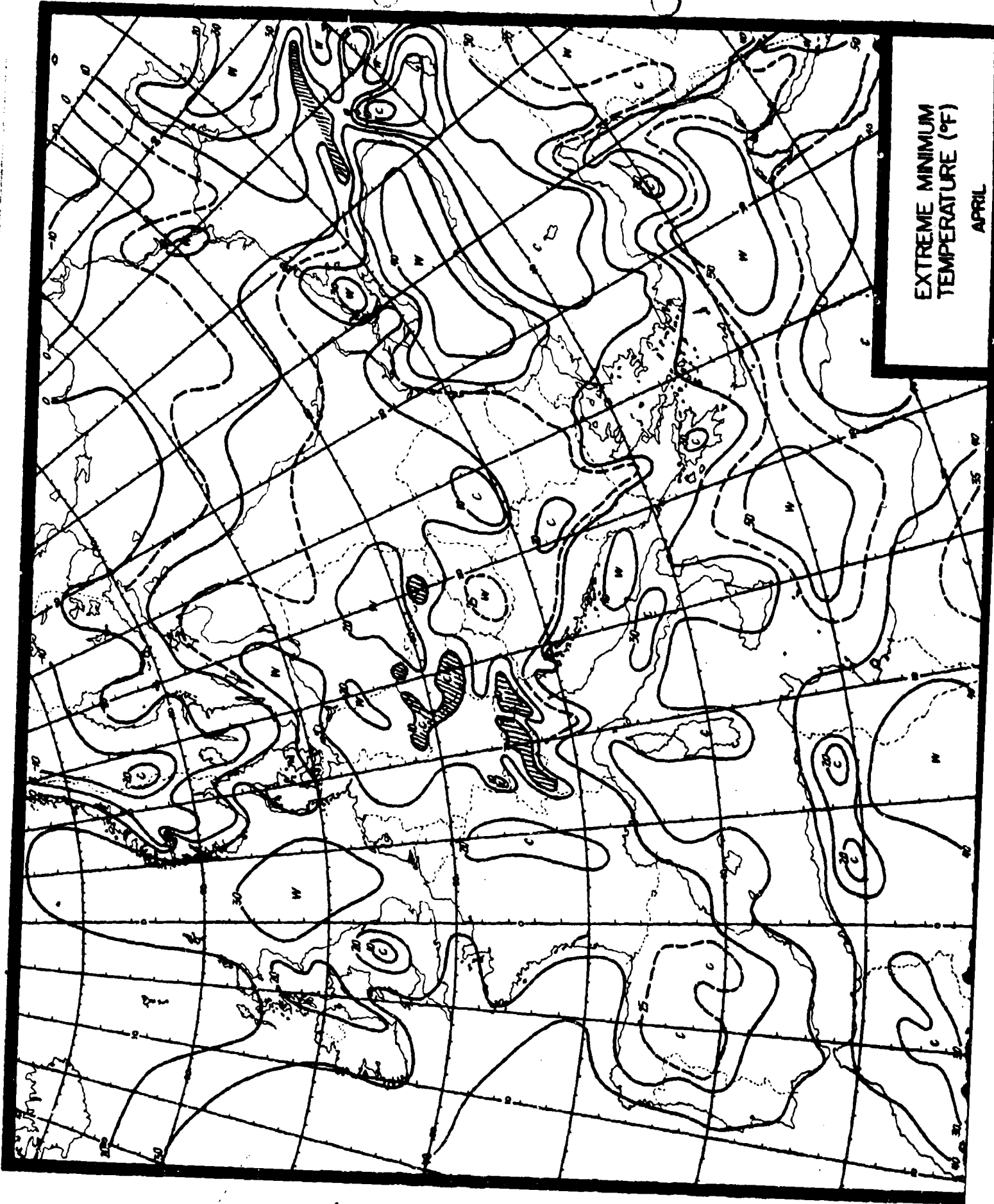


MEAN MINIMUM
TEMPERATURE (°F)
APRIL

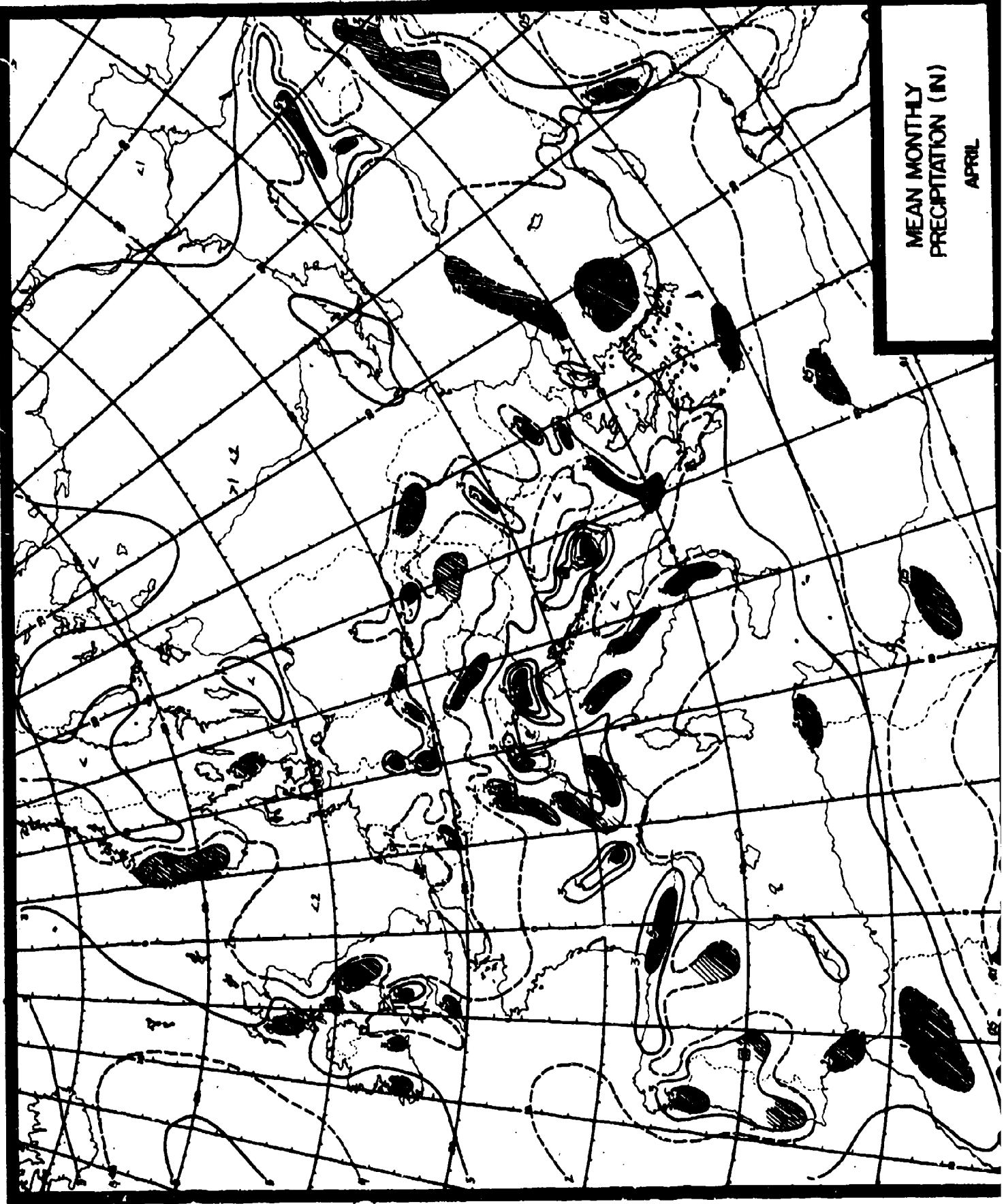


EXTREME MINIMUM
TEMPERATURE (°F)

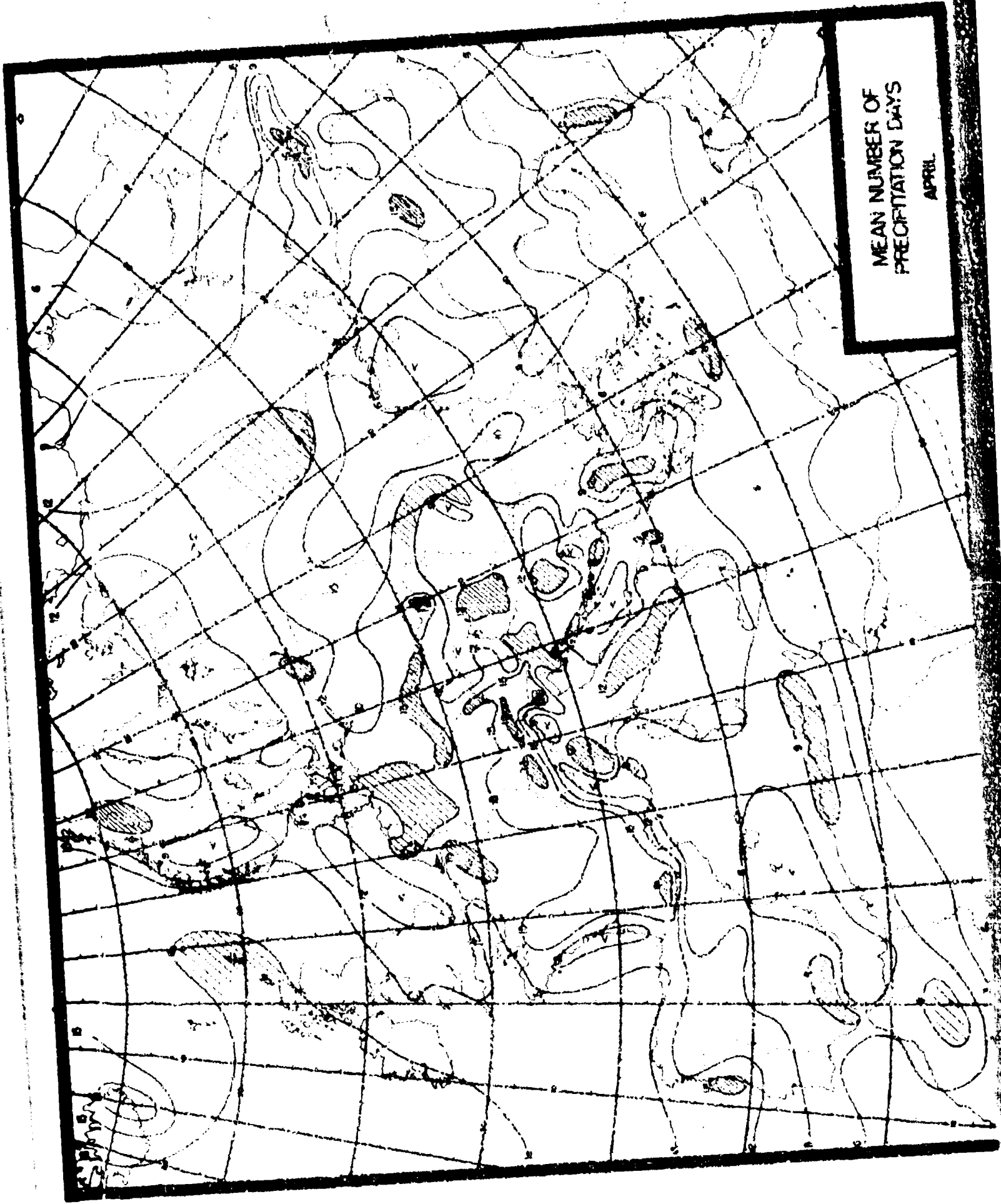
APRIL



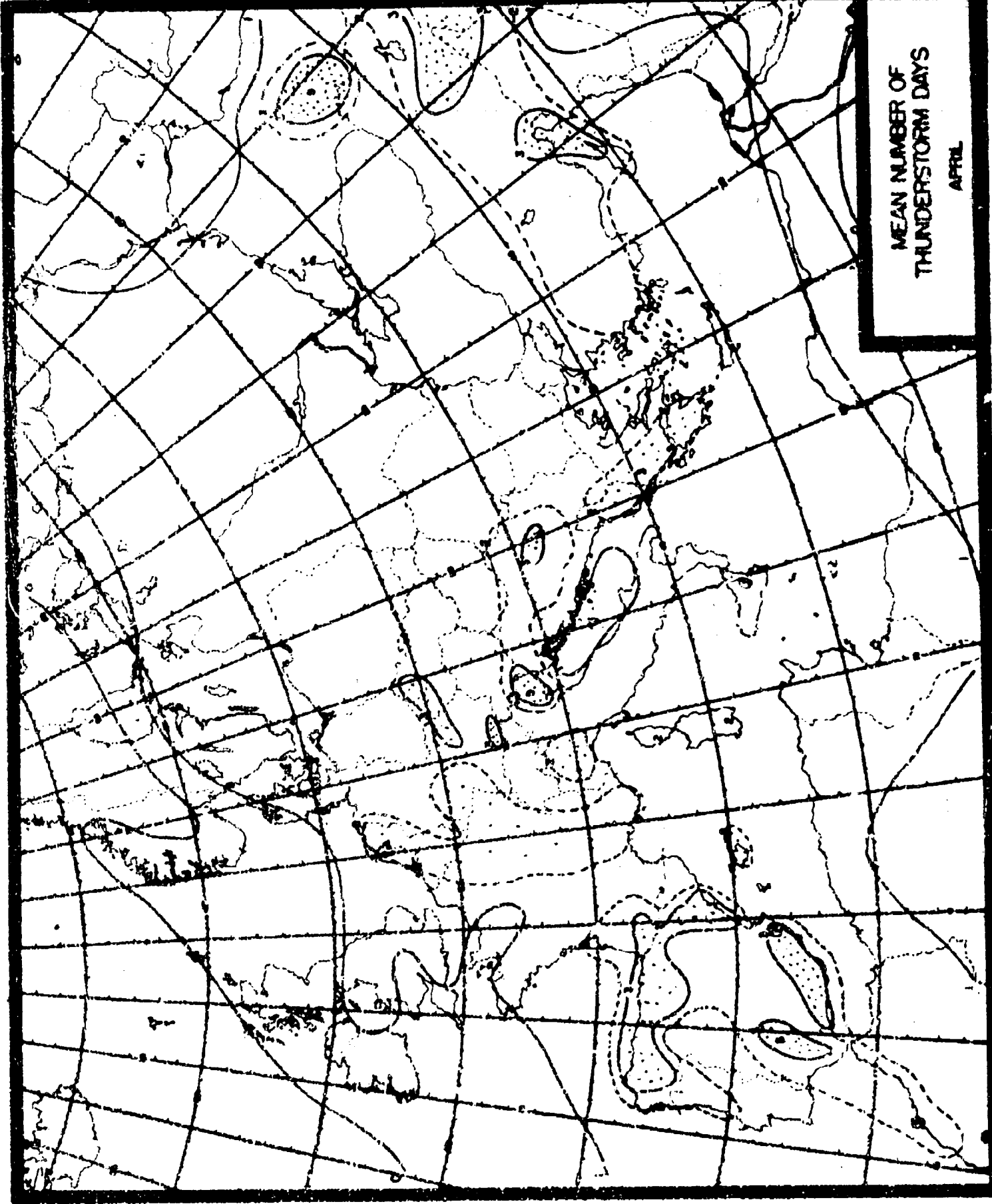
MEAN MONTHLY
PRECIPITATION (IN)
APRIL



MEAN NUMBER OF
PRECIPITATION DAYS
APRIL

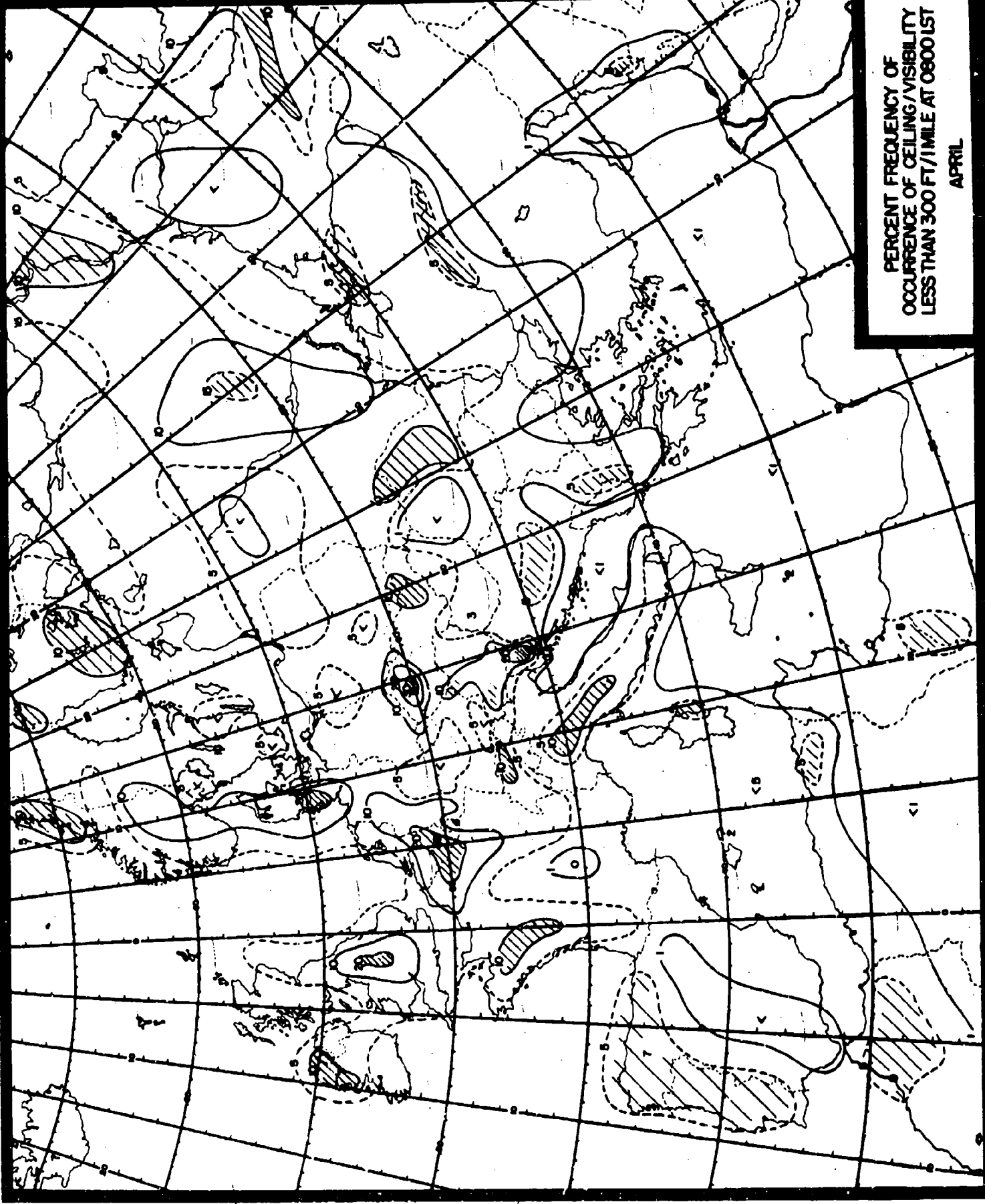


RWMP 105-13(C-1)



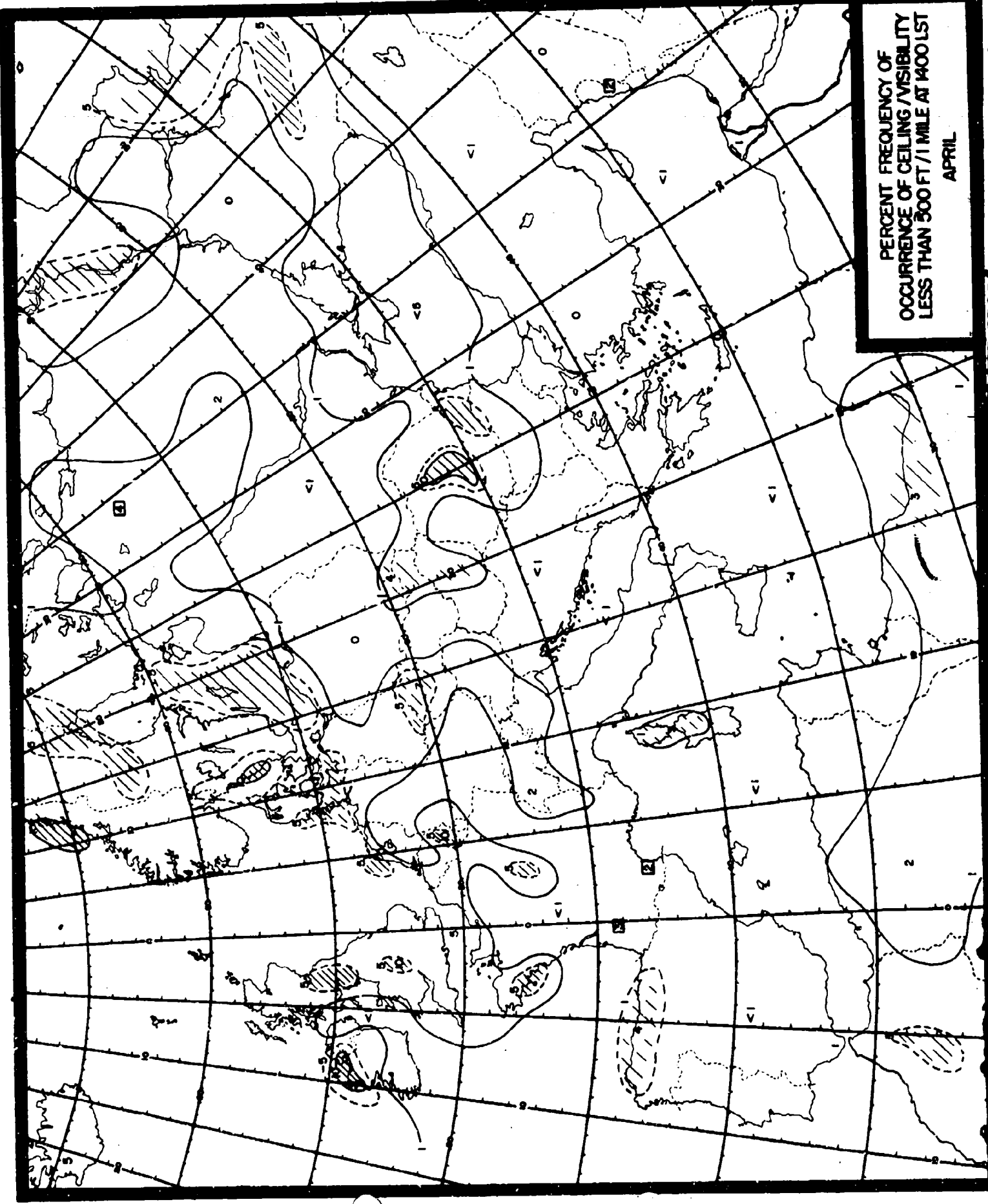
MEAN NUMBER OF
THUNDERSTORM DAYS
APRIL

2 WWP 05-13 (C-4)

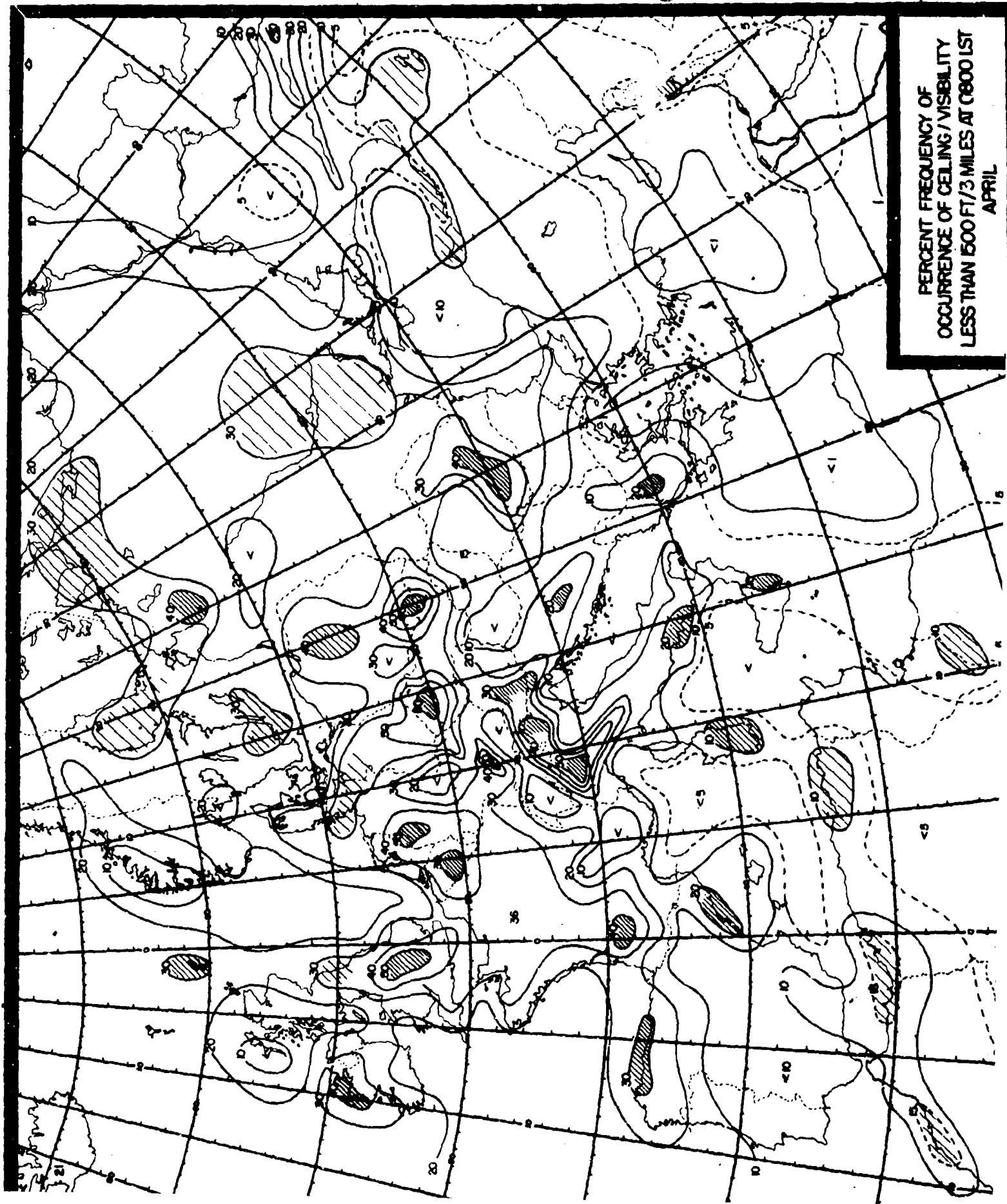


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
APRIL

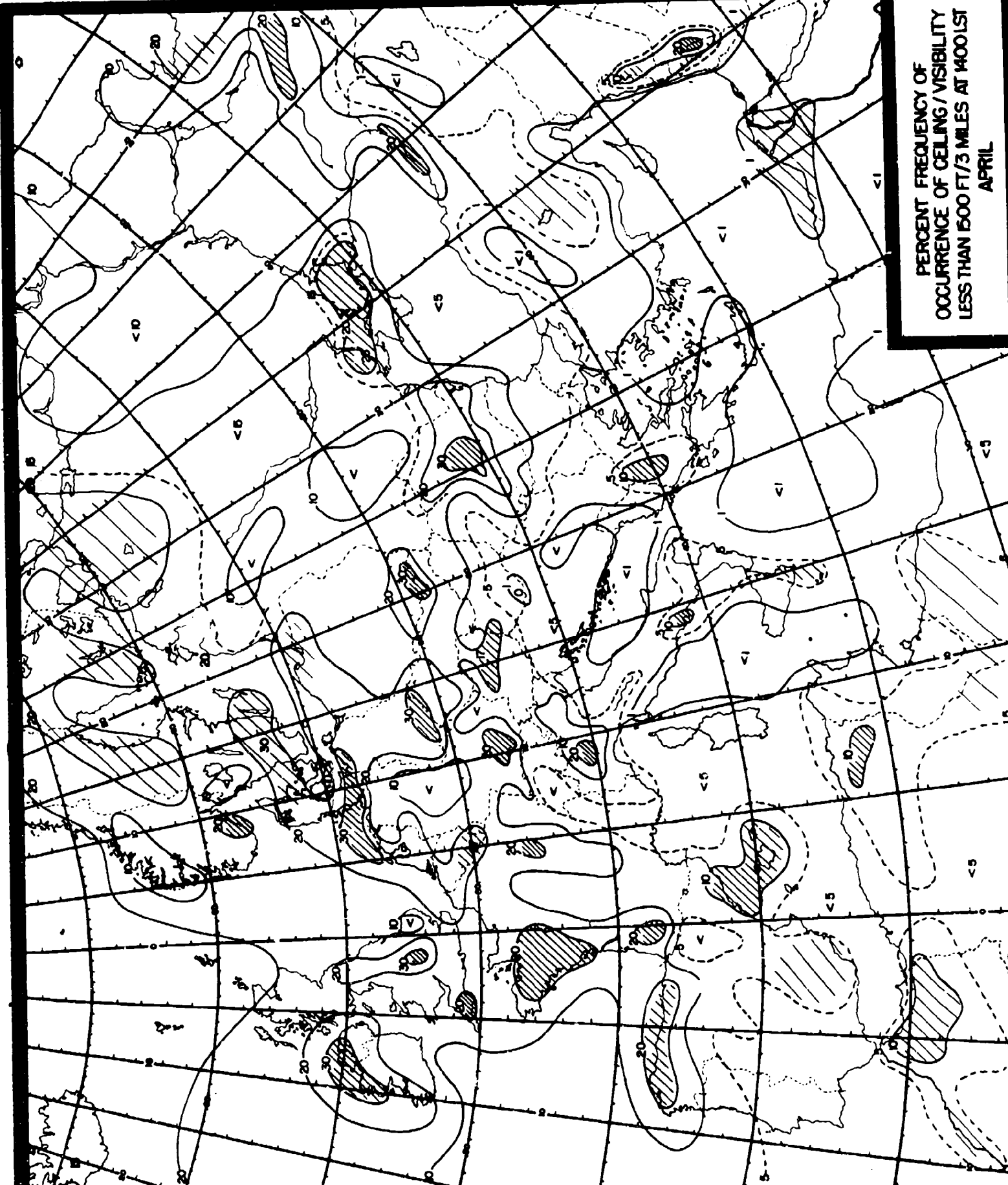
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
APRIL



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
APRIL



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT MOO1ST
APRIL



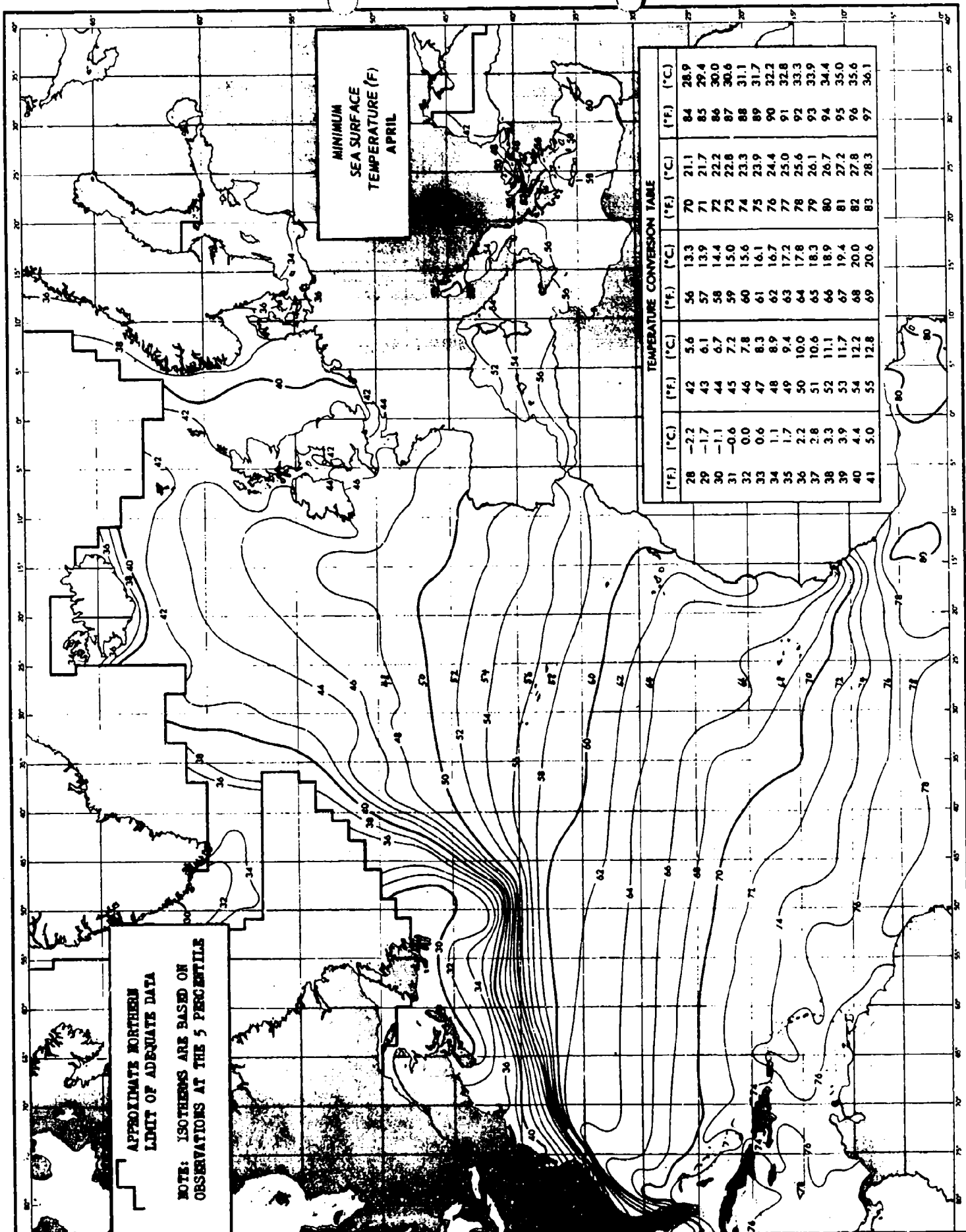
APPROXIMATE NORTHERN
LIMIT OF ADERUATE DATA

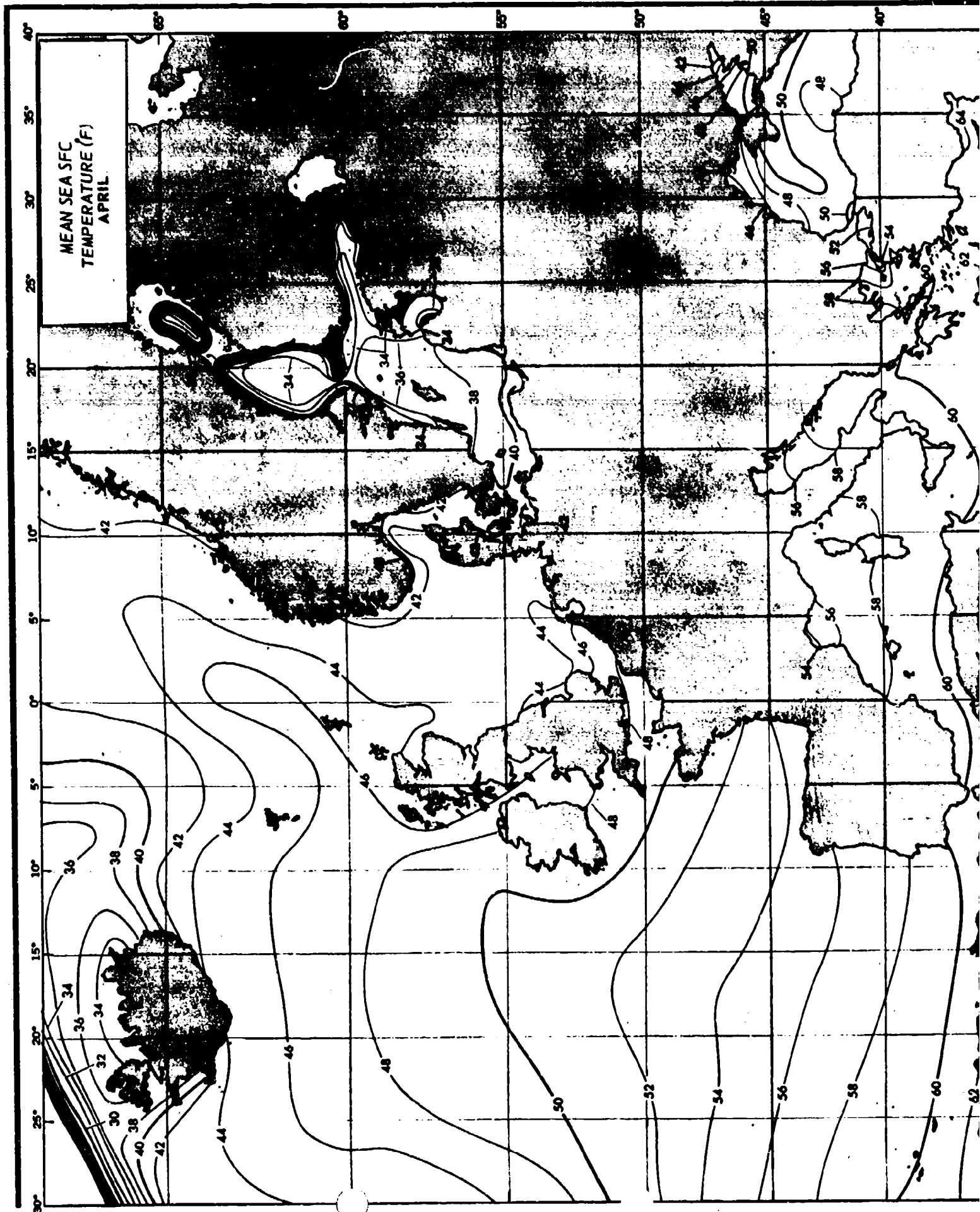
NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILES

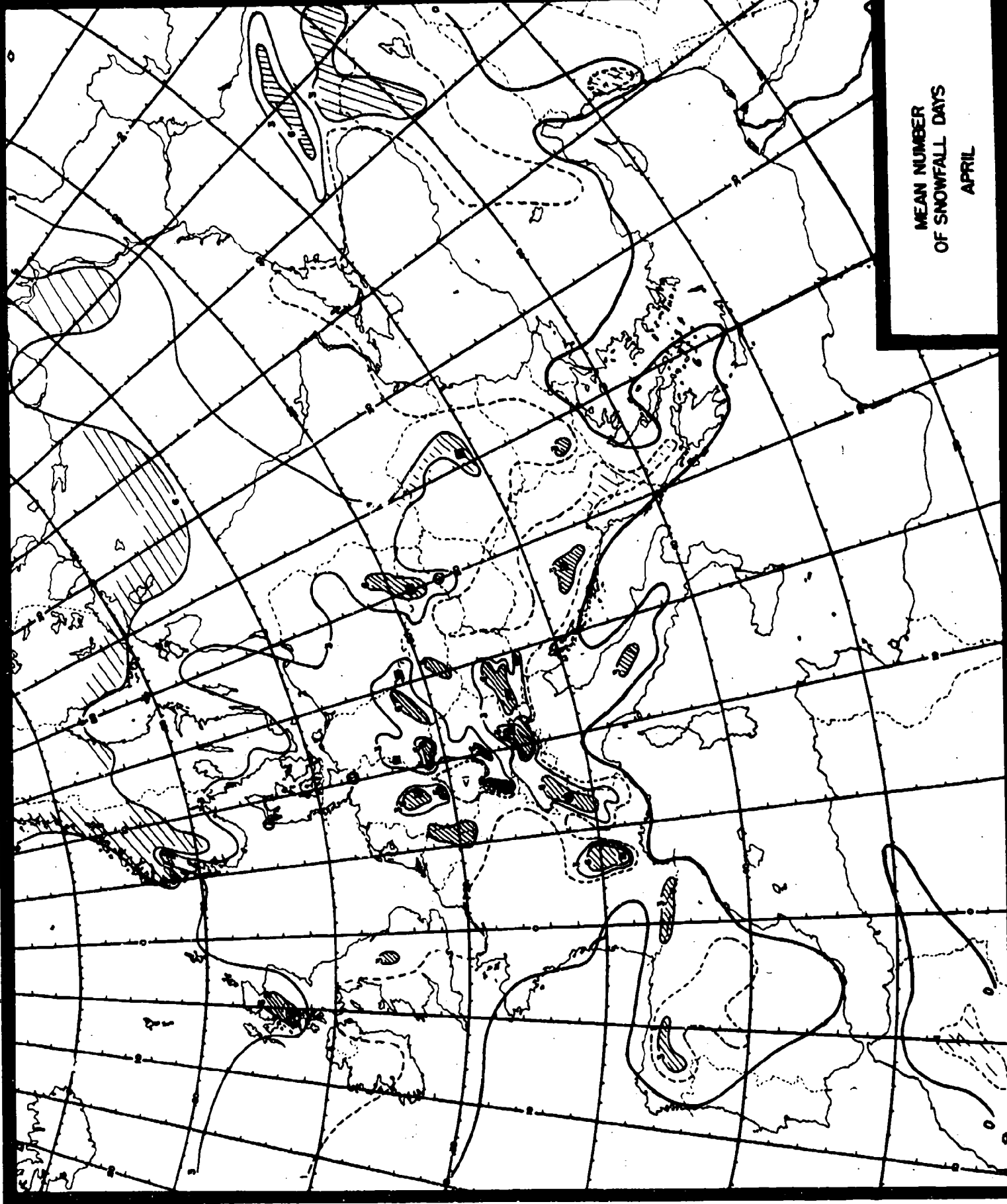
MINIMUM
SEA SURFACE
TEMPERATURE (F)
APRIL

TEMPERATURE CONVERSION TABLE

(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)
28	-2.2	42	5.6	56	13.3	70	21.1
29	-1.7	43	6.1	57	13.9	71	21.7
30	-1.1	44	6.7	58	14.4	72	22.2
31	-0.6	45	7.2	59	15.0	73	22.8
32	0.0	46	7.8	60	15.6	74	23.3
33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
35	1.7	49	9.4	63	17.2	77	25.0
36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.6	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
						92	33.3
						93	33.9
						94	34.4
						95	35.0
						96	35.6
						97	36.1



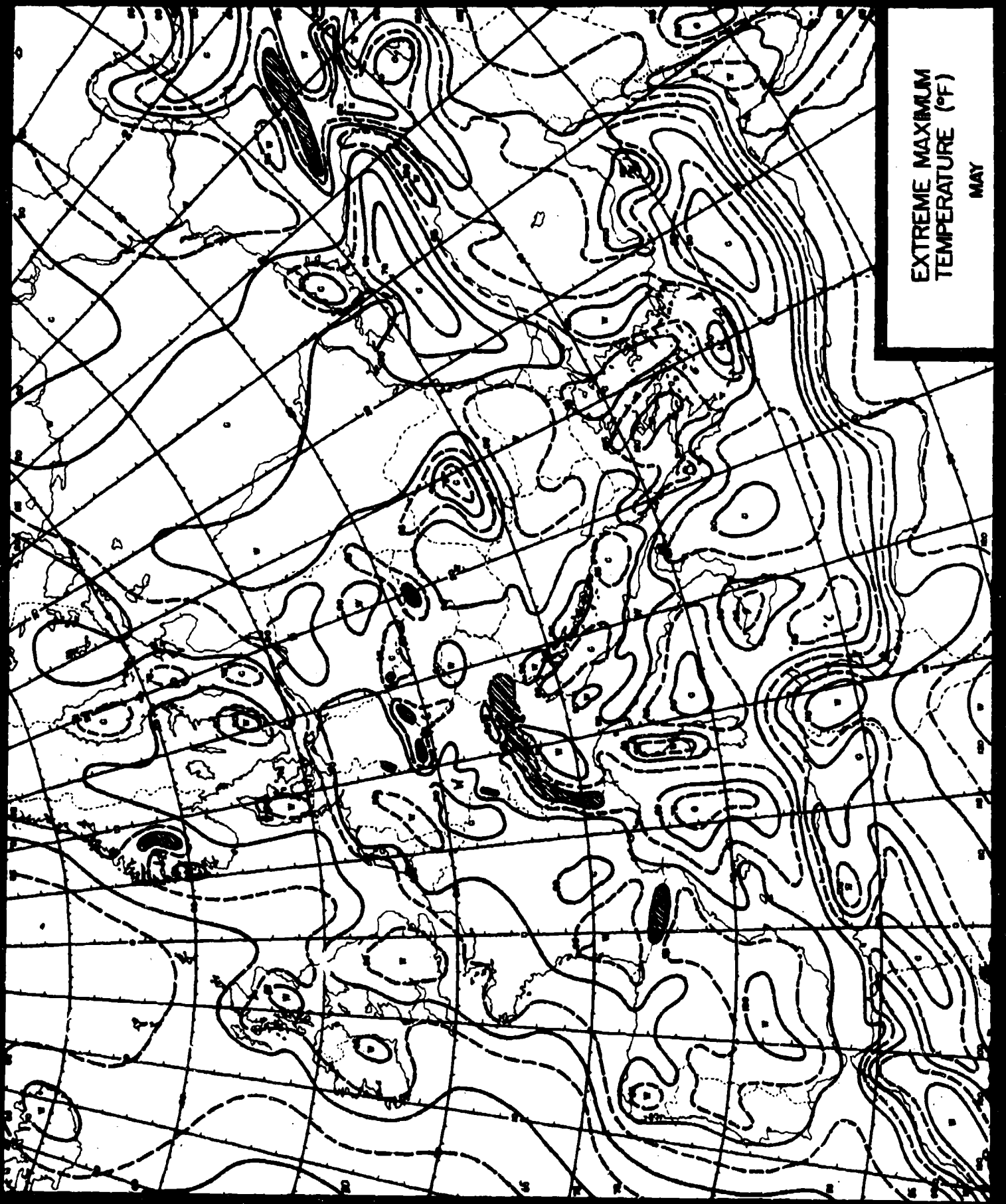




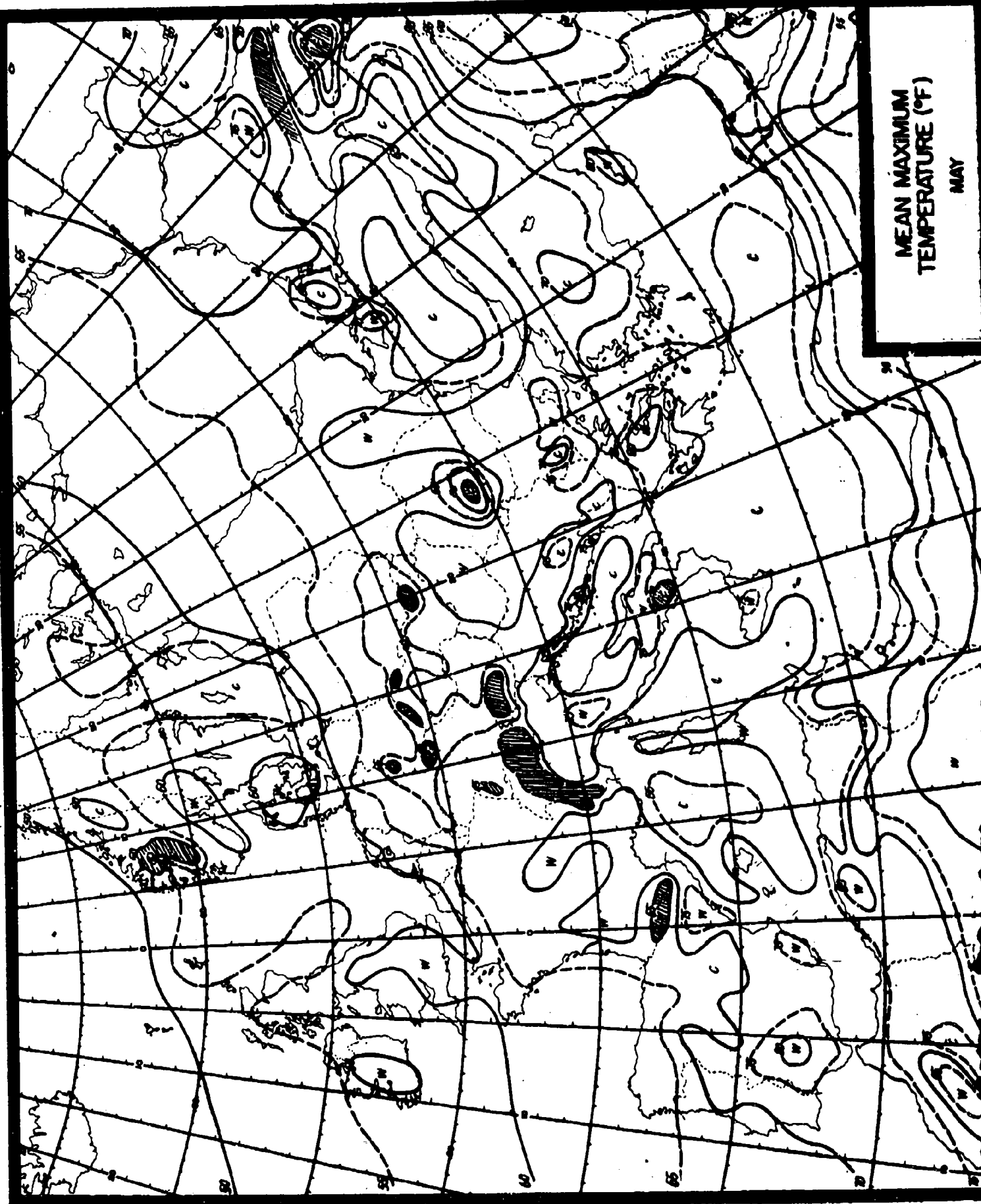
MEAN NUMBER
OF SNOWFALL DAYS
APRIL

EXTREME MAXIMUM
TEMPERATURE (°F)

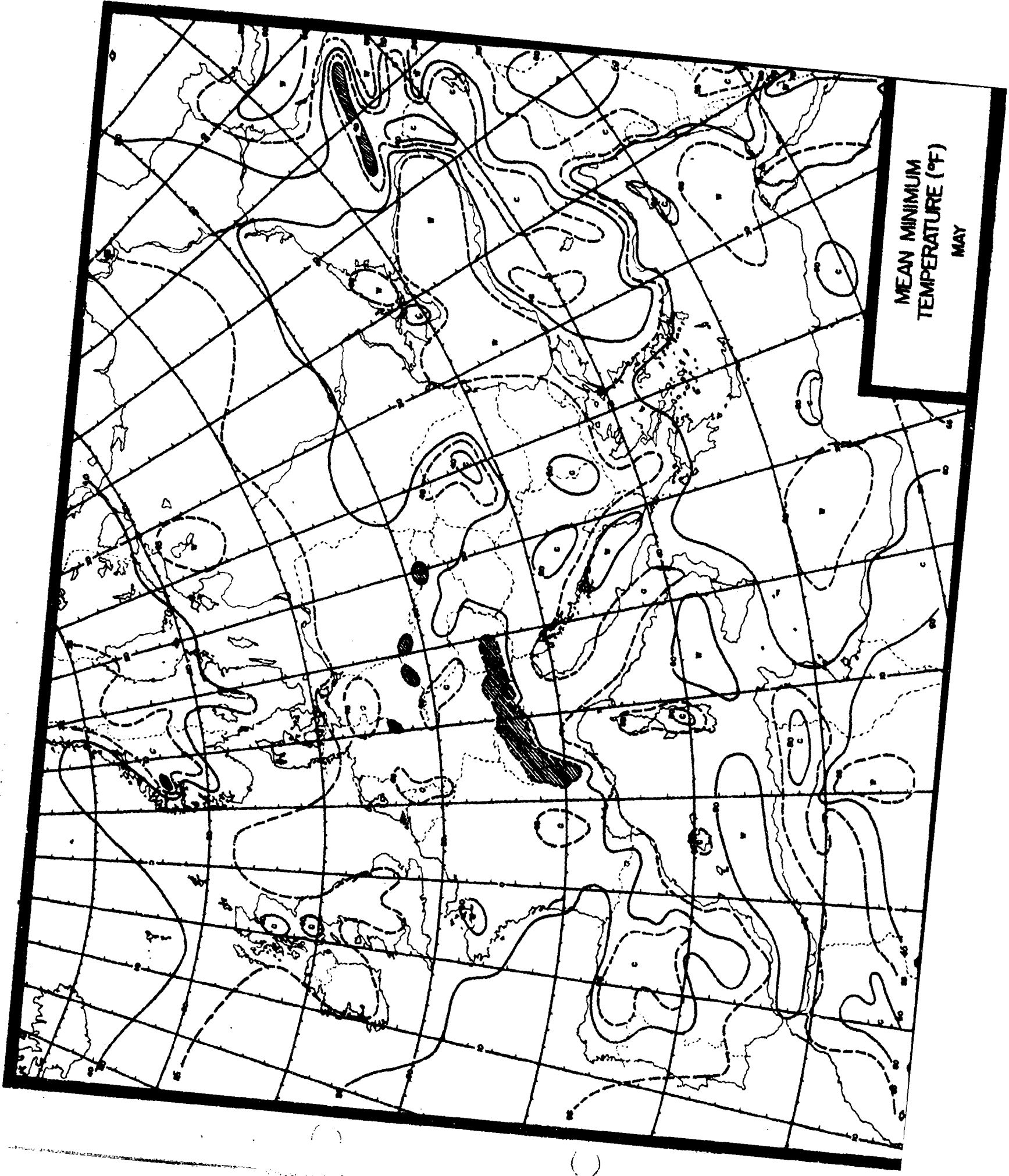
MAY



MEAN MAXIMUM
TEMPERATURE (°F)
MAY

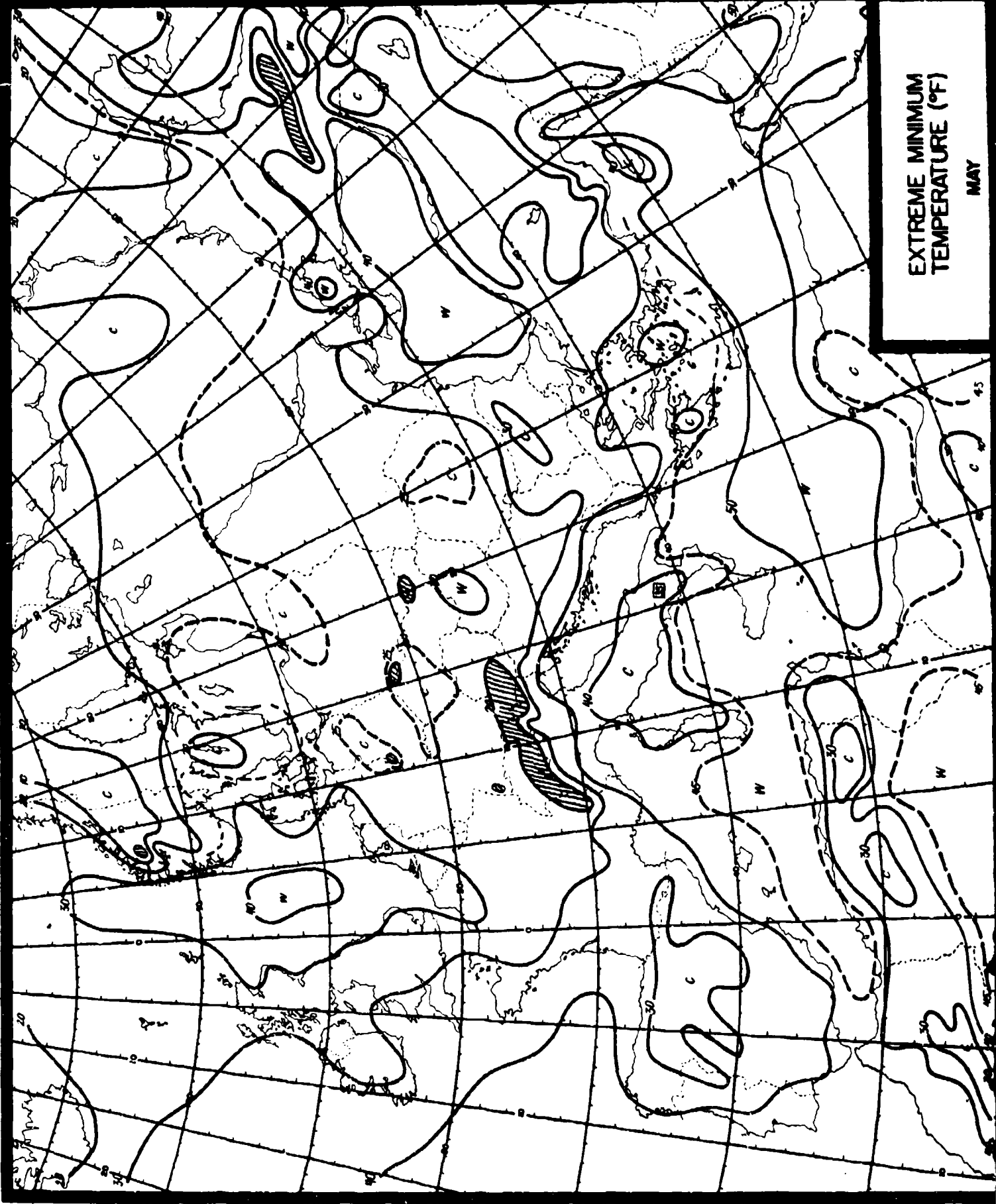


MEAN MINIMUM
TEMPERATURE (°F)
MAY



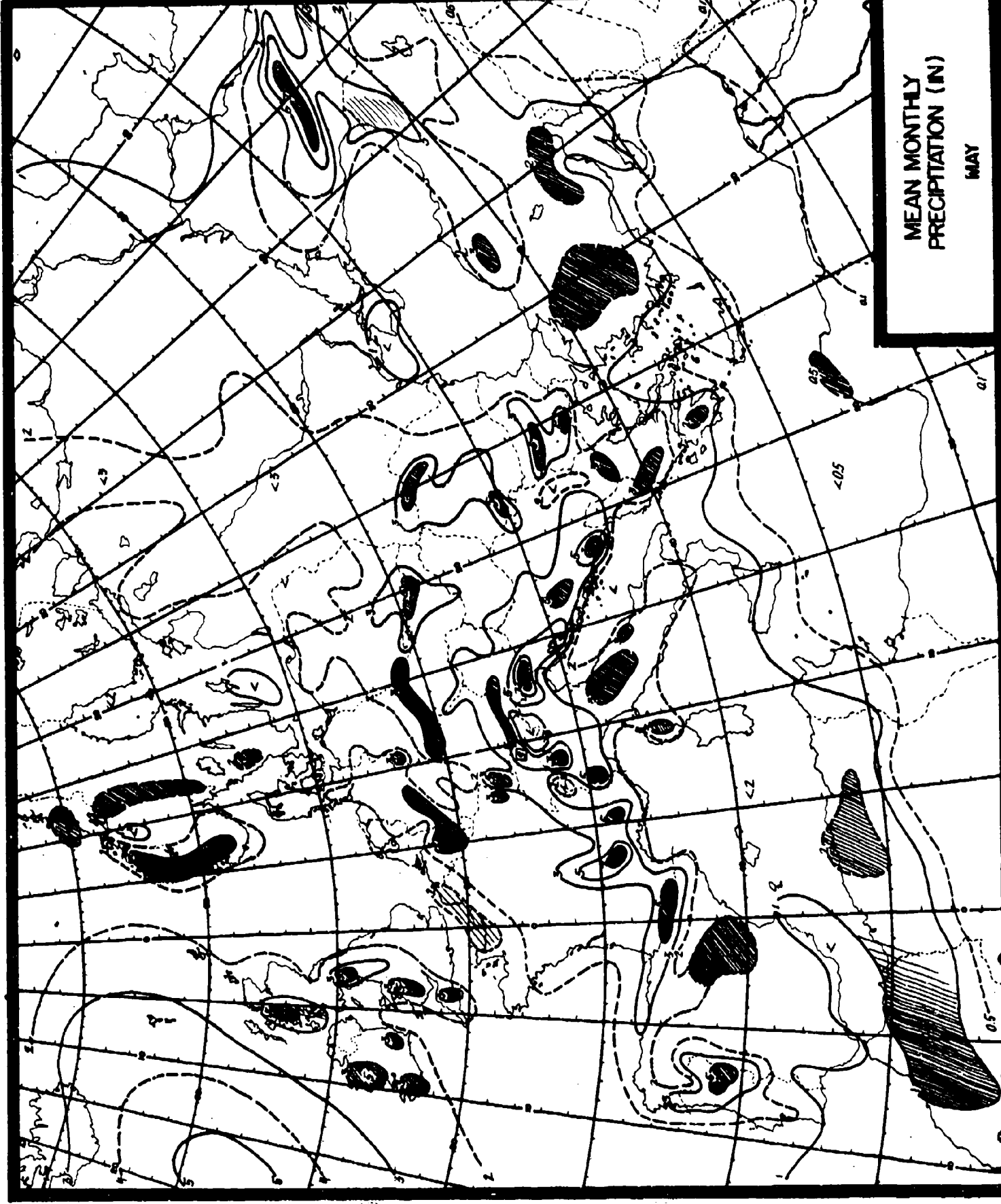
EXTREME MINIMUM
TEMPERATURE (°F)

MAY



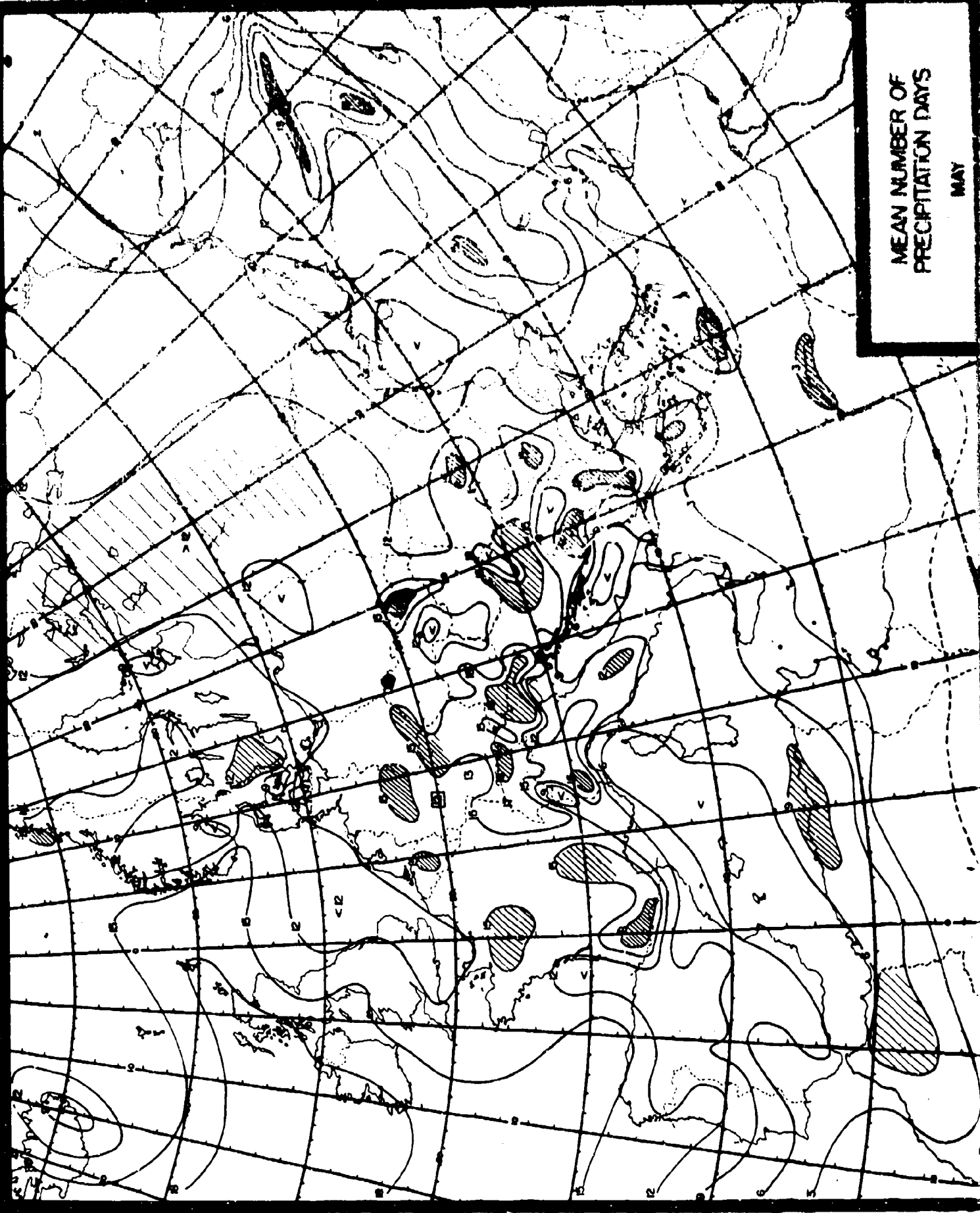
MEAN MONTHLY
PRECIPITATION (IN)

MAY

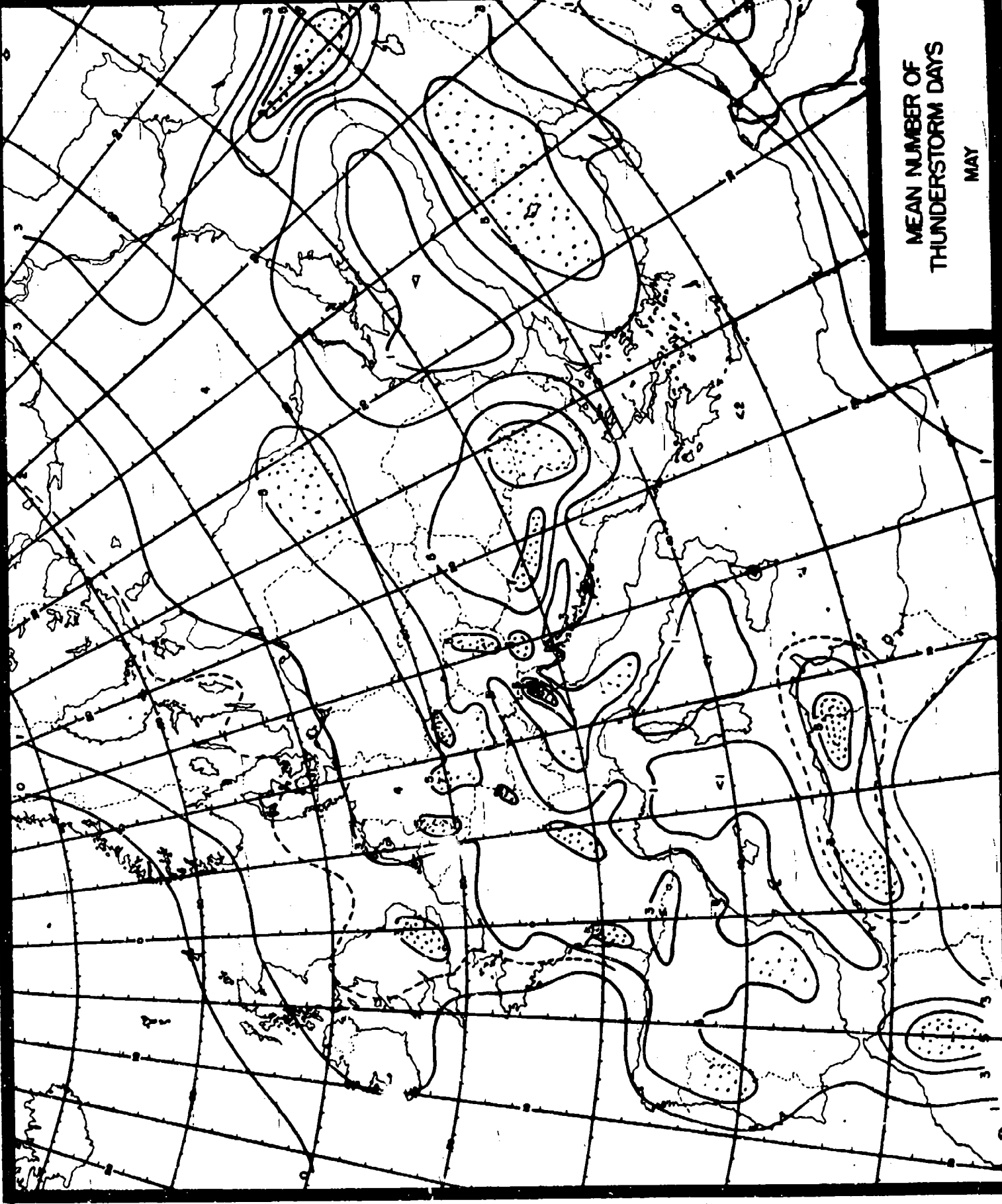


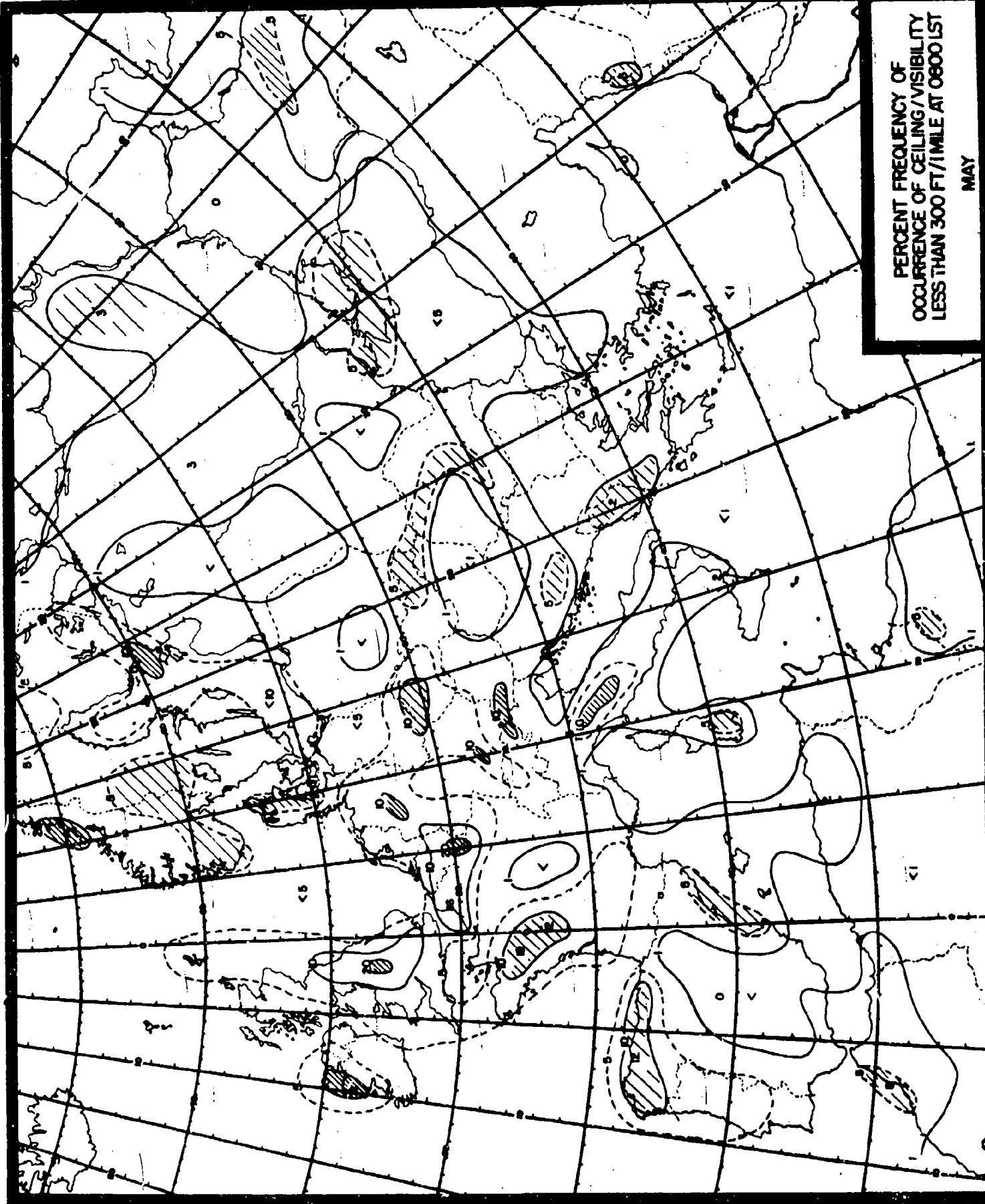
MEAN NUMBER OF
PRECIPITATION DAYS

MAY



MEAN NUMBER OF
THUNDERSTORM DAYS
MAY

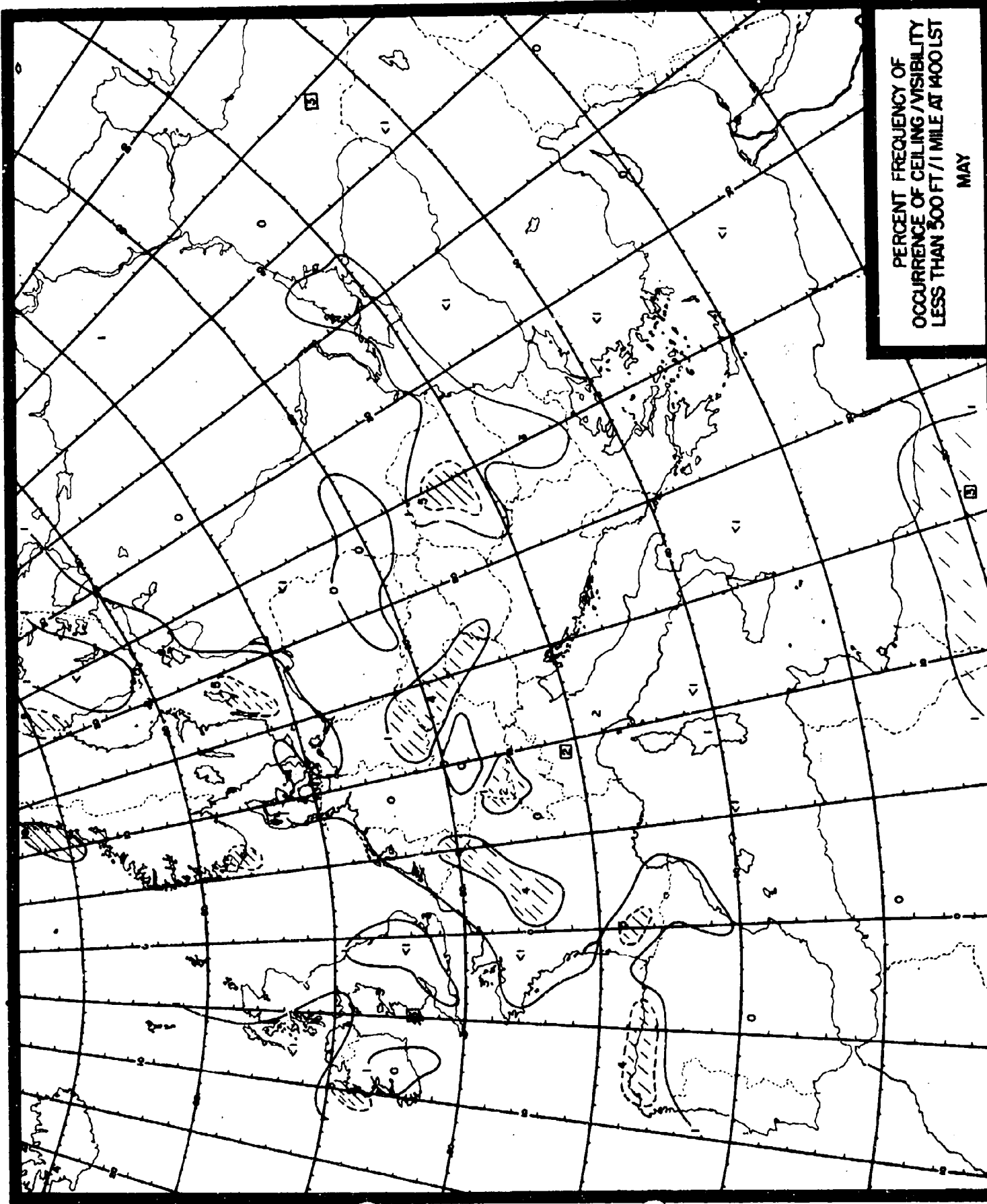




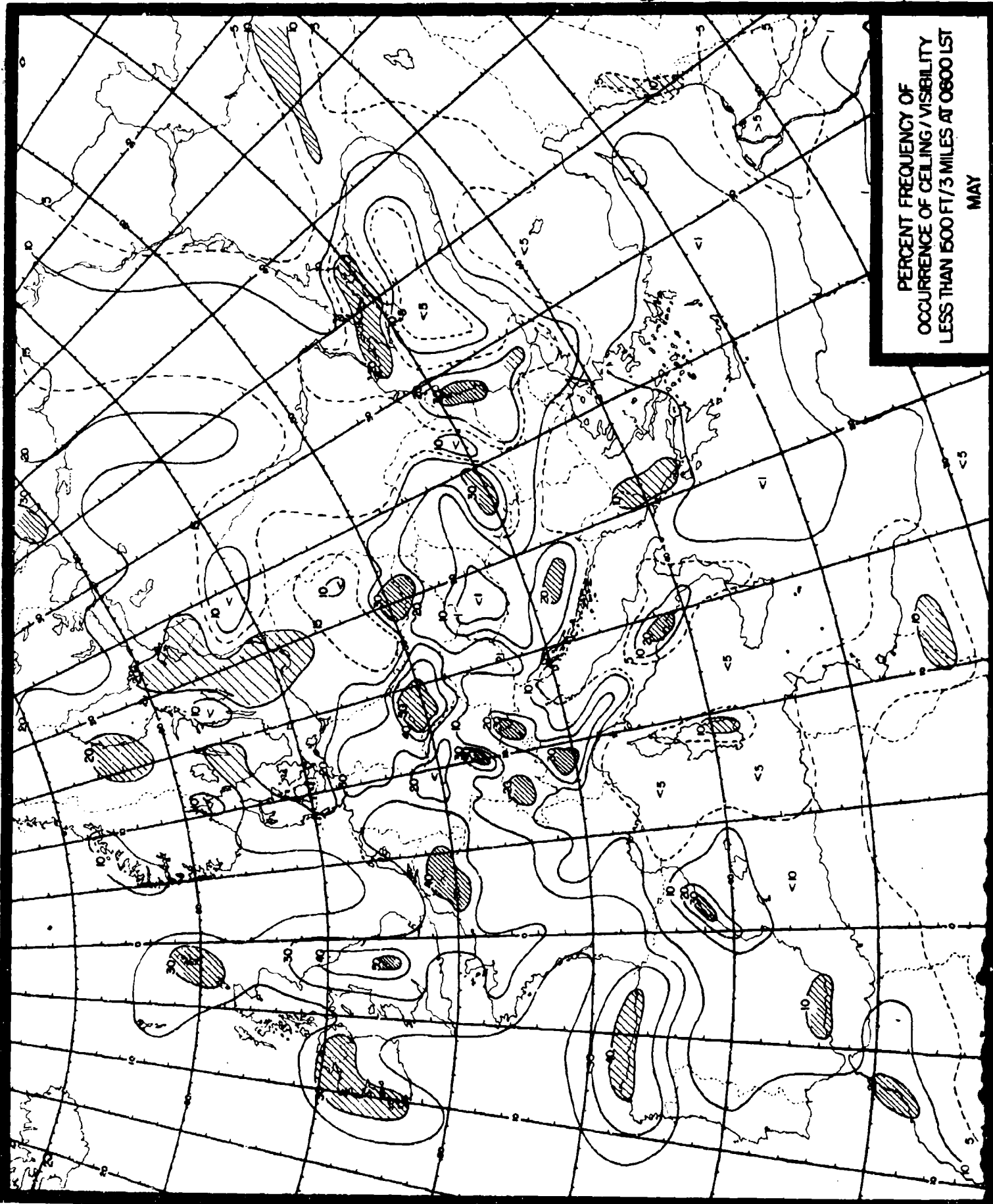
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST

MAY

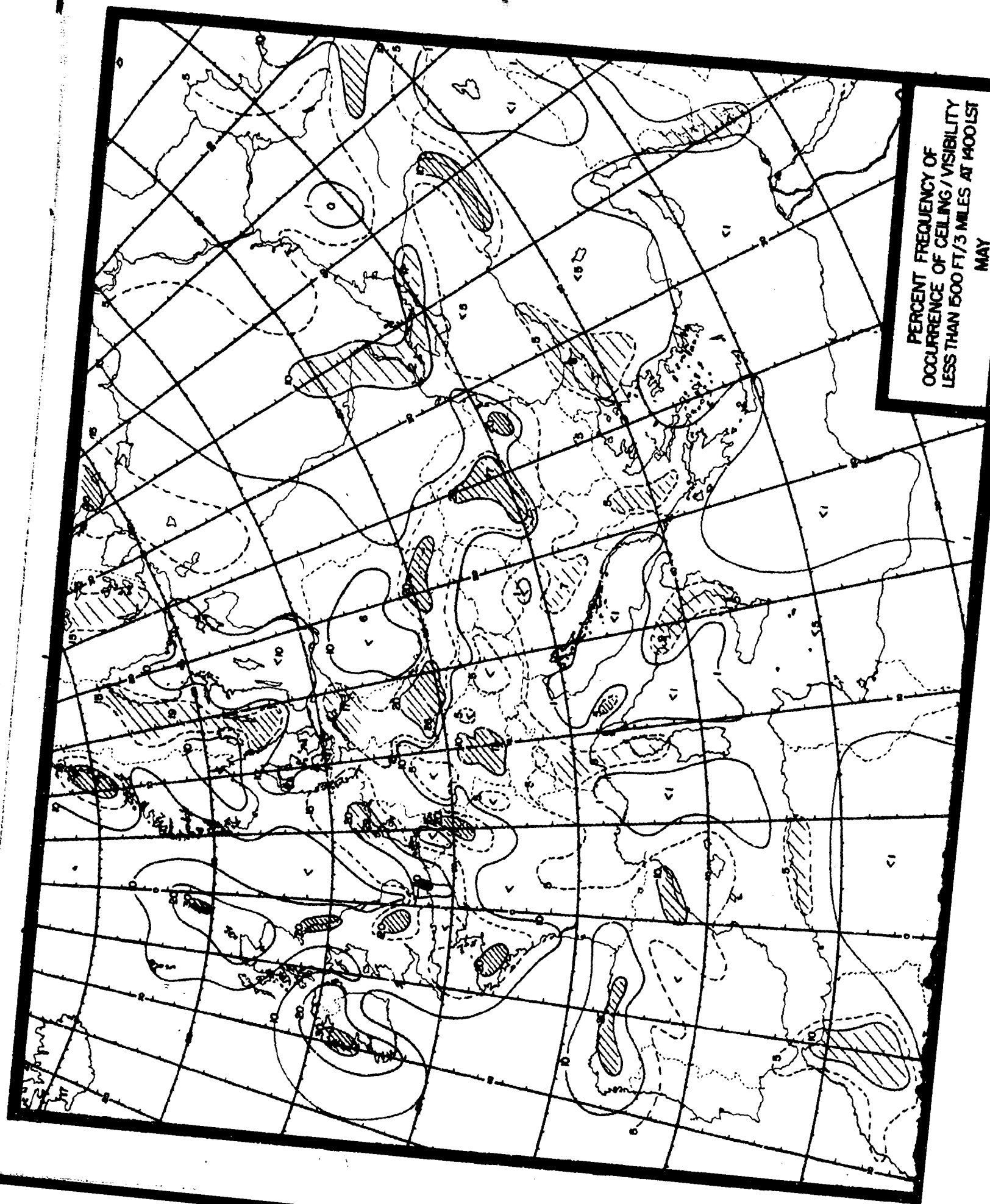
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
MAY

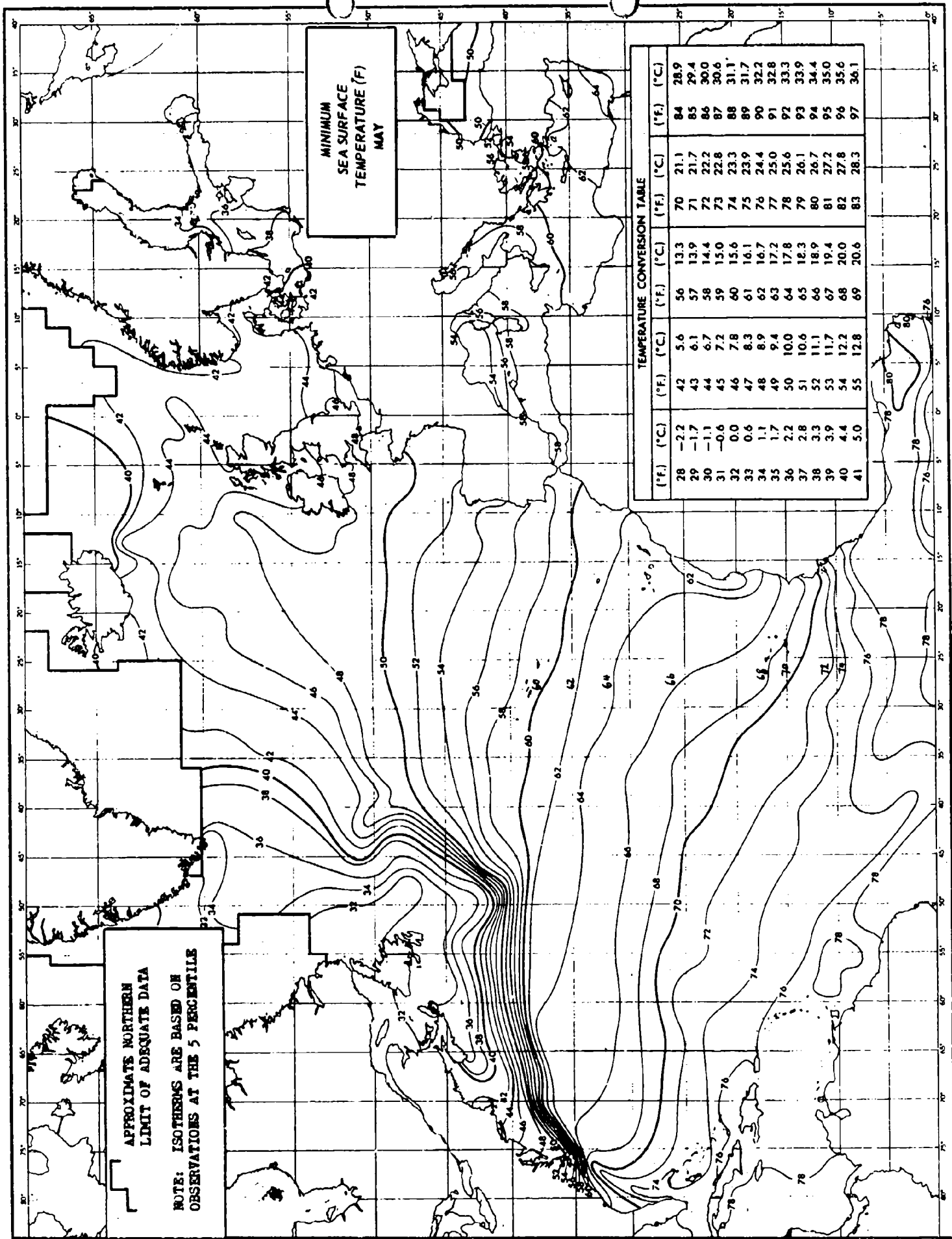


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0600 LST
MAY



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT MOOIST
MAY





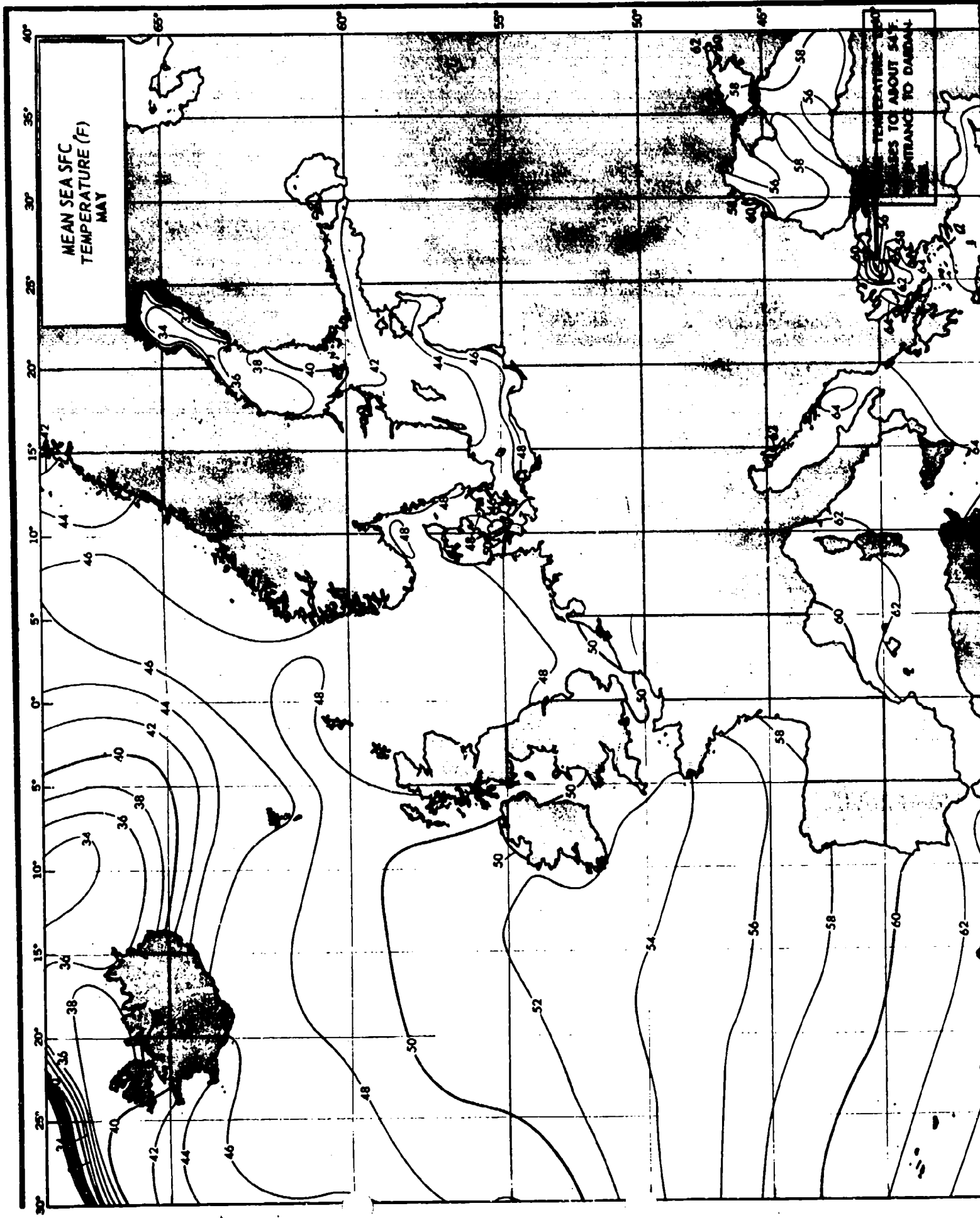
**MINIMUM
SEA SURFACE
TEMPERATURE (F)
MAY**

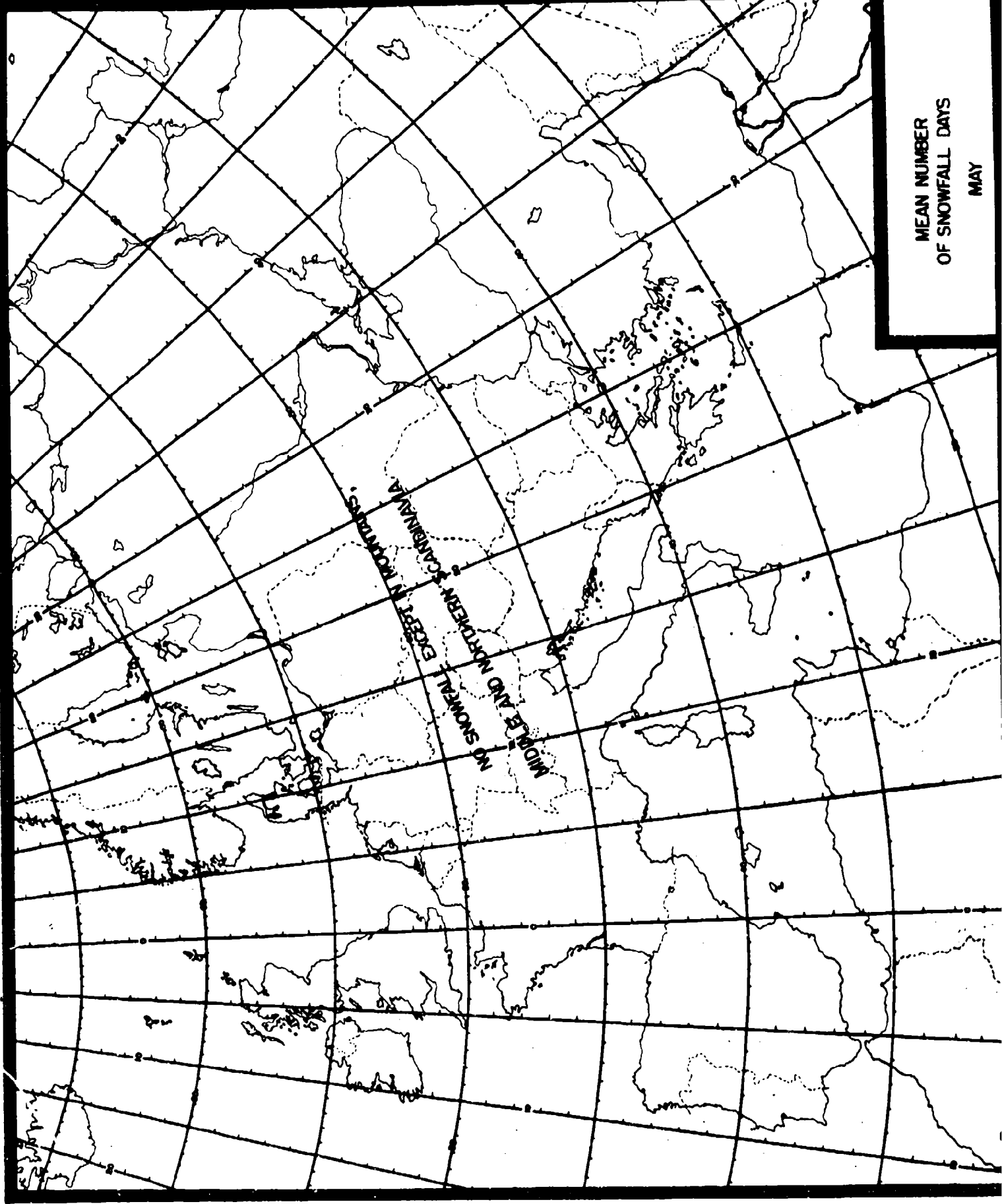
**APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA**

**NOTE: ISOOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE**

TEMPERATURE CONVERSION TABLE

(°F.) (°C.)	(°F.) (°C.)	(°F.) (°C.)	(°F.) (°C.)	(°F.) (°C.)	(°F.) (°C.)				
28	-2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	-1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	-1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	-0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

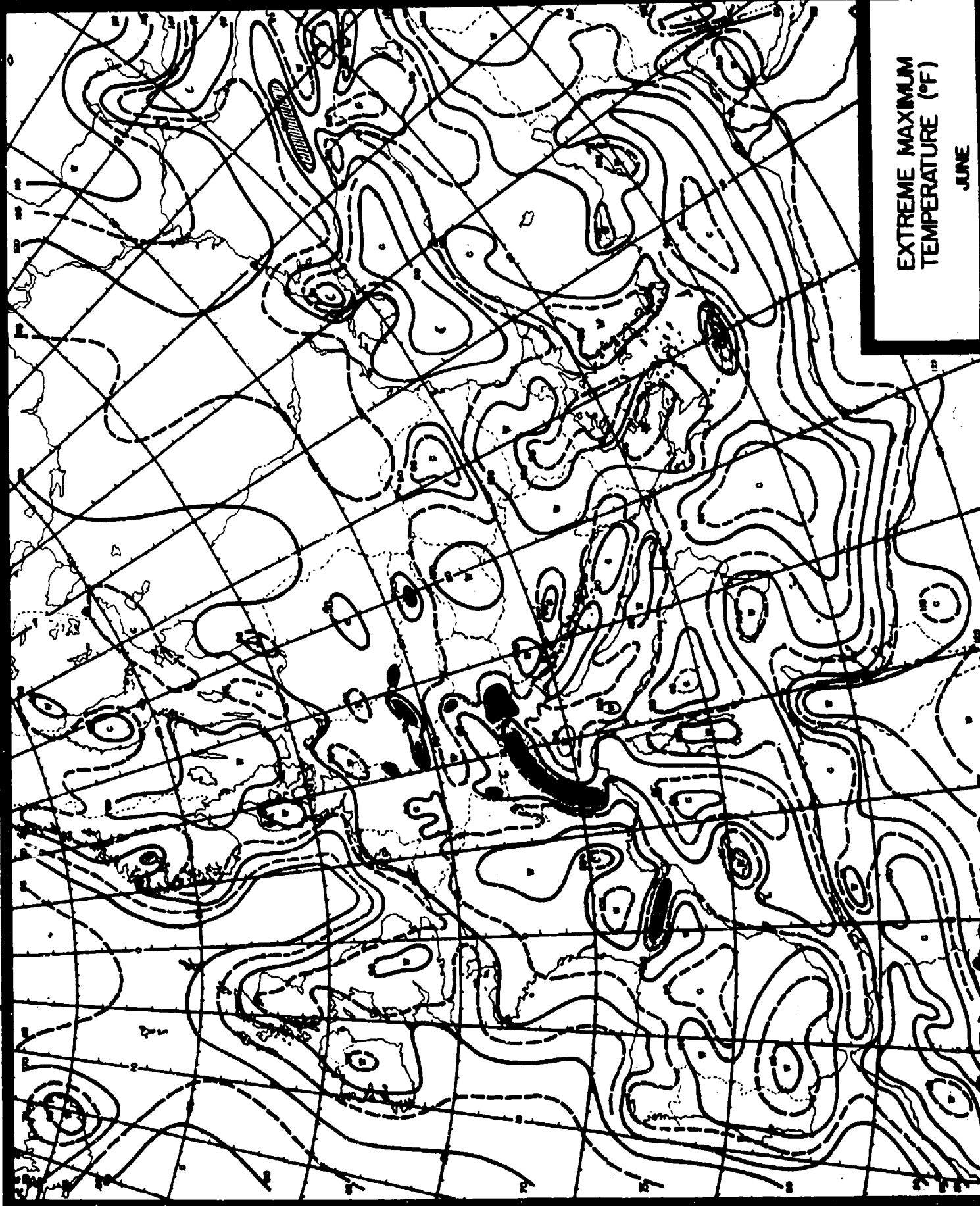




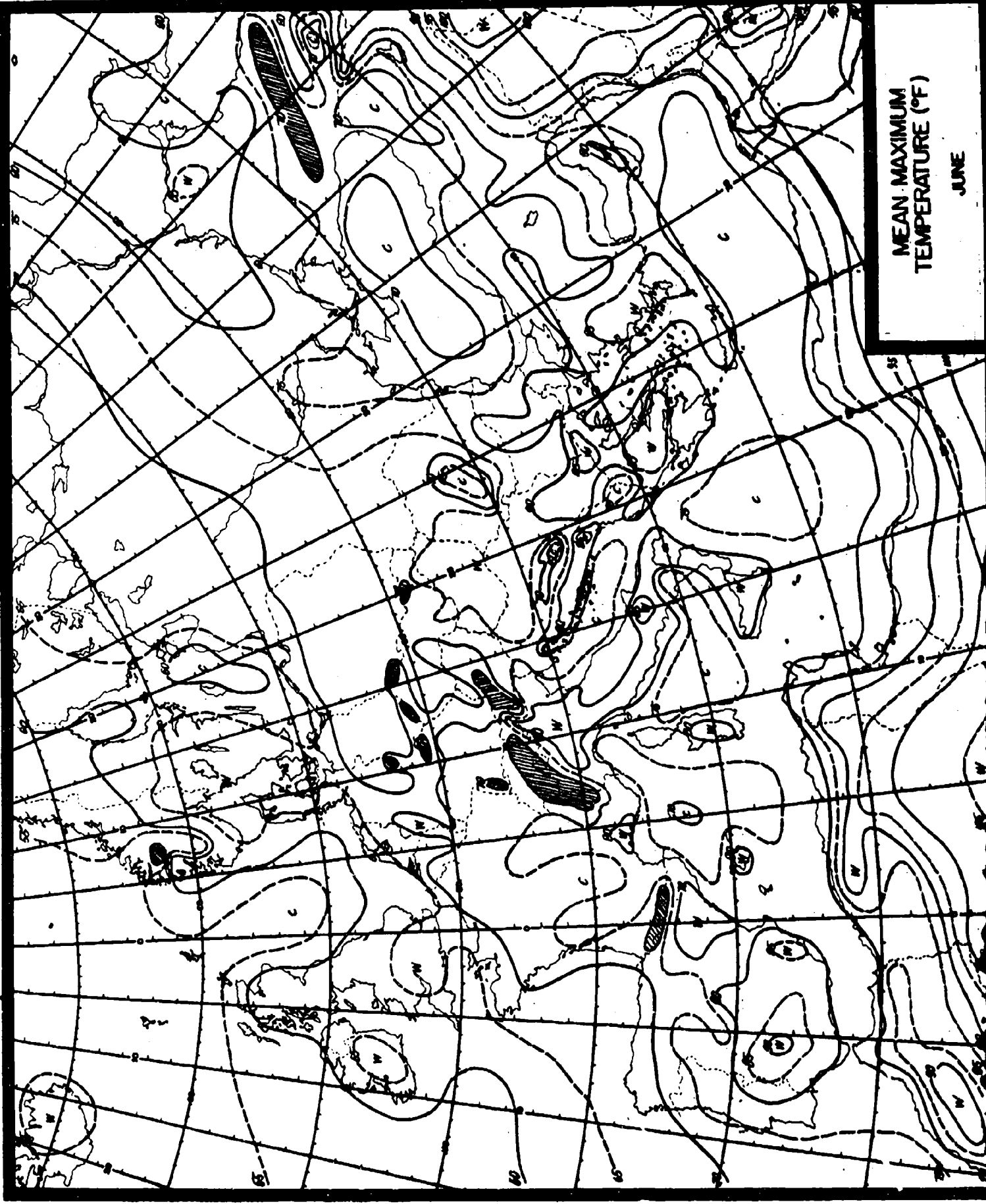
MEAN NUMBER
OF SNOWFALL DAYS
MAY

EXTREME MAXIMUM
TEMPERATURE (°F)

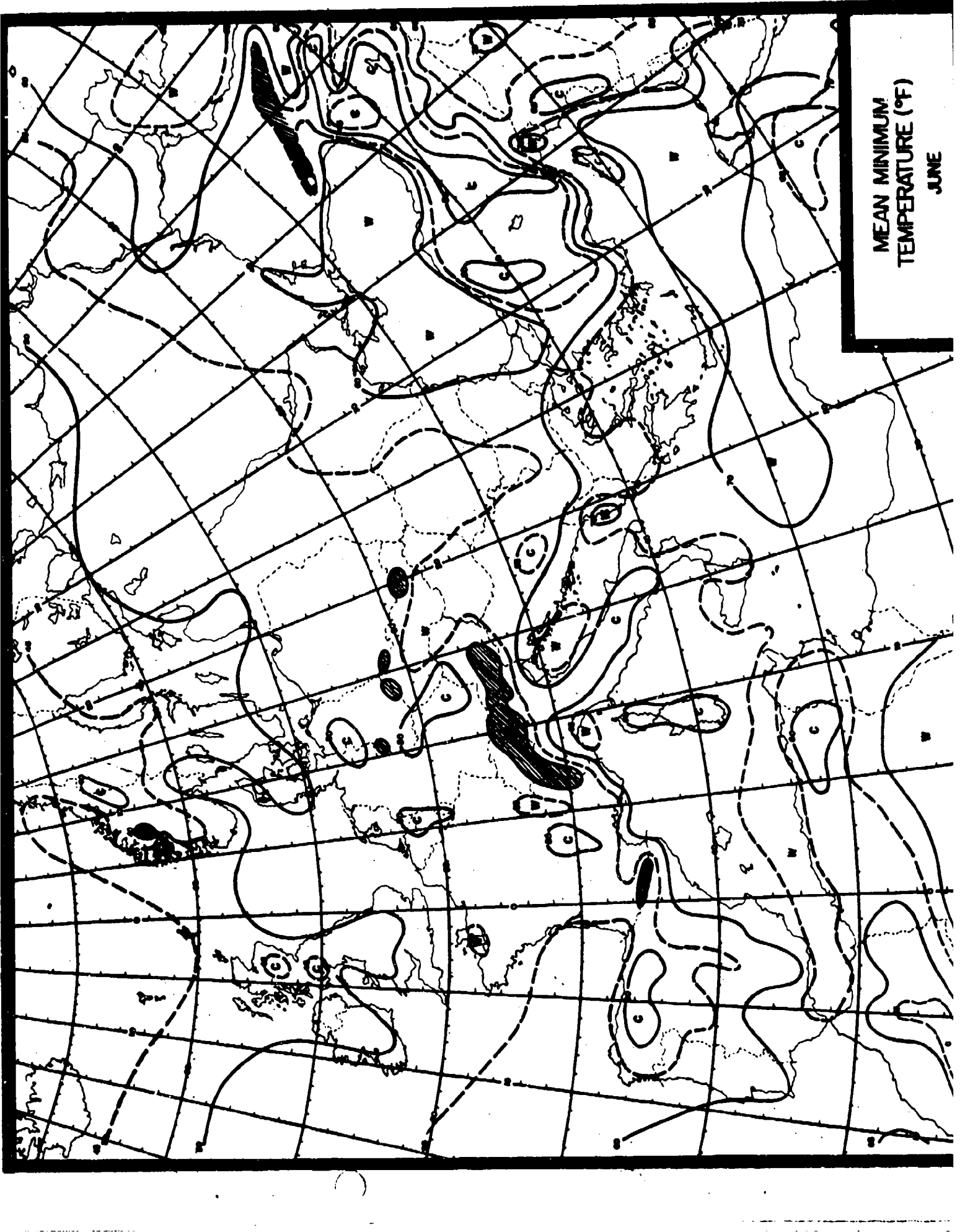
JUNE

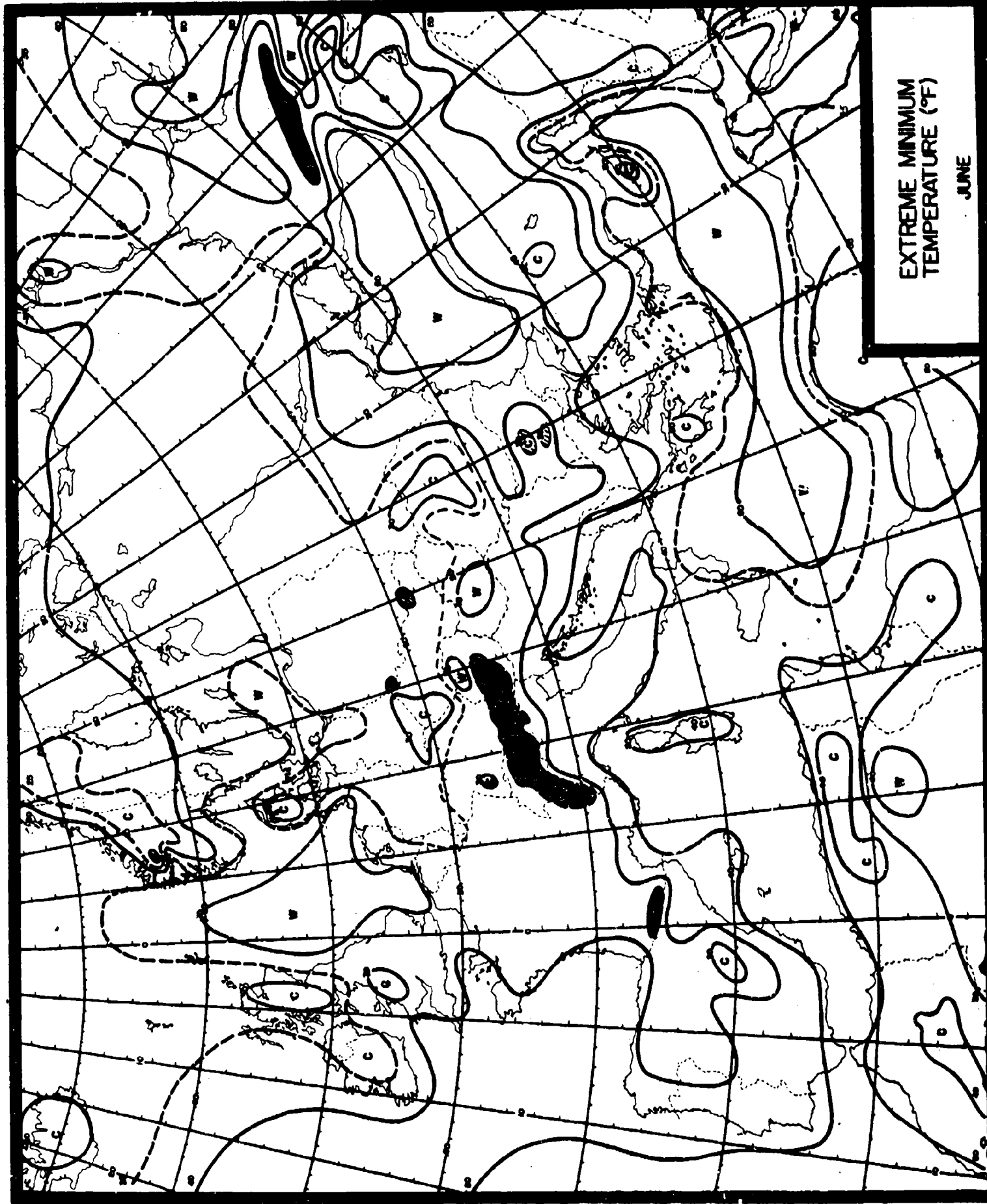


MEAN MAXIMUM
TEMPERATURE (°F)
JUNE



MEAN MINIMUM
TEMPERATURE (°F)
JUNE

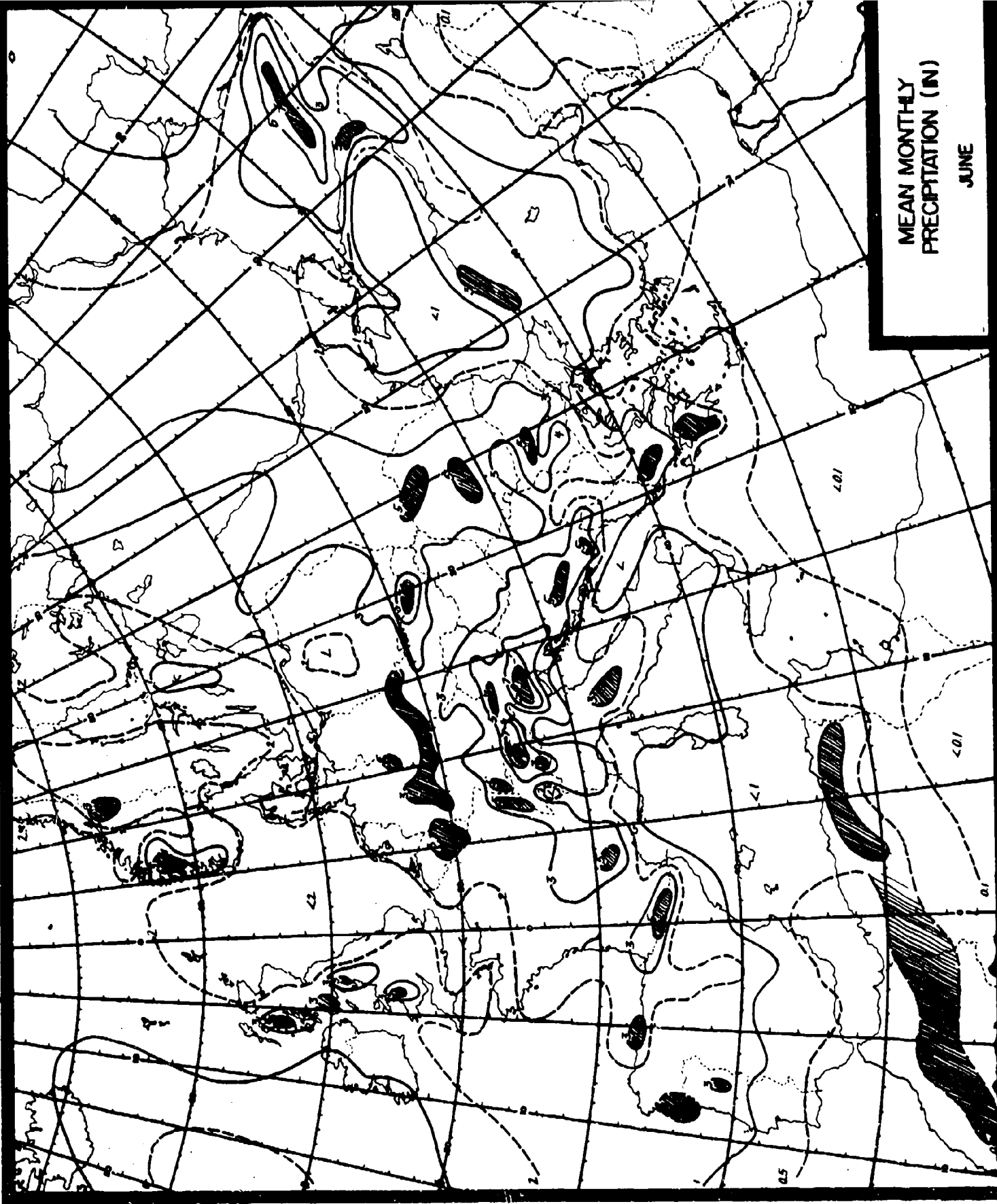




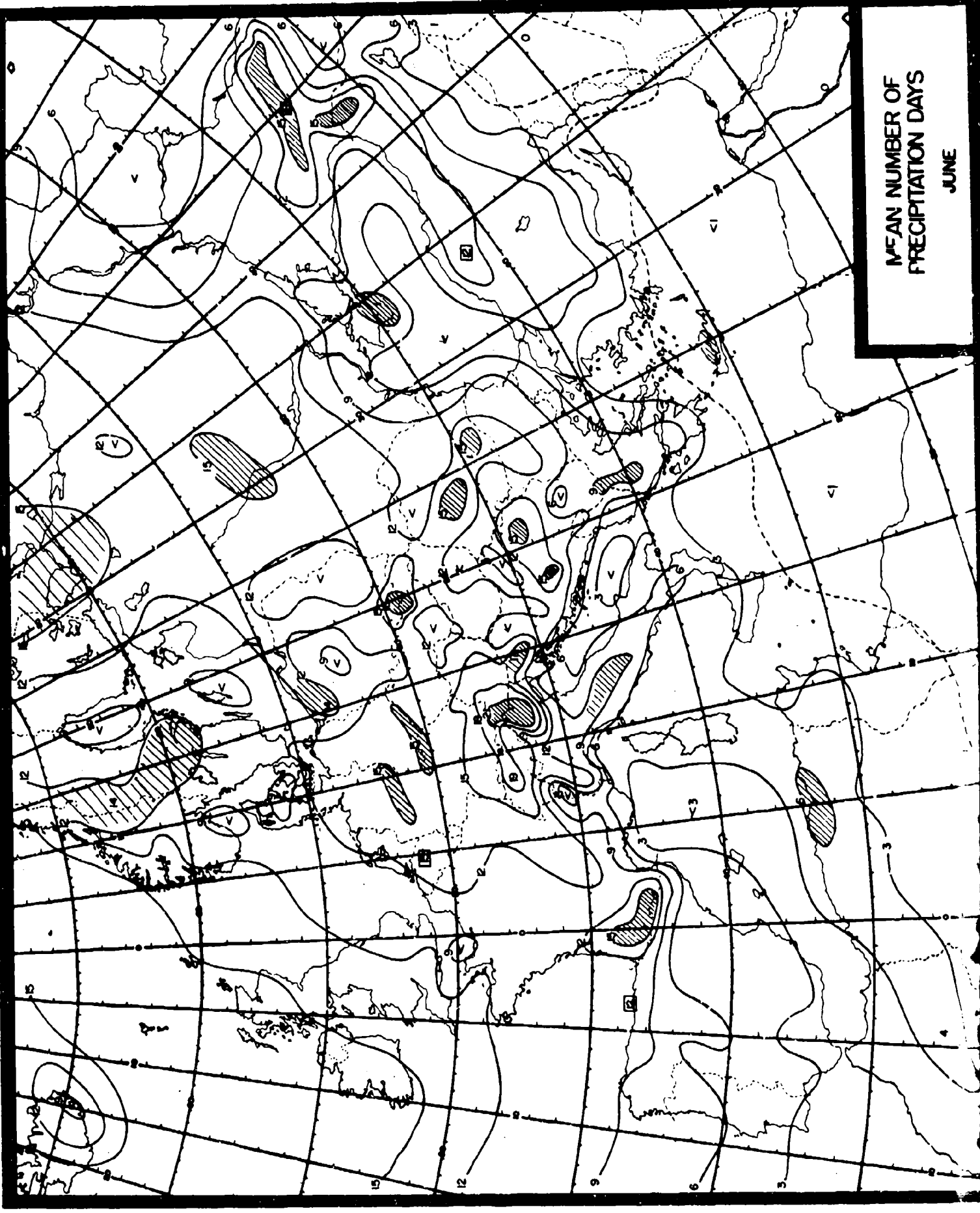
EXTREME MINIMUM
TEMPERATURE (°F)

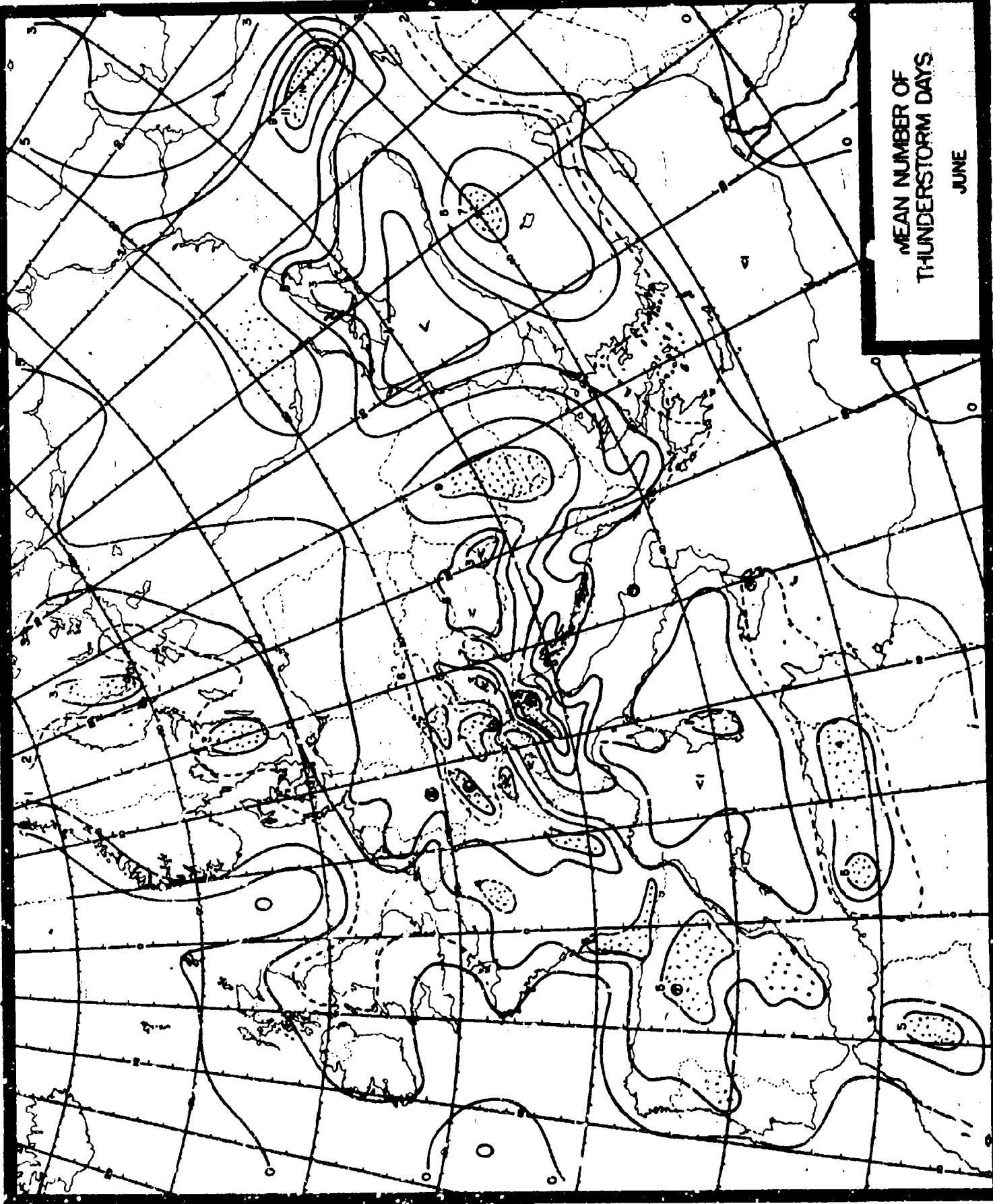
JUNE

MEAN MONTHLY
PRECIPITATION (IN)
JUNE

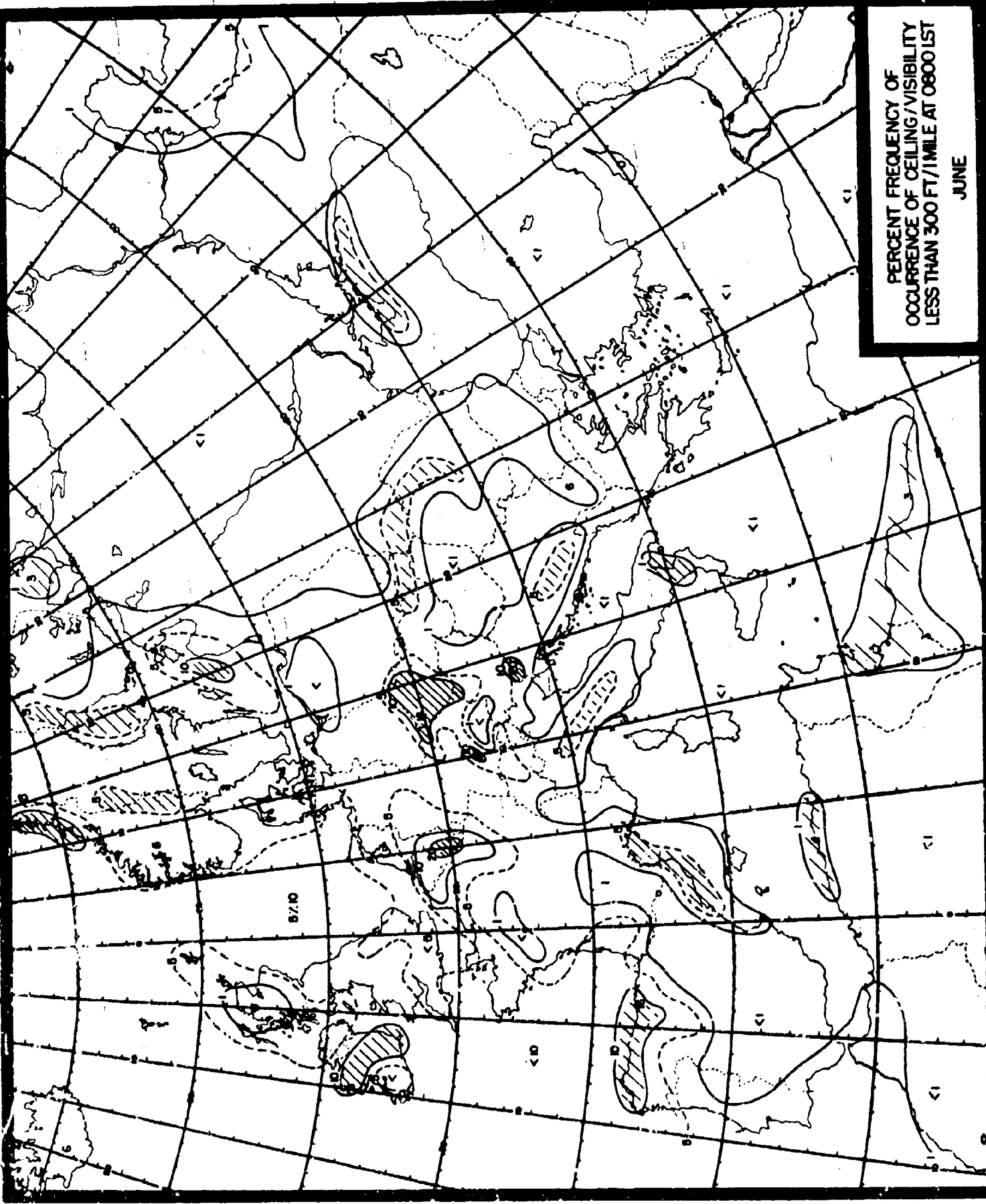


MEAN NUMBER OF
PRECIPITATION DAYS
JUNE



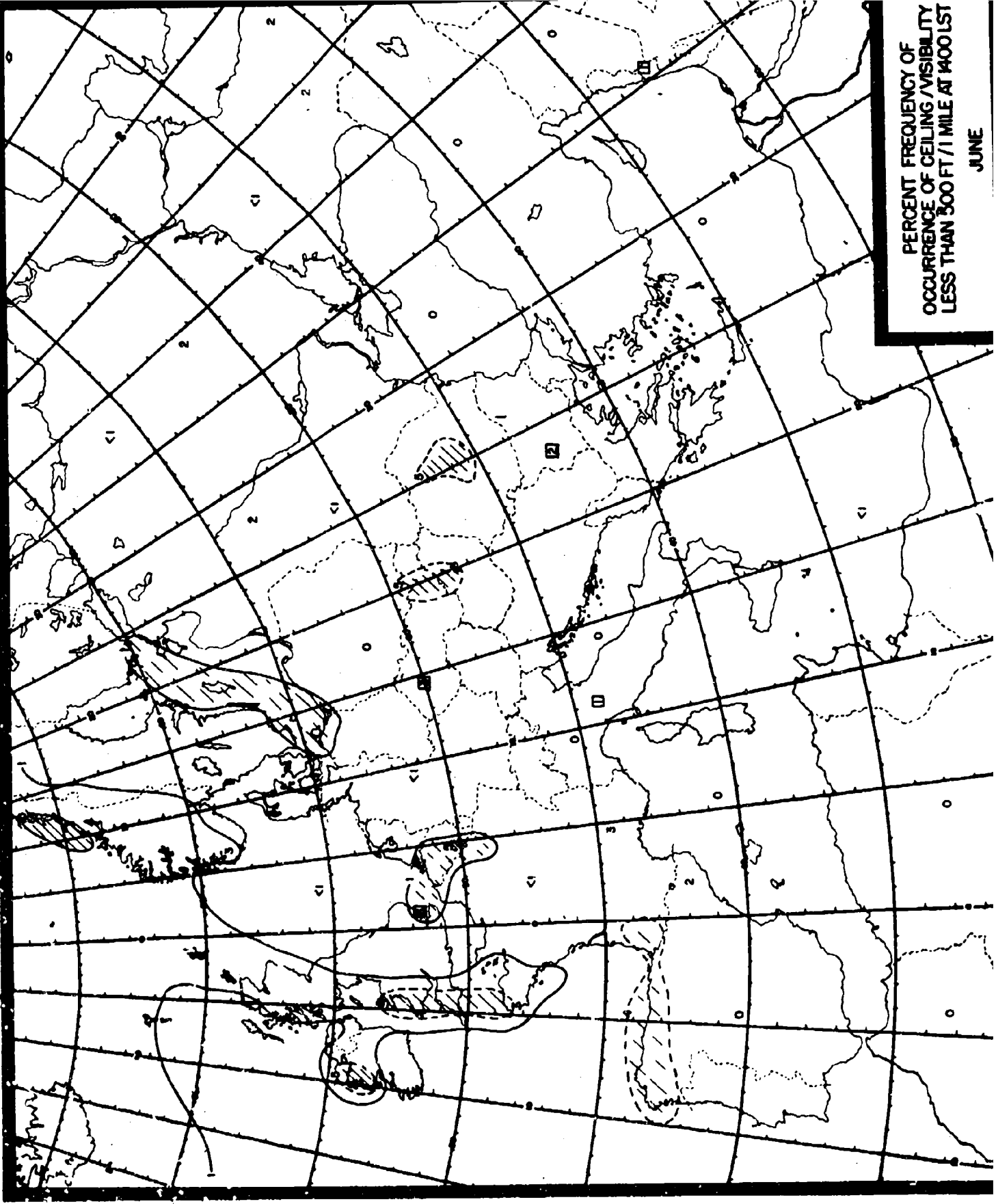


MEAN NUMBER OF
THUNDERSTORM DAYS
JUNE

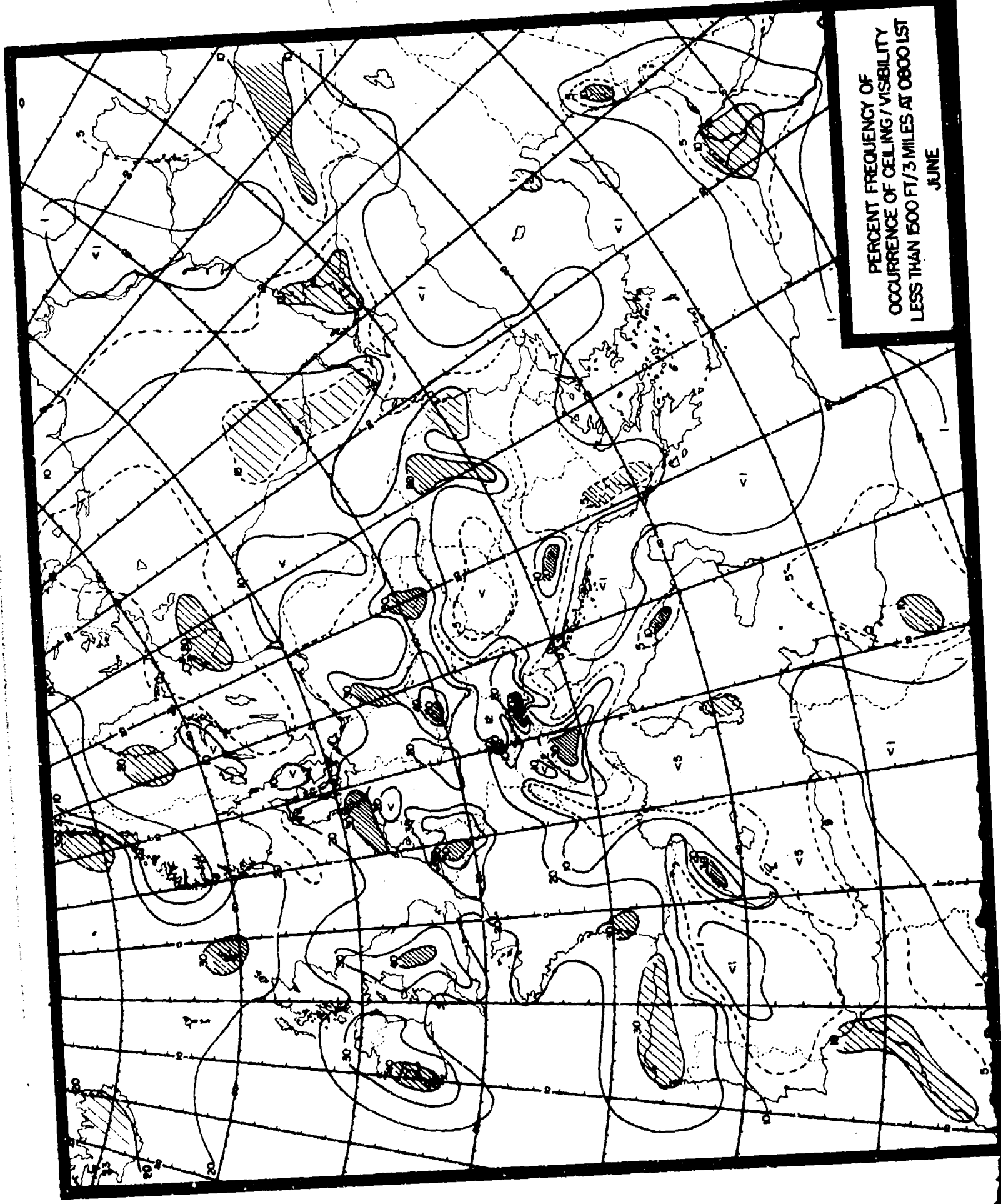


PERCENT FREQUENCY OF OCCURRENCE OF CEILING/VISIBILITY LESS THAN 300 FT/1 MILE AT 0800 LST
JUNE

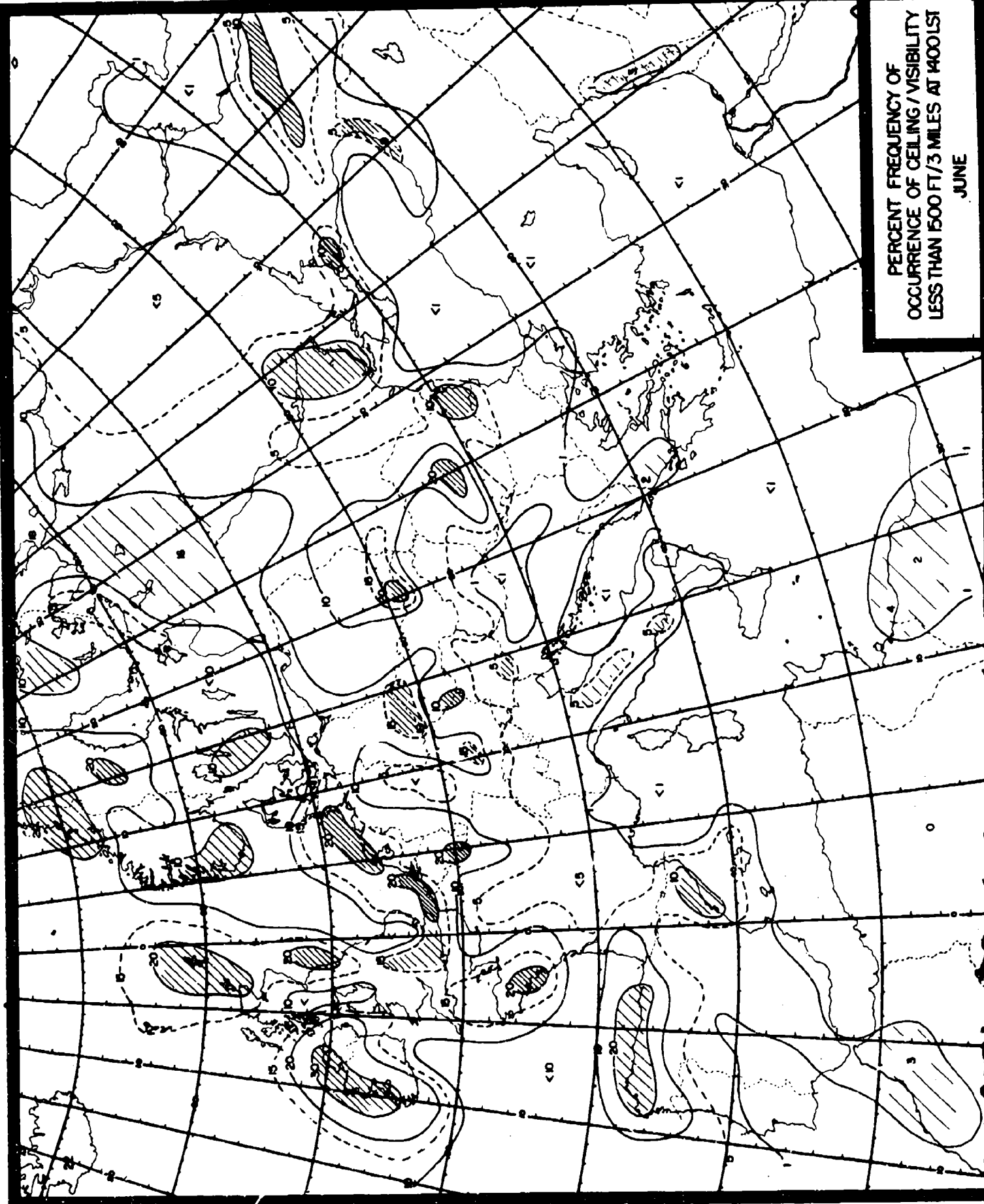
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LST
JUNE

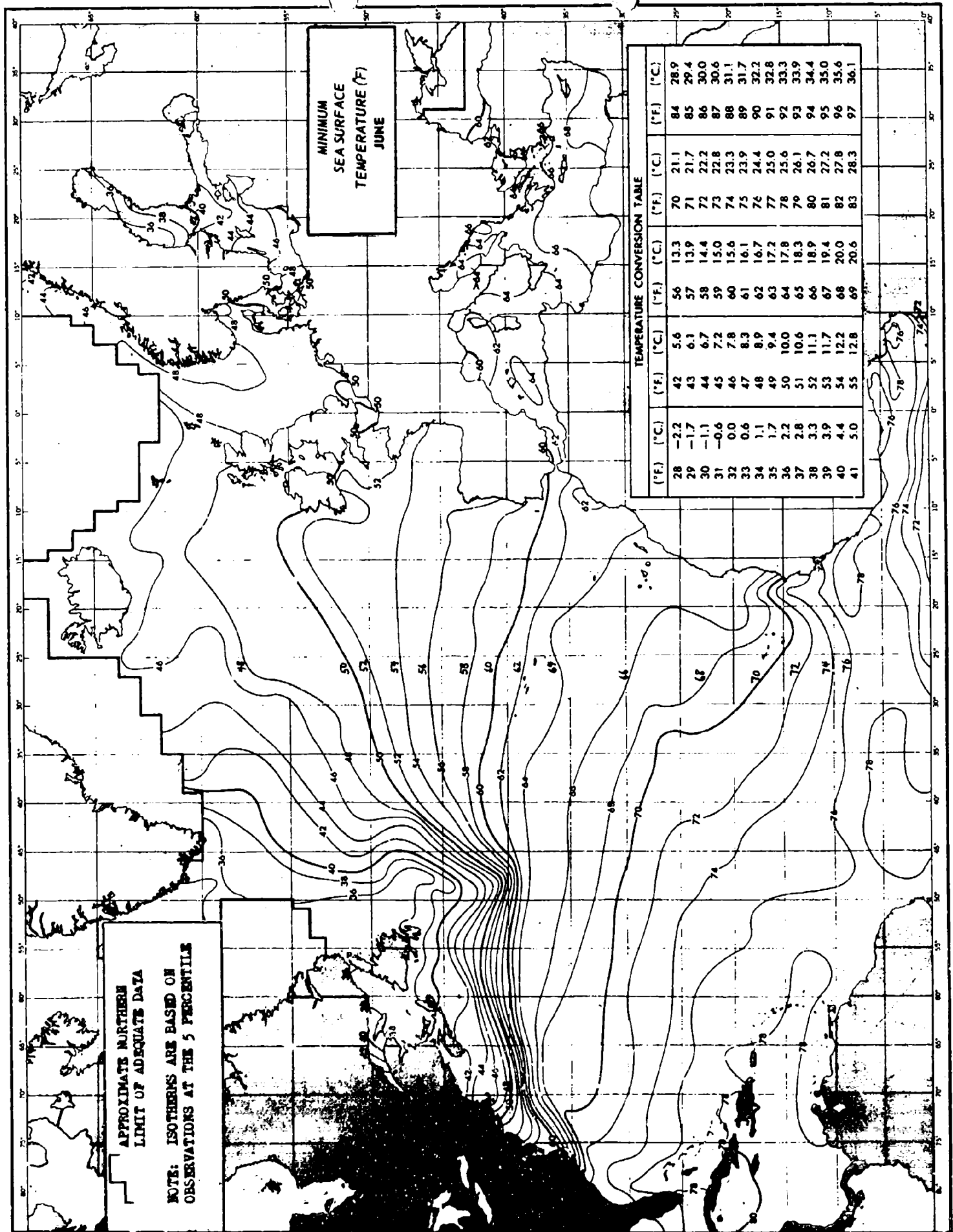


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 0800 LST
JUNE



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
JUNE





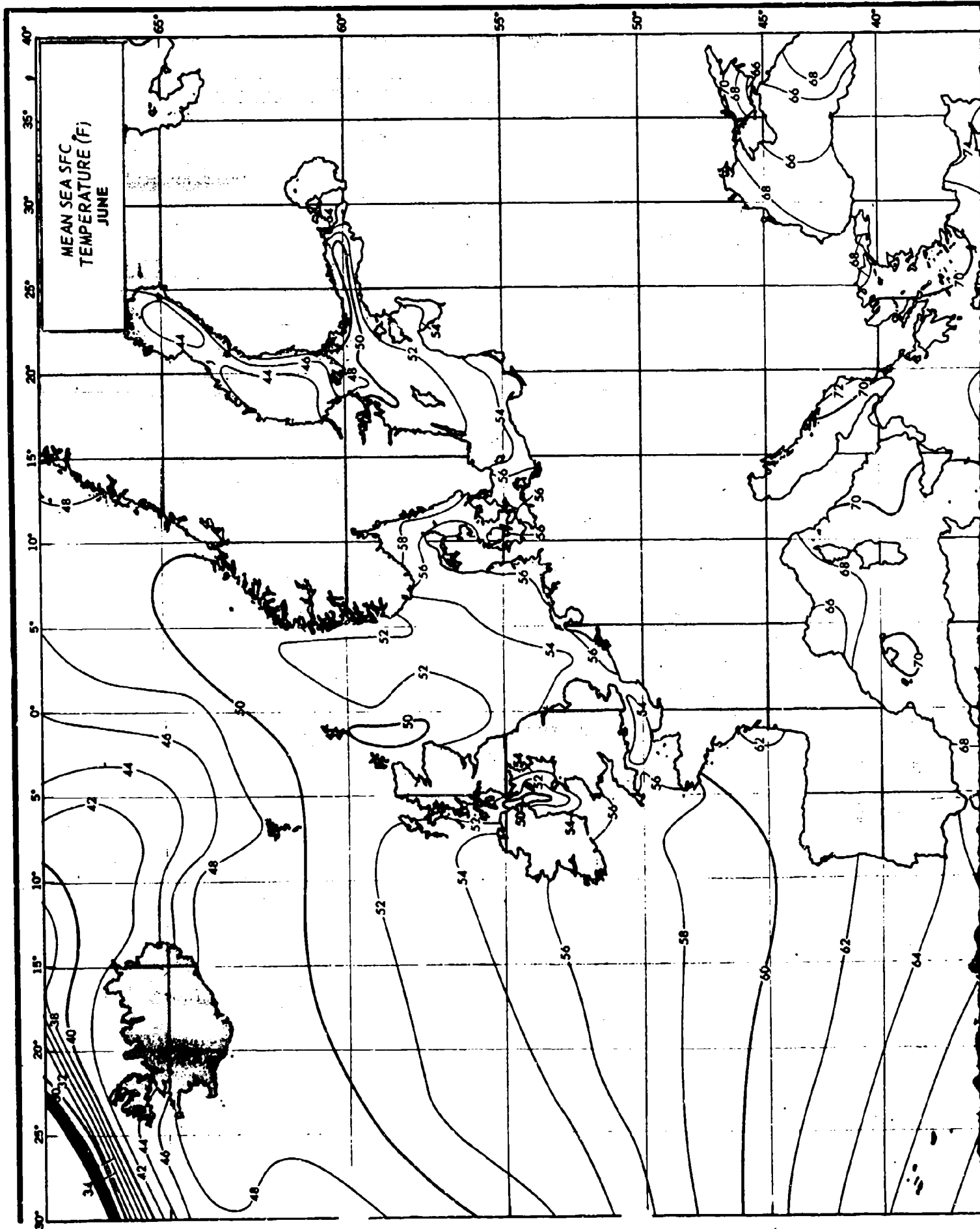
**MINIMUM
SEA SURFACE
TEMPERATURE (F)
JUNE**

APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

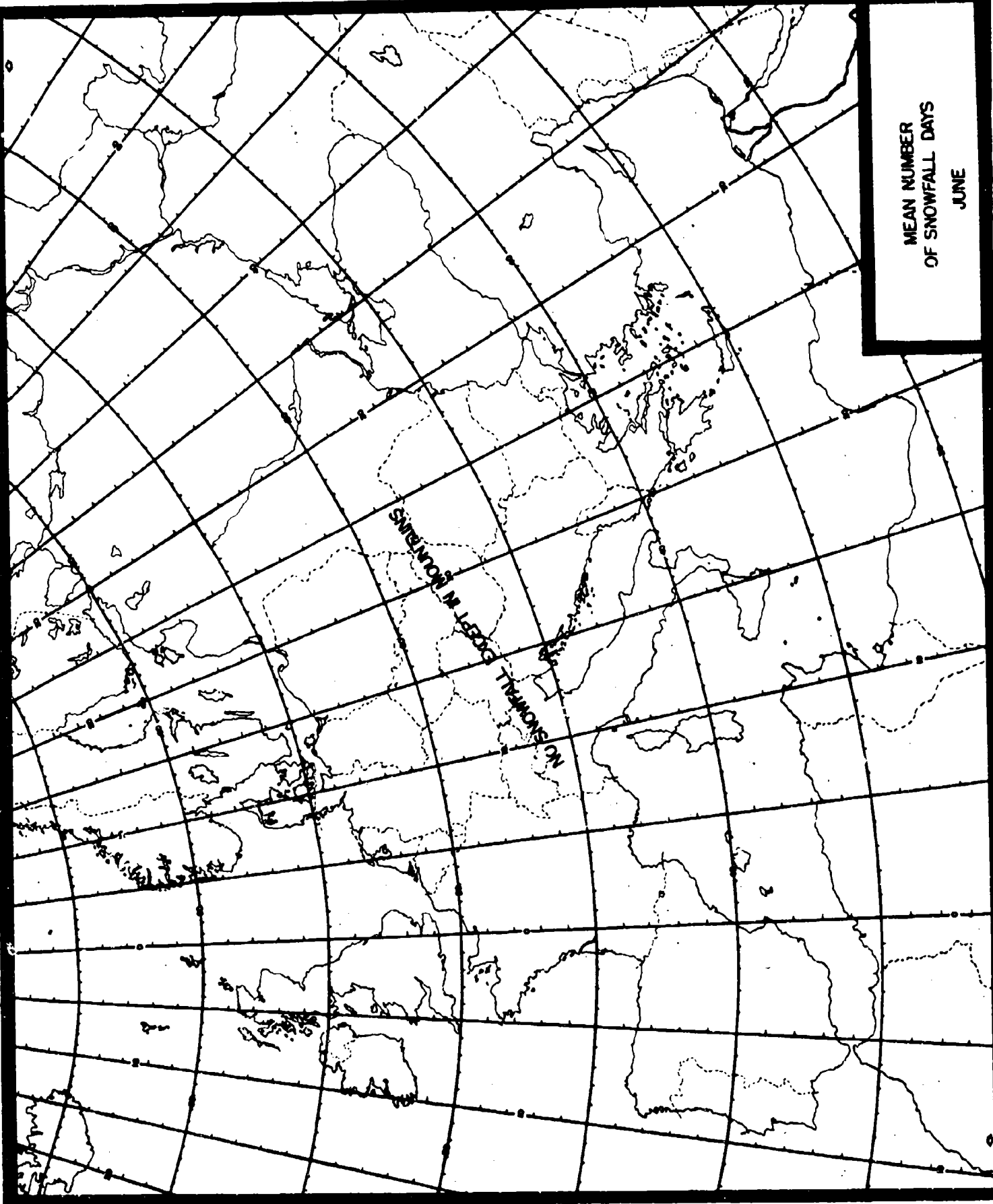
NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

TEMPERATURE CONVERSION TABLE

(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)		
28	-2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	-1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	-1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	-0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1

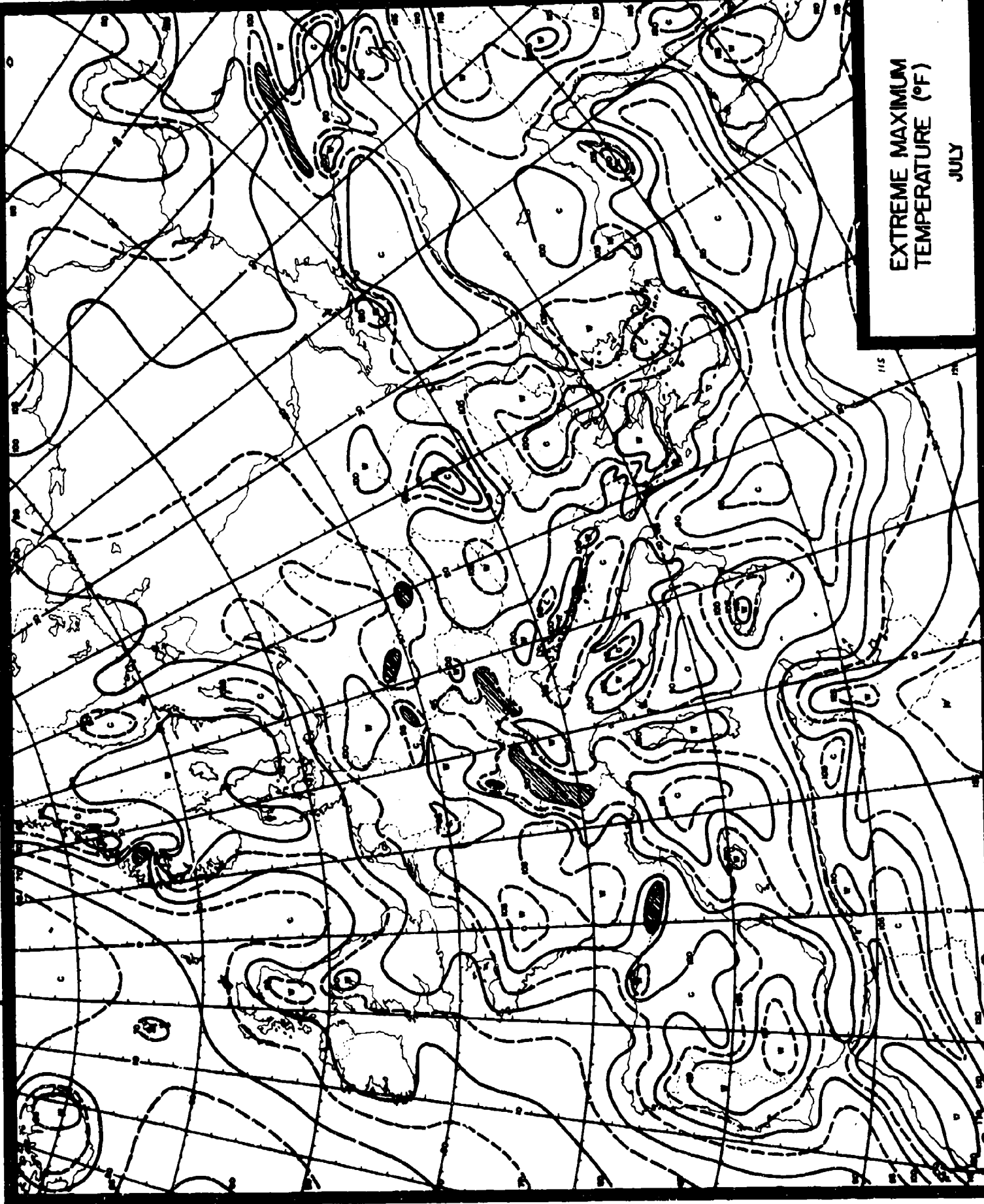


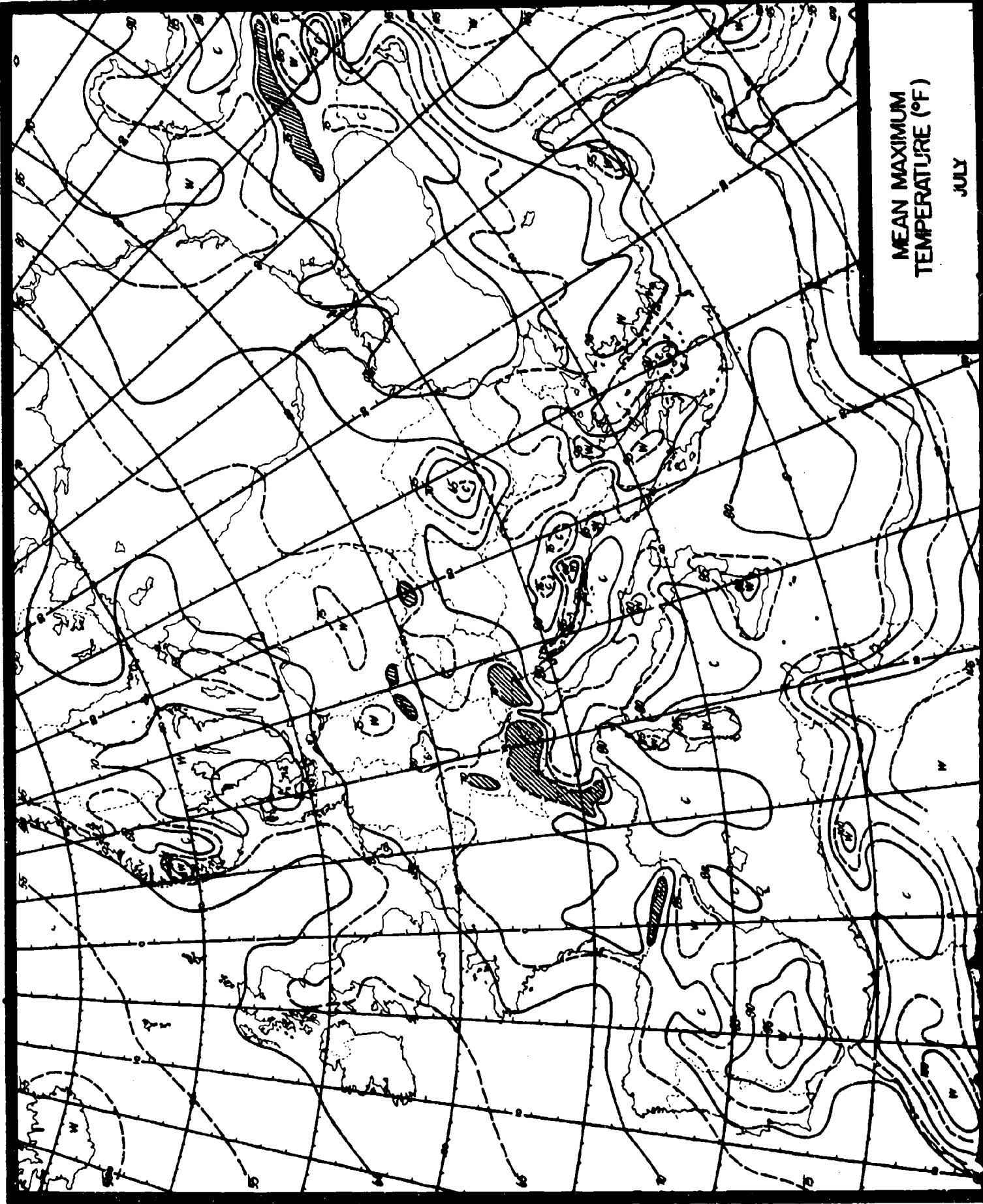
MEAN NUMBER
OF SNOWFALL DAYS
JUNE



EXTREME MAXIMUM
TEMPERATURE (°F)

JULY

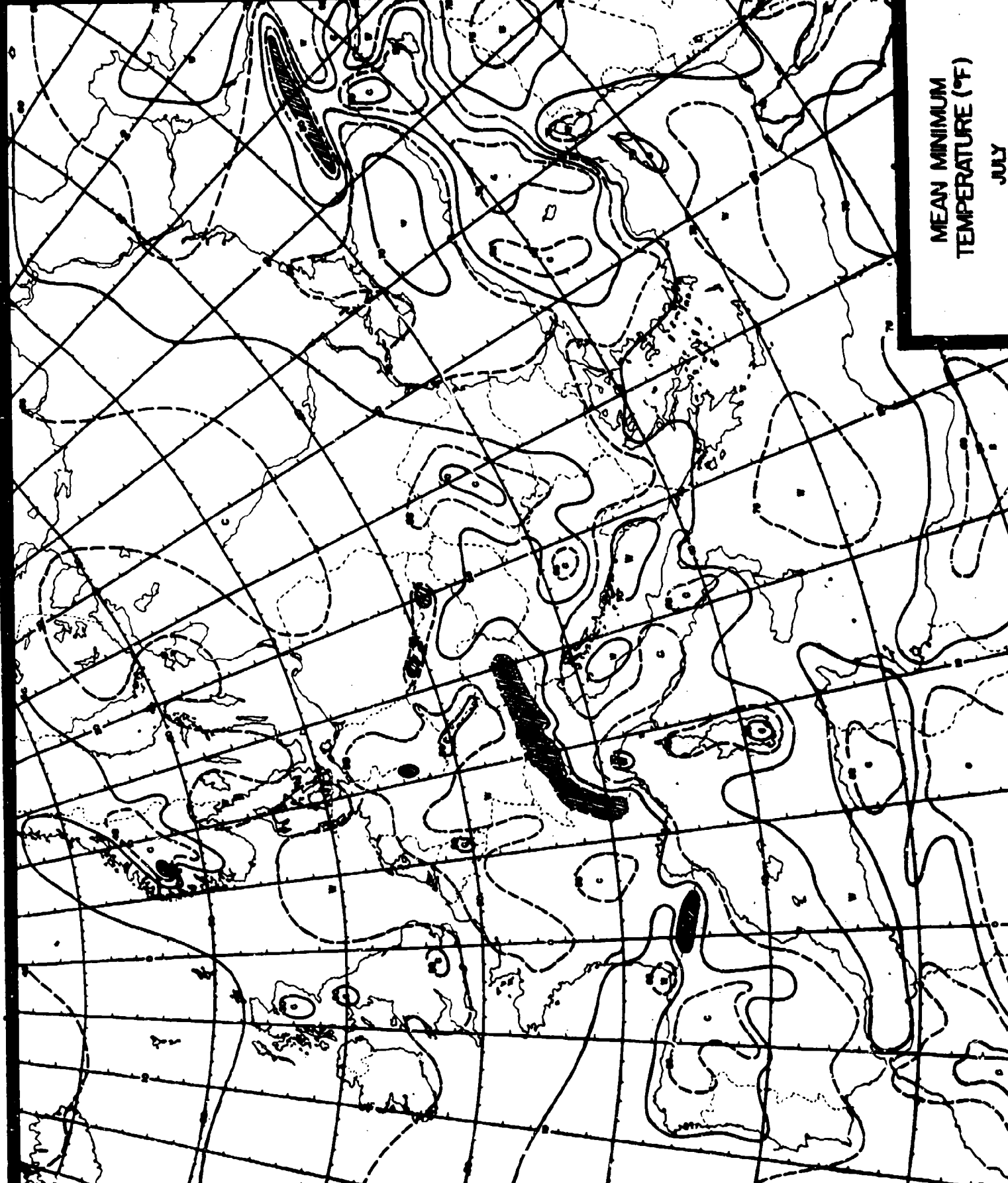




MEAN MAXIMUM
TEMPERATURE (°F)
JULY

MEAN MINIMUM
TEMPERATURE (°F)

JULY

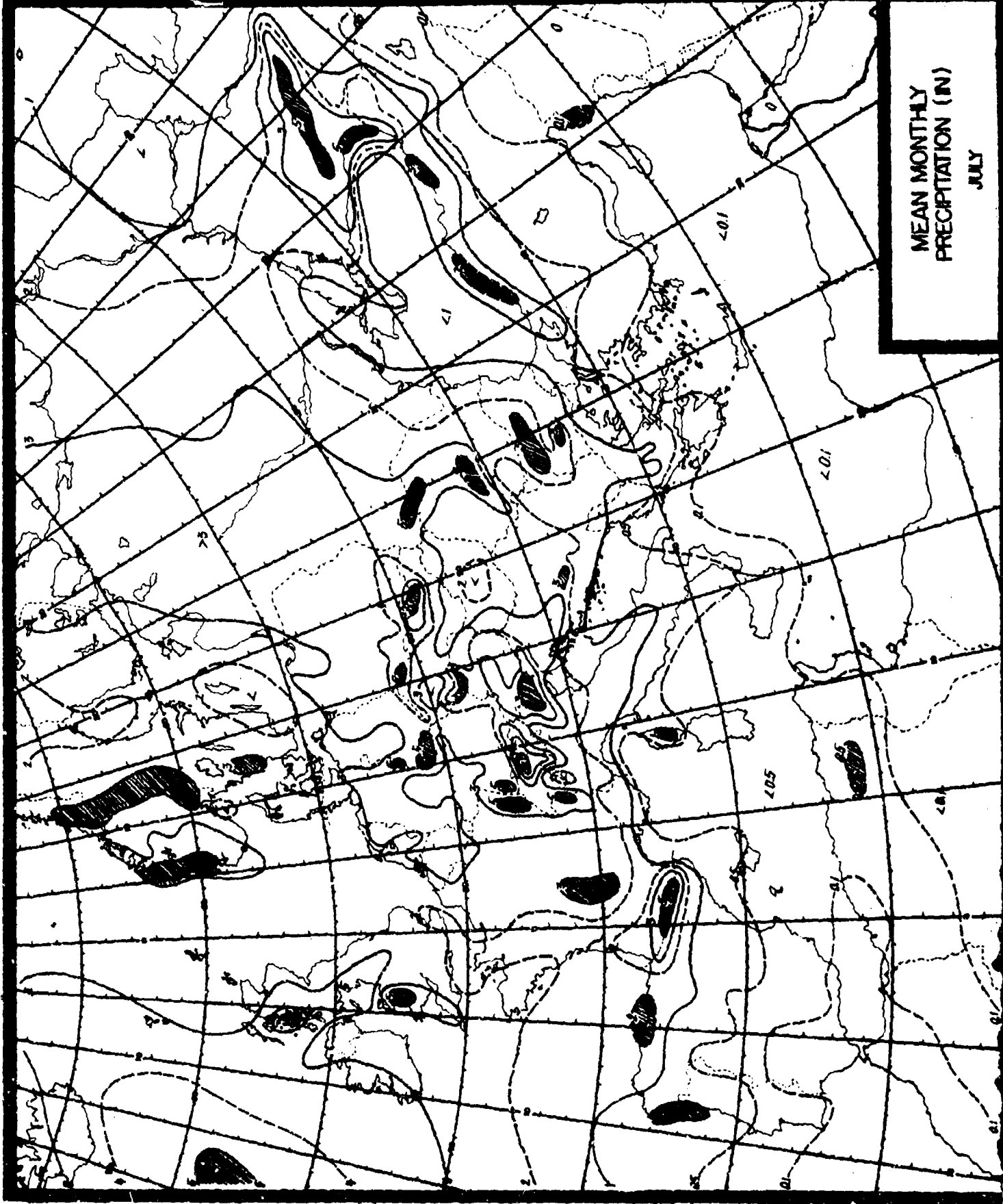


EXTREME MINIMUM
TEMPERATURE (°F)

JULY

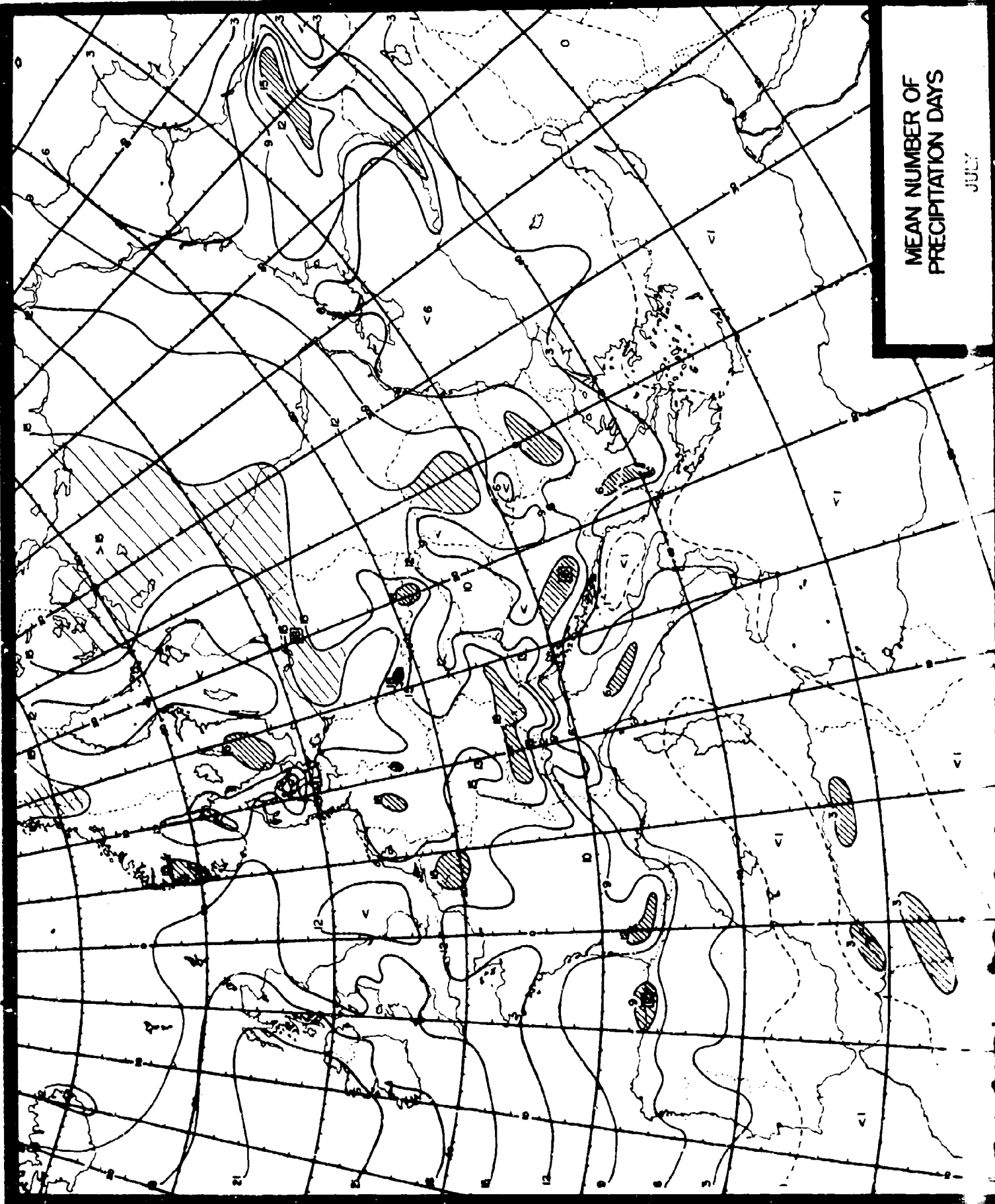


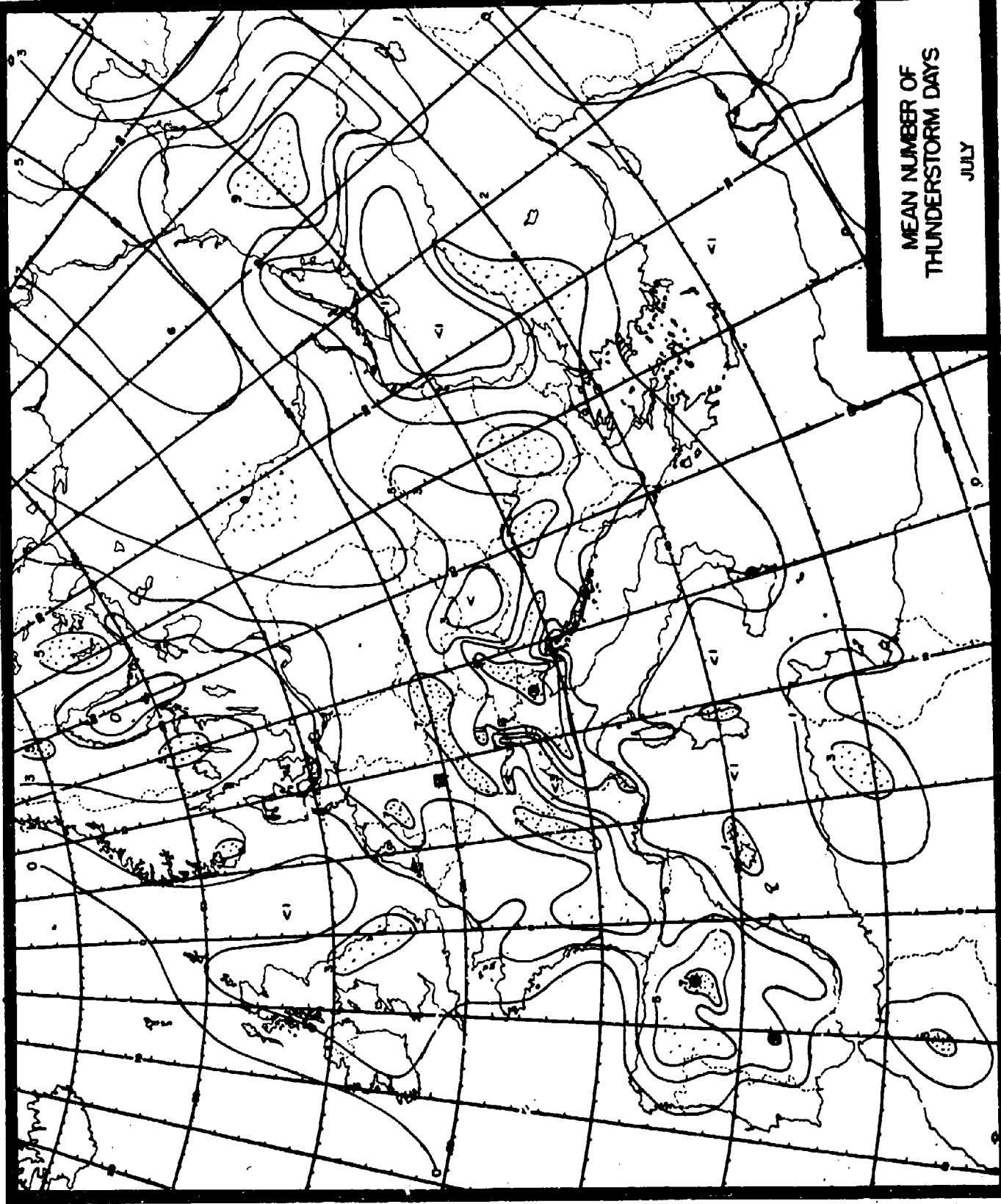
MEAN MONTHLY
PRECIPITATION (IN)
JULY



MEAN NUMBER OF
PRECIPITATION DAYS

JULY

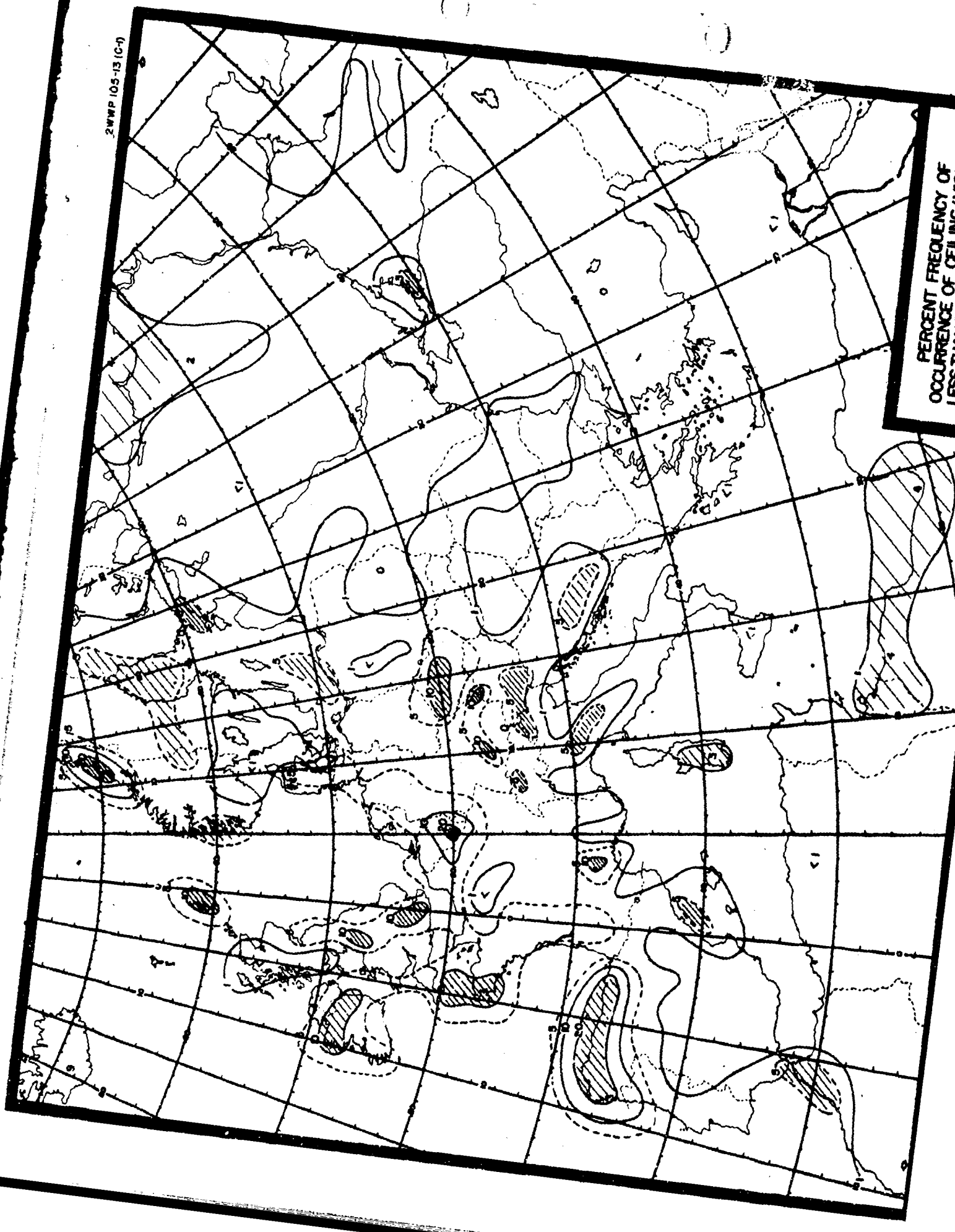




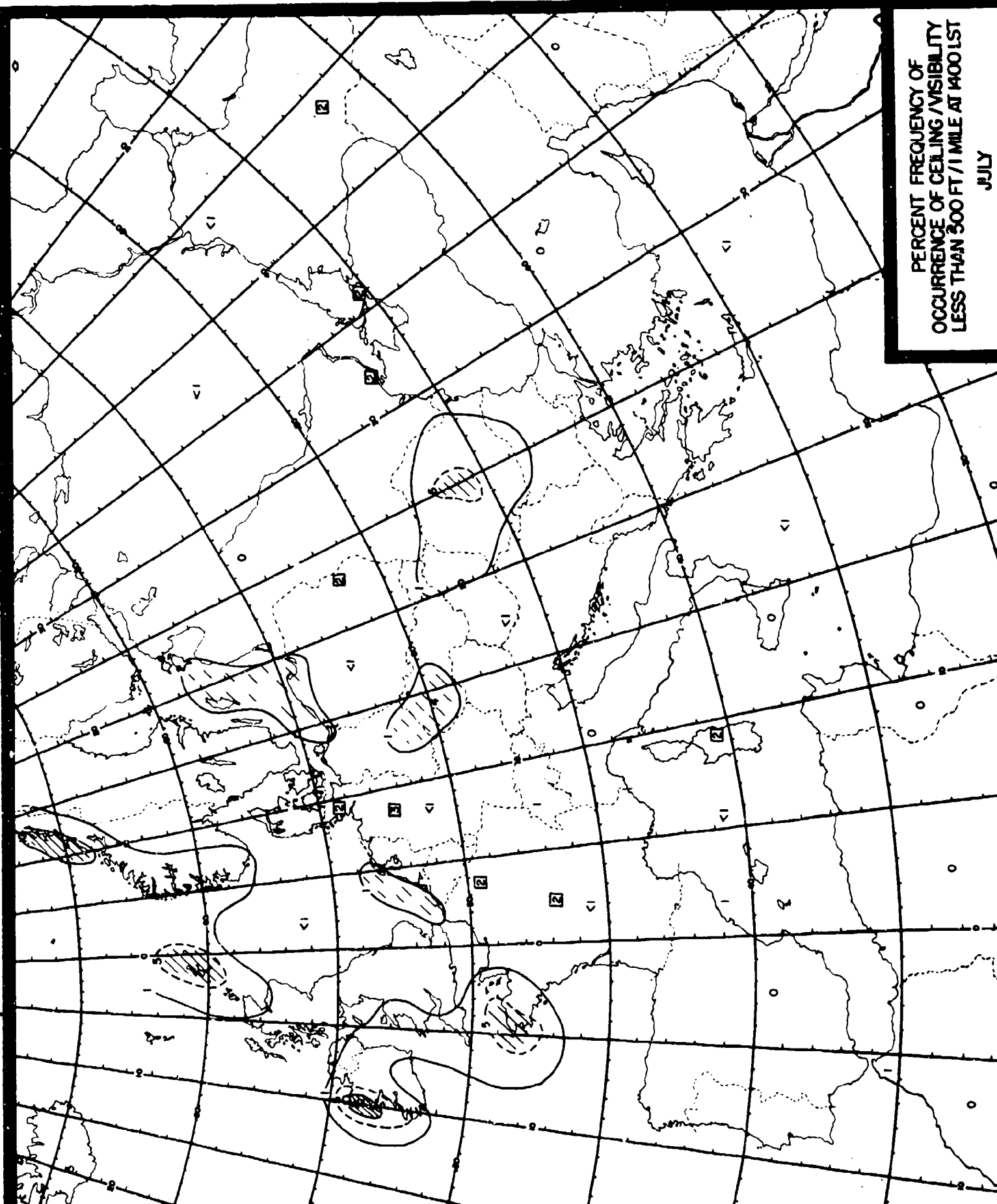
MEAN NUMBER OF
THUNDERSTORM DAYS
JULY

2WWP 105-13 (C-1)

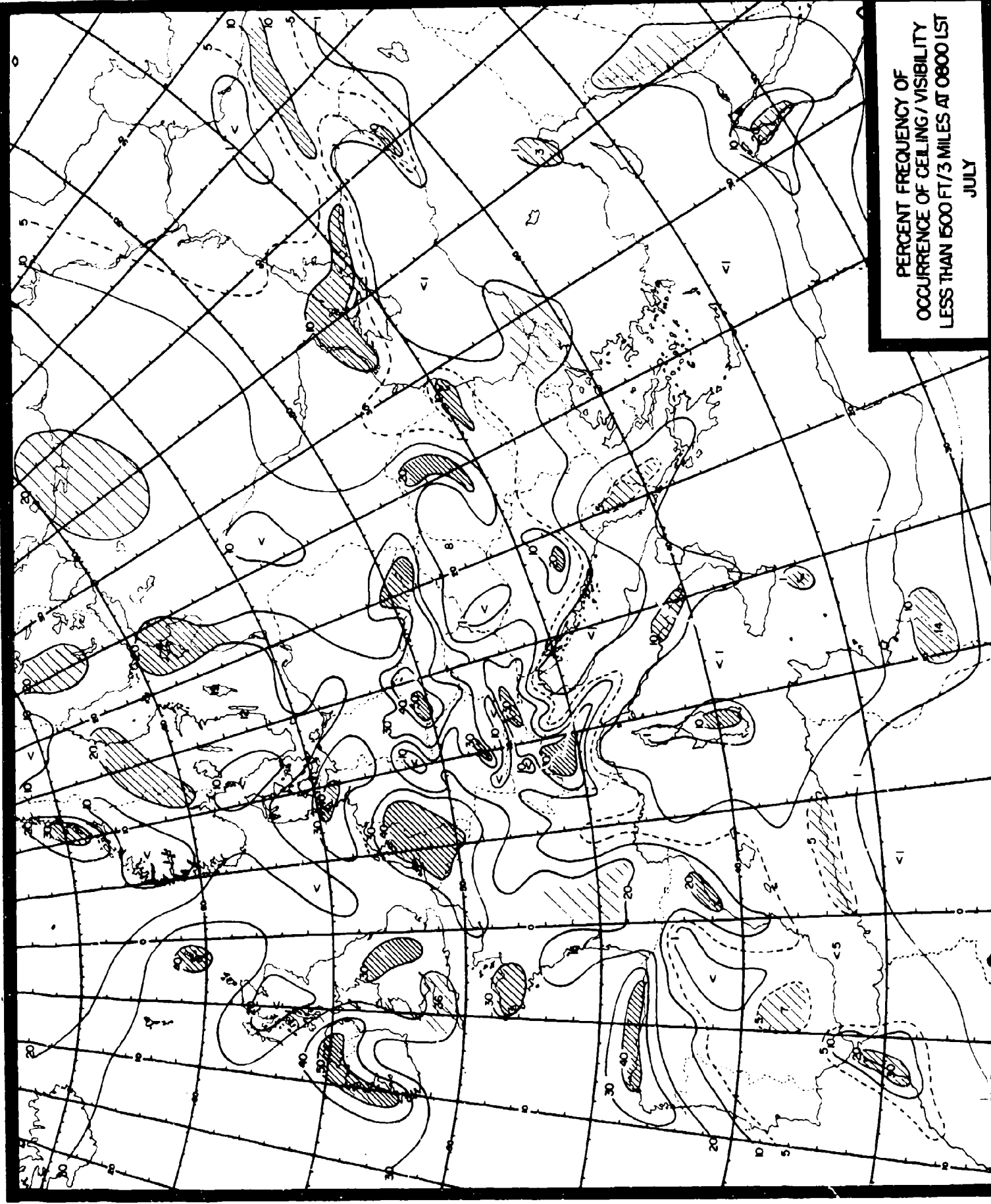
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
JULY



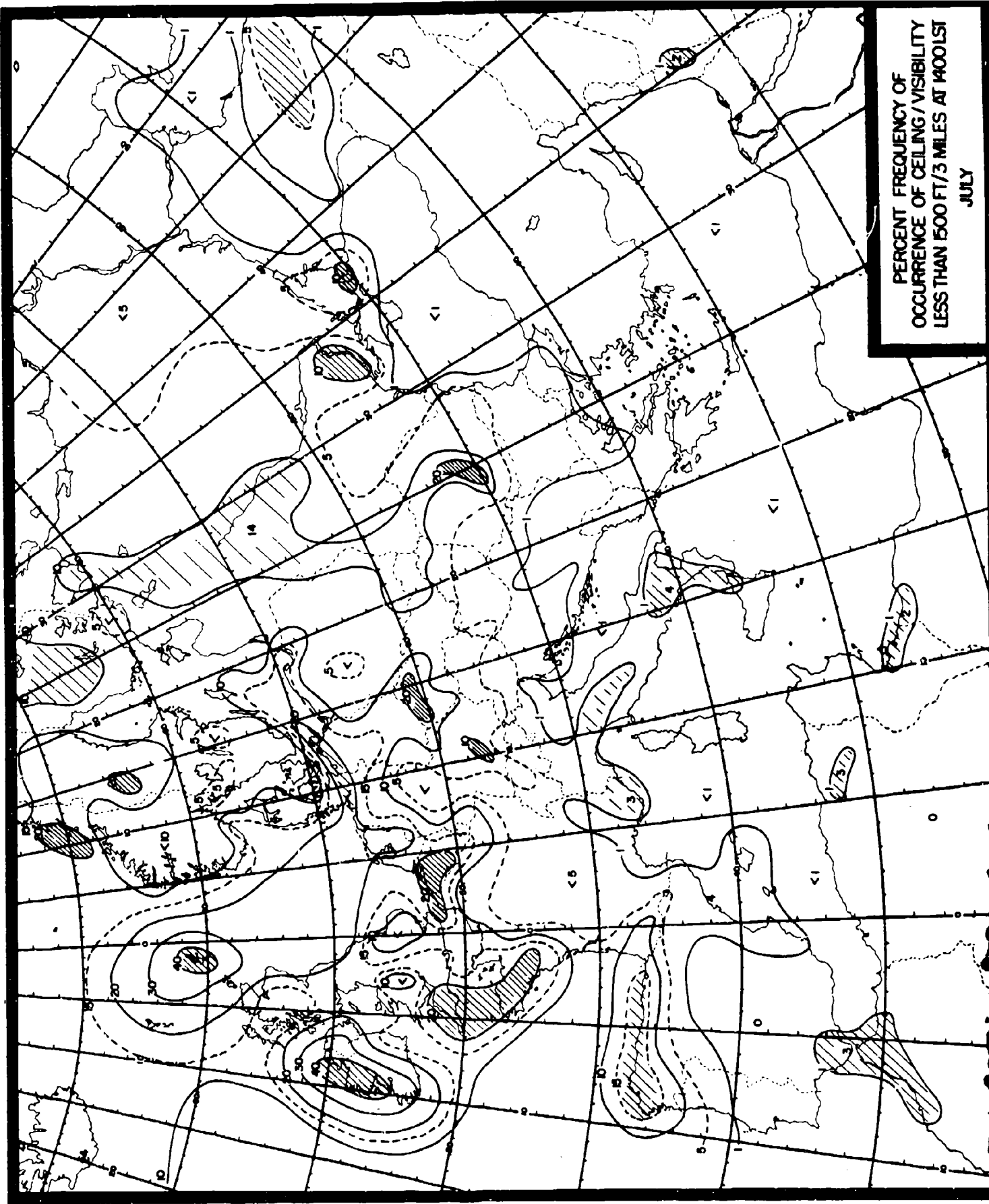
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 300 FT / 1 MILE AT 1400 LST
JULY

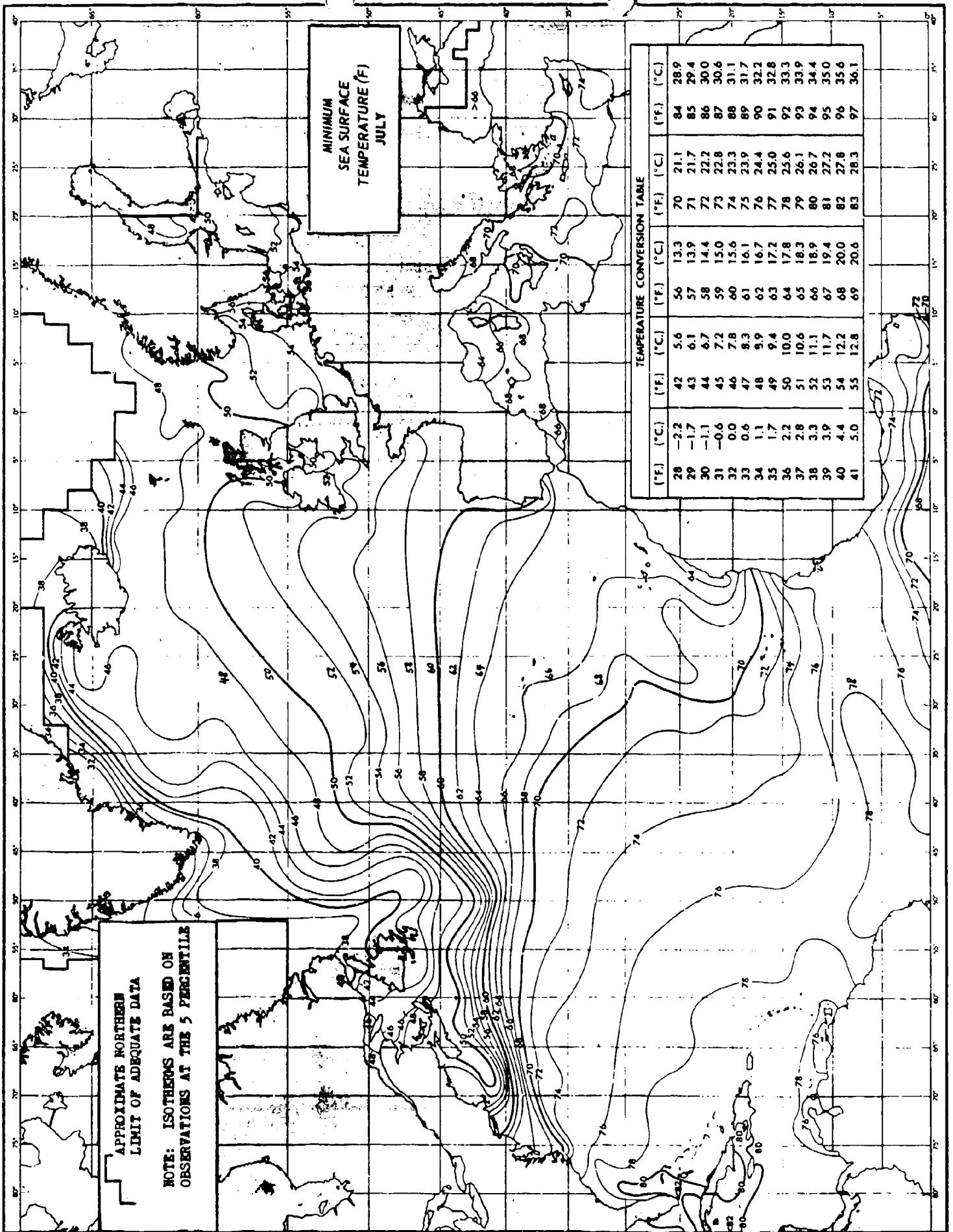


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
JULY



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 1400 LST
JULY





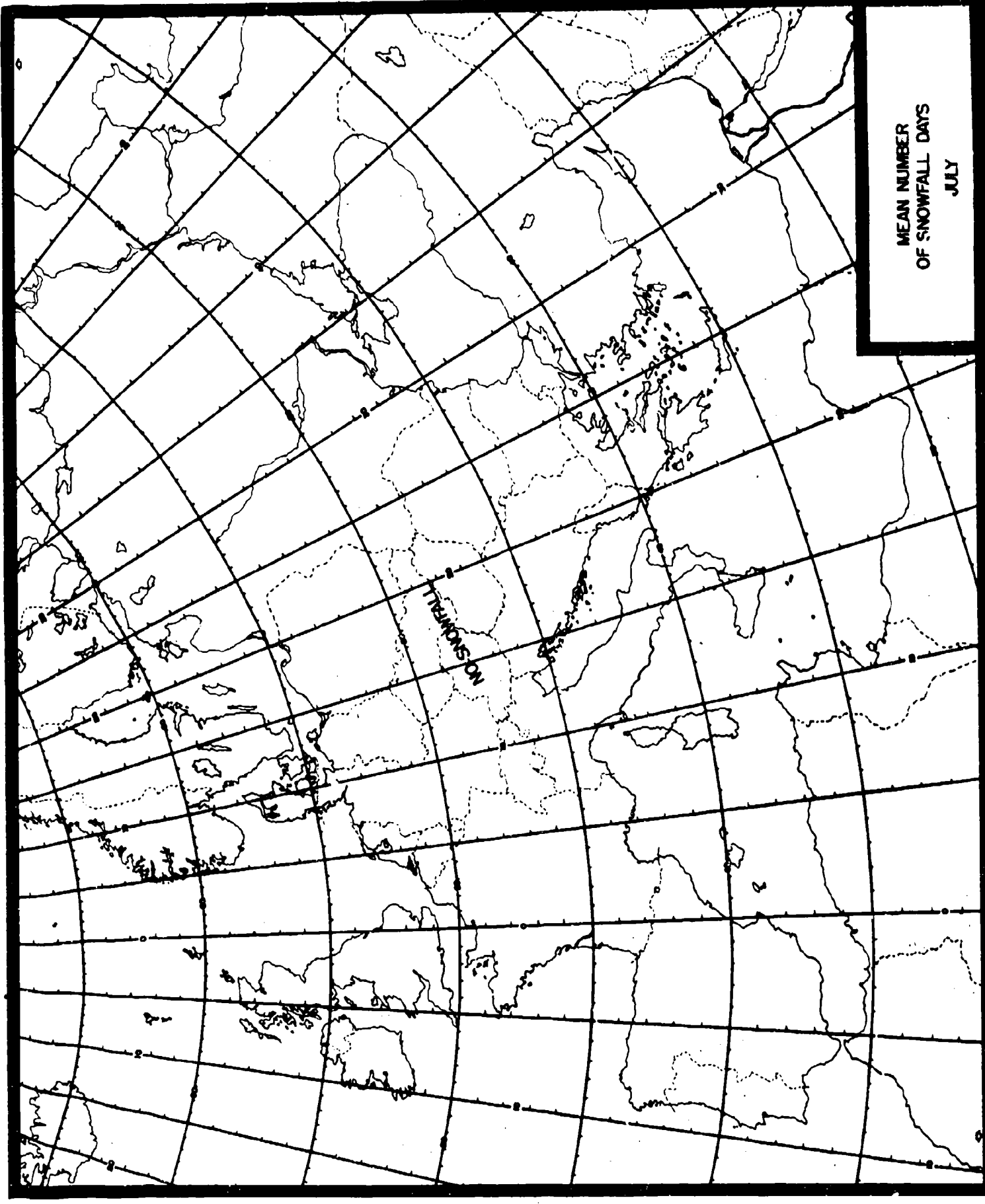
**MINIMUM
SEA SURFACE
TEMPERATURE (F)
JULY**

APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

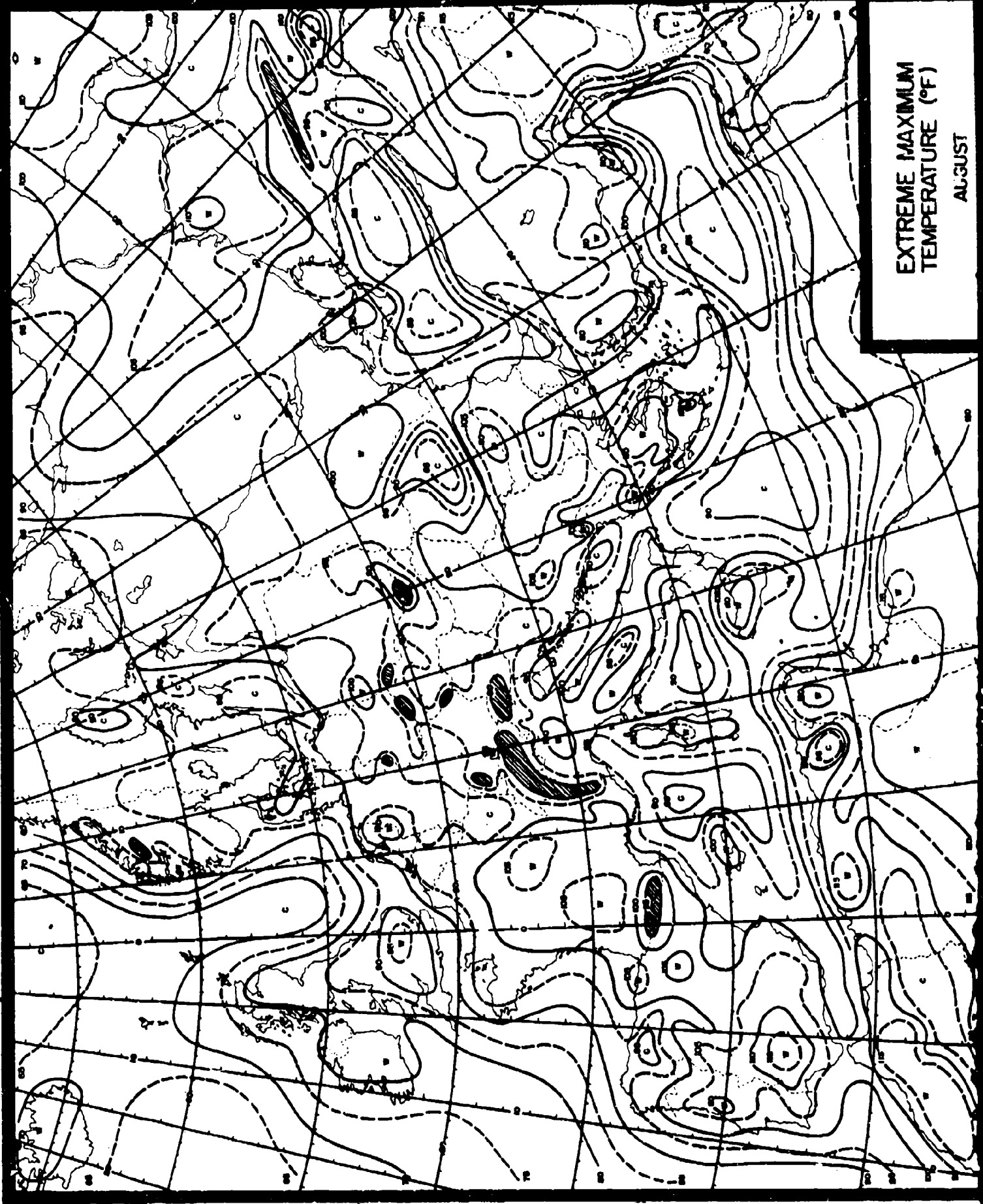
TEMPERATURE CONVERSION TABLE

(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)		
28	-2.2	42	5.6	56	13.3	70	21.1	84	28.9
29	-1.7	43	6.1	57	13.9	71	21.7	85	29.4
30	-1.1	44	6.7	58	14.4	72	22.2	86	30.0
31	-0.6	45	7.2	59	15.0	73	22.8	87	30.6
32	0.0	46	7.8	60	15.6	74	23.3	88	31.1
33	0.6	47	8.3	61	16.1	75	23.9	89	31.7
34	1.1	48	8.9	62	16.7	76	24.4	90	32.2
35	1.7	49	9.4	63	17.2	77	25.0	91	32.8
36	2.2	50	10.0	64	17.8	78	25.6	92	33.3
37	2.8	51	10.6	65	18.3	79	26.1	93	33.9
38	3.3	52	11.1	66	18.9	80	26.7	94	34.4
39	3.9	53	11.7	67	19.4	81	27.2	95	35.0
40	4.4	54	12.2	68	20.0	82	27.8	96	35.6
41	5.0	55	12.8	69	20.6	83	28.3	97	36.1



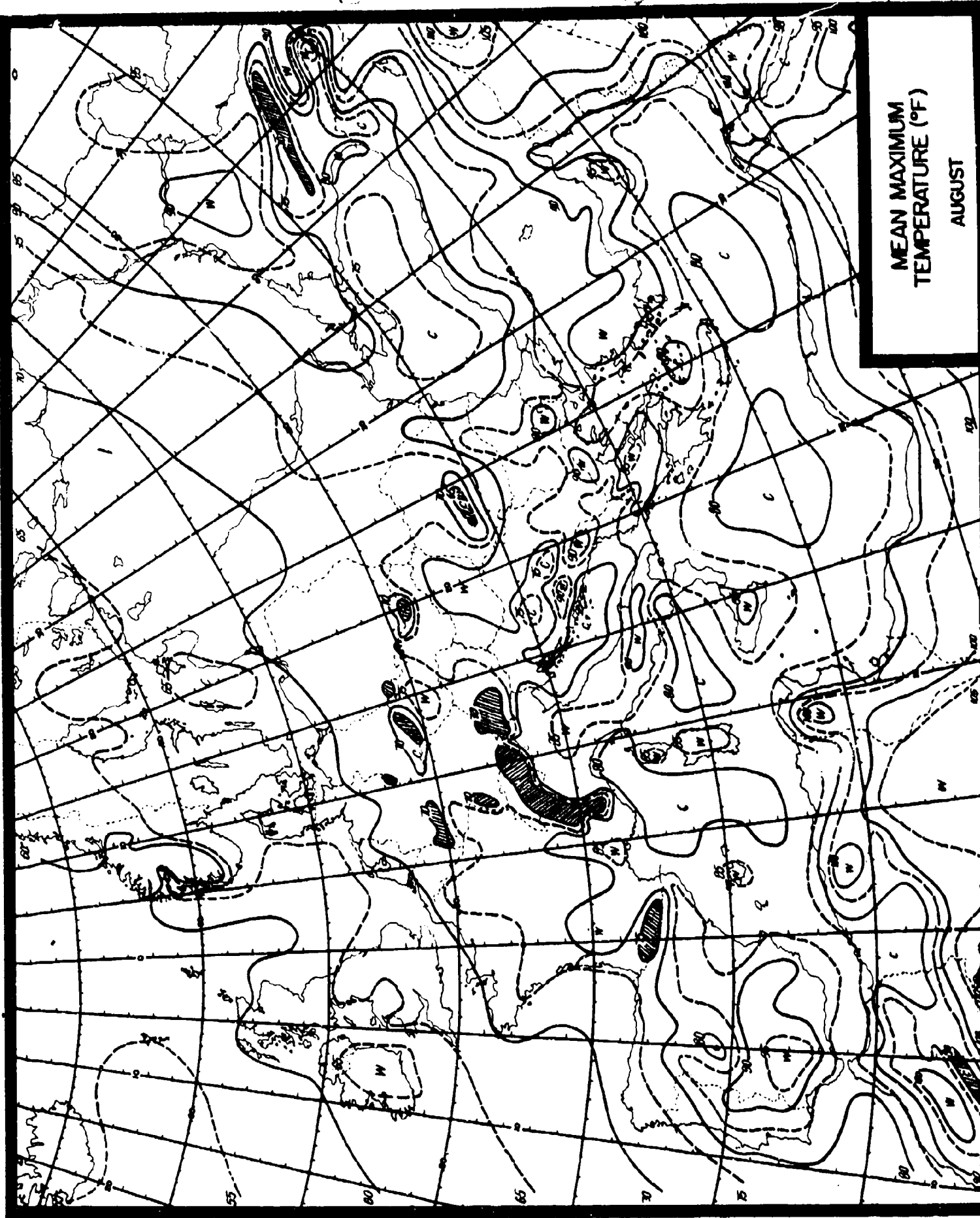
MEAN NUMBER
OF SNOWFALL DAYS
JULY

EXTREME MAXIMUM
TEMPERATURE (°F)
AUGUST

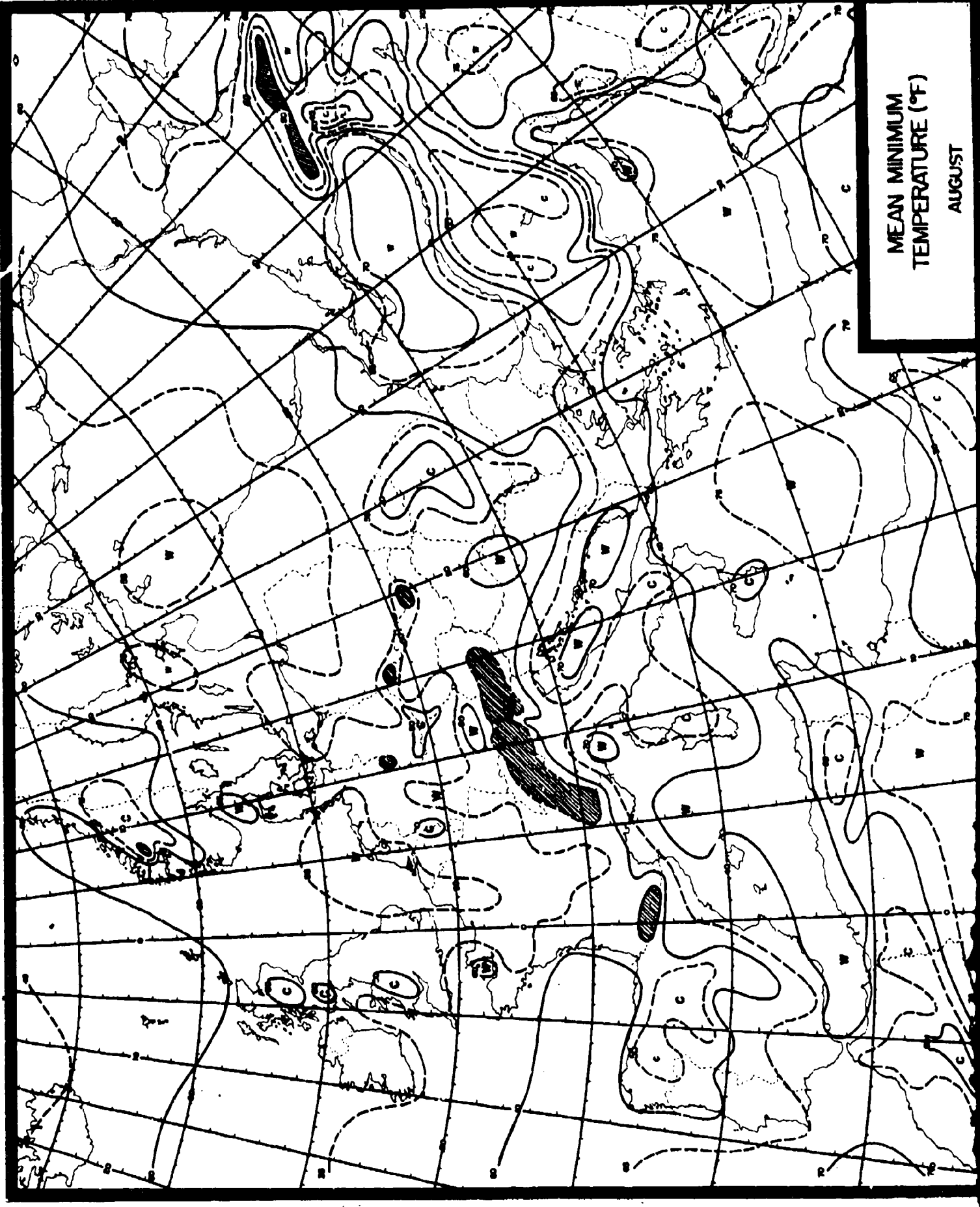


MEAN MAXIMUM
TEMPERATURE (°F)

AUGUST

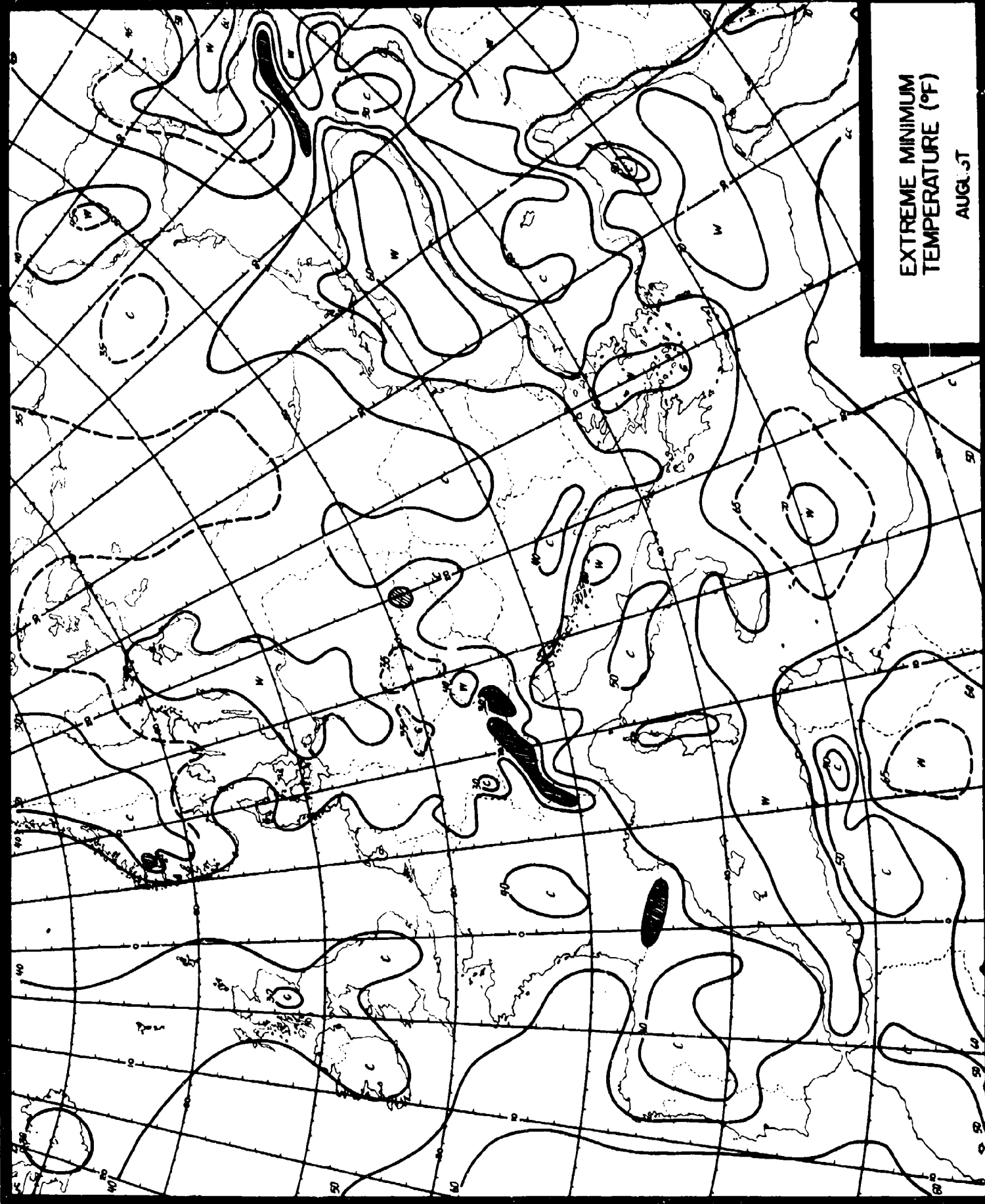


MEAN MINIMUM
TEMPERATURE (°F)
AUGUST

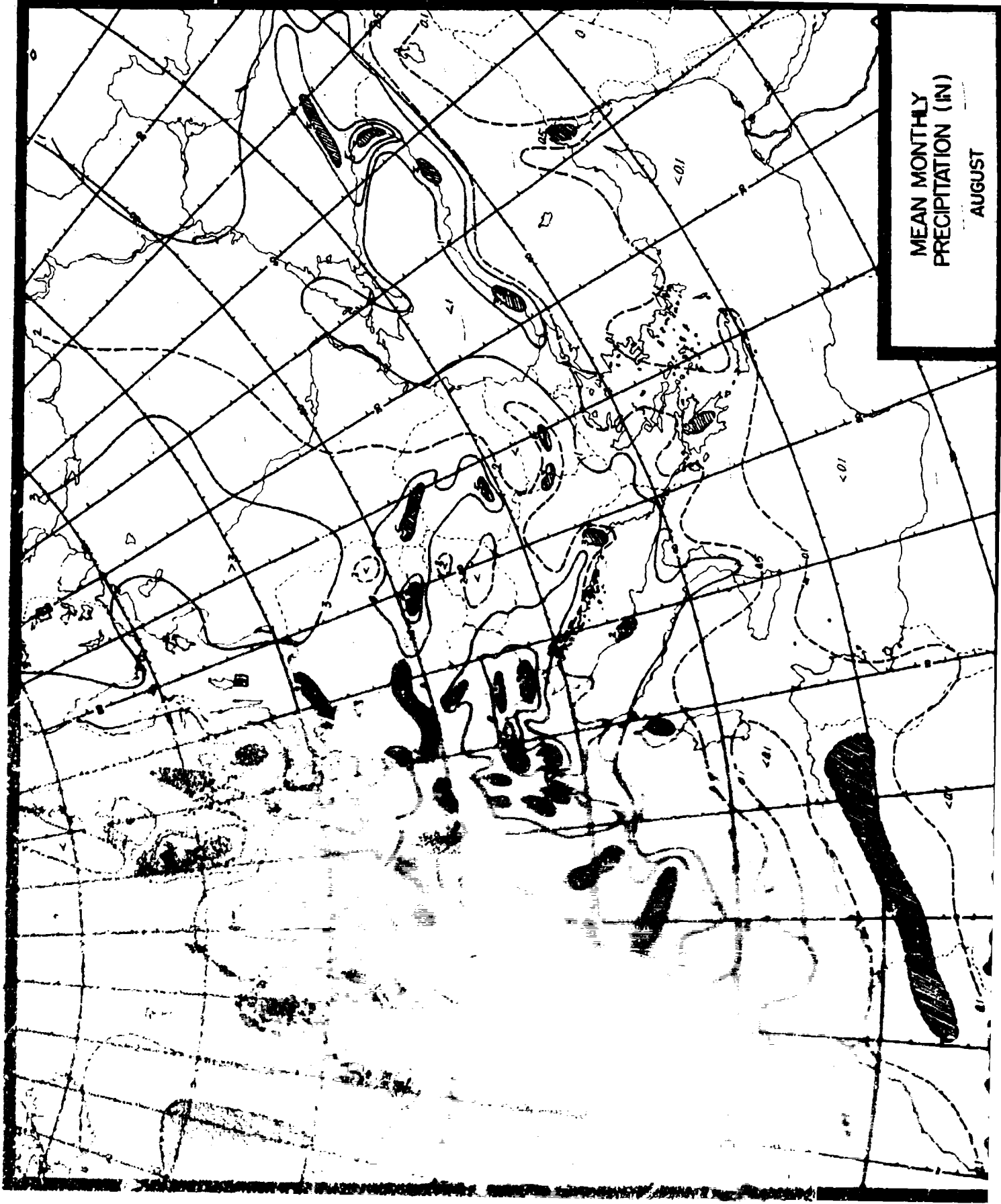


EXTREME MINIMUM
TEMPERATURE (°F)

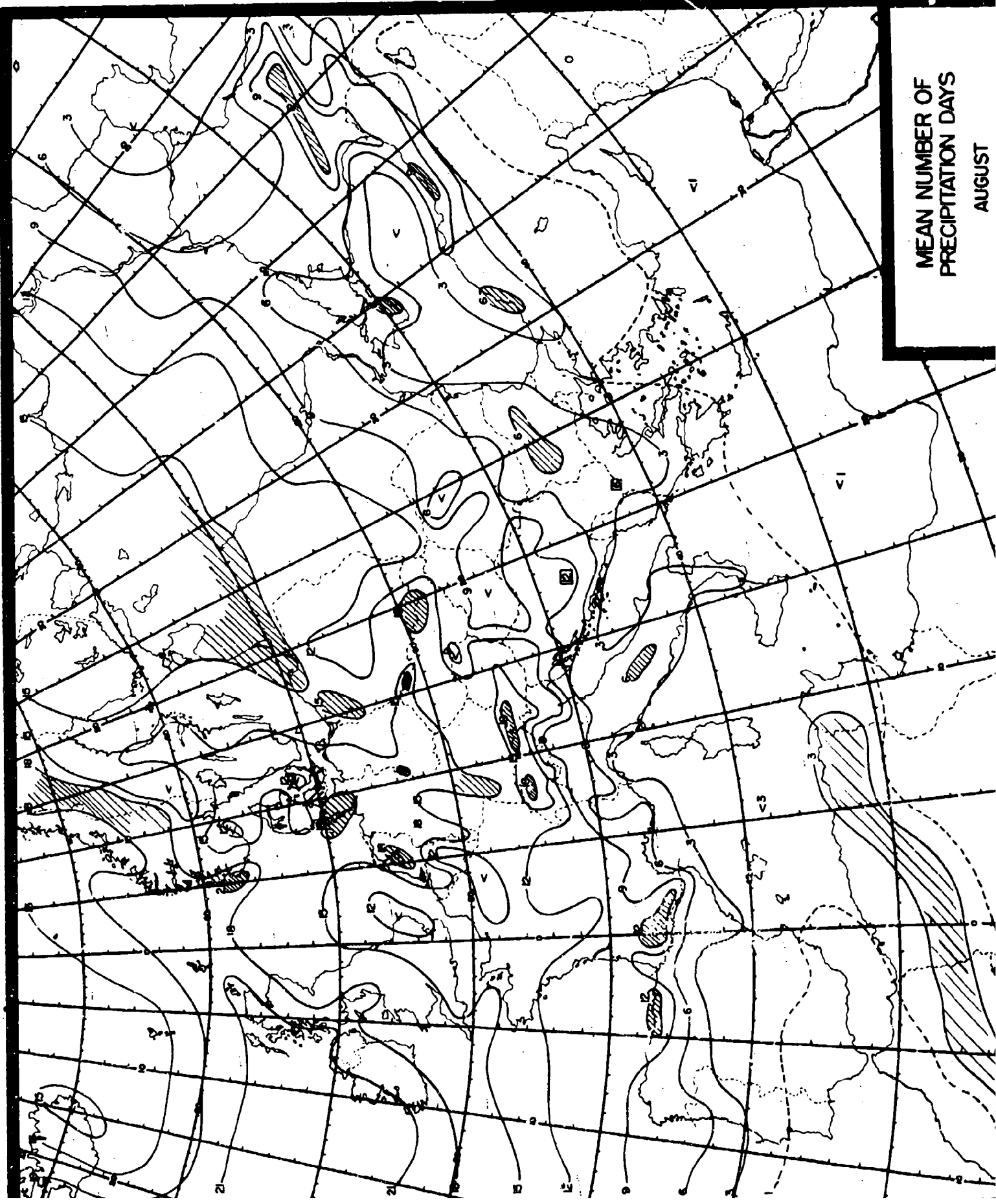
AUGUST



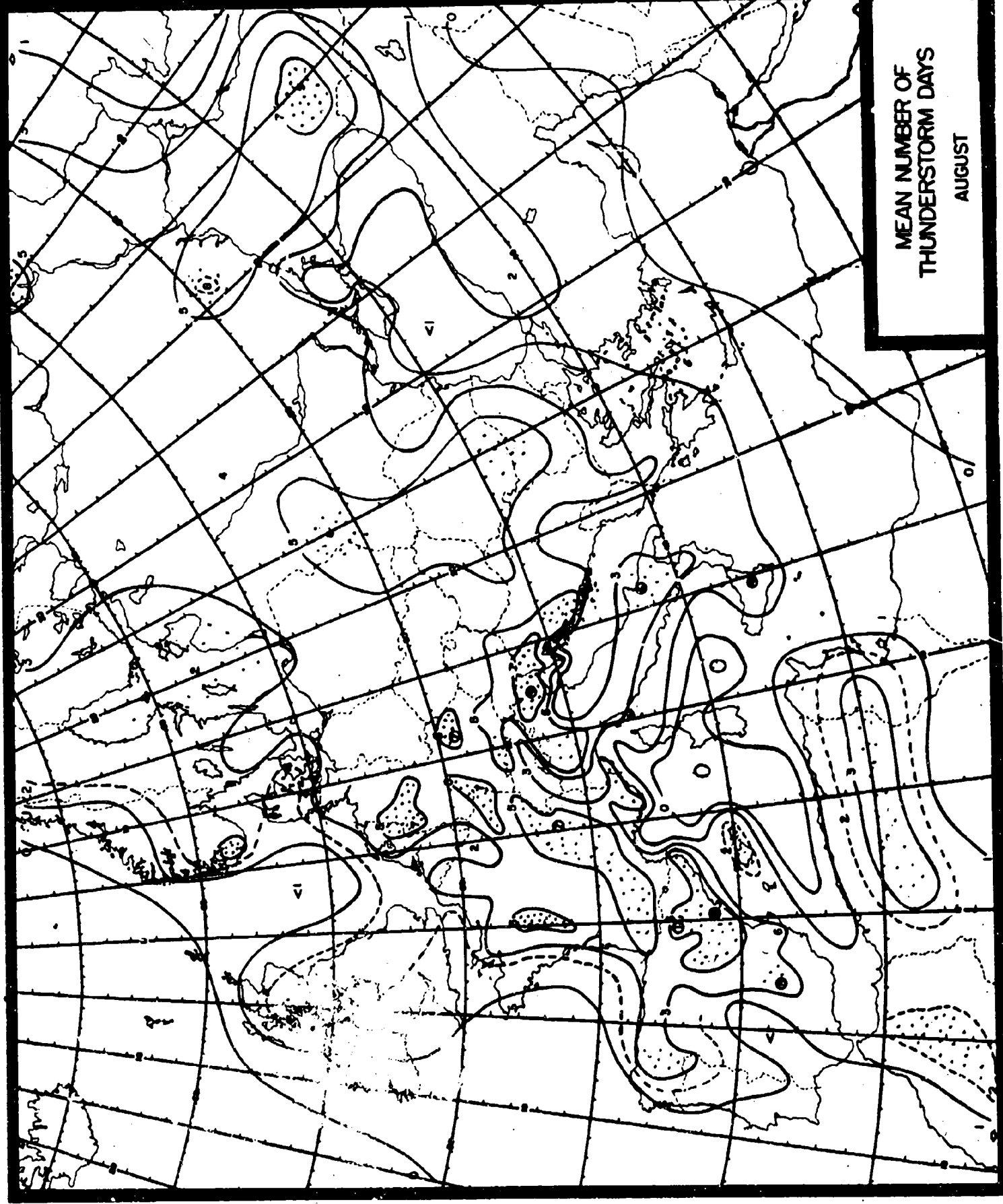
MEAN MONTHLY
PRECIPITATION (IN)
AUGUST



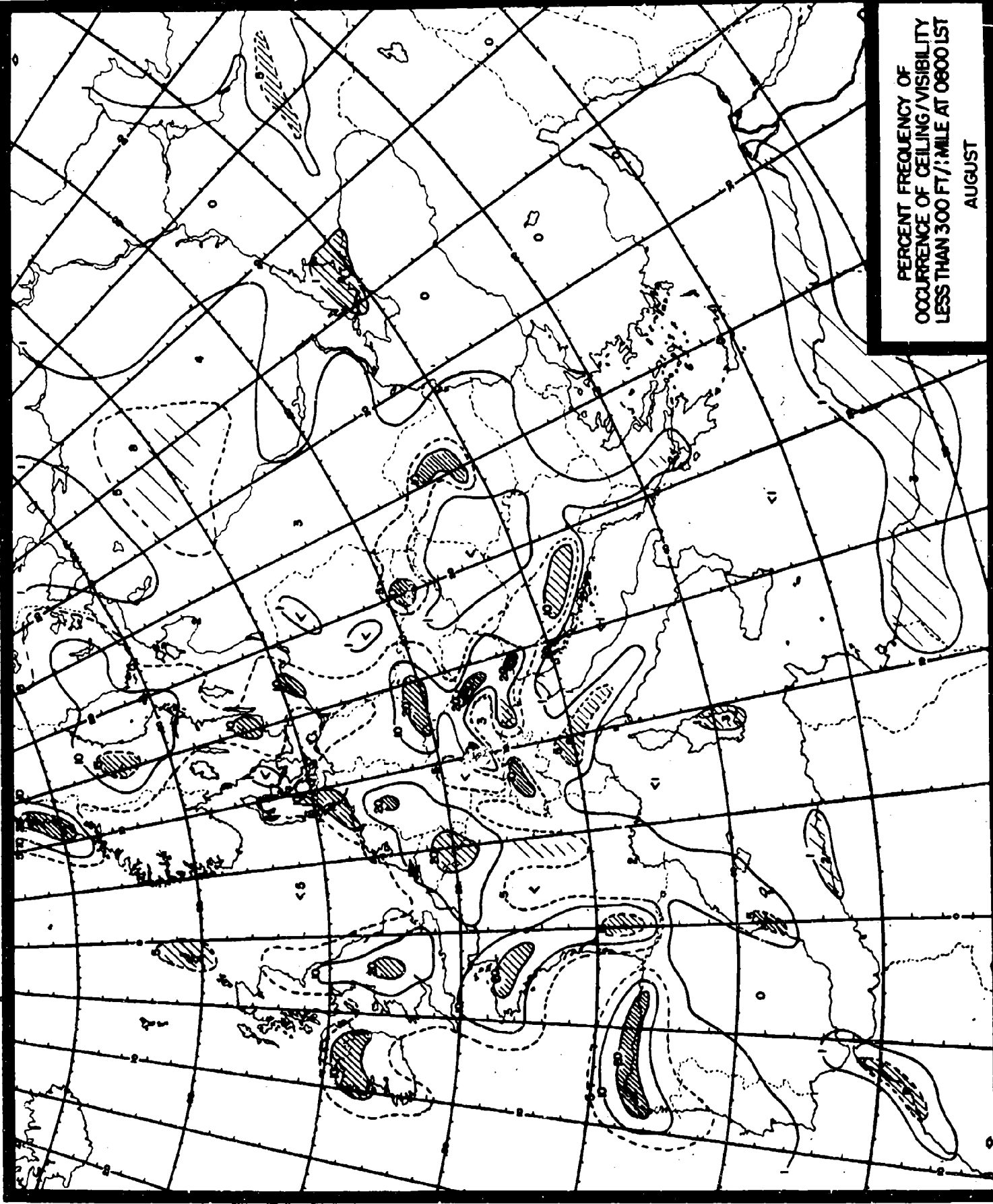
MEAN NUMBER OF
PRECIPITATION DAYS
AUGUST



MEAN NUMBER OF
THUNDERSTORM DAYS
AUGUST

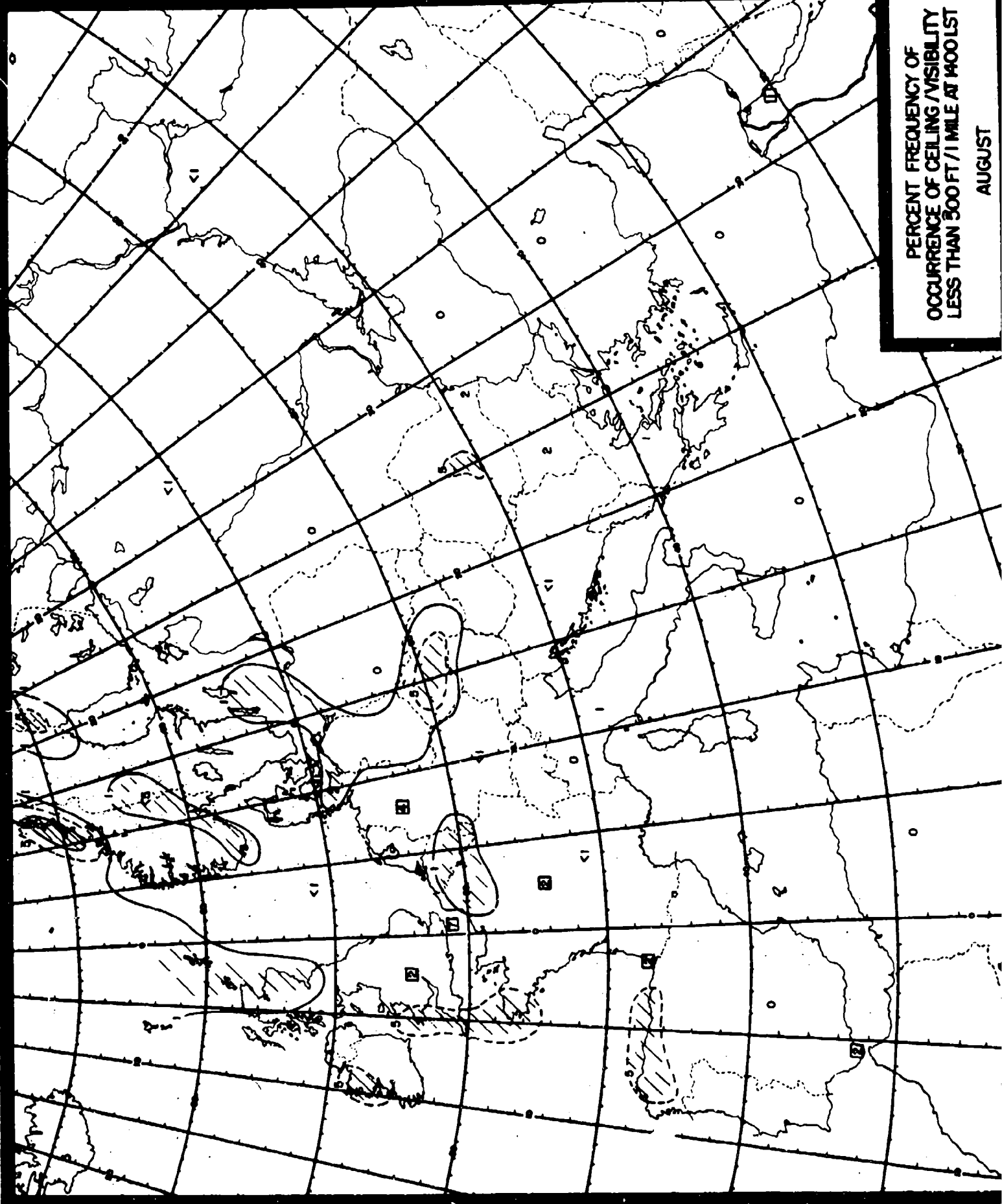


2WWP 05-13(C-1)

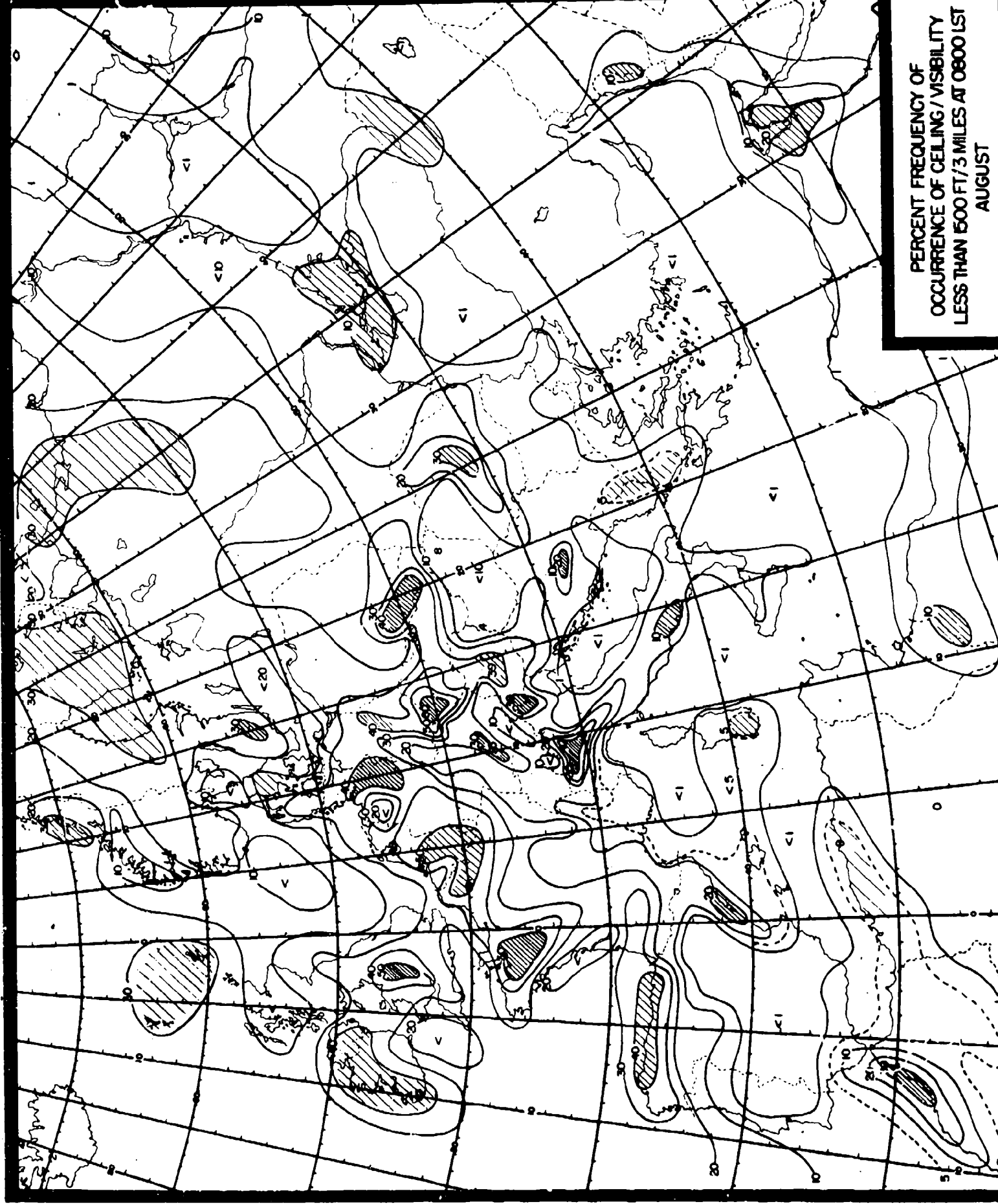


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT./MILE AT 0800 LST
AUGUST

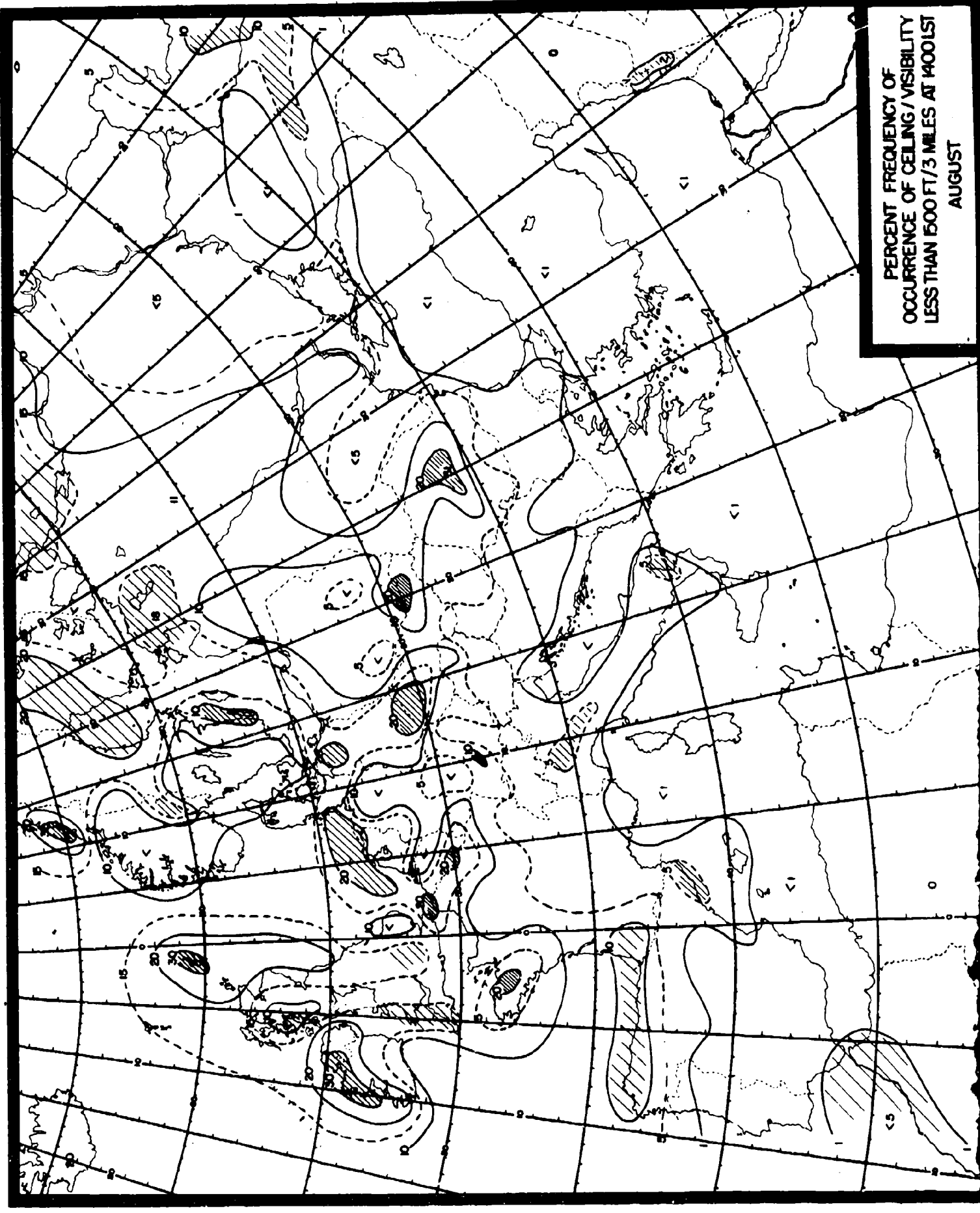
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 300 FT / 1 MILE AT 400LST
AUGUST



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 0800 LST
AUGUST



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 1400LST
AUGUST



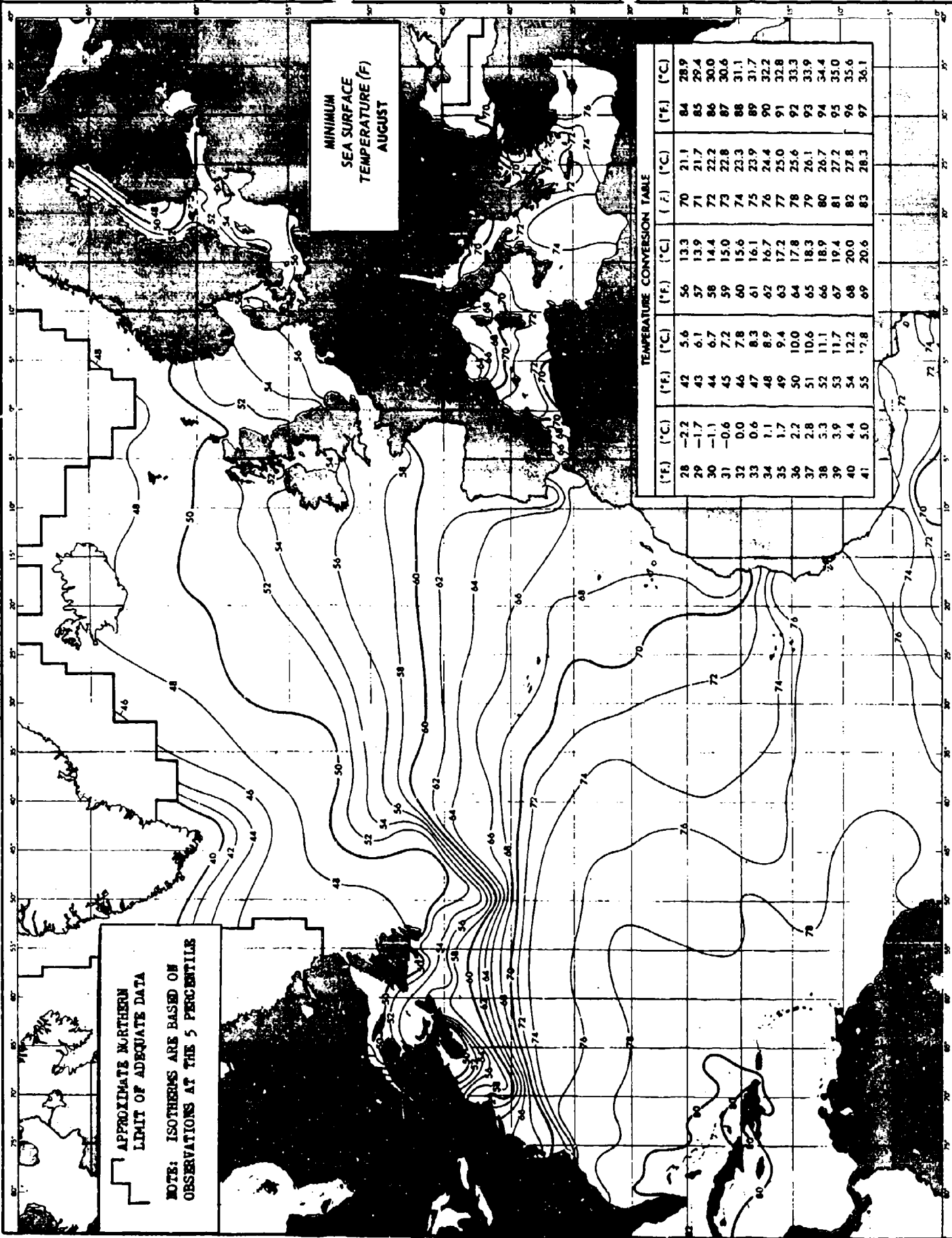
**MINIMUM
SEA SURFACE
TEMPERATURE (F)
AUGUST**

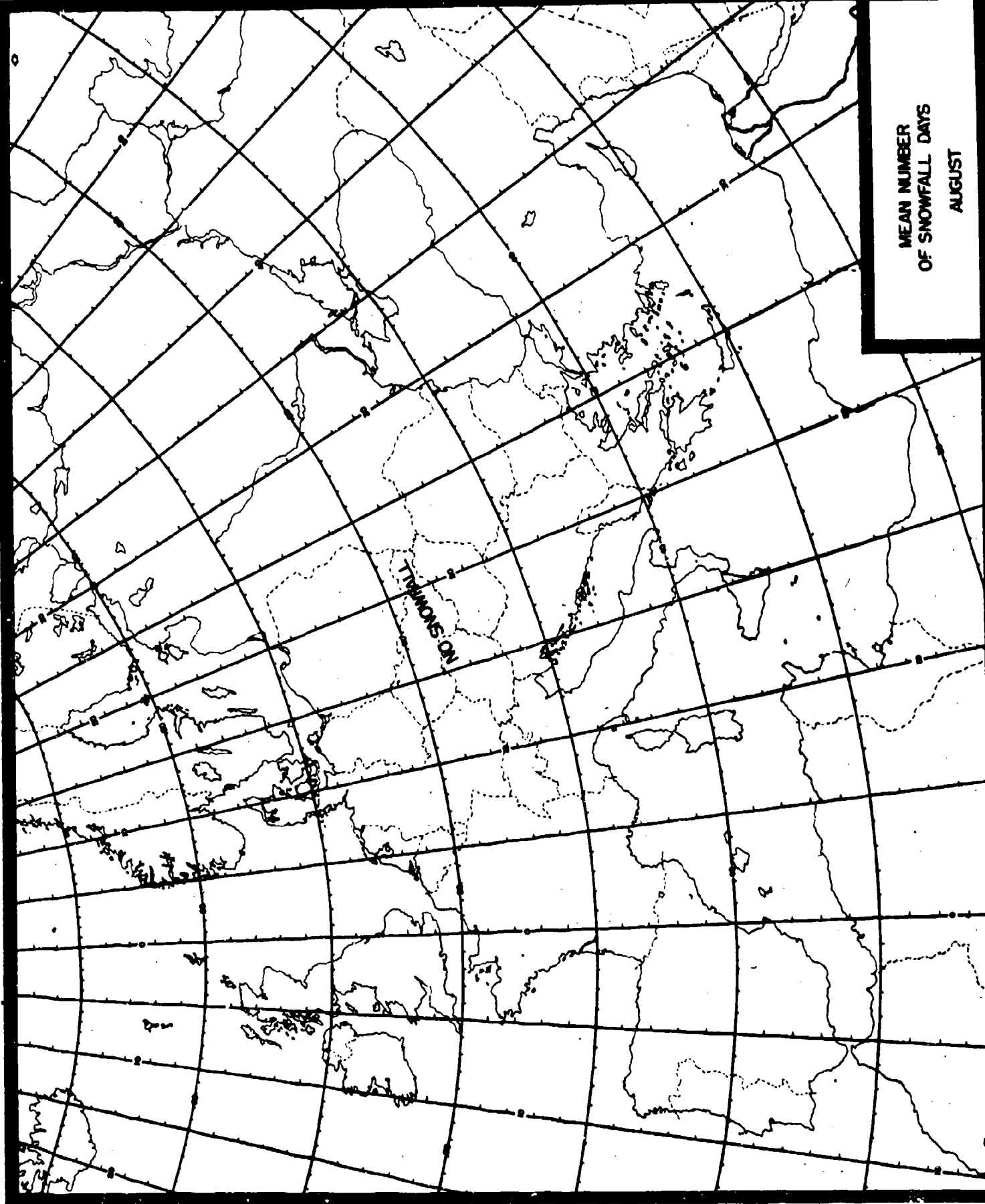
APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

TEMPERATURE CONVERSION TABLE

(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)	(°F.)	(°C.)
28	-2.2	56	13.3	70	21.1	84	28.9
29	-1.7	57	13.9	71	21.7	85	29.4
30	-1.1	58	14.4	72	22.2	86	30.0
31	-0.6	59	15.0	73	22.8	87	30.6
32	0.0	60	15.6	74	23.3	88	31.1
33	0.6	61	16.1	75	23.9	89	31.7
34	1.1	62	16.7	76	24.4	90	32.2
35	1.7	63	17.2	77	25.0	91	32.8
36	2.2	64	17.8	78	25.6	92	33.3
37	2.8	65	18.3	79	26.1	93	33.9
38	3.3	66	18.9	80	26.7	94	34.4
39	3.9	67	19.4	81	27.2	95	35.0
40	4.4	68	20.0	82	27.8	96	35.6
41	5.0	69	20.6	83	28.3	97	36.1

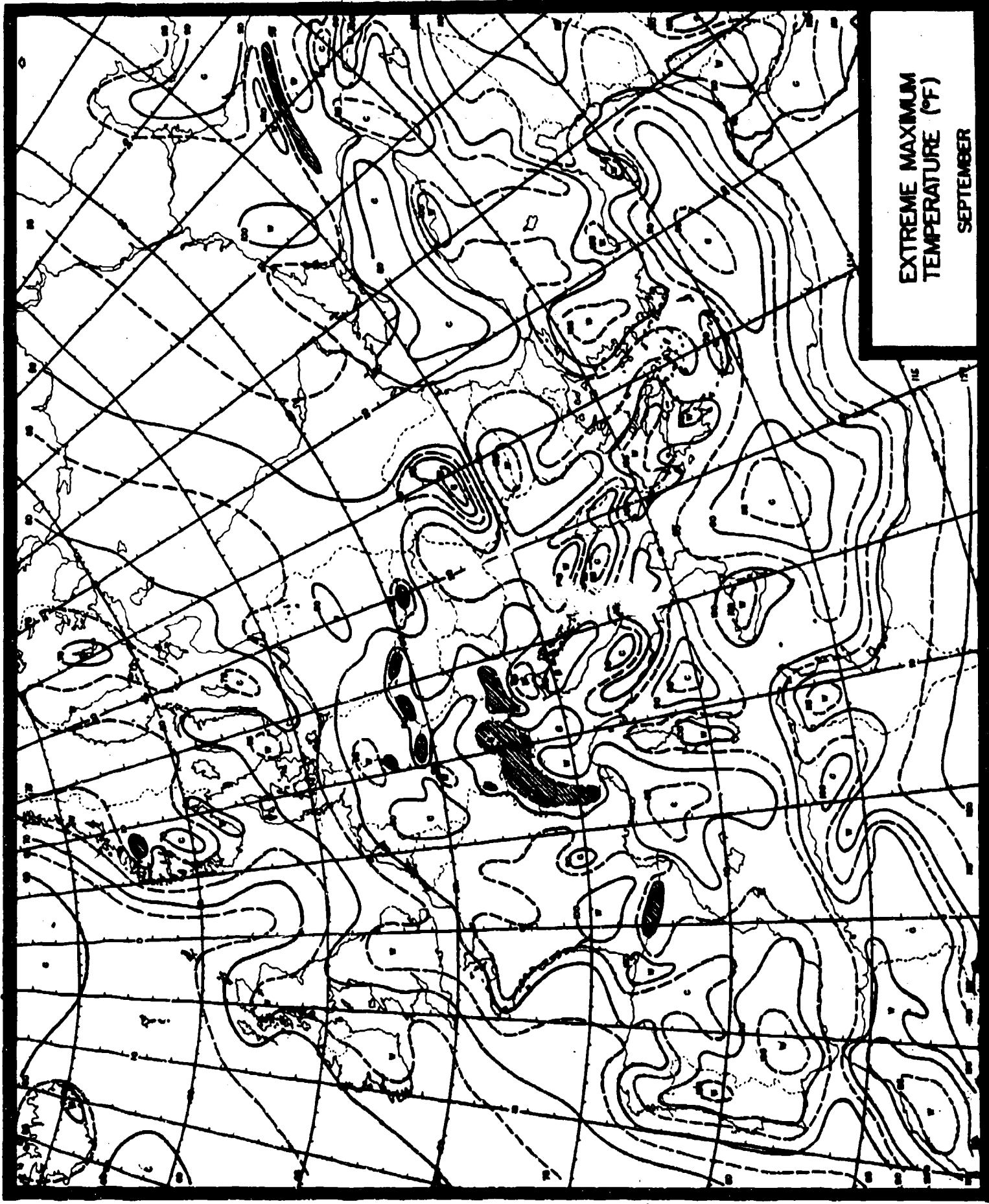




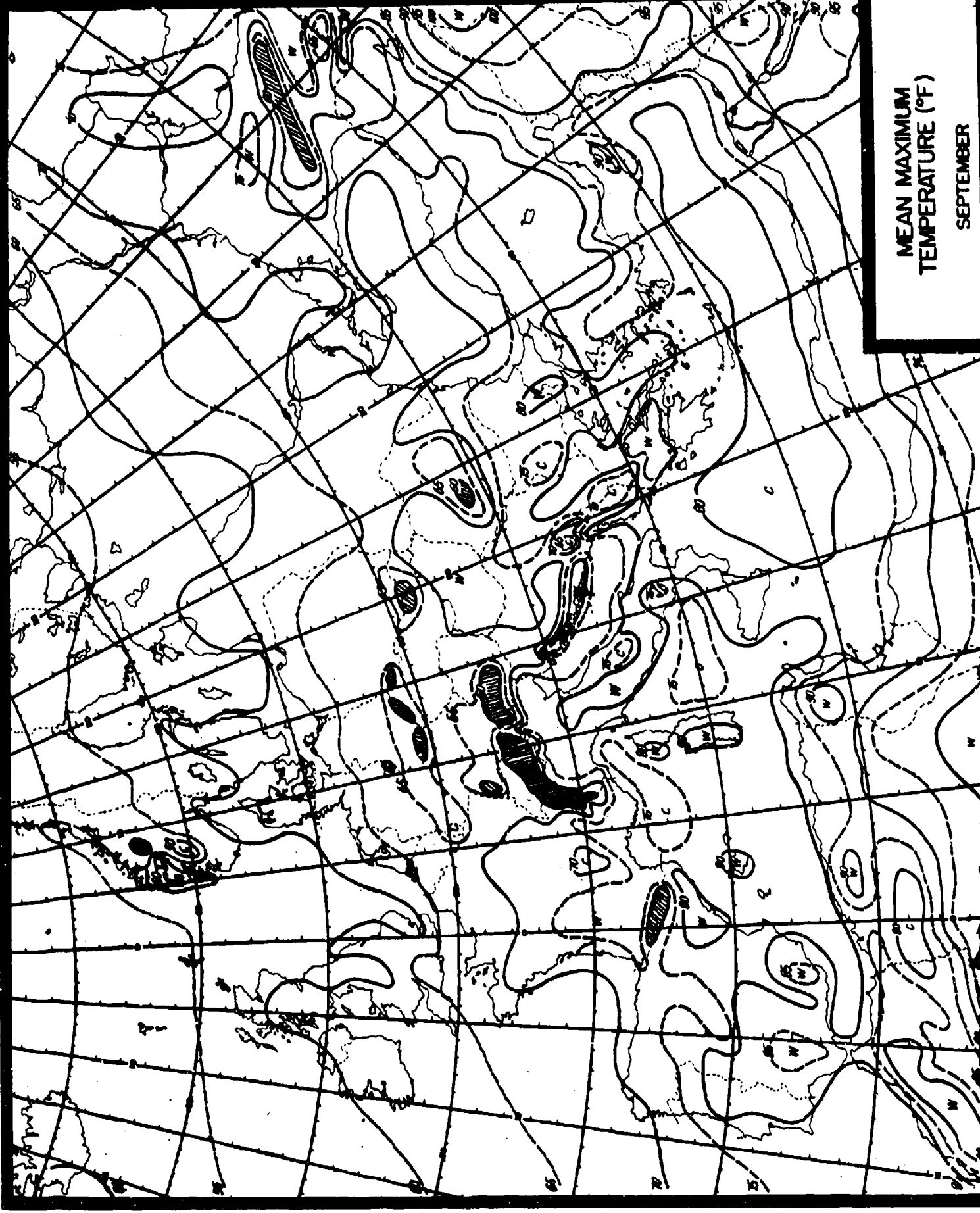
MEAN NUMBER
OF SNOWFALL DAYS
AUGUST

EXTREME MAXIMUM
TEMPERATURE (°F)

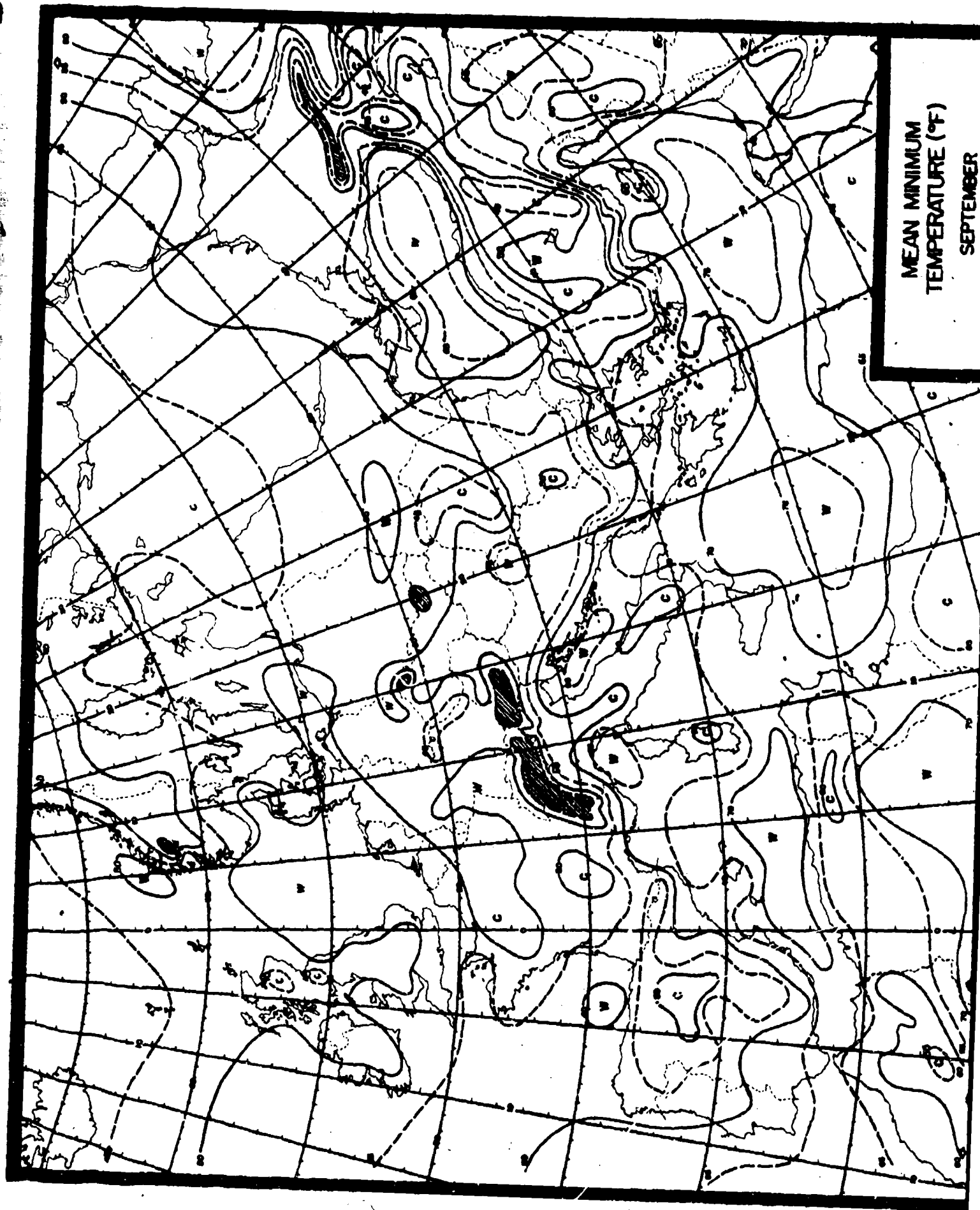
SEPTEMBER



MEAN MAXIMUM
TEMPERATURE (°F)
SEPTEMBER

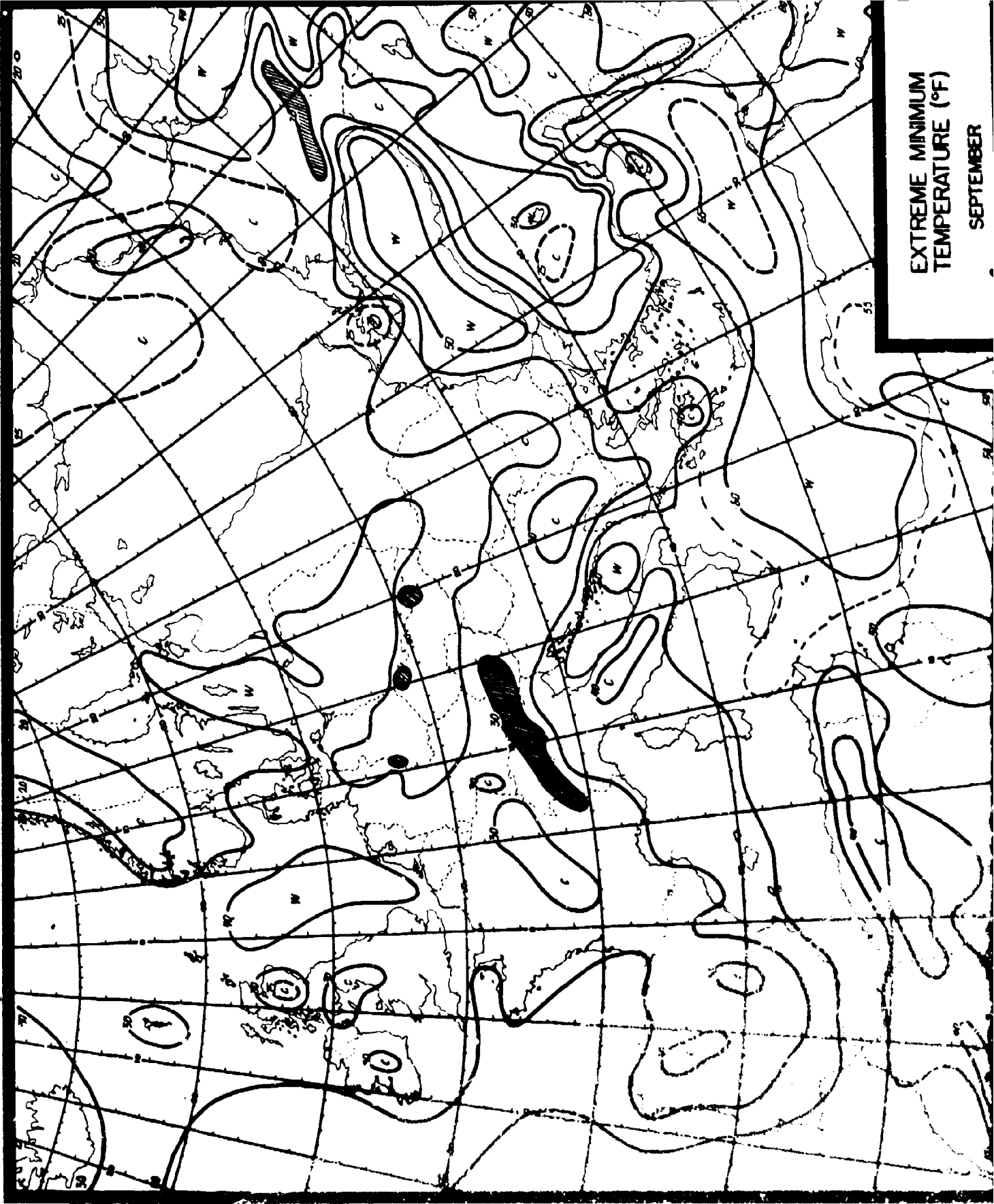


MEAN MINIMUM
TEMPERATURE (°F)
SEPTEMBER



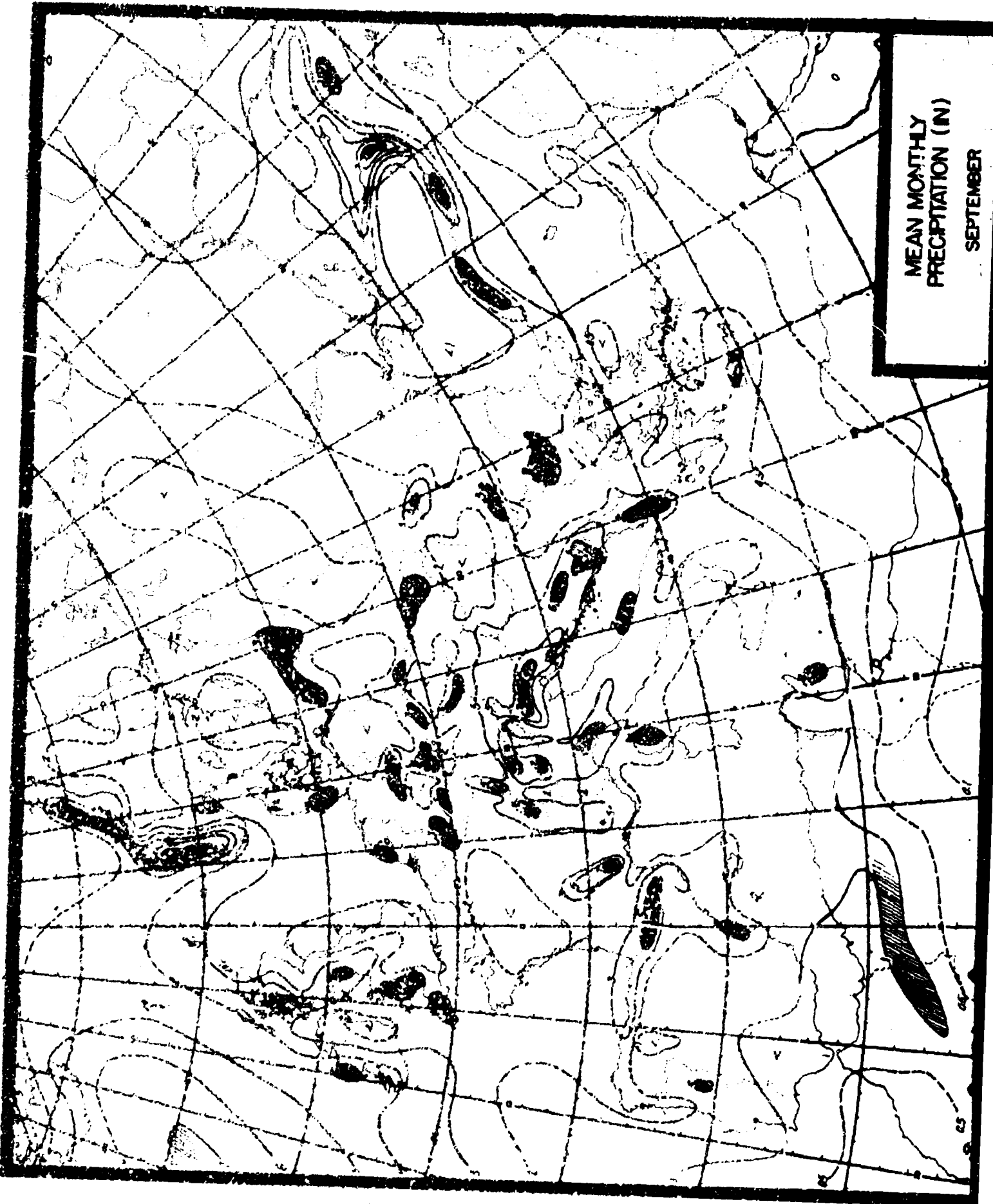
EXTREME MINIMUM
TEMPERATURE (°F)

SEPTEMBER

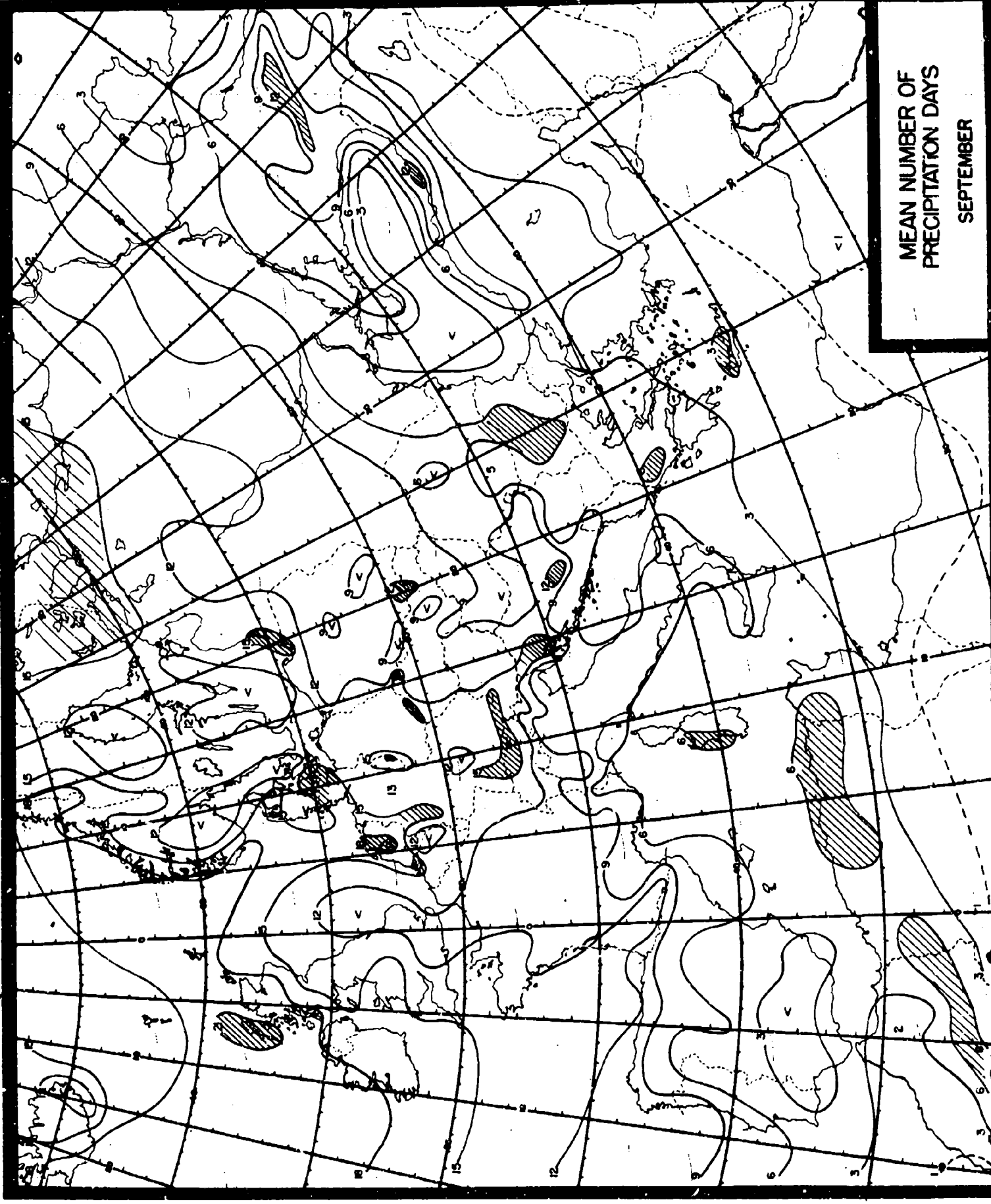


MEAN MONTHLY
PRECIPITATION (IN)

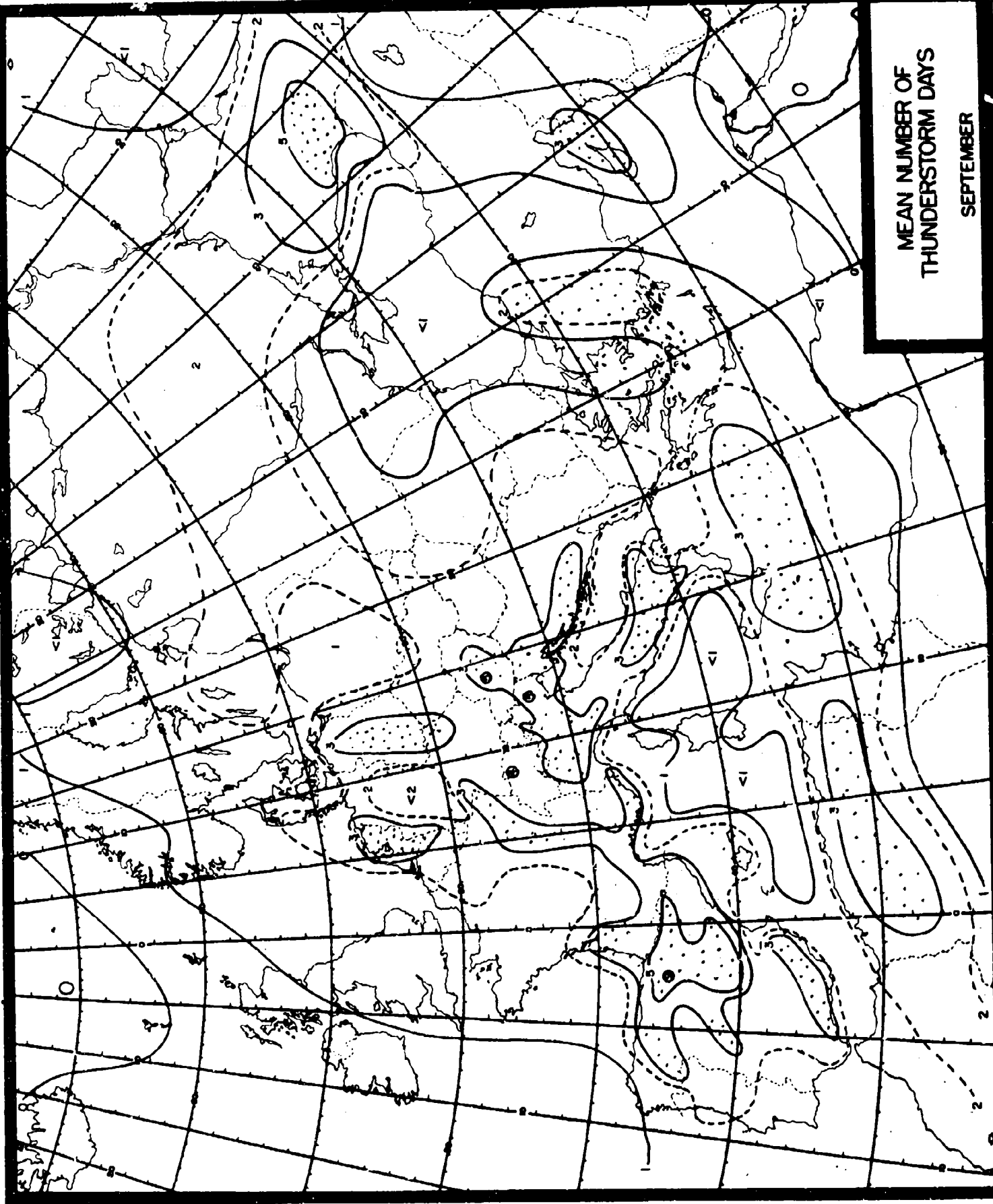
SEPTEMBER



MEAN NUMBER OF
PRECIPITATION DAYS
SEPTEMBER

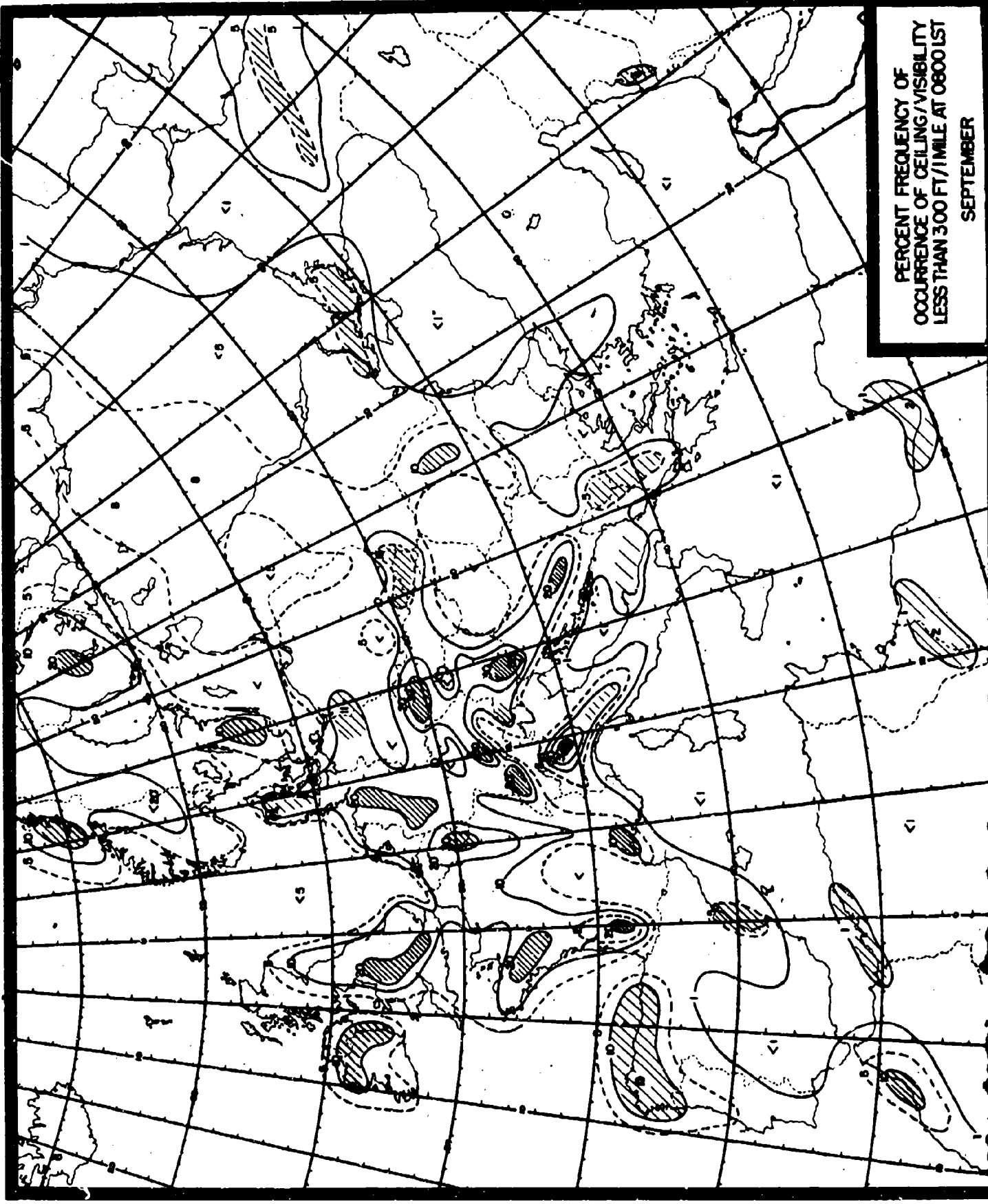


MEAN NUMBER OF
THUNDERSTORM DAYS
SEPTEMBER

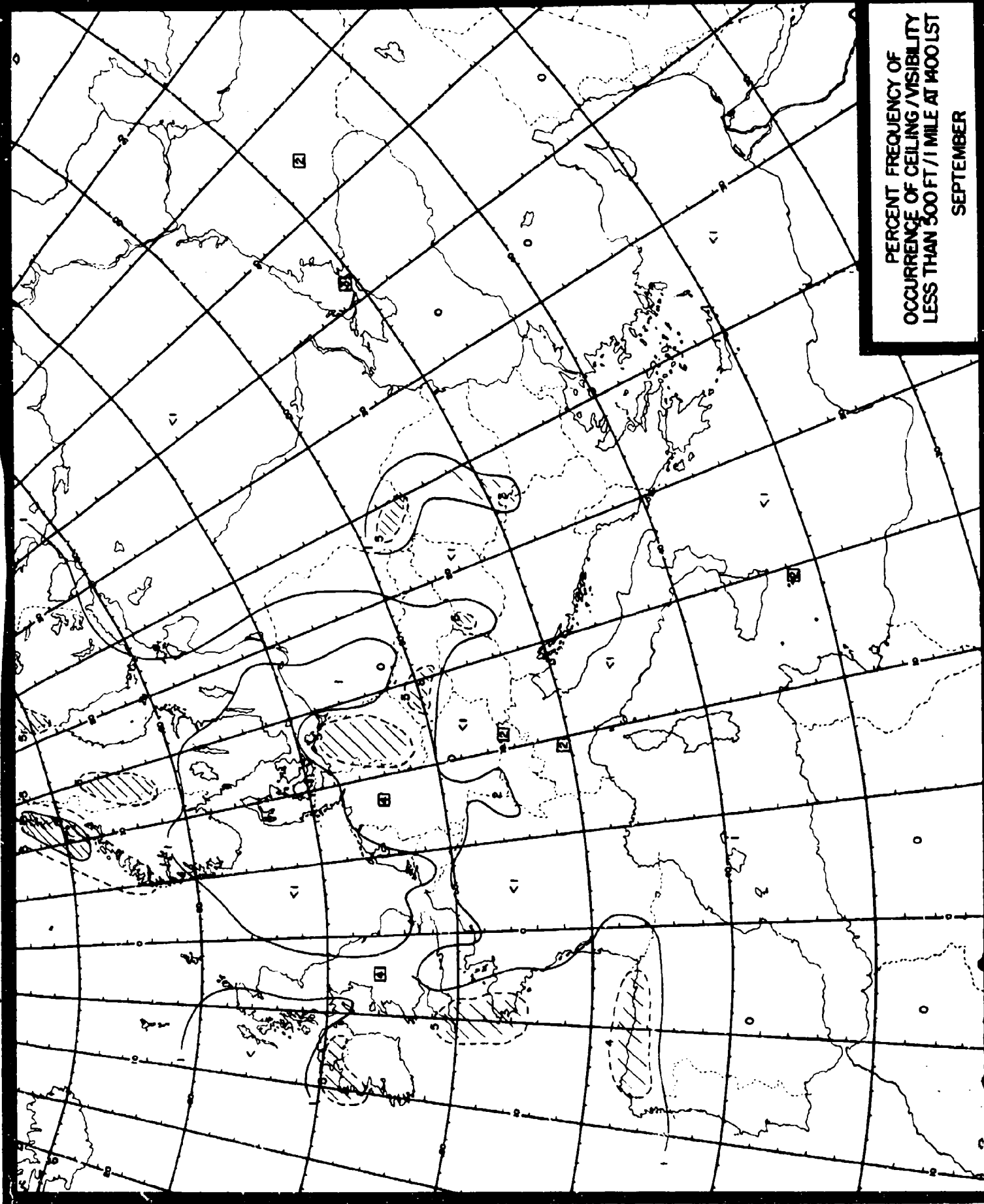


2 WWP 105-13(C-1)

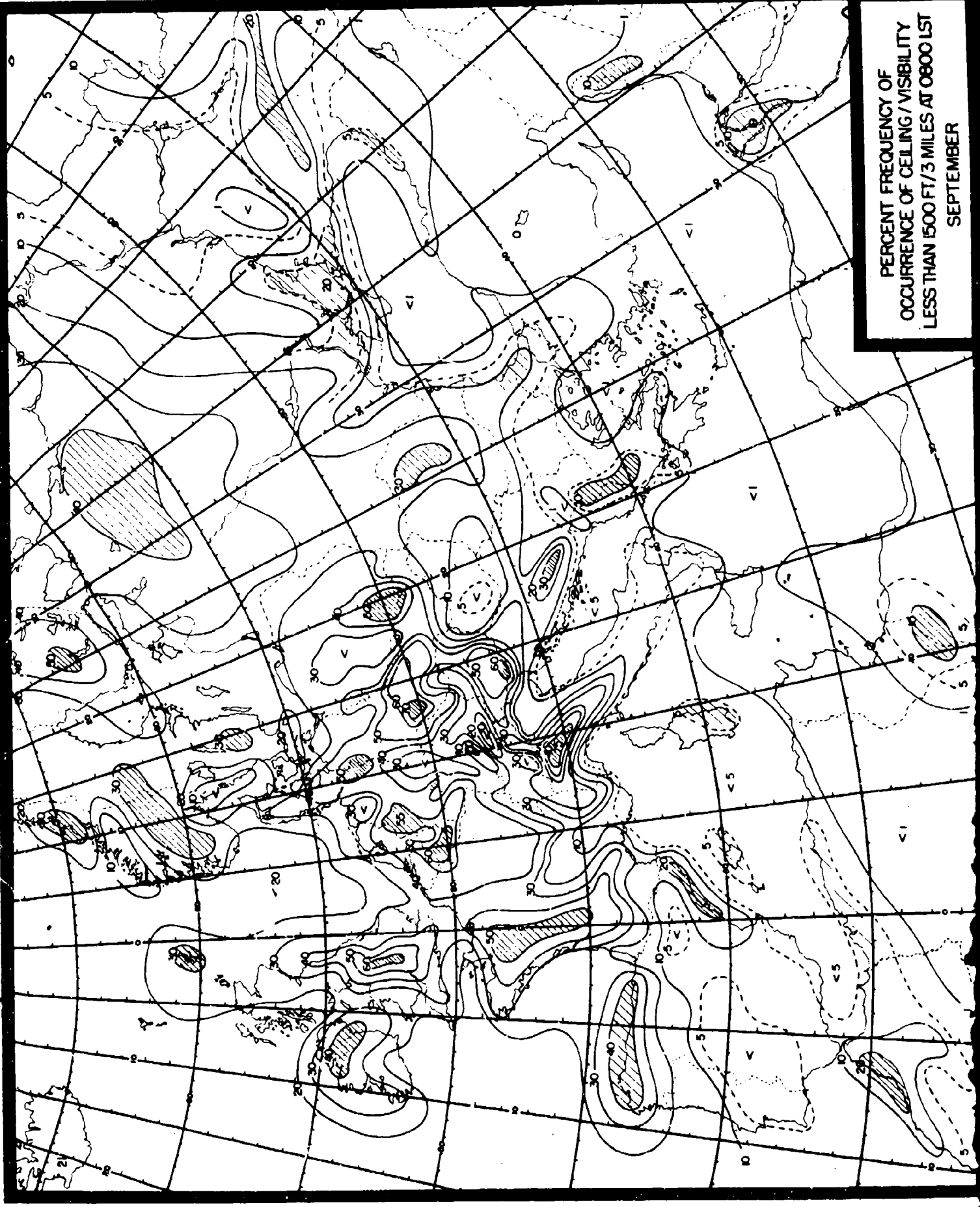
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0600 LST
SEPTEMBER



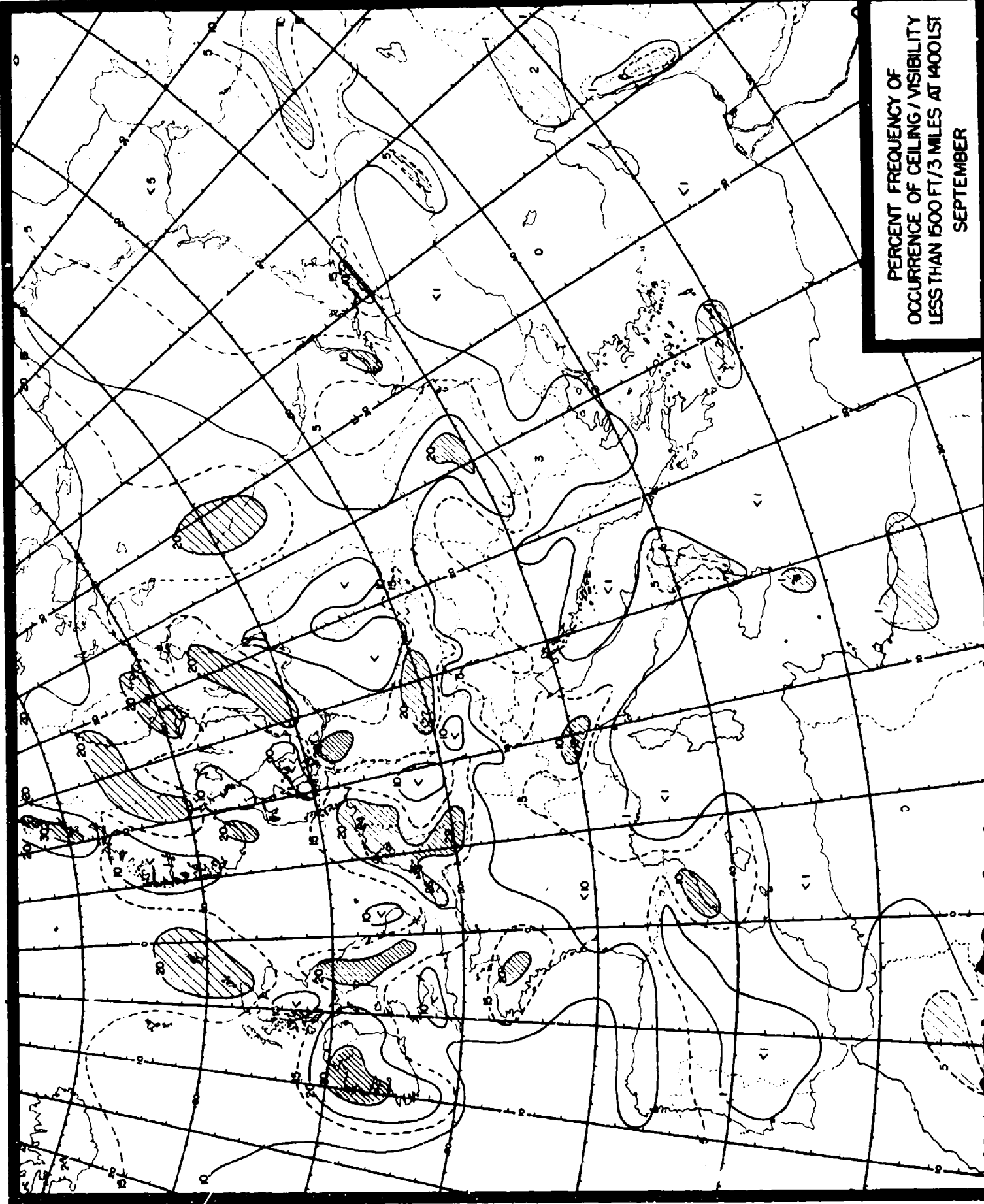
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 400LST
SEPTEMBER

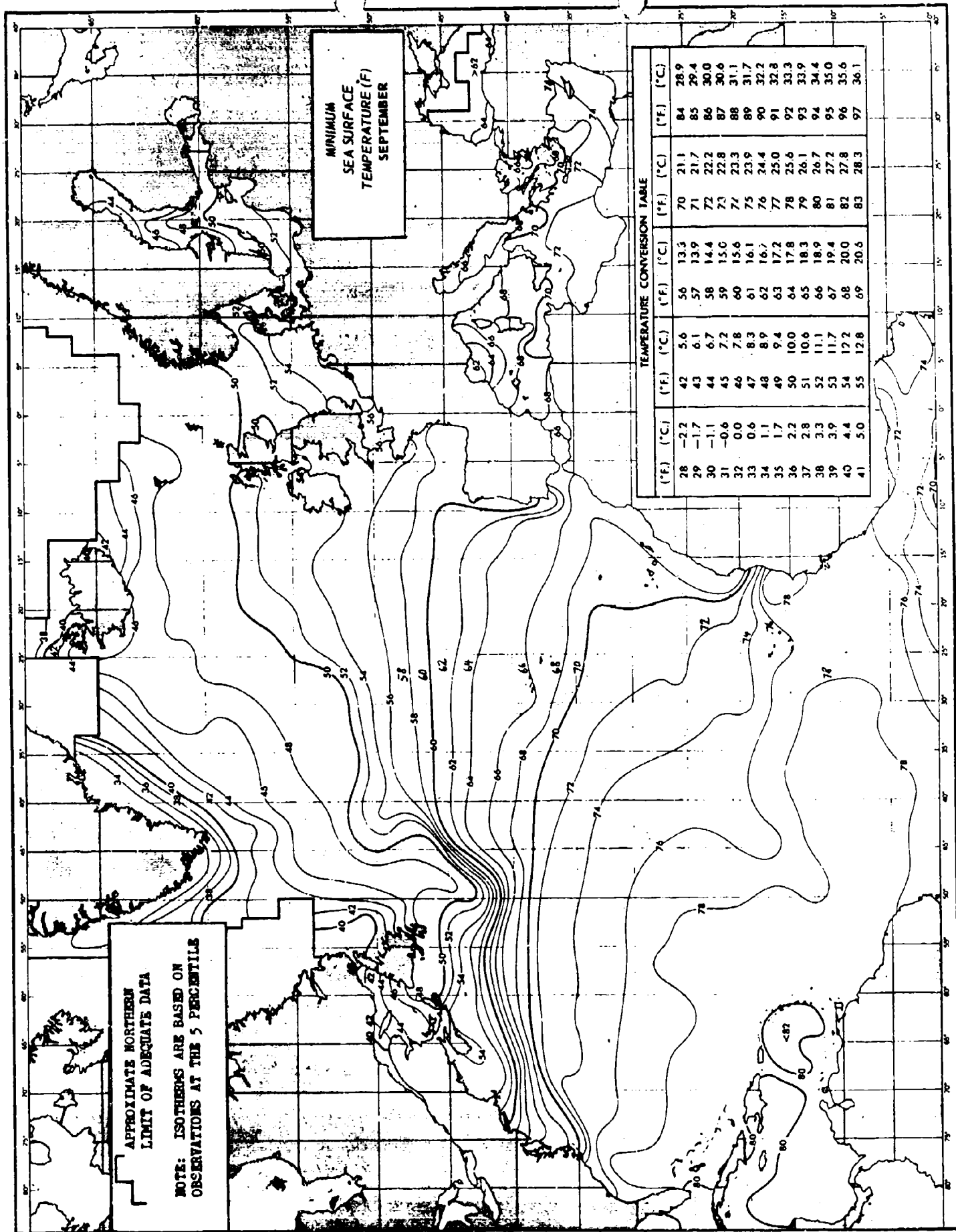


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 0800 LST
SEPTEMBER



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 1400LST
SEPTEMBER





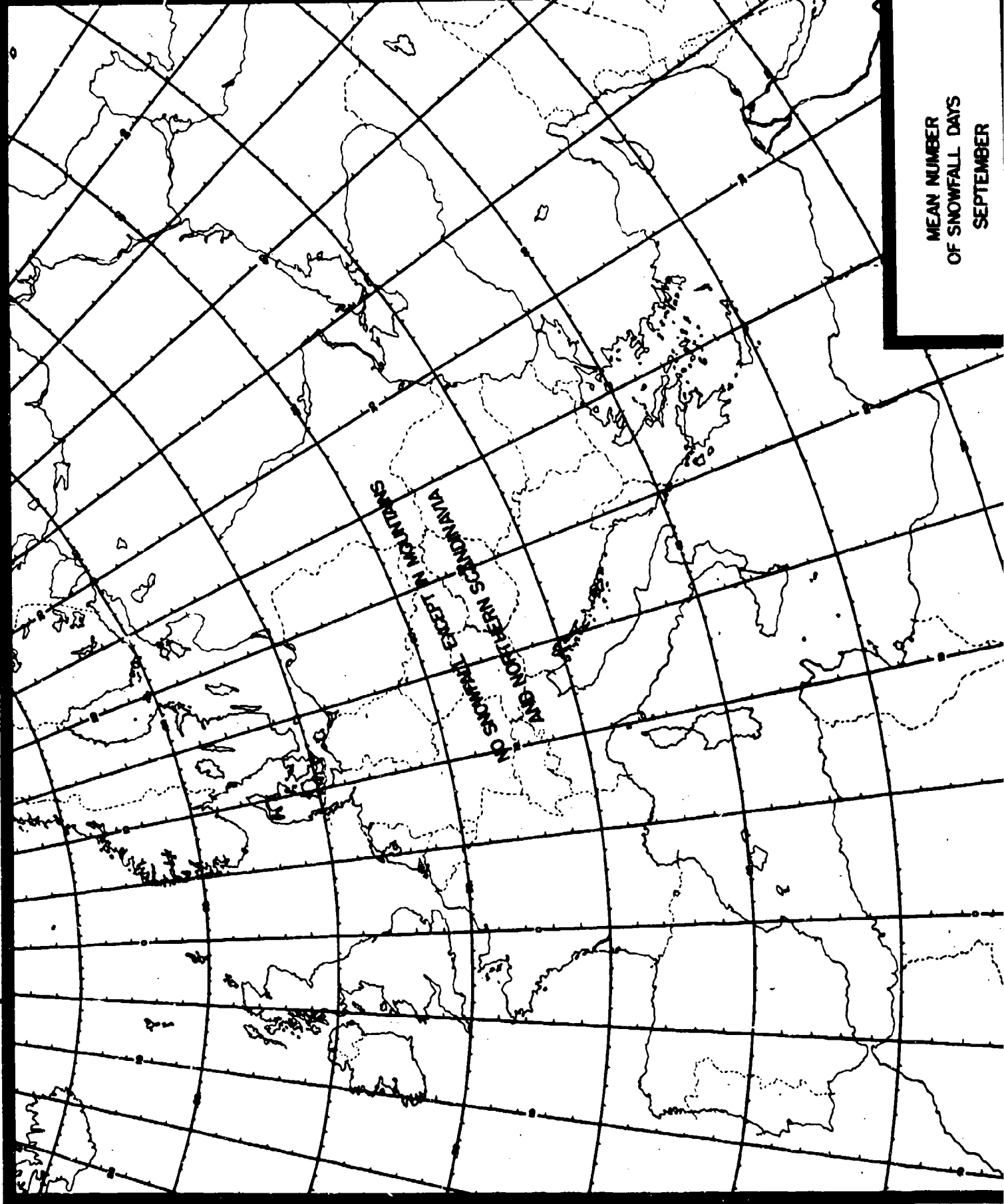
MINIMUM
SEA SURFACE
TEMPERATURE (F)
SEPTEMBER

APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILES

TEMPERATURE CONVERSION TABLE

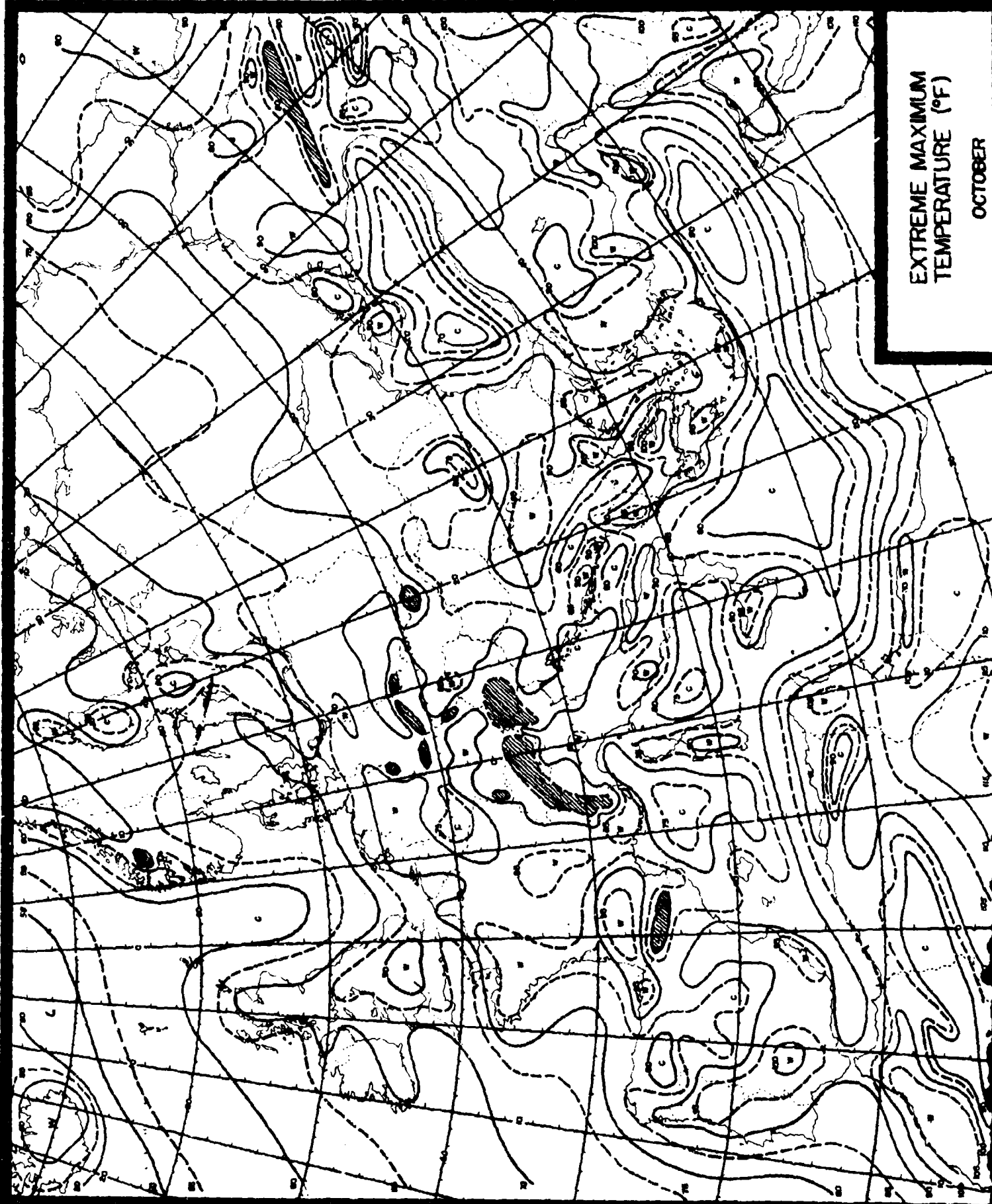
(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)
28	-2.2	42	5.6	56	13.3	70	21.1
29	-1.7	43	6.1	57	13.9	71	21.7
30	-1.1	44	6.7	58	14.4	72	22.2
31	-0.6	45	7.2	59	15.0	73	22.8
32	0.0	46	7.8	60	15.6	74	23.3
33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
35	1.7	49	9.4	63	17.2	77	25.0
36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.5	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
						92	33.3
						93	33.9
						94	34.4
						95	35.0
						96	35.6
						97	36.1



MEAN NUMBER
OF SNOWFALL DAYS
SEPTEMBER

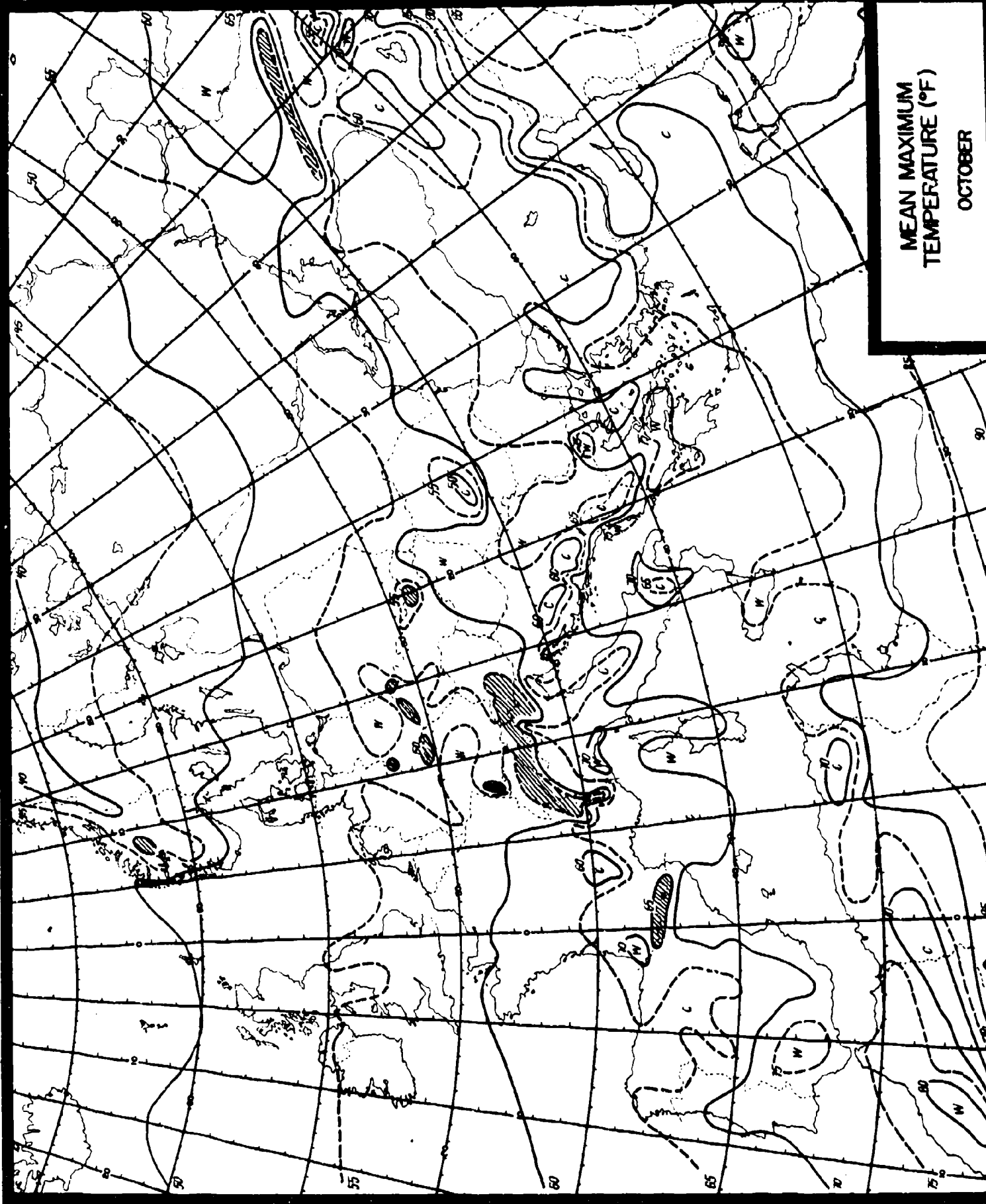
EXTREME MAXIMUM
TEMPERATURE (°F)

OCTOBER

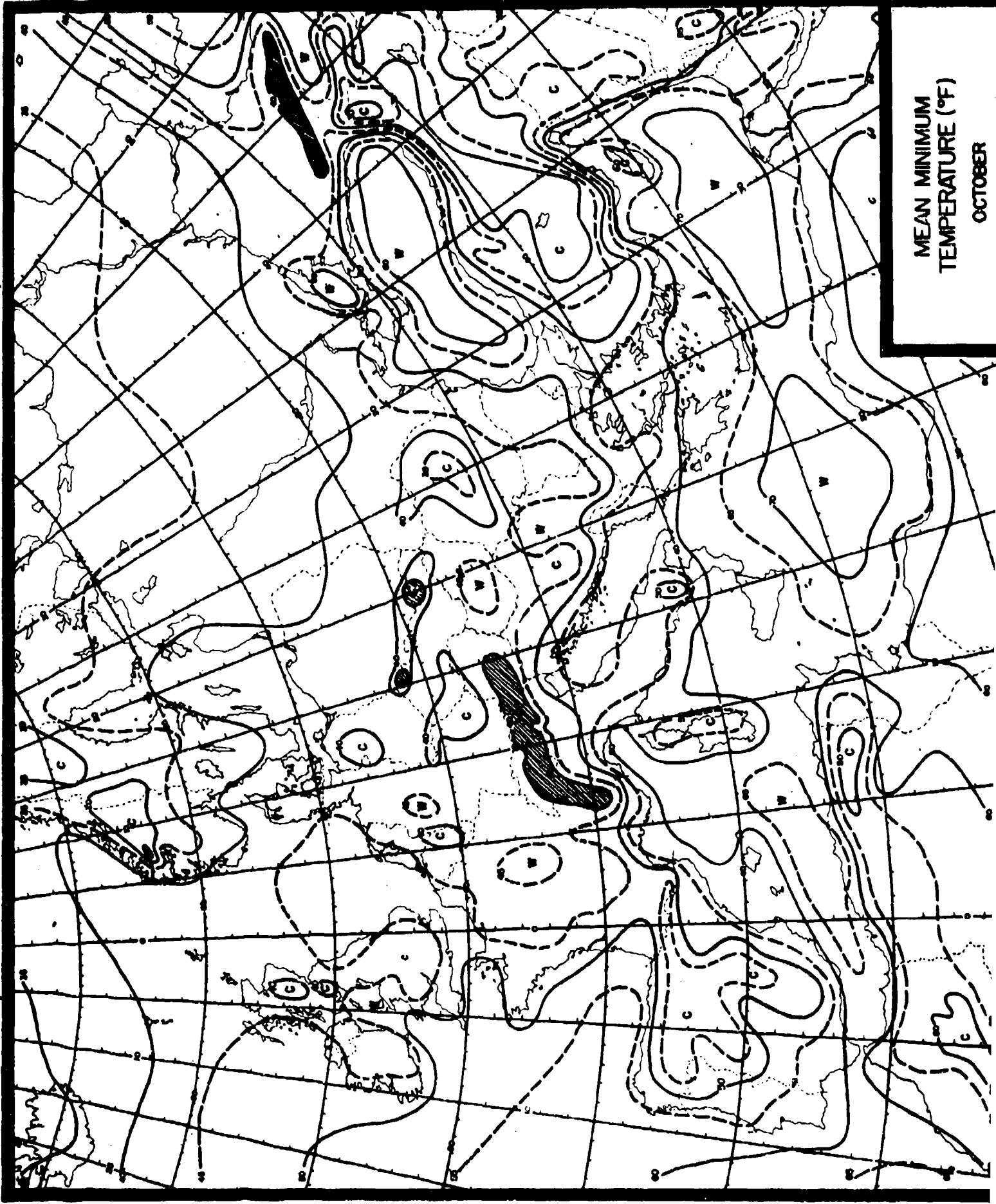


MEAN MAXIMUM
TEMPERATURE (°F)

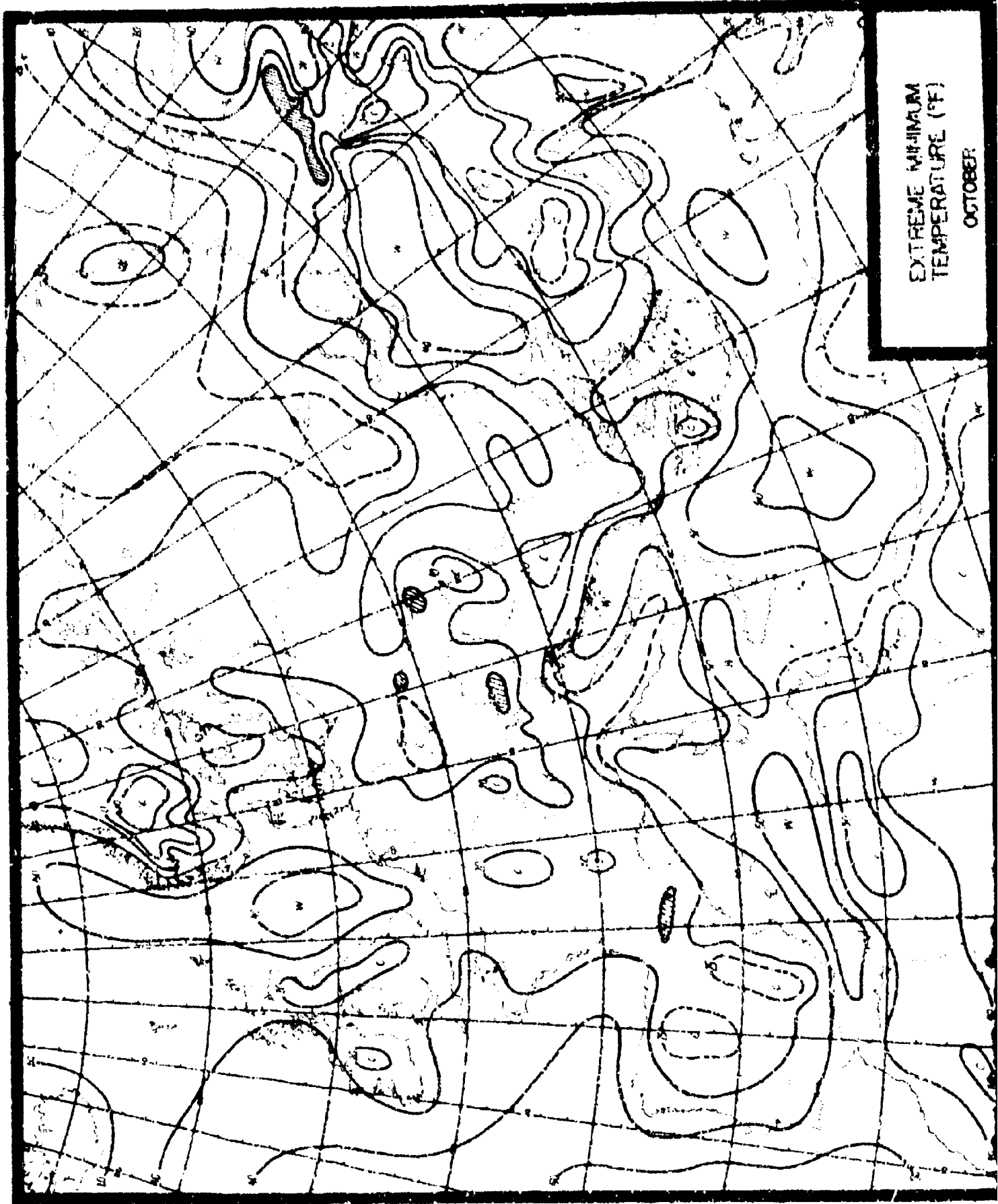
OCTOBER



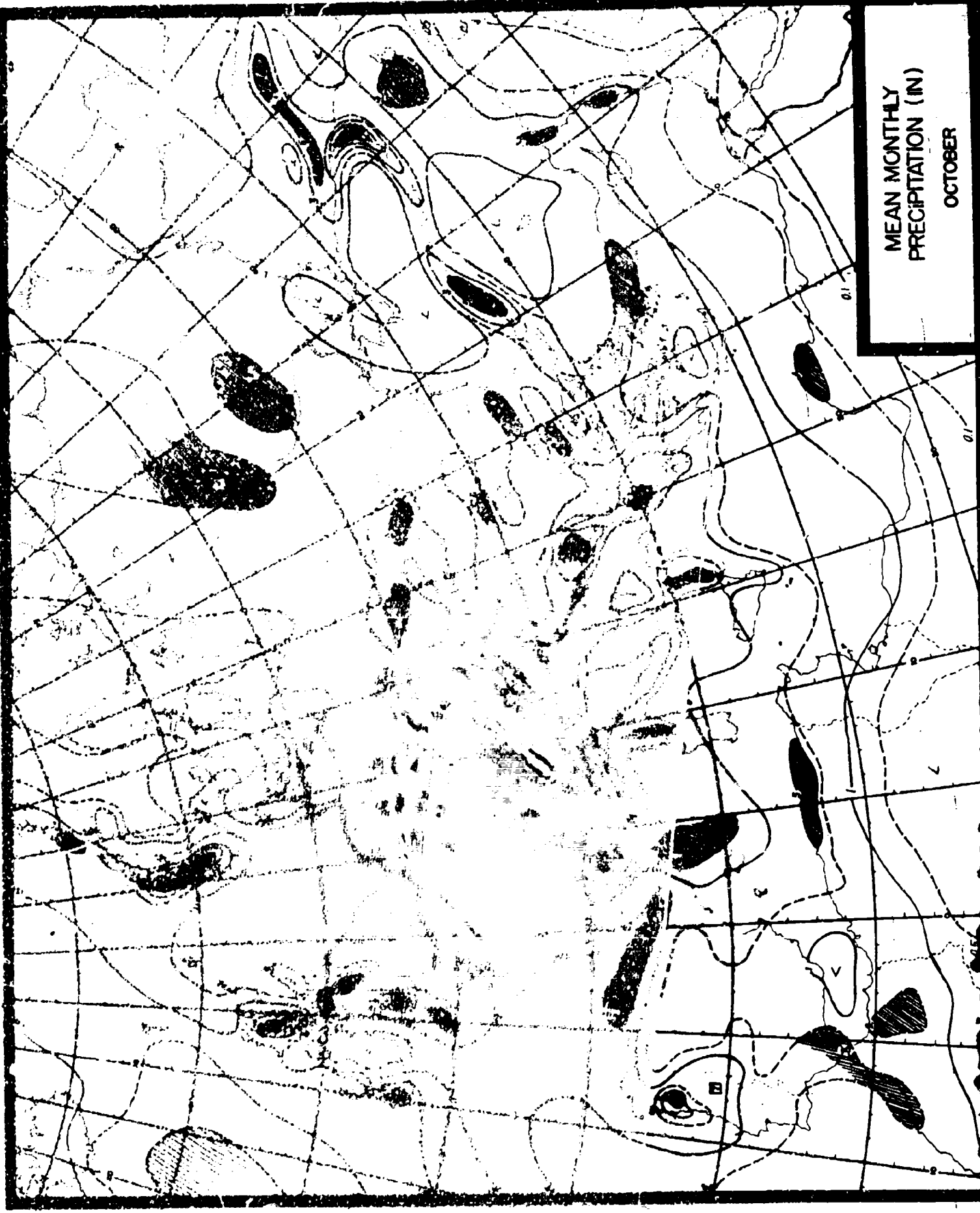
MEAN MINIMUM
TEMPERATURE (°F)
OCTOBER



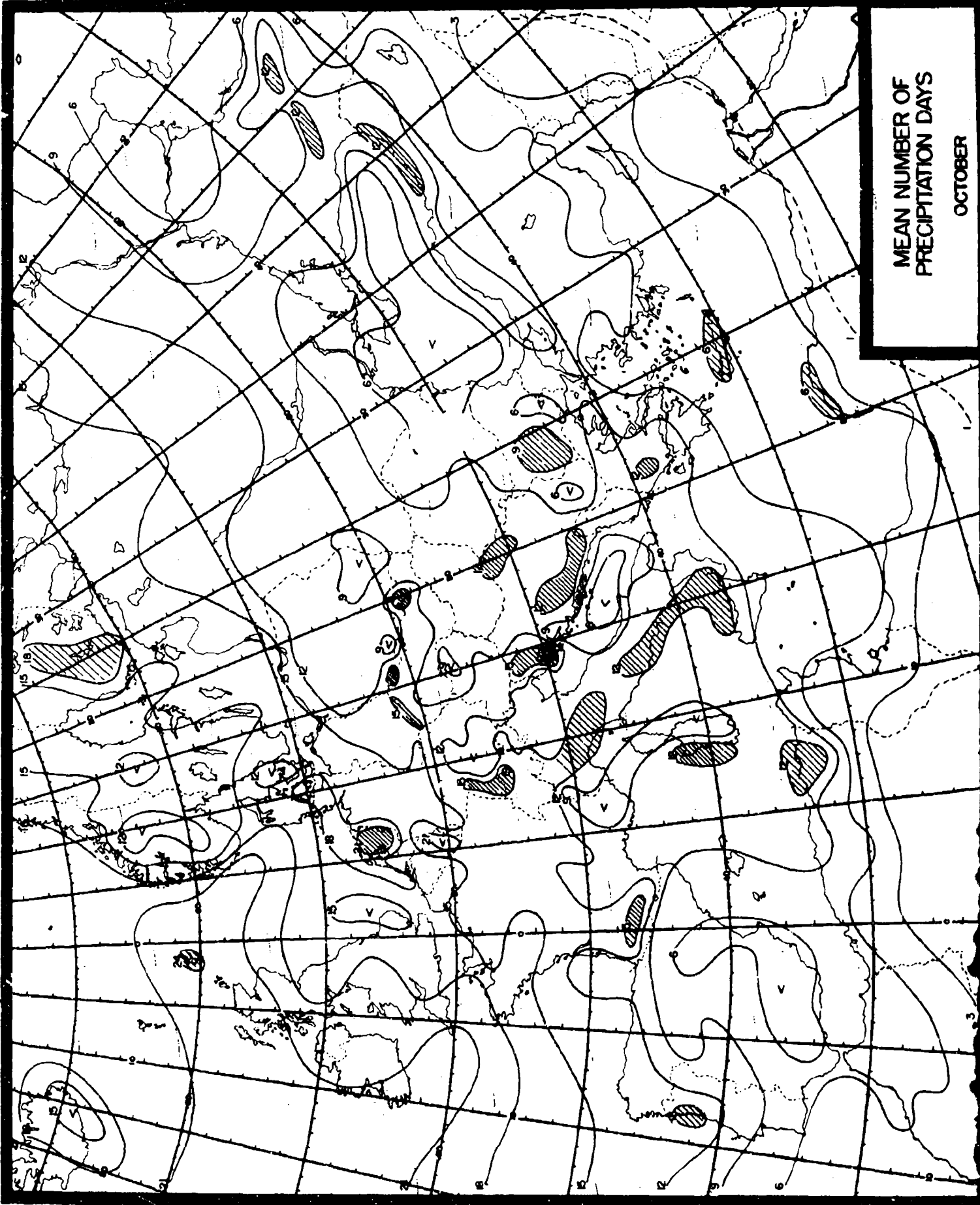
EXTREME MINIMUM
TEMPERATURE (°F)
OCTOBER



MEAN MONTHLY
PRECIPITATION (IN)
OCTOBER

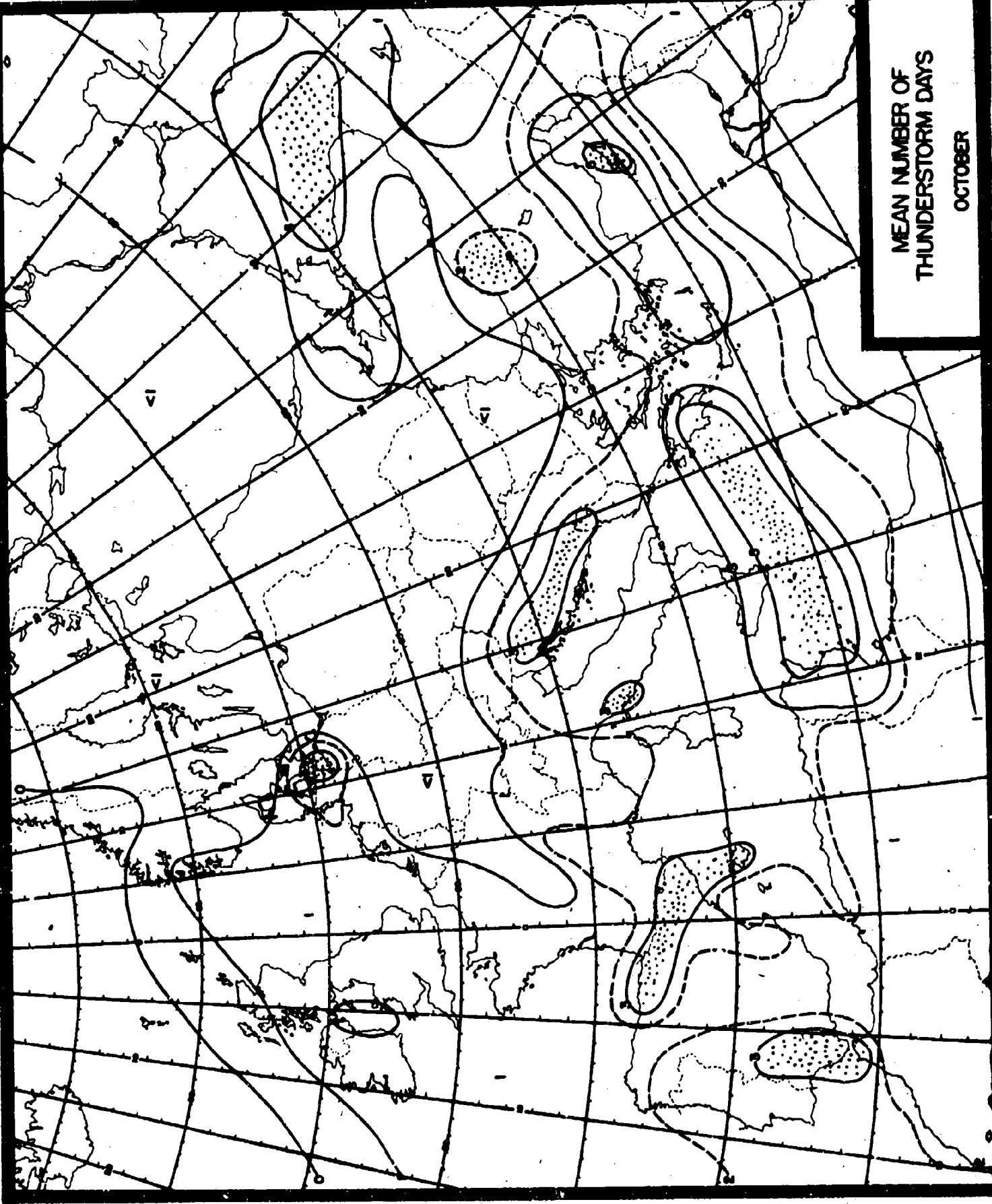


MEAN NUMBER OF
PRECIPITATION DAYS
OCTOBER

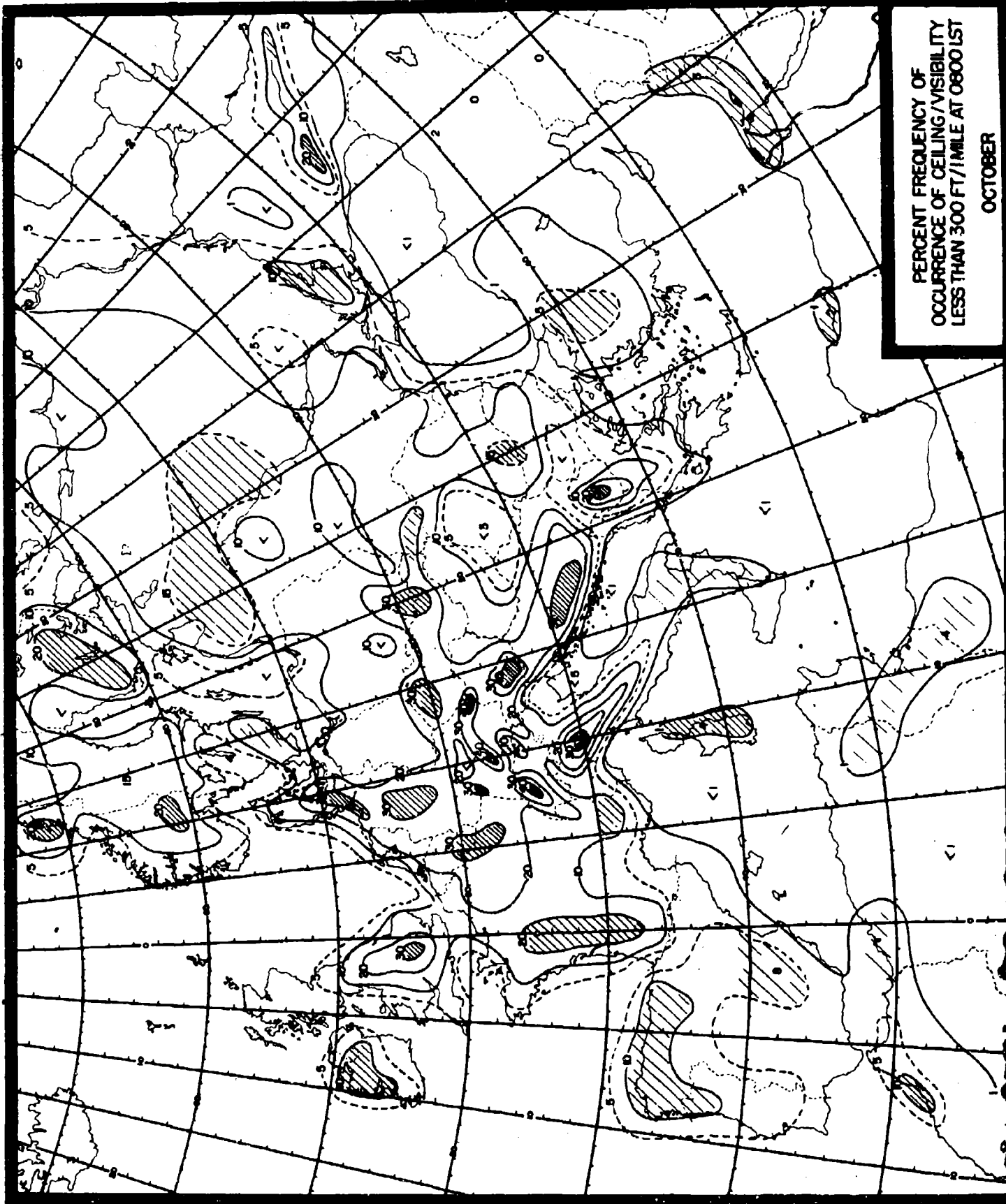


2WMP 105-13 (C-1)

MEAN NUMBER OF
THUNDERSTORM DAYS
OCTOBER



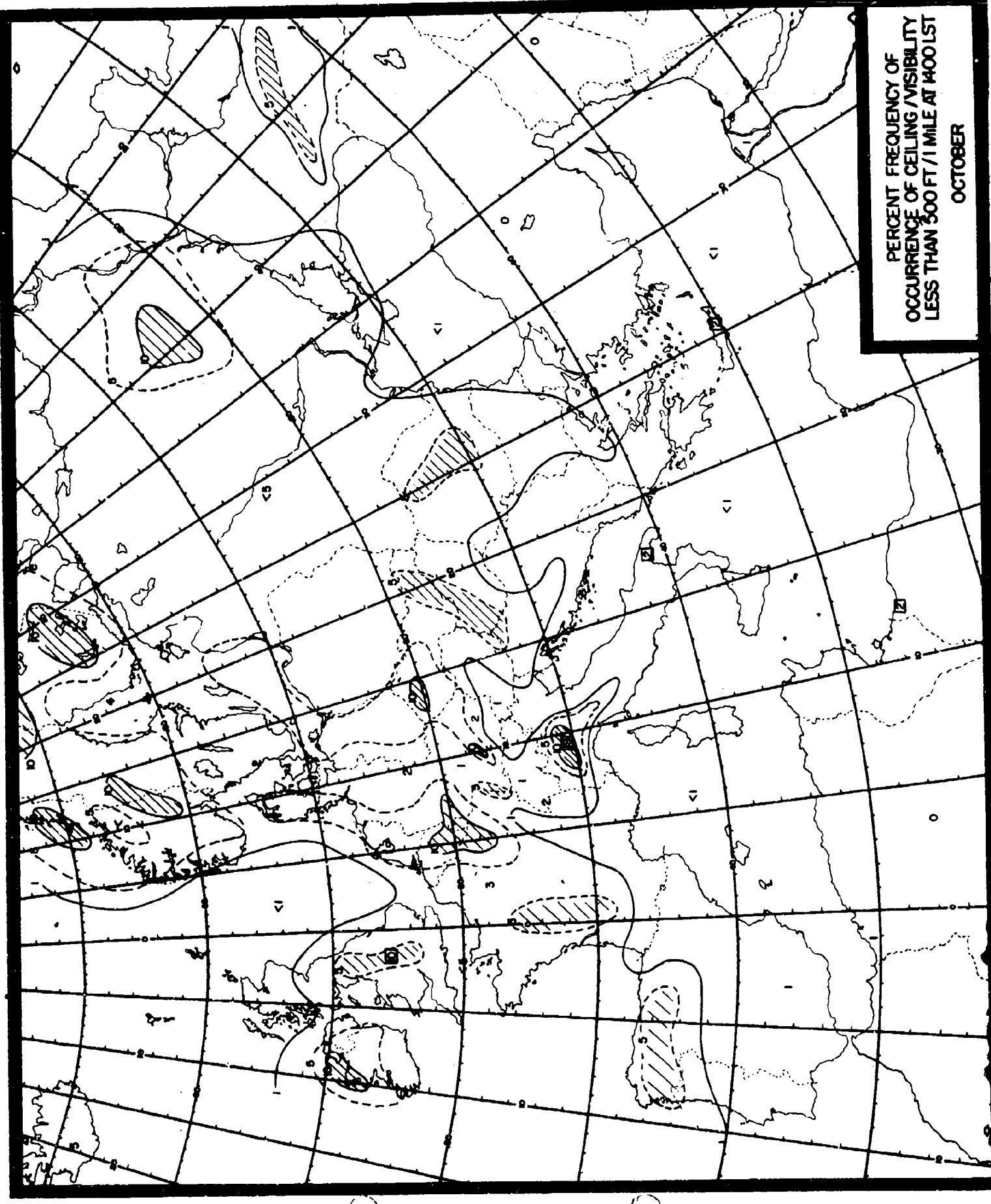
2WMP105-13(G-1)

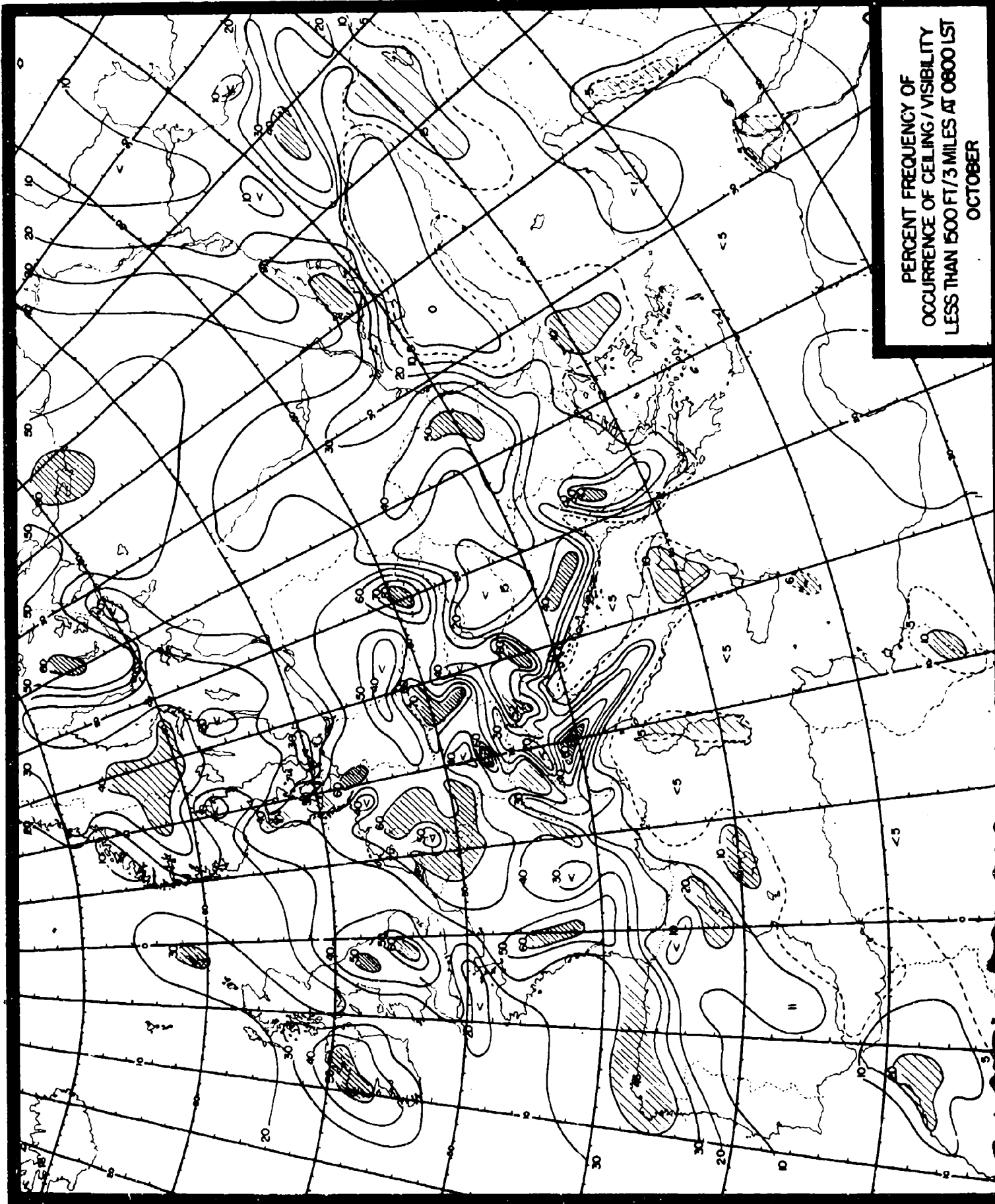


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0600 LST

OCTOBER

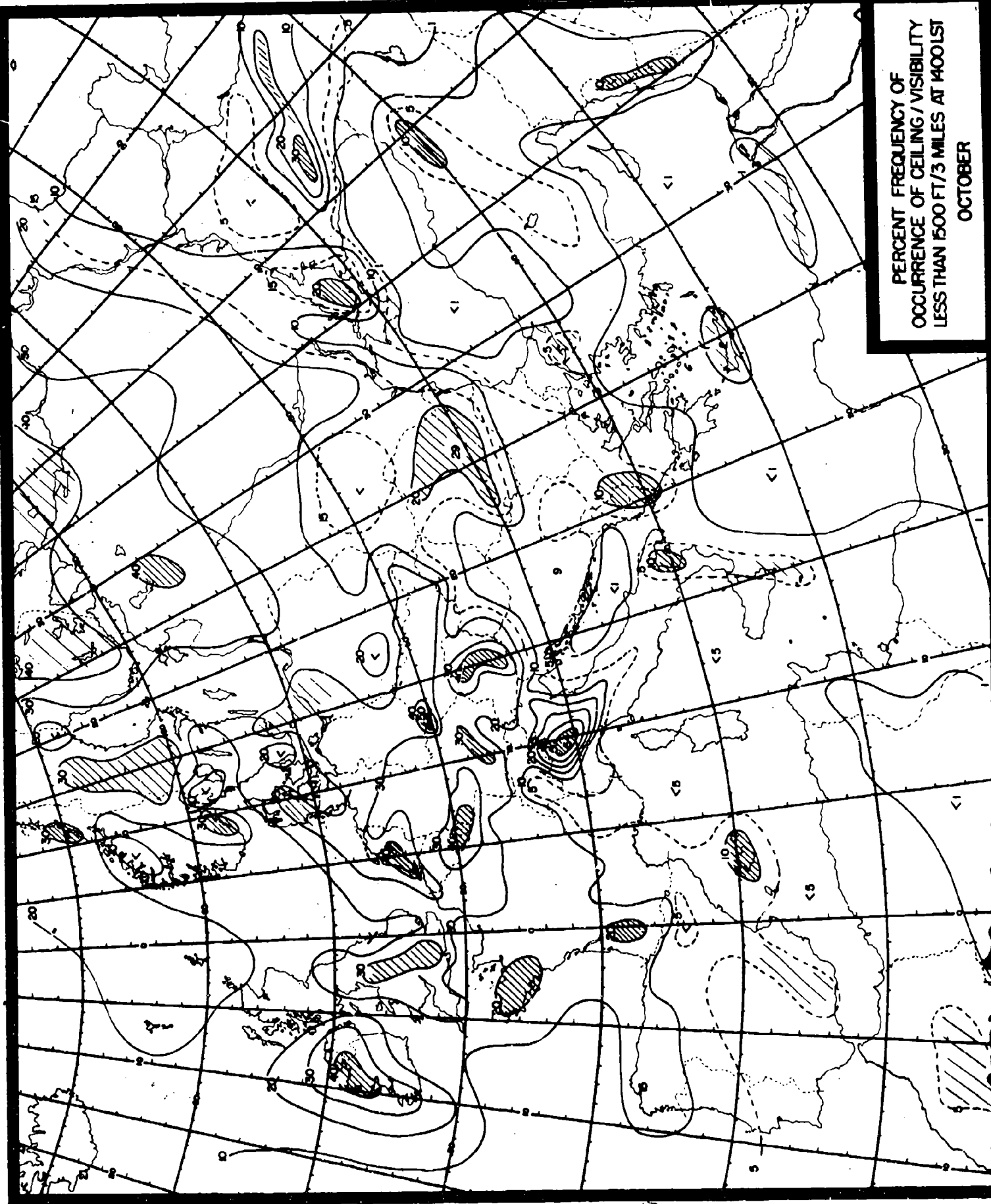
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 300 FT / 1 MILE AT 400 LST
OCTOBER





PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 0800 LST
OCTOBER

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400LST
OCTOBER



APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

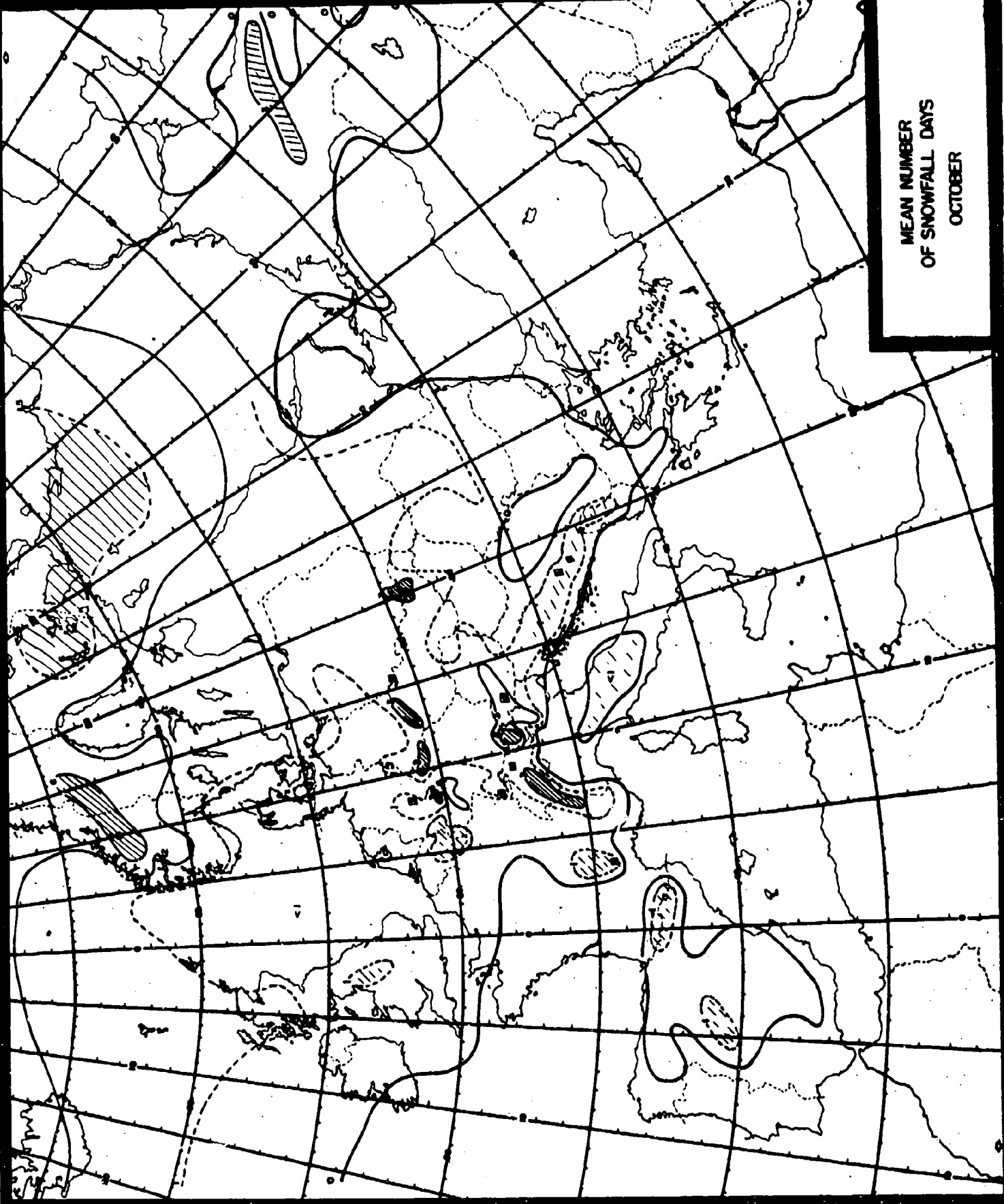
NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

MINIMUM
SEA SURFACE
TEMPERATURE (F)
OCTOBER

TEMPERATURE CONVERSION TABLE

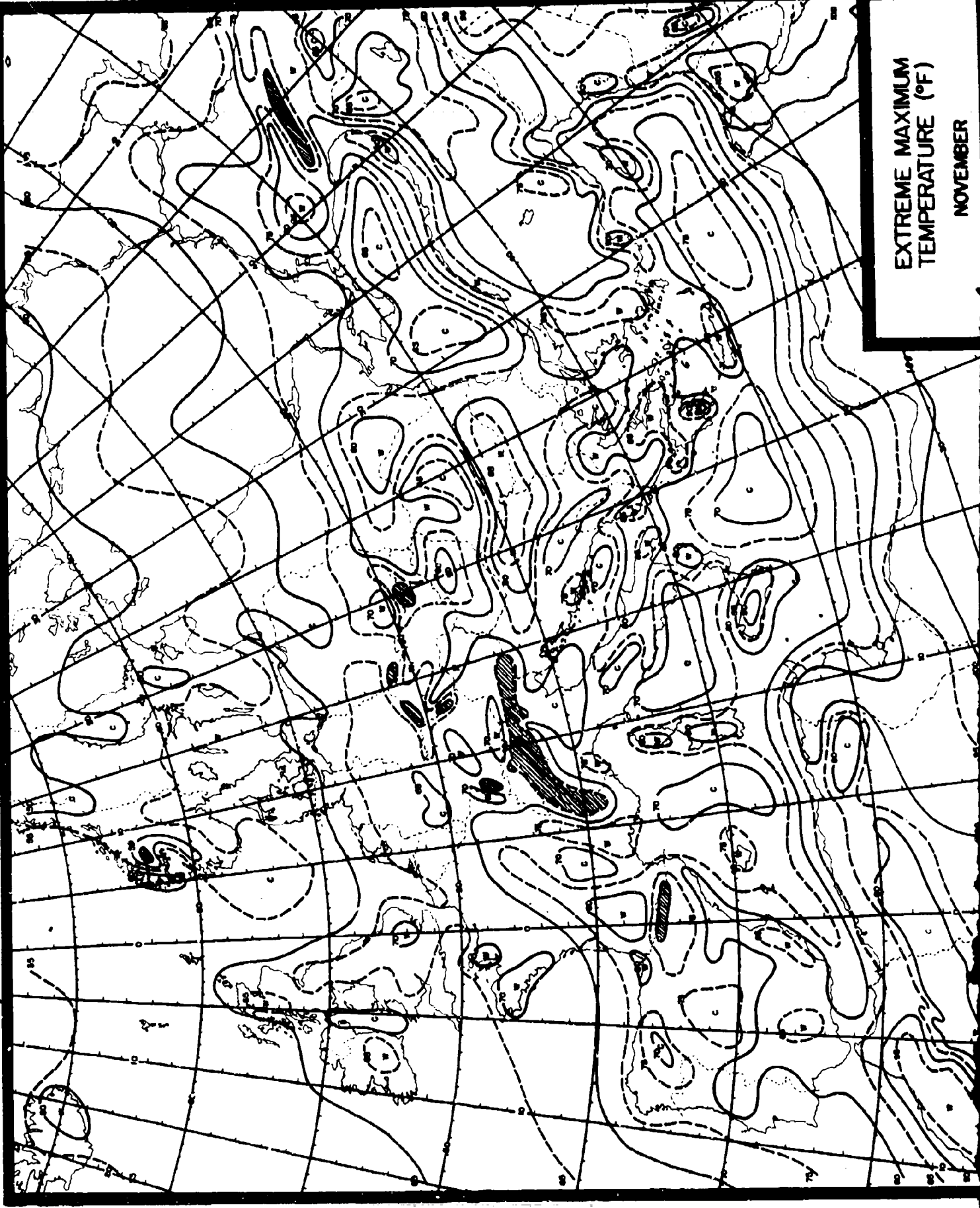
(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)
28	-2.2	42	5.6	56	13.3	70	21.1
29	-1.7	43	6.1	57	13.9	71	21.7
30	-1.1	44	6.7	58	14.4	72	22.2
31	-0.6	45	7.2	59	15.0	73	22.8
32	0.0	46	7.8	60	15.6	74	23.3
33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
35	1.7	49	9.4	63	17.2	77	25.0
36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.6	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
						92	33.3
						93	33.9
						94	34.4
						95	35.0
						96	35.6
						97	36.1

MEAN NUMBER
OF SNOWFALL DAYS
OCTOBER

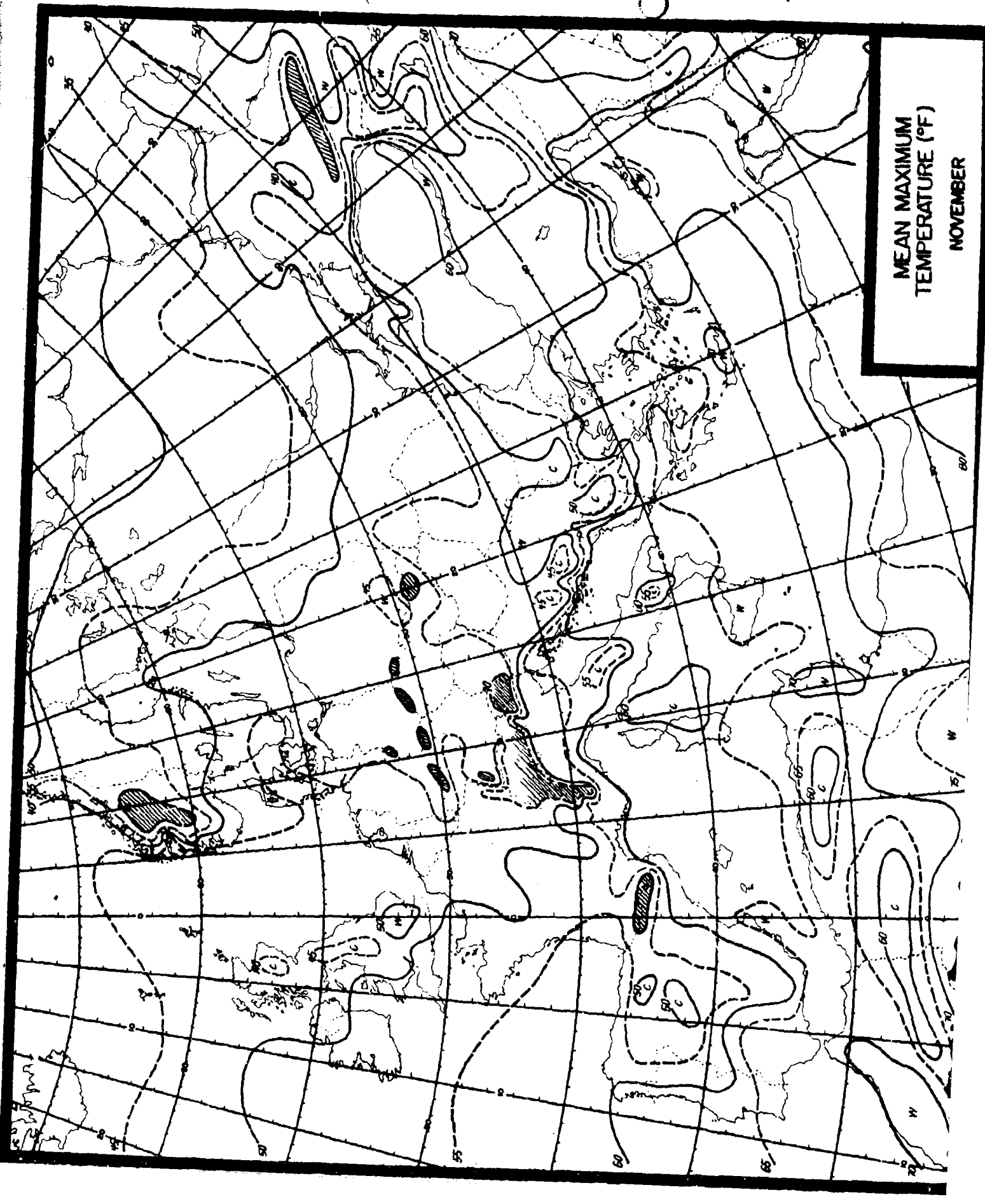


EXTREME MAXIMUM
TEMPERATURE (°F)

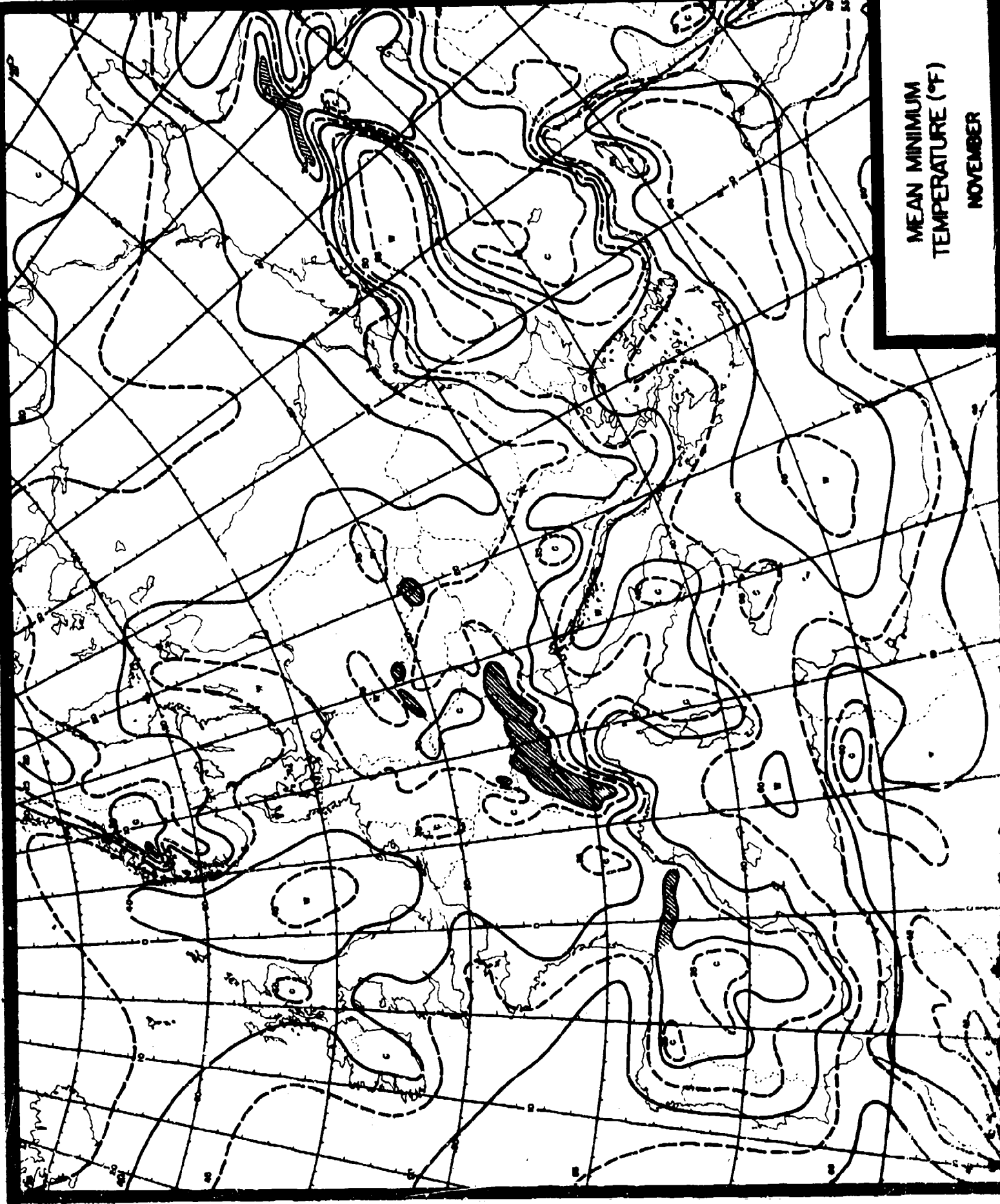
NOVEMBER



MEAN MAXIMUM
TEMPERATURE (°F)
NOVEMBER

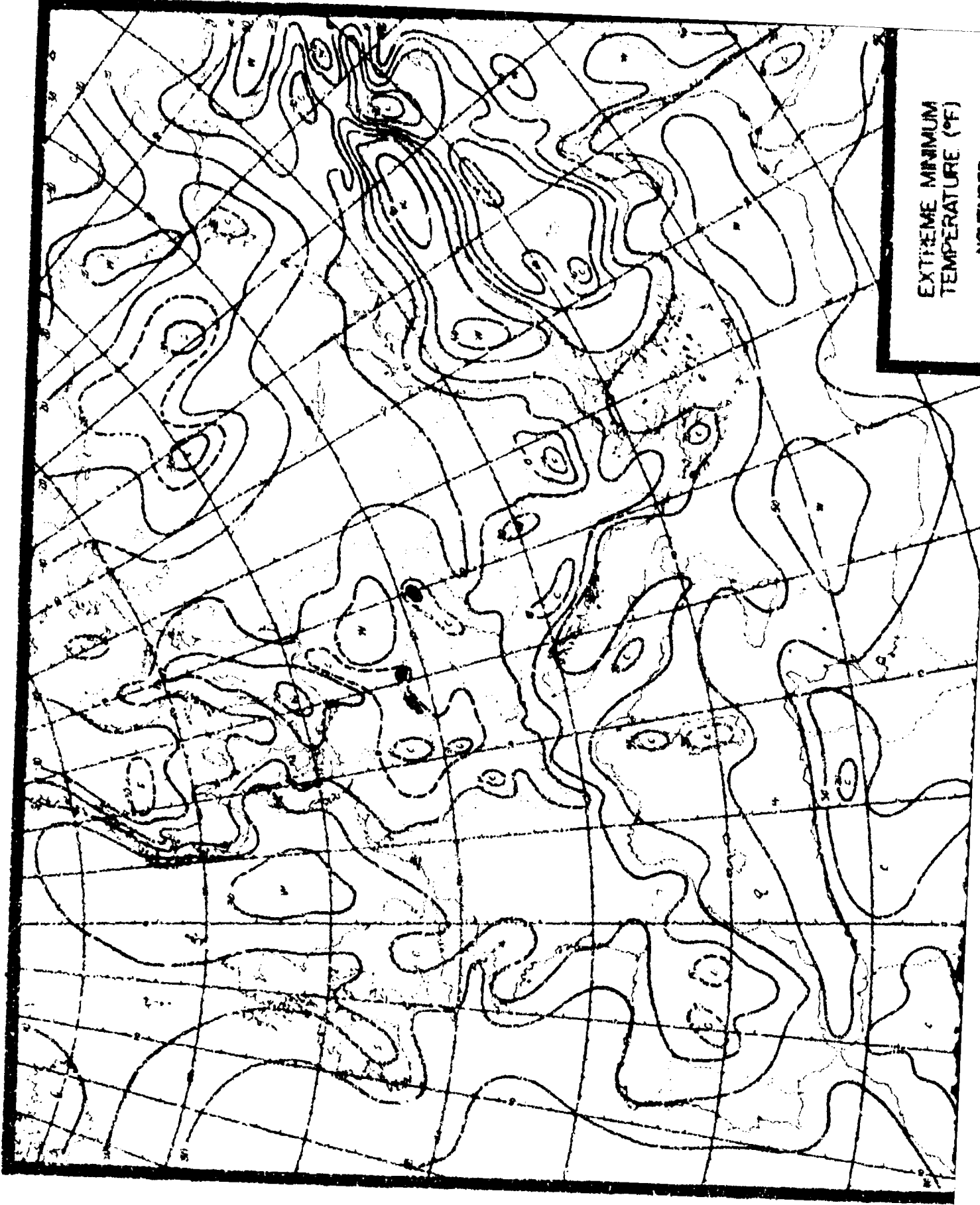


MEAN MINIMUM
TEMPERATURE (°F)
NOVEMBER

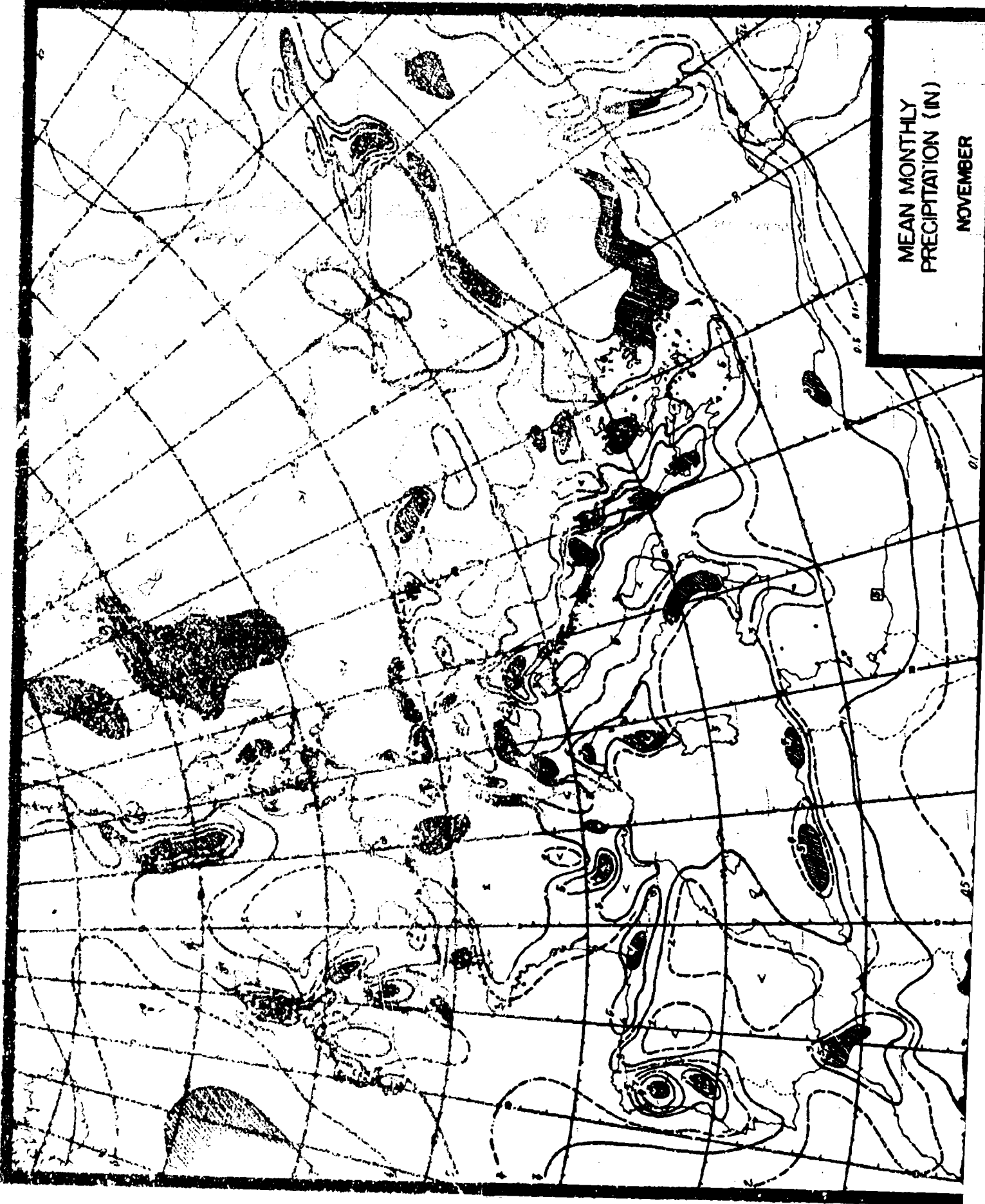


EXTREME MINIMUM
TEMPERATURE (°F)

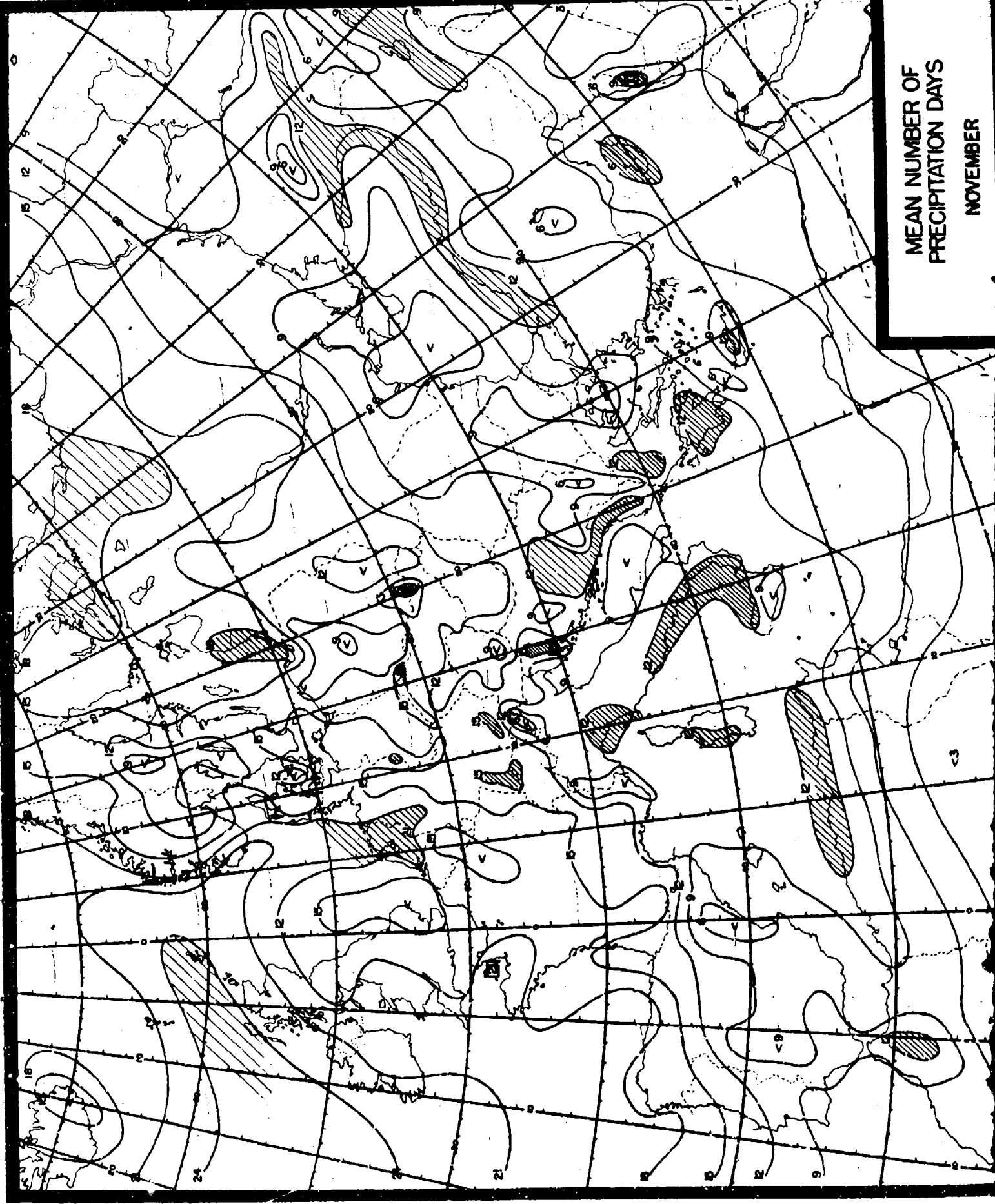
NOVEMBER



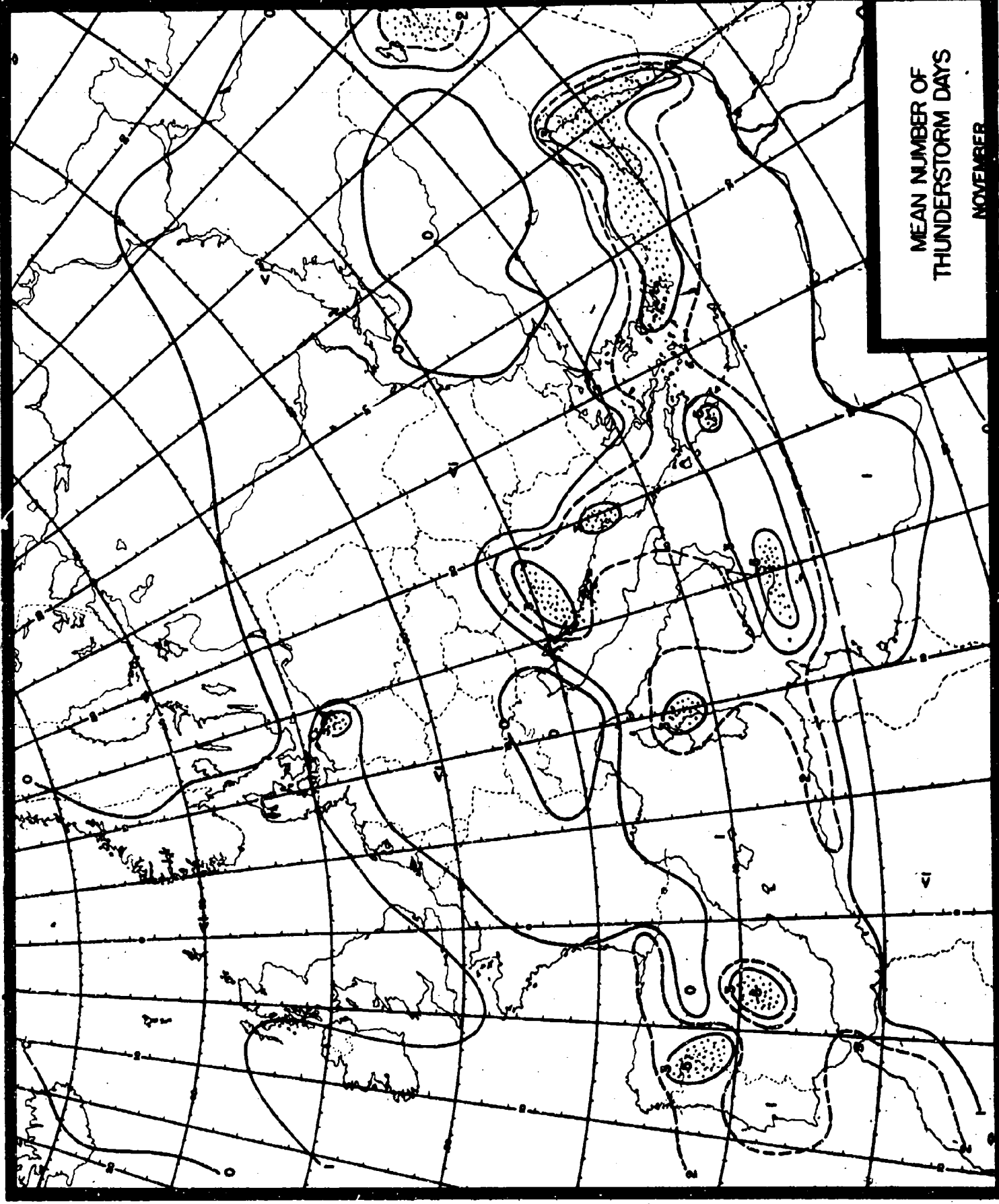
MEAN MONTHLY
PRECIPITATION (IN)
NOVEMBER



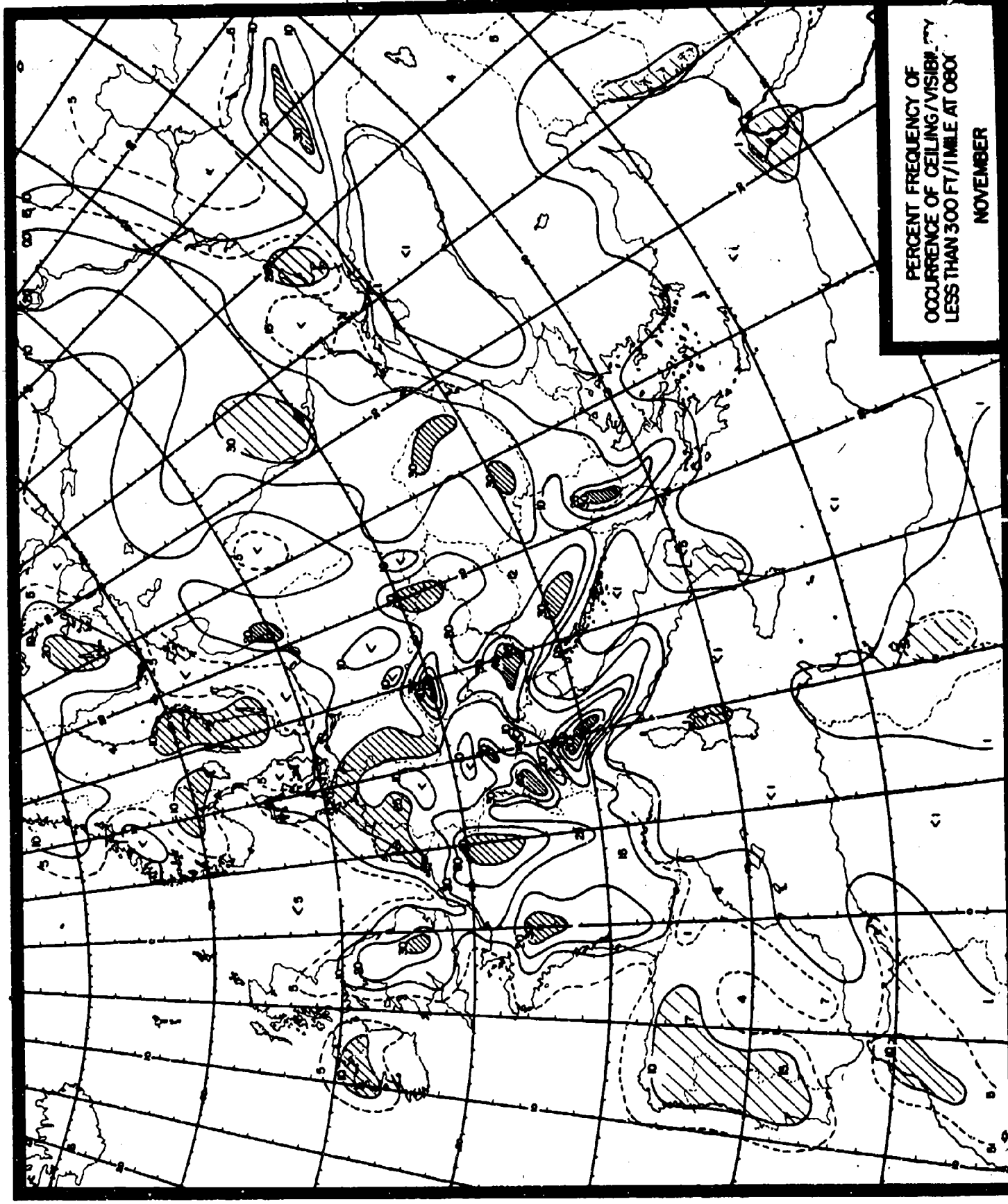
MEAN NUMBER OF
PRECIPITATION DAYS
NOVEMBER



21000 06-5310-1

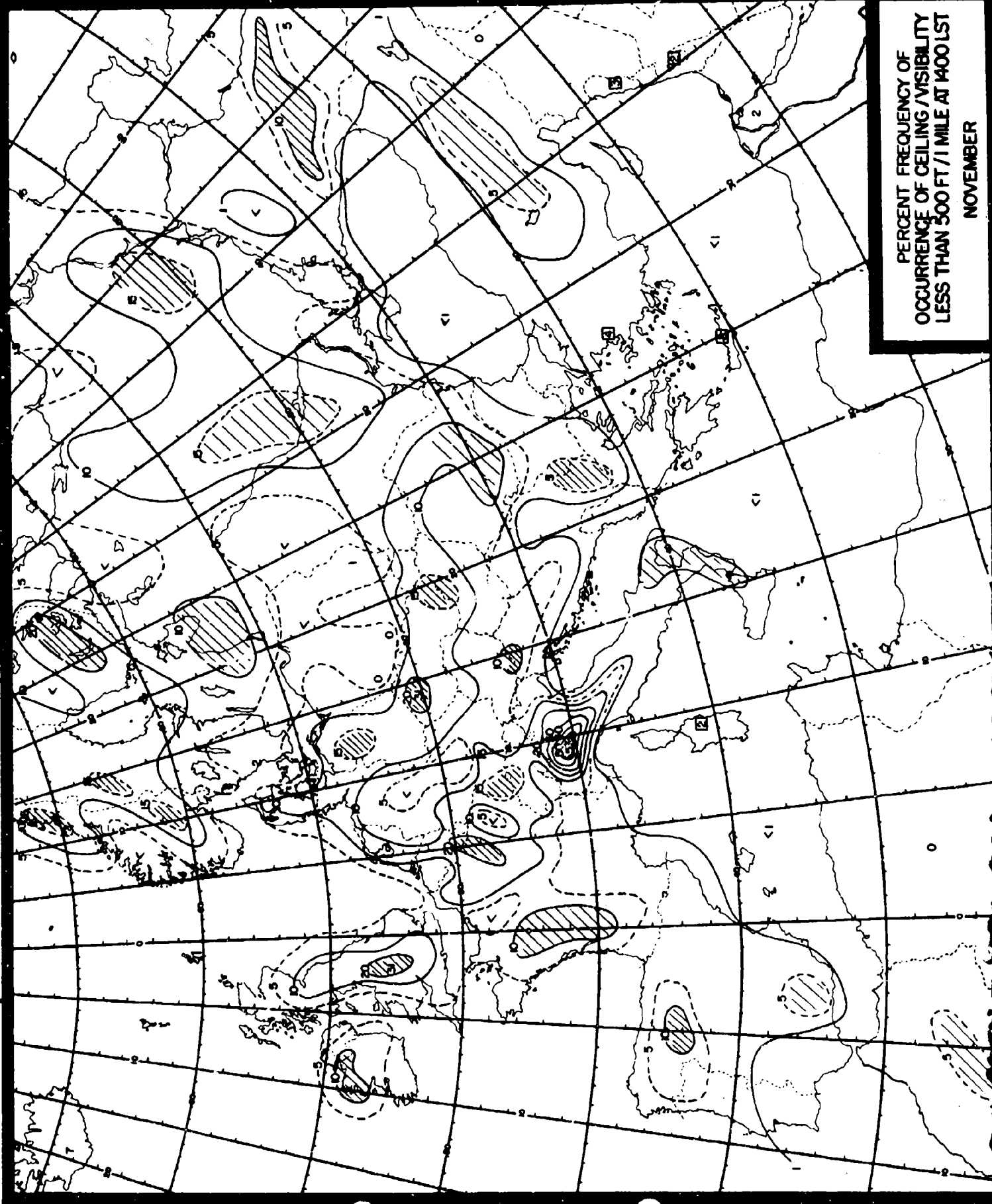


MEAN NUMBER OF
THUNDERSTORM DAYS
NOVEMBER



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0801
NOVEMBER

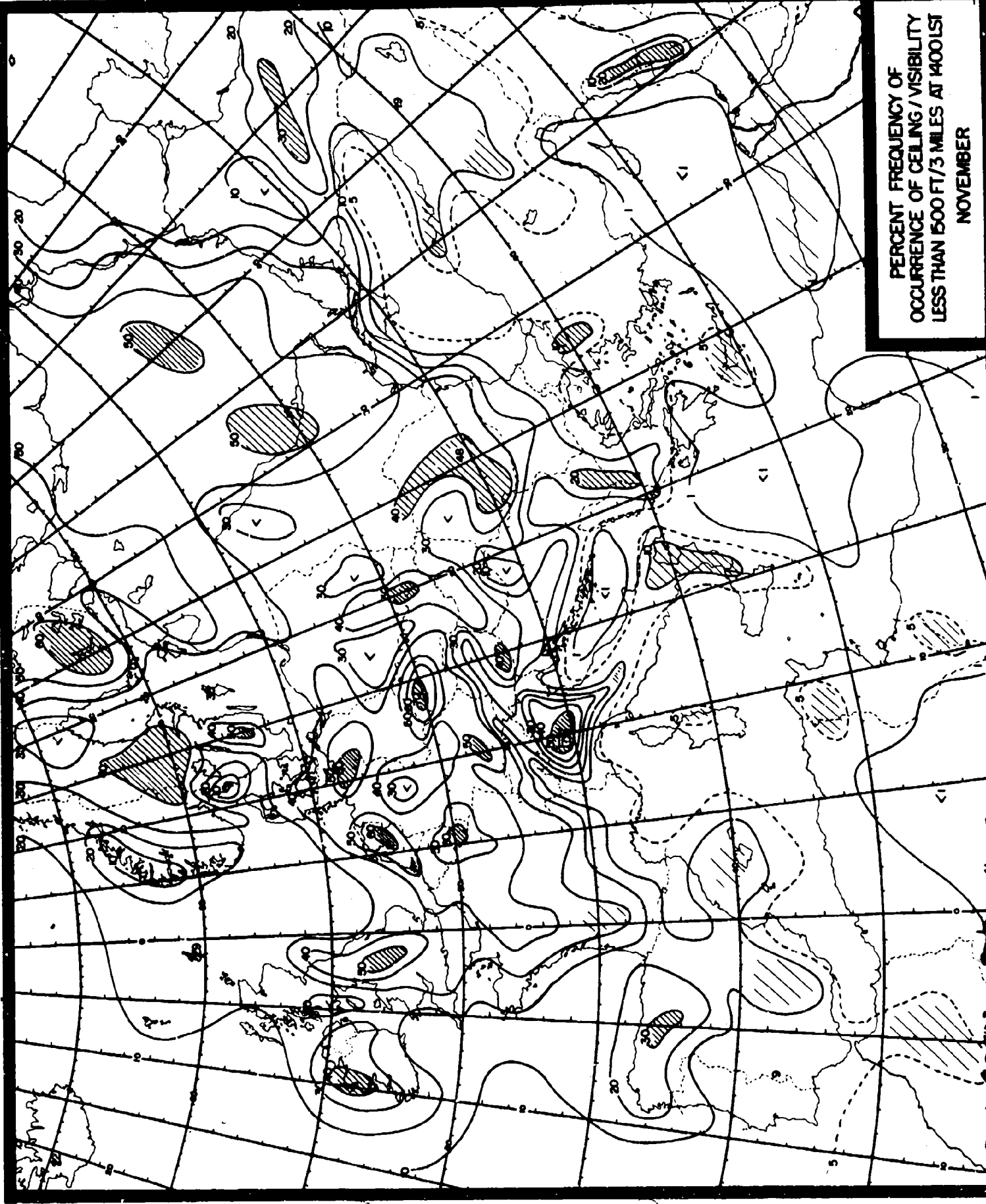
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 1 MILE AT 1400 LT
NOVEMBER

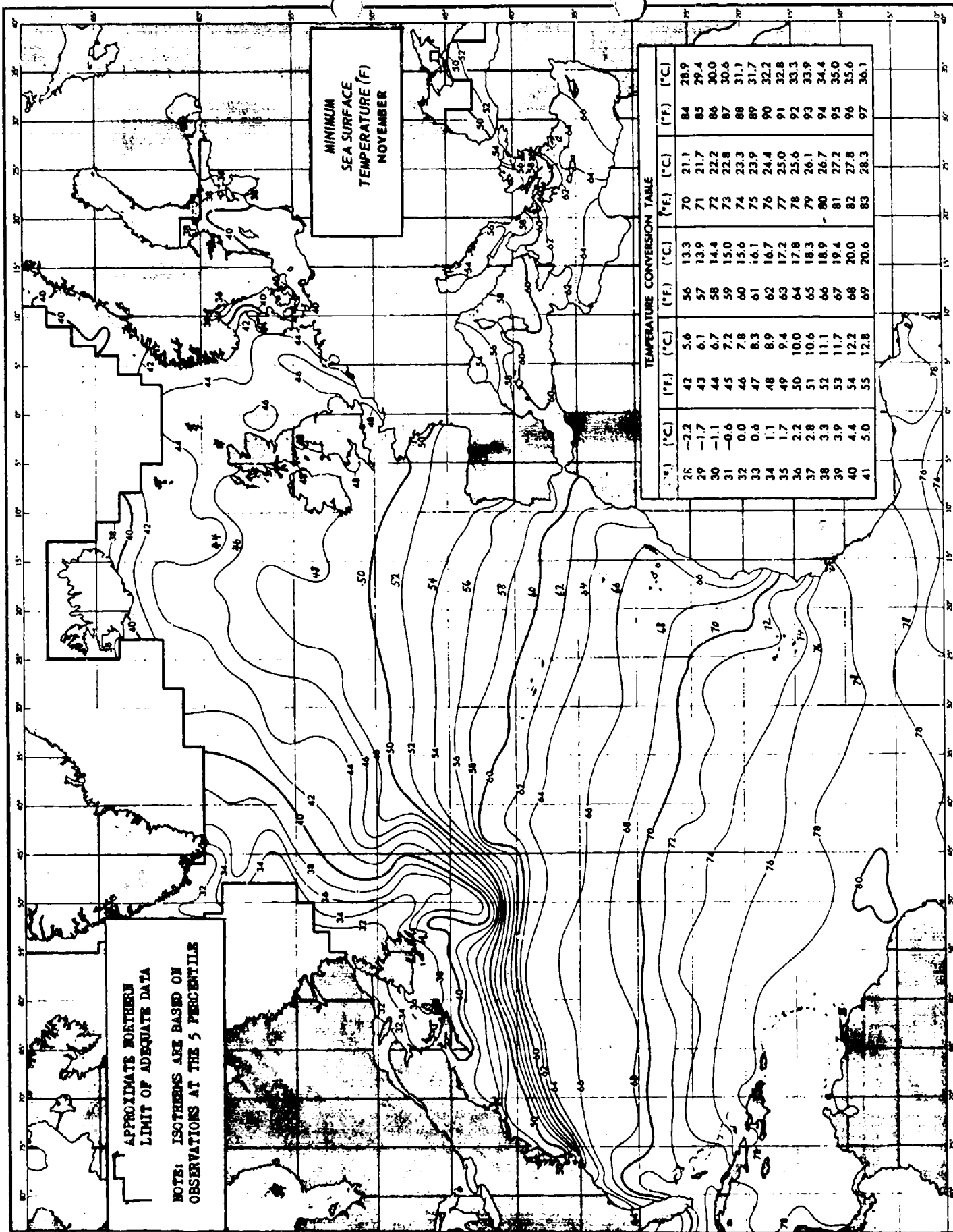


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT / 3 MILES AT 0800 LST
NOVEMBER



PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 1500 FT/3 MILES AT 1400 LST
NOVEMBER





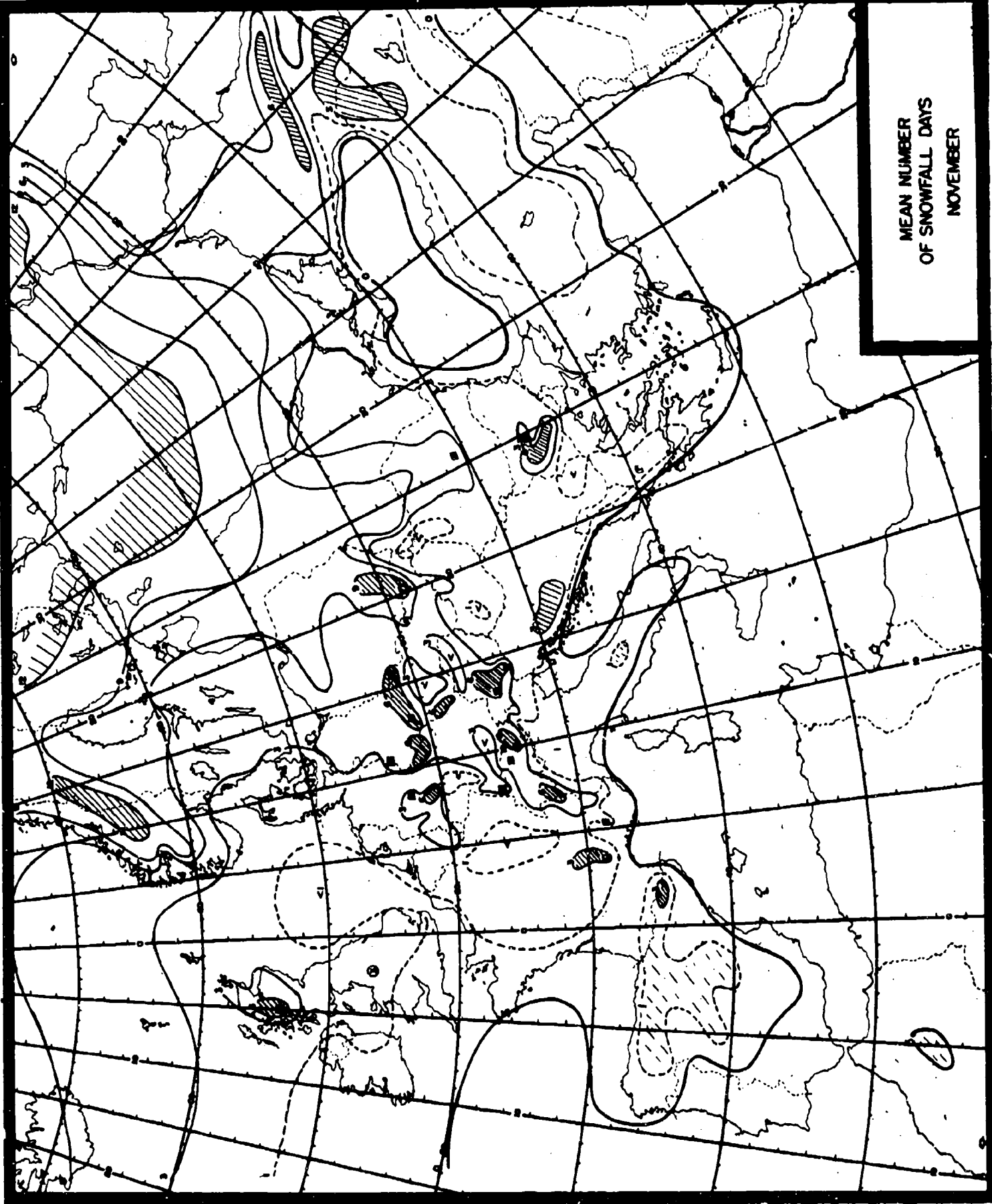
APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

NOTE: ISOOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILES

MINIMUM
SEA SURFACE
TEMPERATURE (F)
NOVEMBER

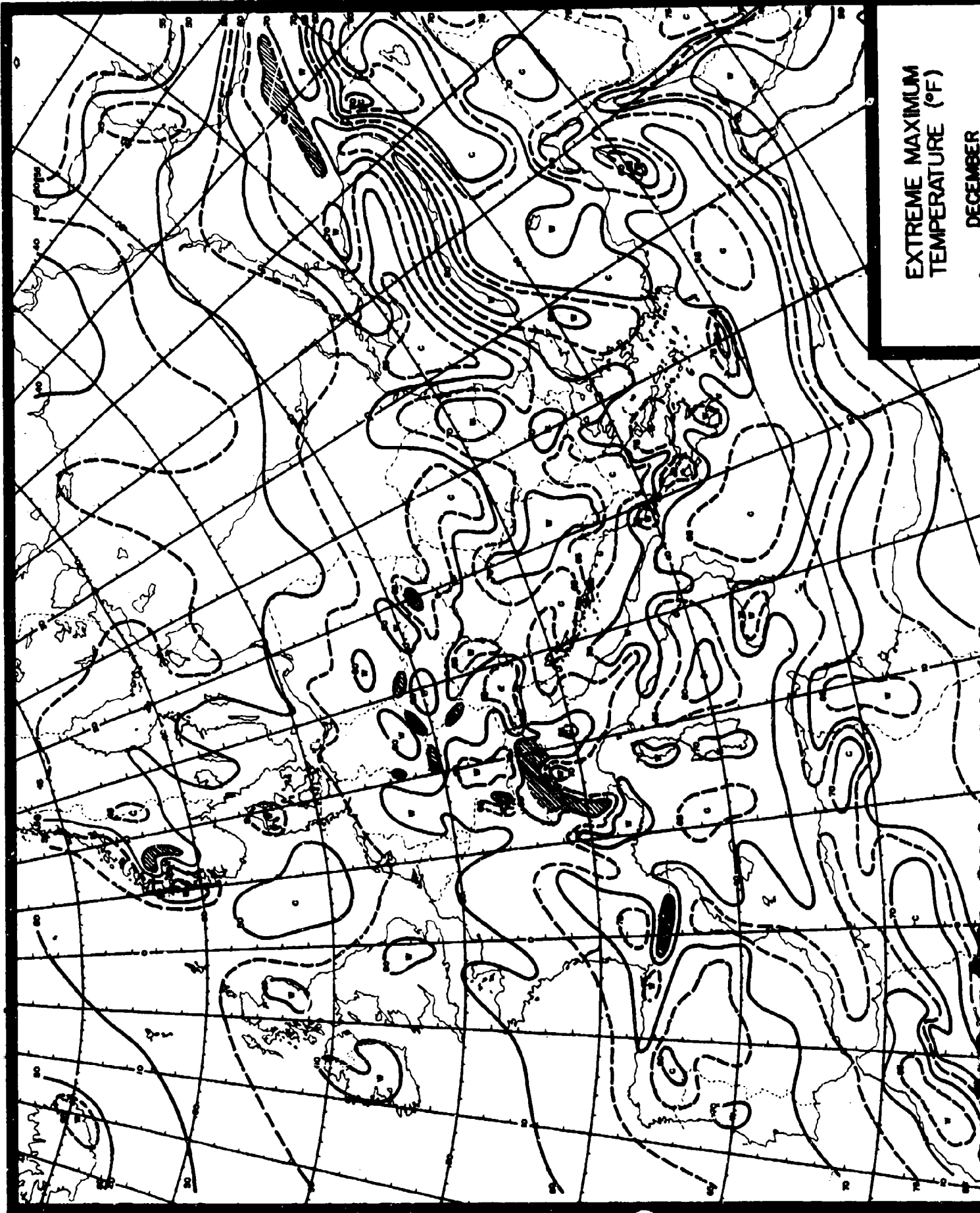
TEMPERATURE CONVERSION TABLE

(°C)	(°F)	(°C)	(°F)	(°C)	(°F)	(°C)	(°F)
28	-2.2	42	5.6	56	13.3	70	21.1
29	-1.7	43	6.1	57	13.9	71	21.7
30	-1.1	44	6.7	58	14.4	72	22.2
31	-0.6	45	7.2	59	15.0	73	22.8
32	0.0	46	7.8	60	15.6	74	23.3
33	0.6	47	8.3	61	16.1	75	23.9
34	1.1	48	8.9	62	16.7	76	24.4
35	1.7	49	9.4	63	17.2	77	25.0
36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
39	3.9	53	11.7	67	19.4	81	27.2
40	4.4	54	12.2	68	20.0	82	27.8
41	5.0	55	12.8	69	20.6	83	28.3
						84	28.9
						85	29.4
						86	30.0
						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
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						97	36.1

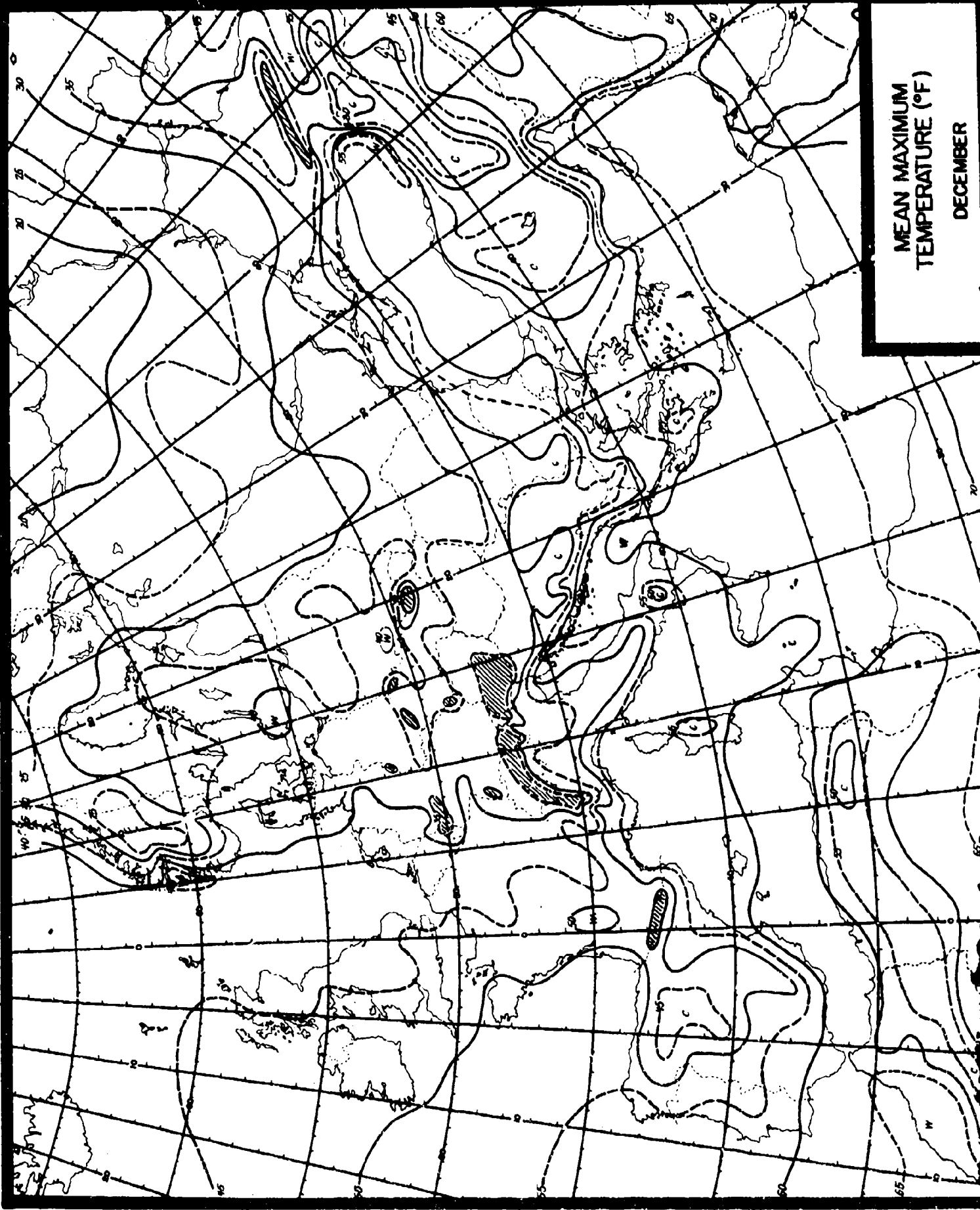


MEAN NUMBER
OF SNOWFALL DAYS
NOVEMBER

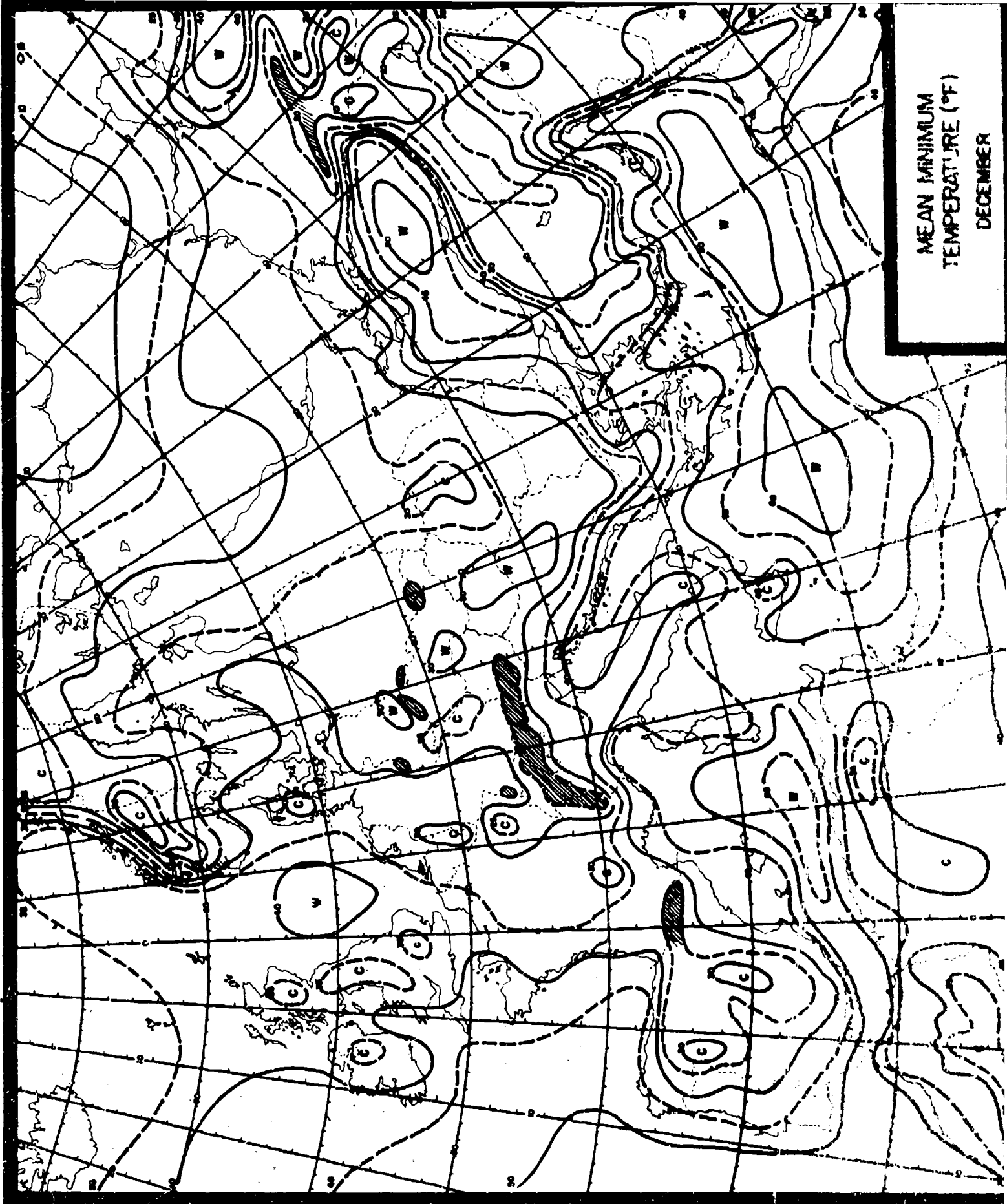
EXTREME MAXIMUM
TEMPERATURE (°F)
DECEMBER



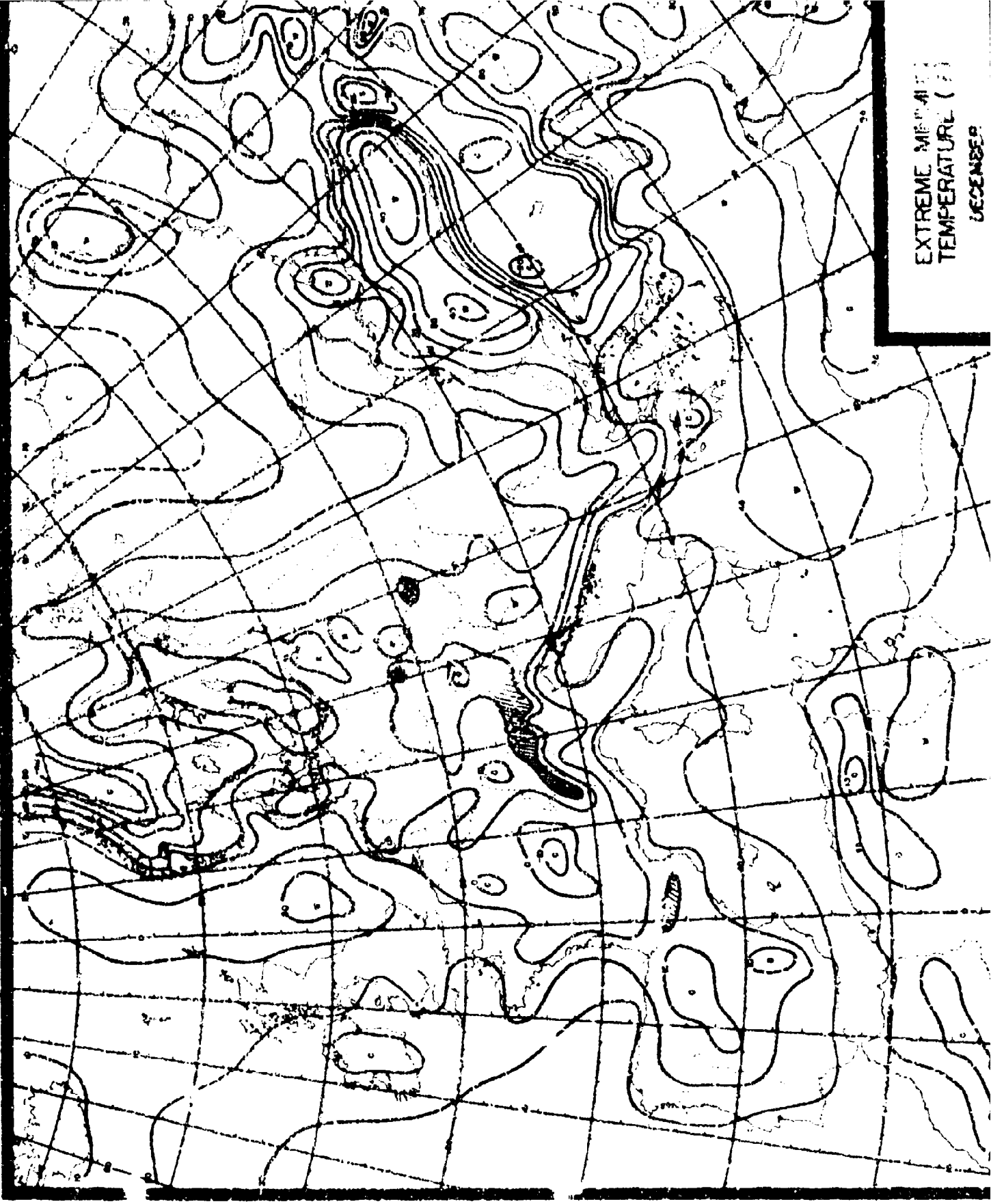
MEAN MAXIMUM
TEMPERATURE (°F)
DECEMBER



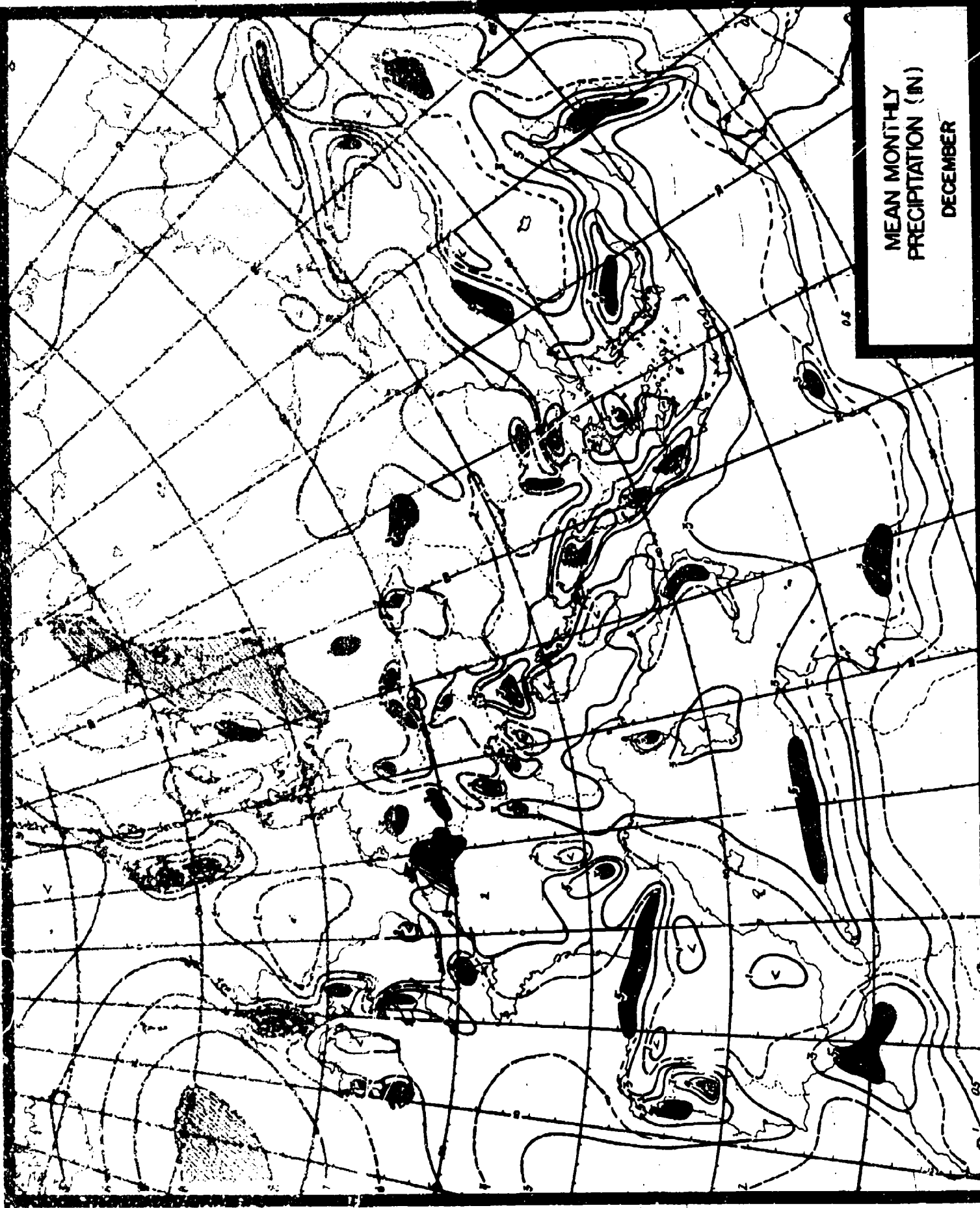
MEAN MINIMUM
TEMPERATURE (°F)
DECEMBER



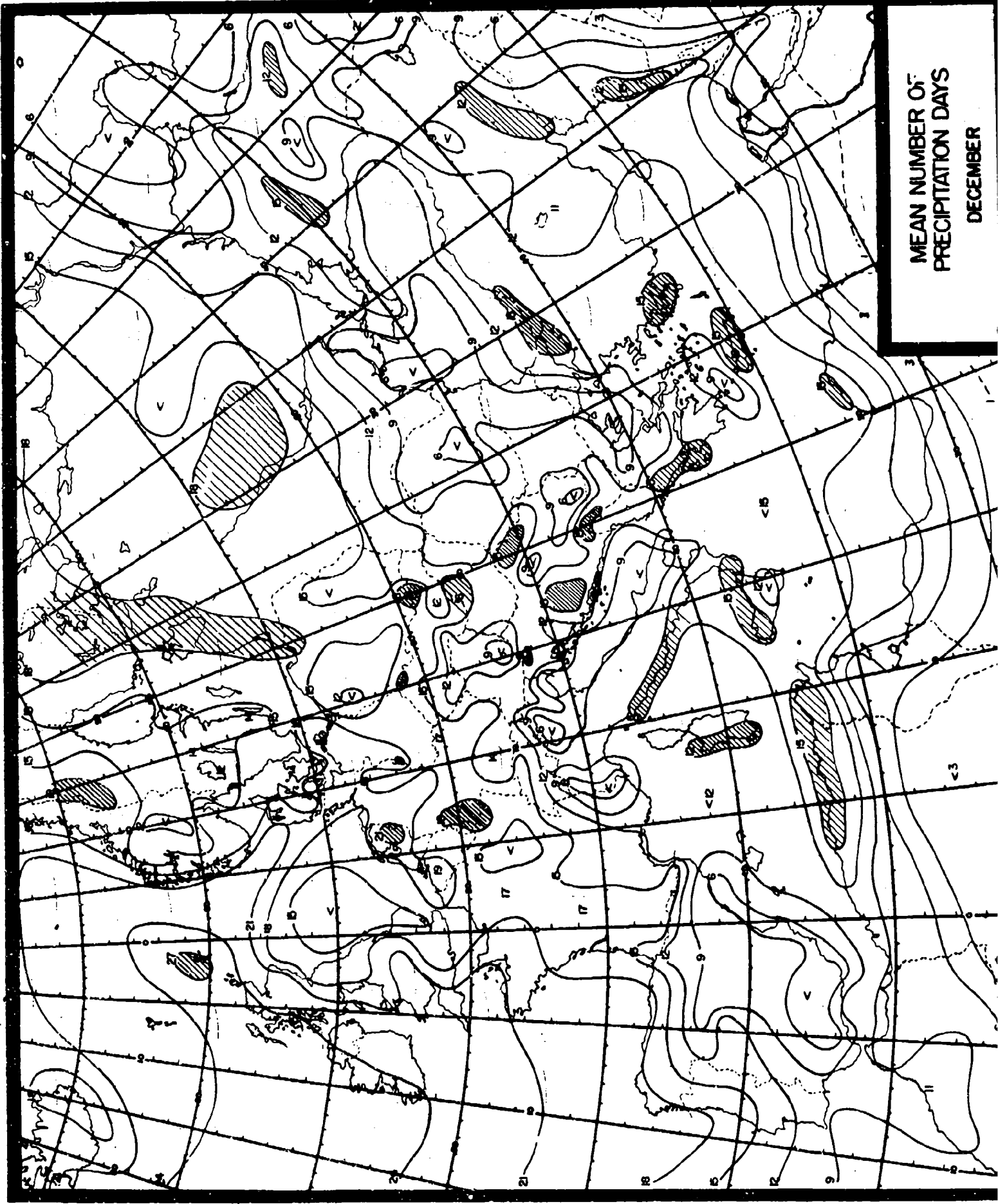
EXTREME MINIMUM
TEMPERATURE (°F)
DECEMBER

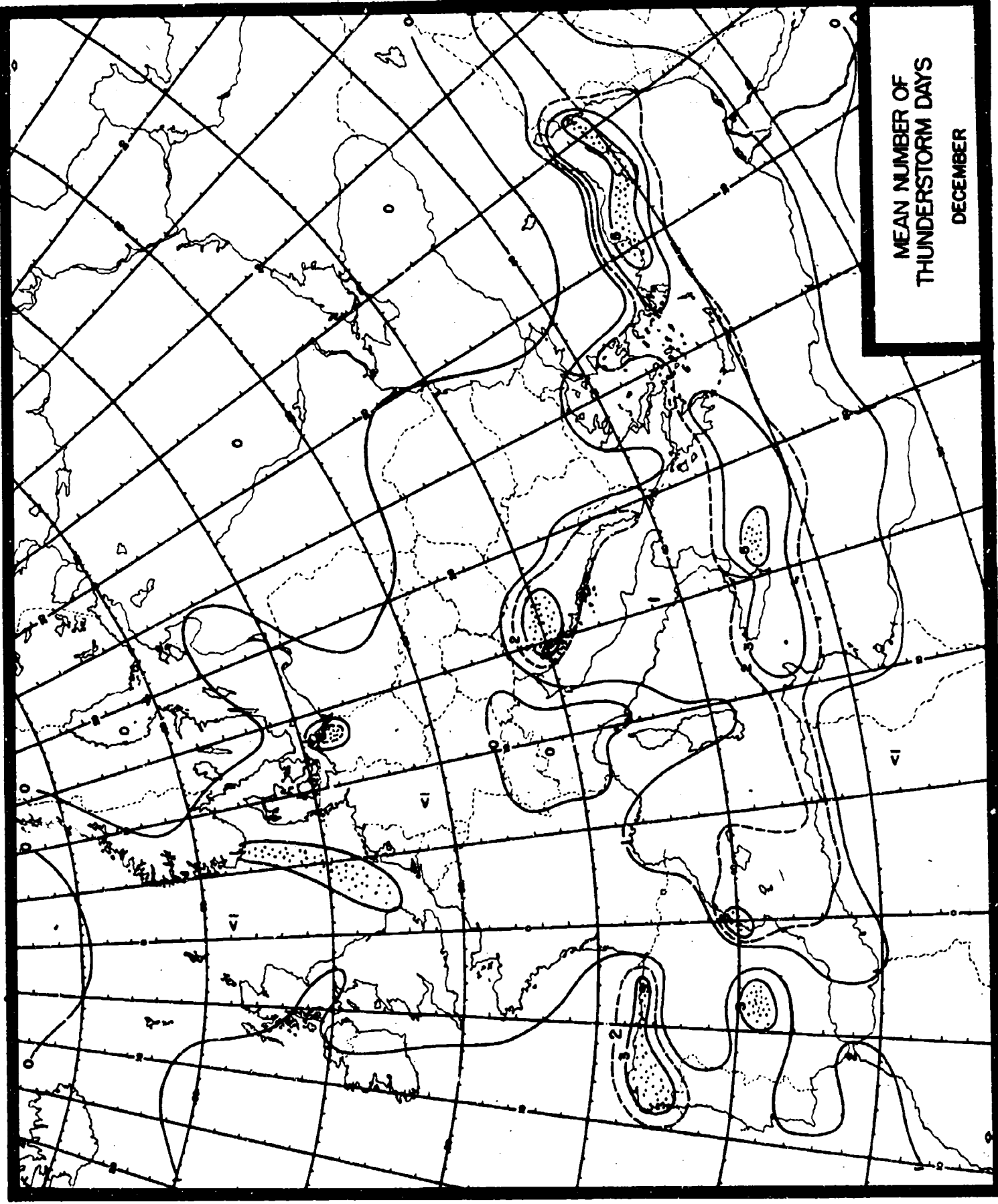


MEAN MONTHLY
PRECIPITATION (IN)
DECEMBER

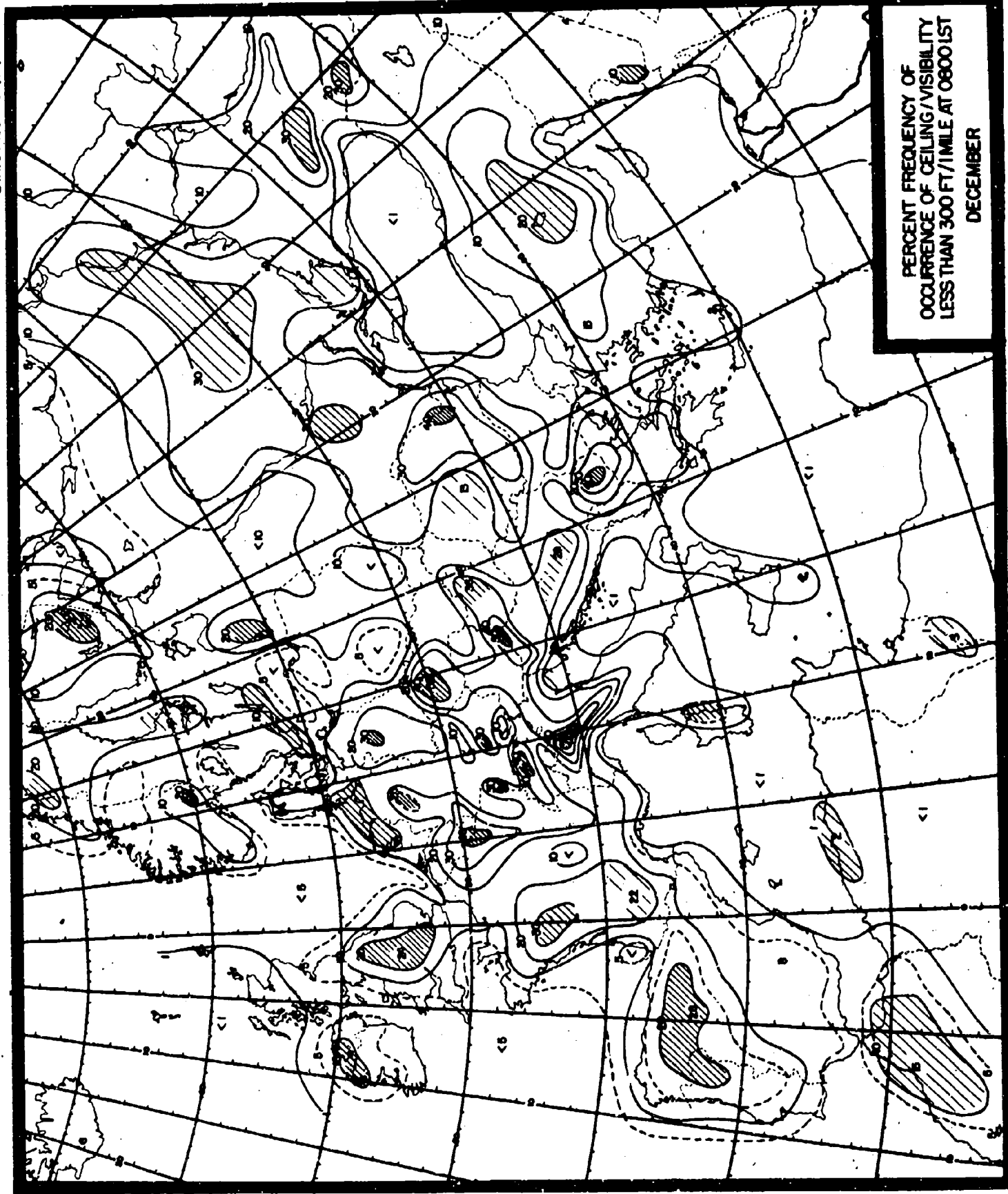


MEAN NUMBER OF
PRECIPITATION DAYS
DECEMBER



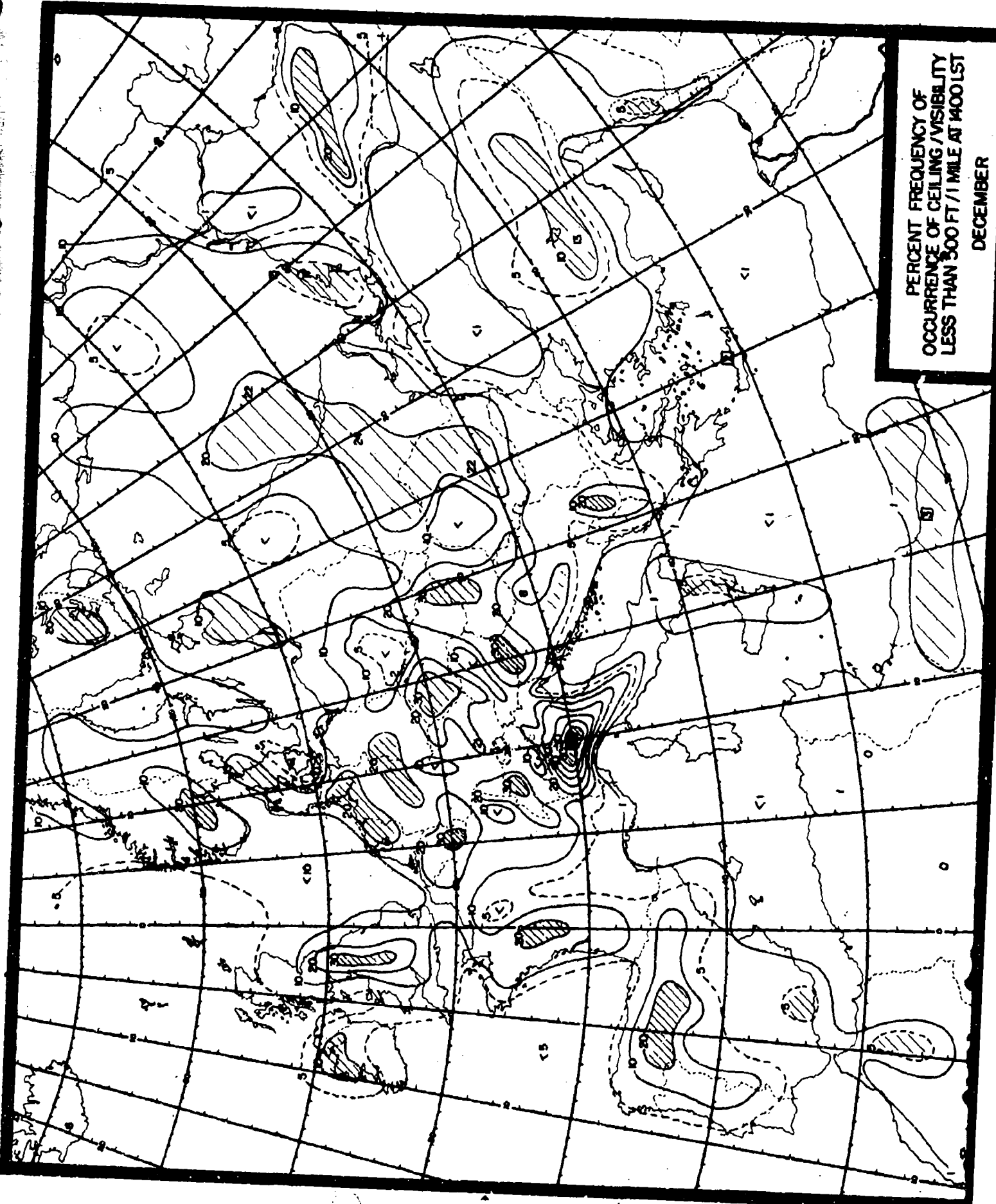


MEAN NUMBER OF
THUNDERSTORM DAYS
DECEMBER

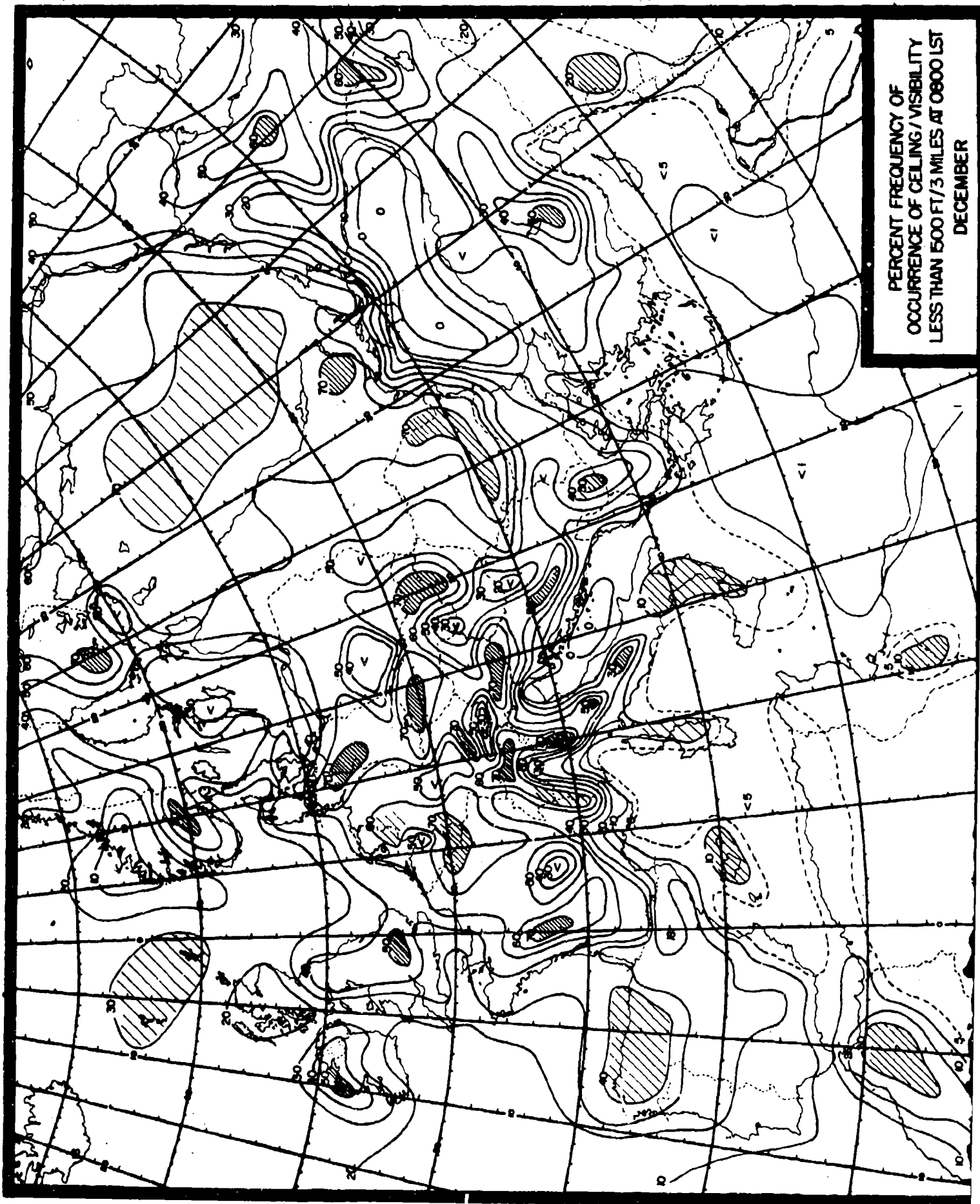


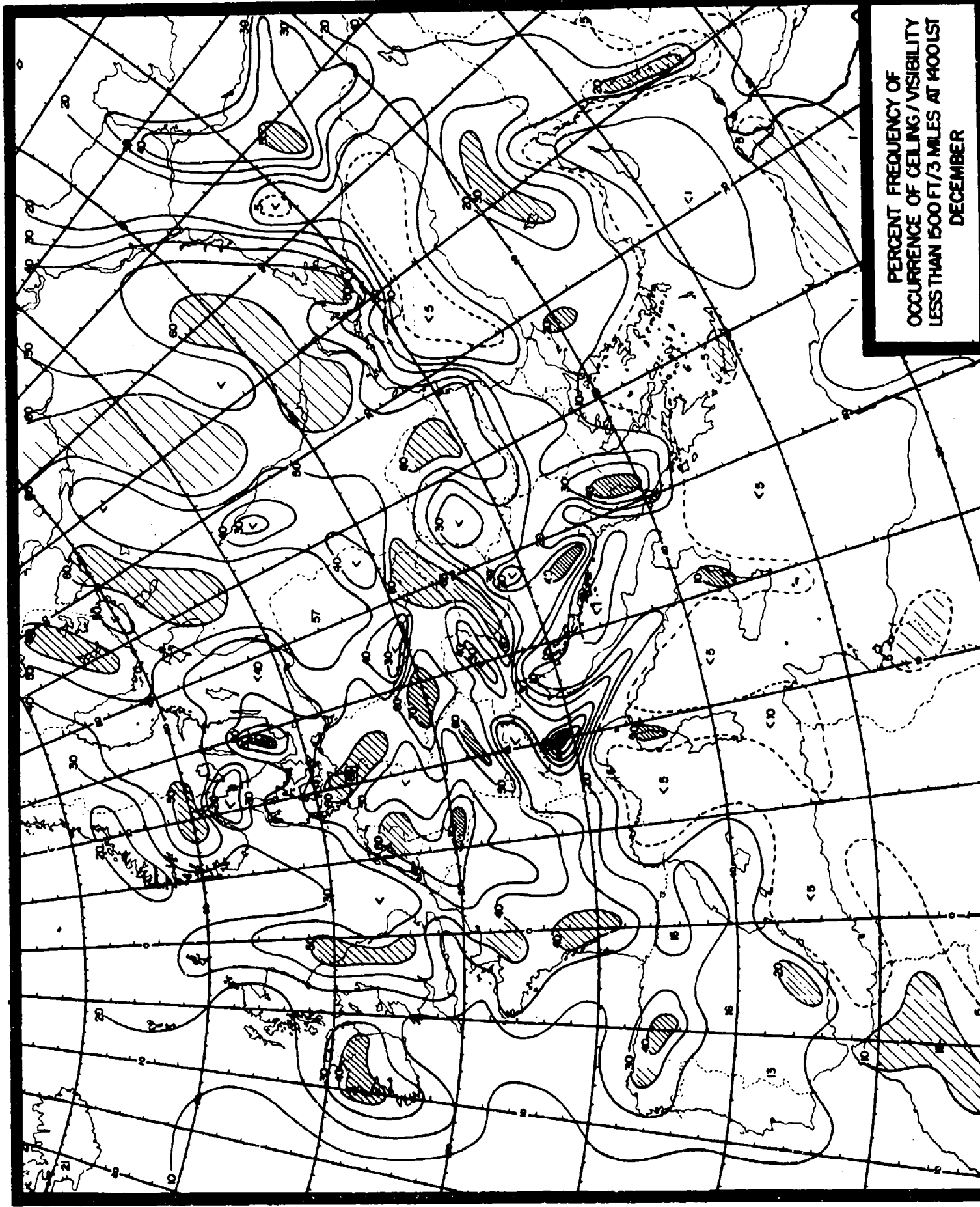
PERCENT FREQUENCY OF
OCCURRENCE OF CEILING/VISIBILITY
LESS THAN 300 FT/1 MILE AT 0800 LST
DECEMBER

PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 300 FT / 1 MILE AT 1400 LST
DECEMBER

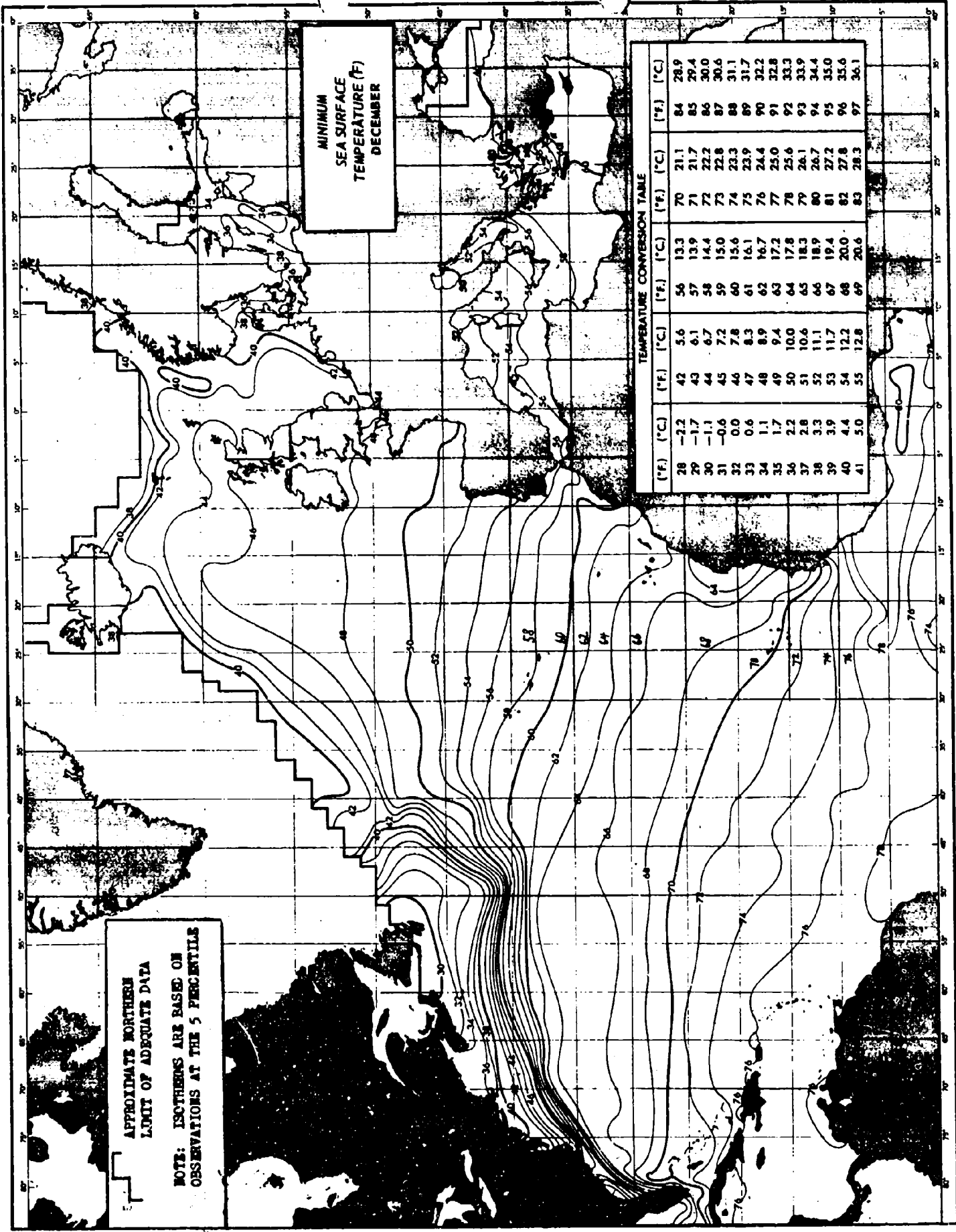


PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT / 3 MILES AT 0800 LST
DECEMBER





PERCENT FREQUENCY OF
OCCURRENCE OF CEILING / VISIBILITY
LESS THAN 500 FT/3 MILES AT 1400LST
DECEMBER



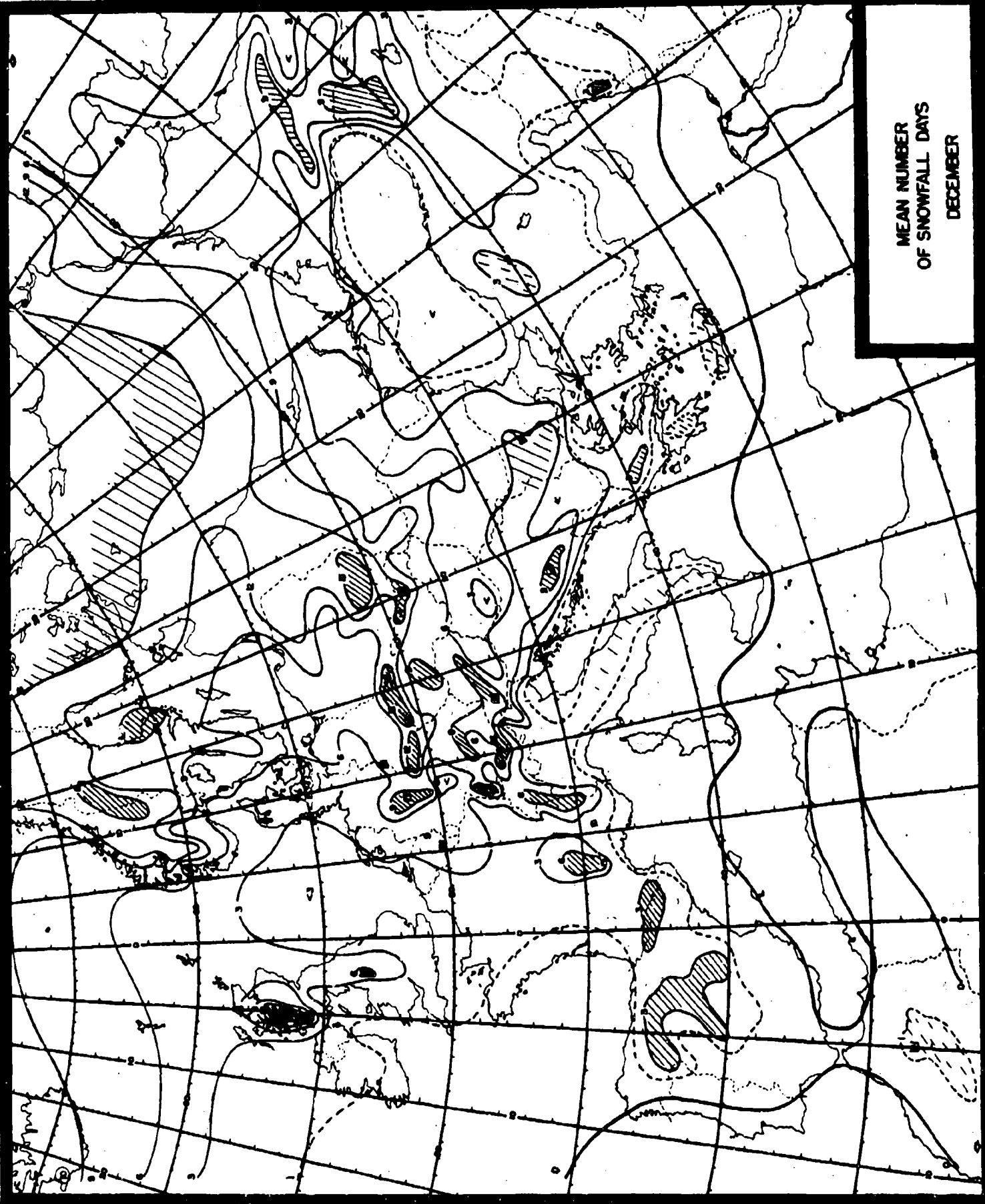
APPROXIMATE NORTHERN
LIMIT OF ADEQUATE DATA

NOTE: ISOTHERMS ARE BASED ON
OBSERVATIONS AT THE 5 PERCENTILE

MINIMUM
SEA SURFACE
TEMPERATURE (F)
DECEMBER

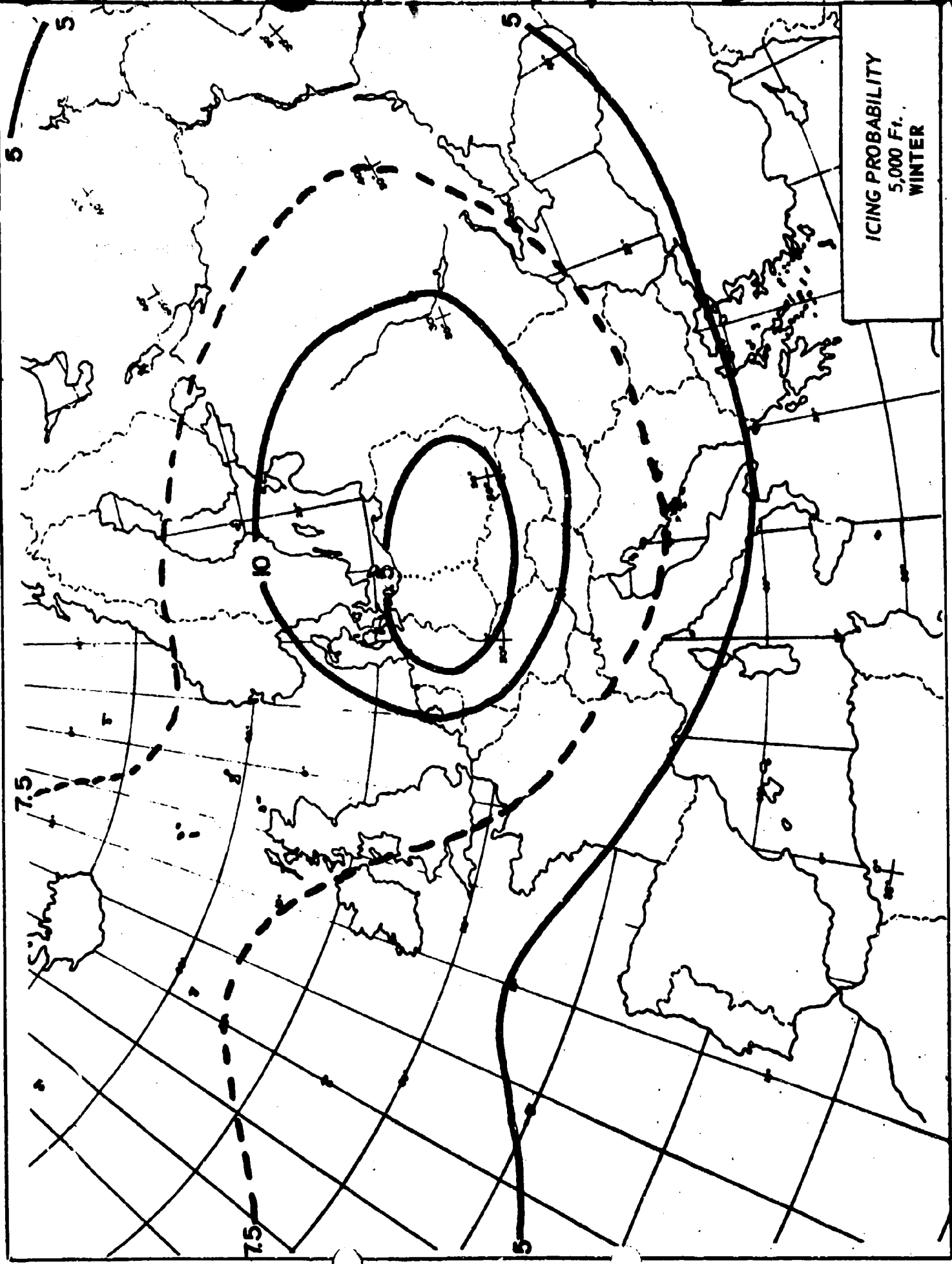
TEMPERATURE CONVERSION TABLE

(F) (°C)	(F) (°C)	(F) (°C)	(F) (°C)	(F) (°C)	(F) (°C)	(F) (°C)	(F) (°C)
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29	-1.7	43	6.1	57	13.9	71	21.7
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36	2.2	50	10.0	64	17.8	78	25.6
37	2.8	51	10.6	65	18.3	79	26.1
38	3.3	52	11.1	66	18.9	80	26.7
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						85	29.4
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						87	30.6
						88	31.1
						89	31.7
						90	32.2
						91	32.8
						92	33.3
						93	33.9
						94	34.4
						95	35.0
						96	35.6
						97	36.1

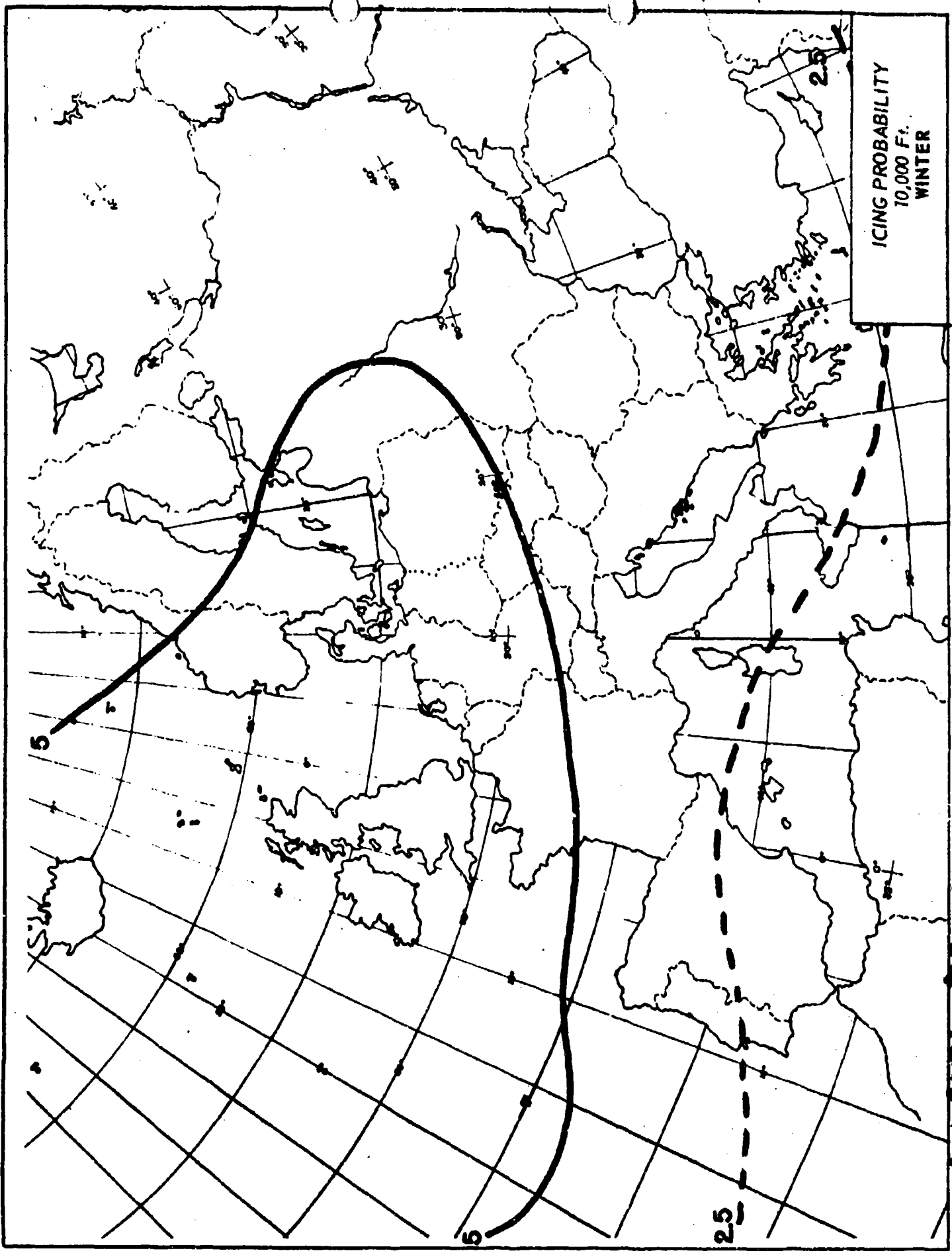


MEAN NUMBER
OF SNOWFALL DAYS
DECEMBER

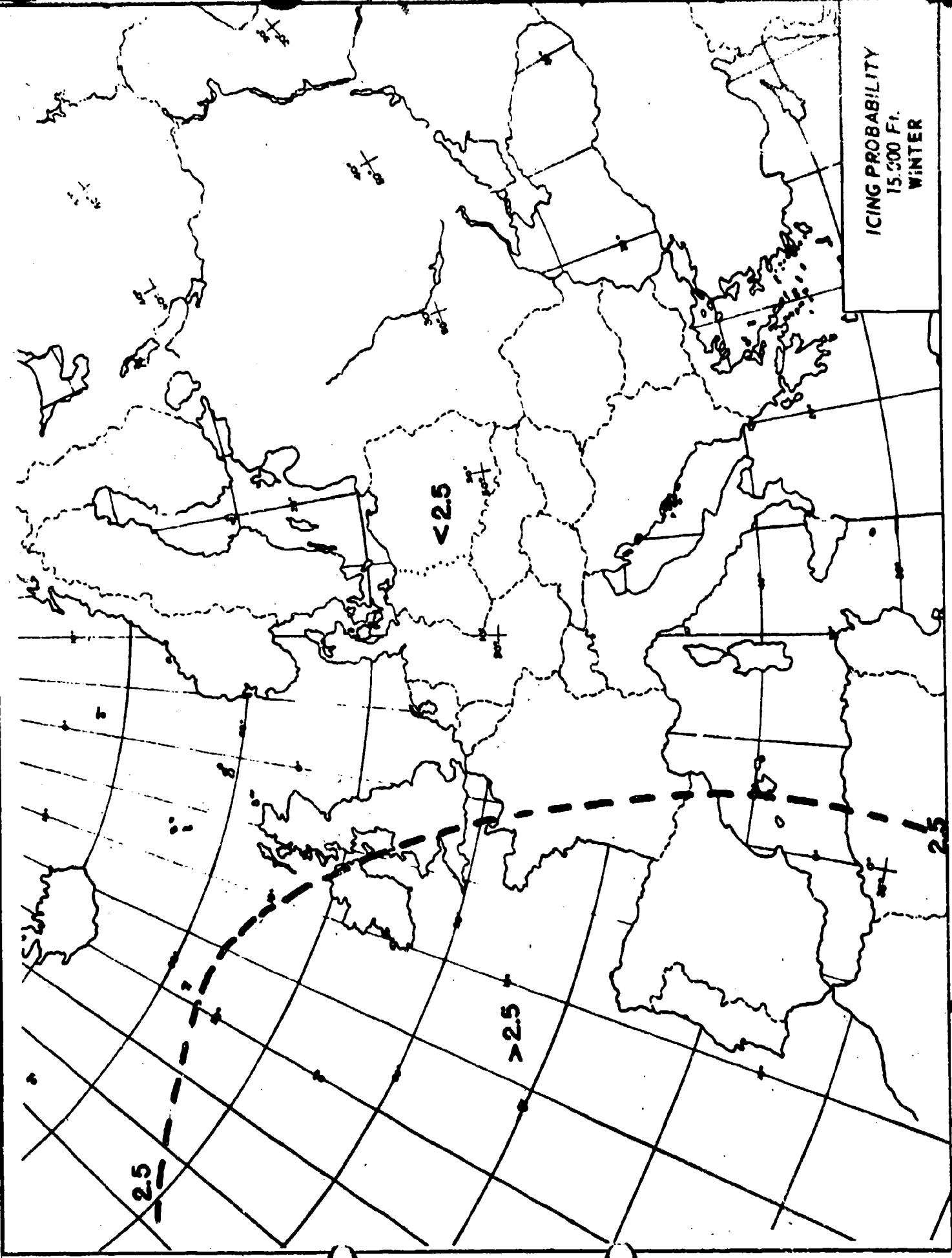
ICING PROBABILITY
5,000 Ft.
WINTER



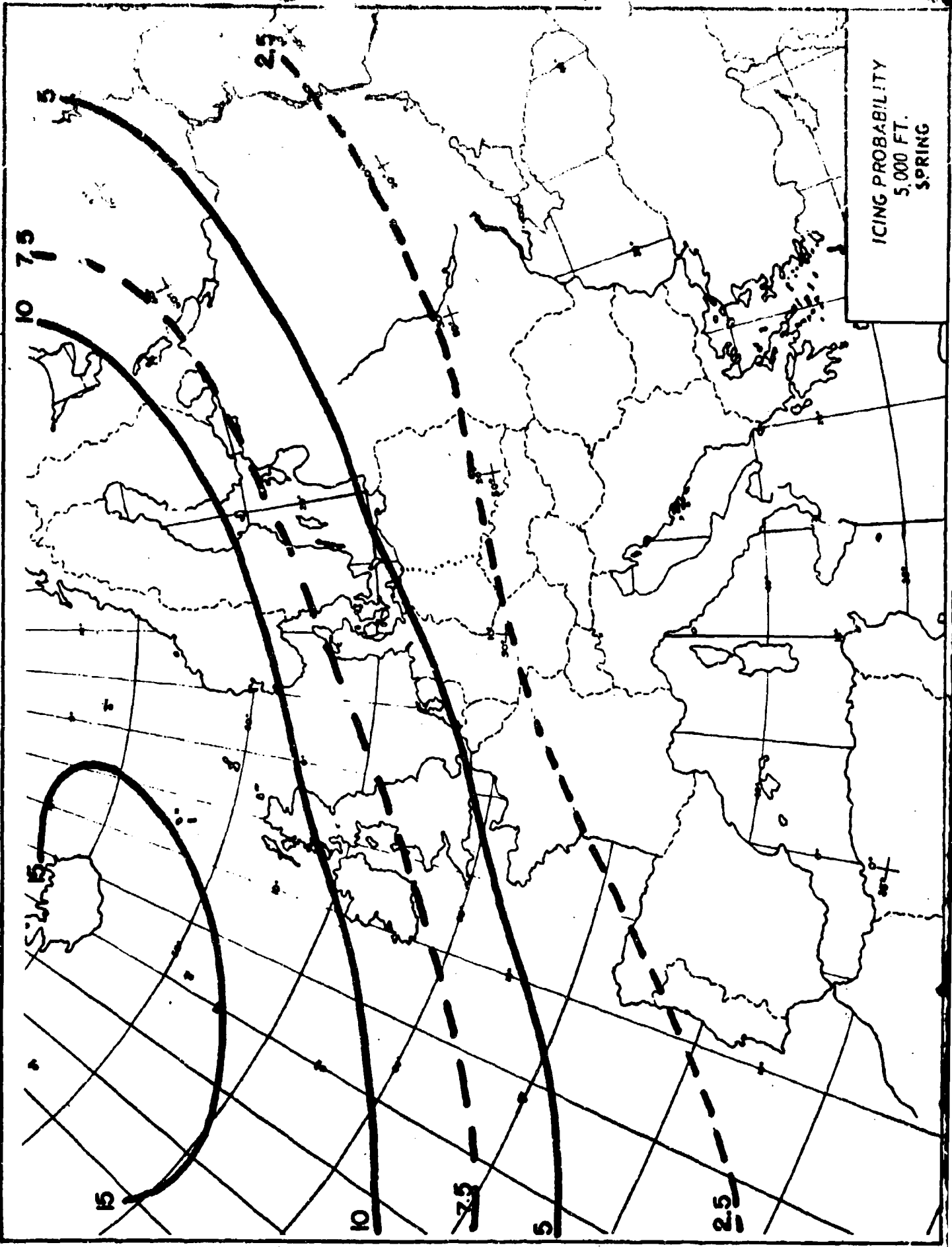
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10,000 Ft.
WINTER



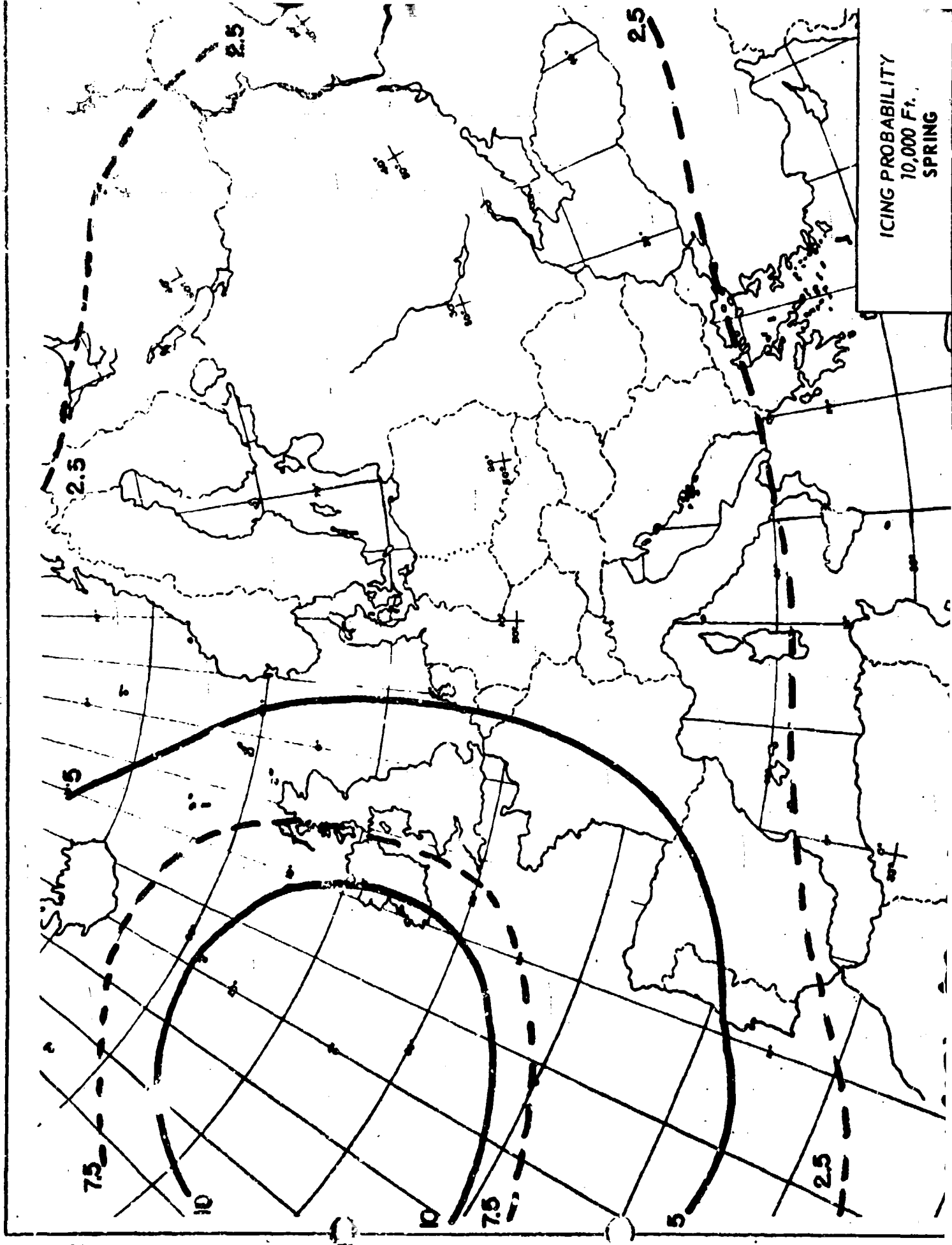
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WINTER



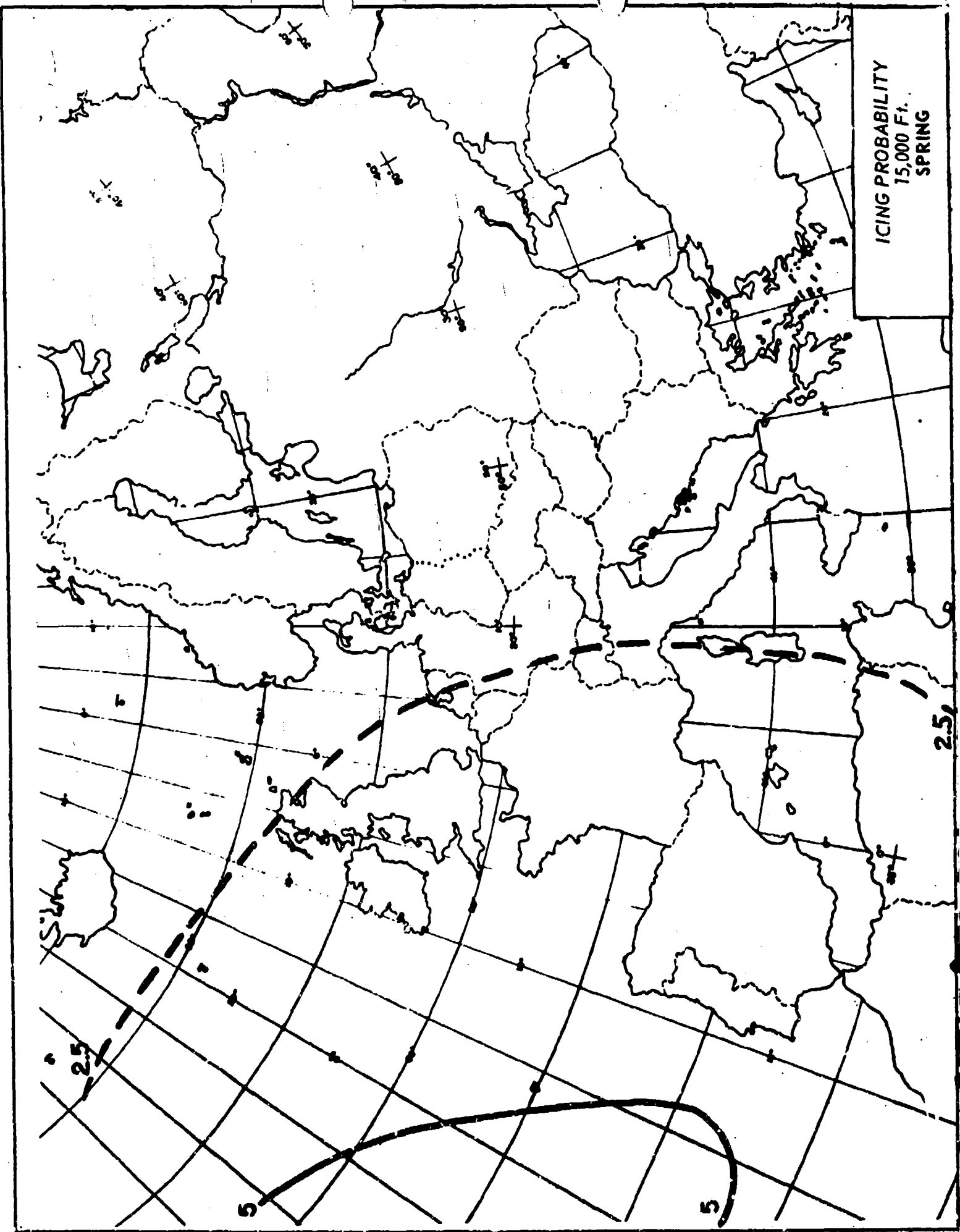
ICING PROBABILITY
5,000 FT.
SPRING



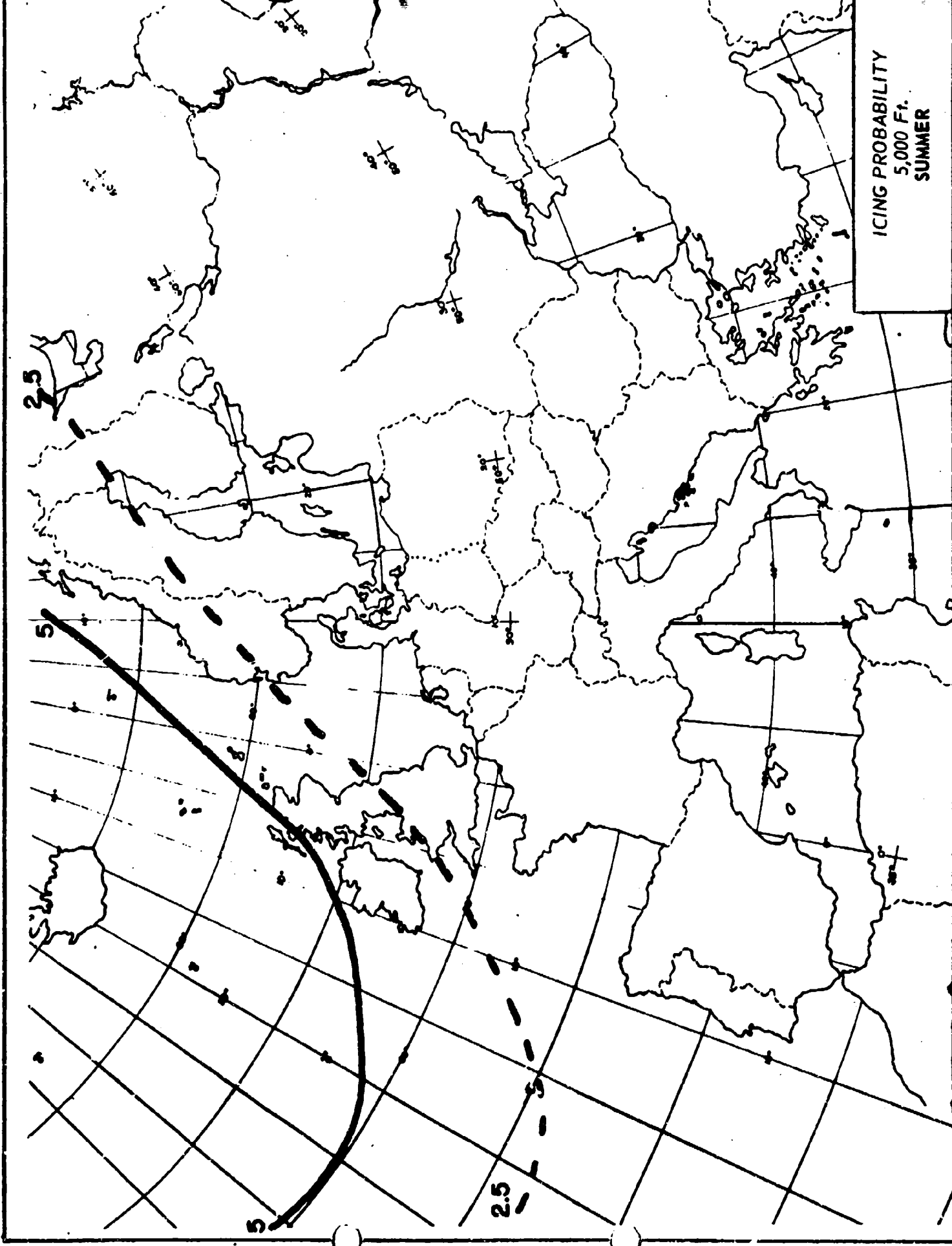
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10,000 Ft.
SPRING



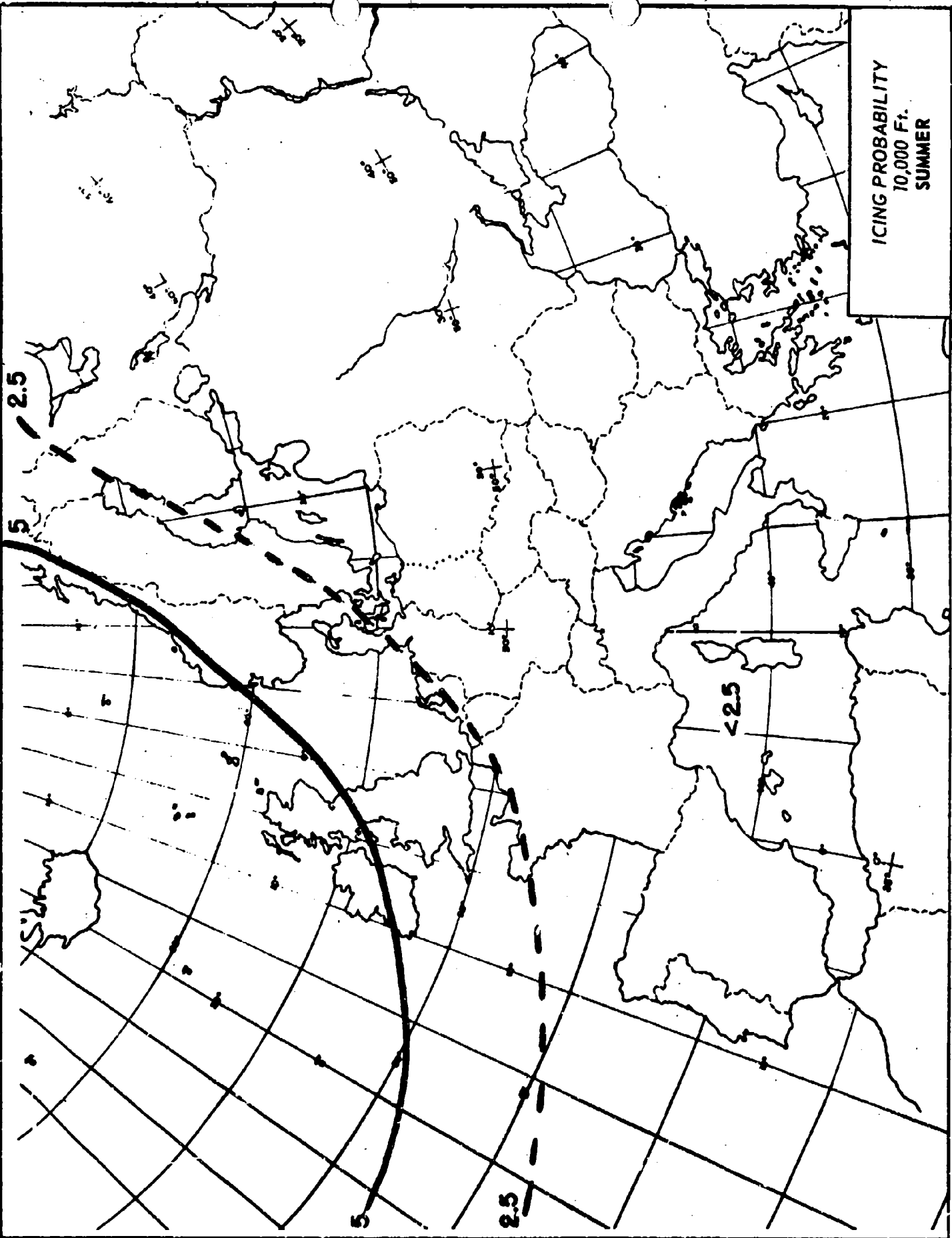
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SPRING

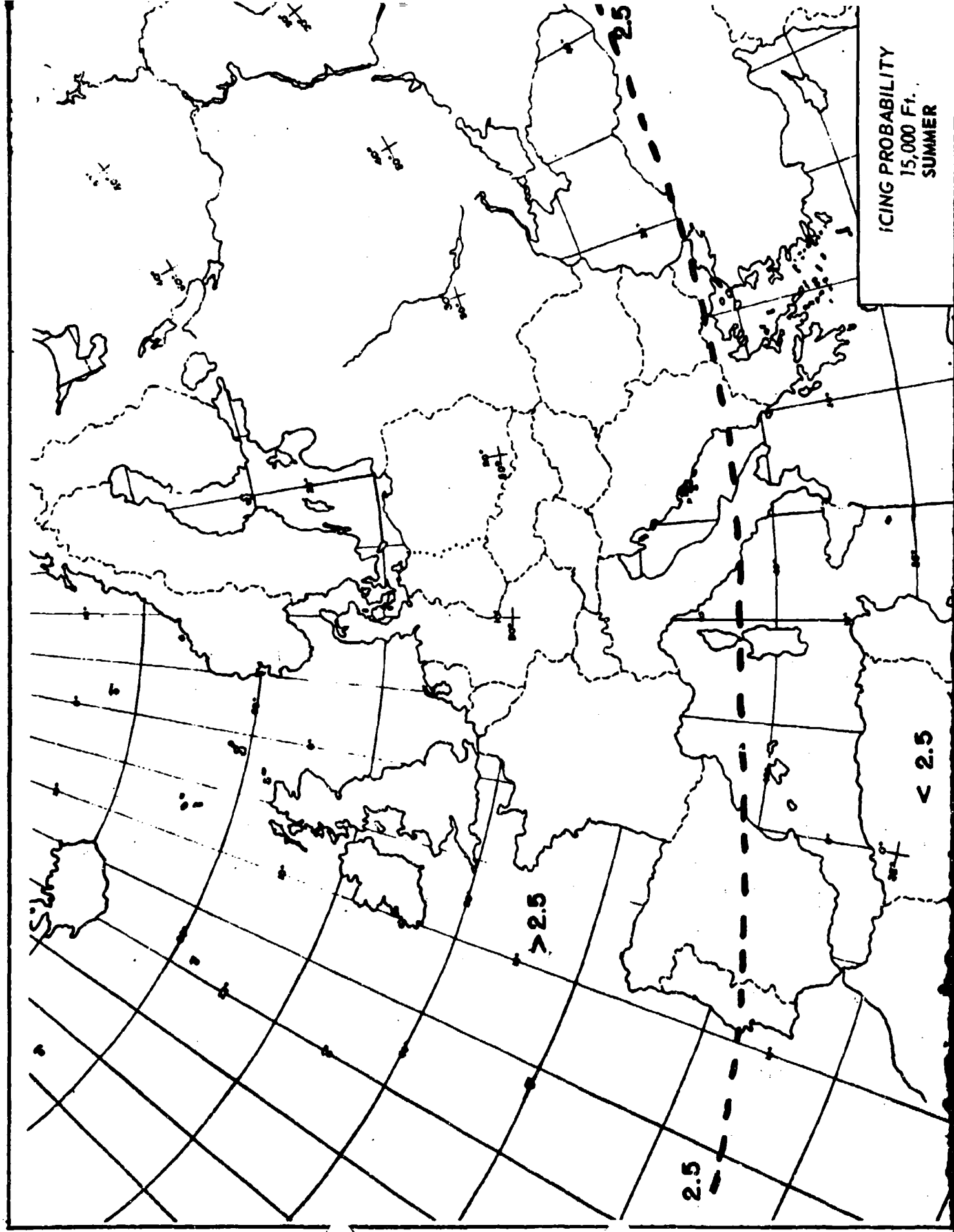


ICING PROBABILITY
5,000 Ft.
SUMMER



ICING PROBABILITY
10,000 Ft.
SUMMER



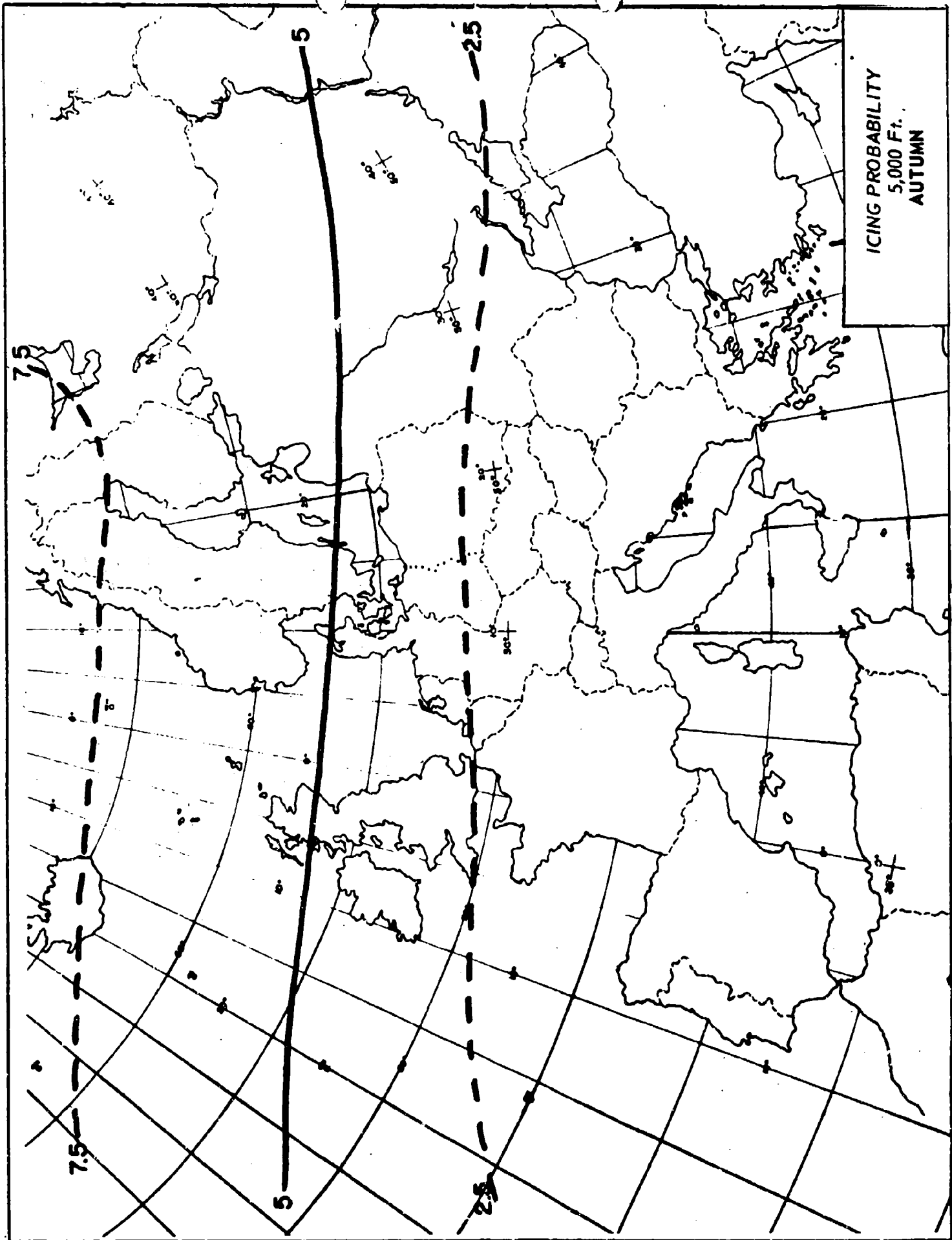


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SUMMER

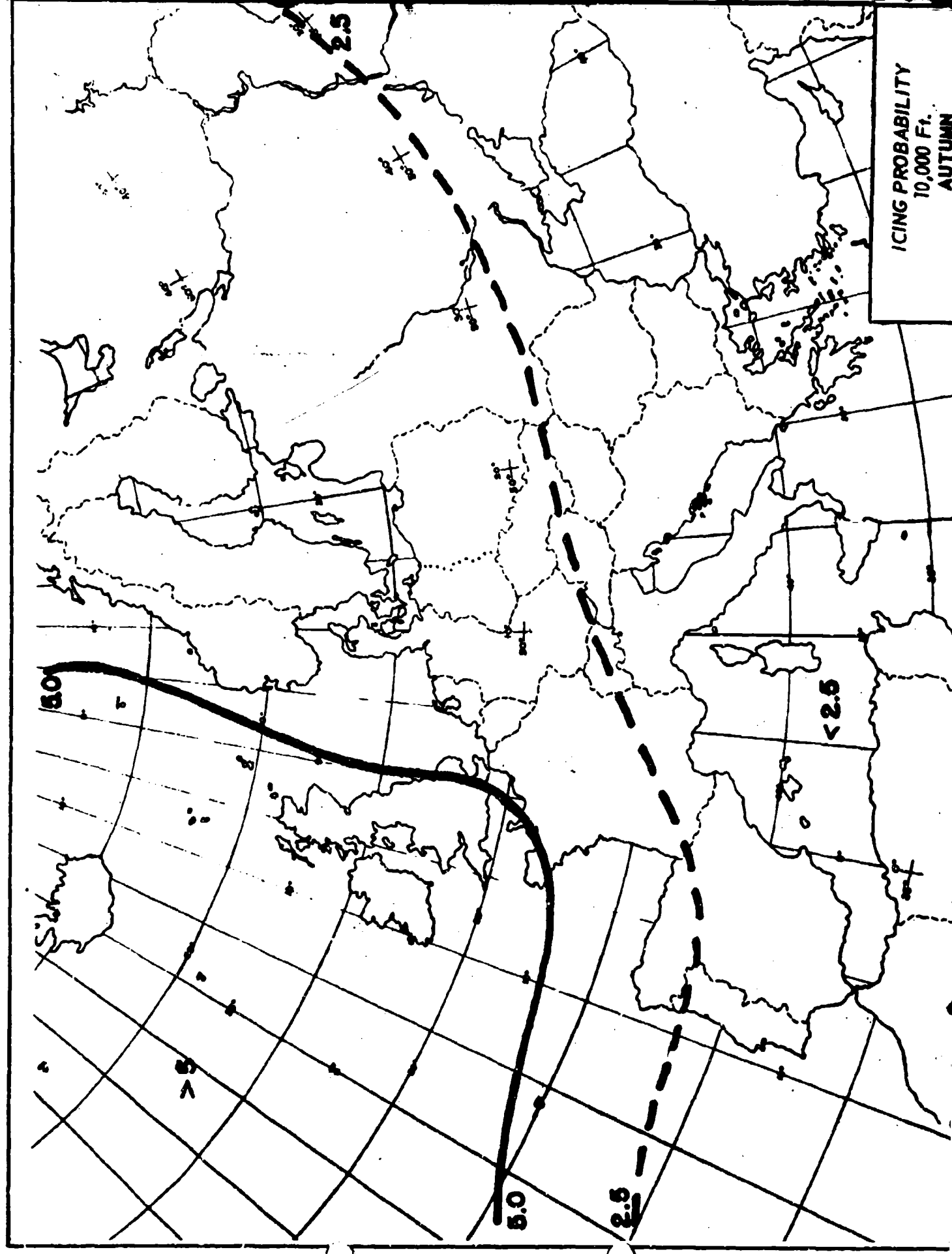
> 2.5

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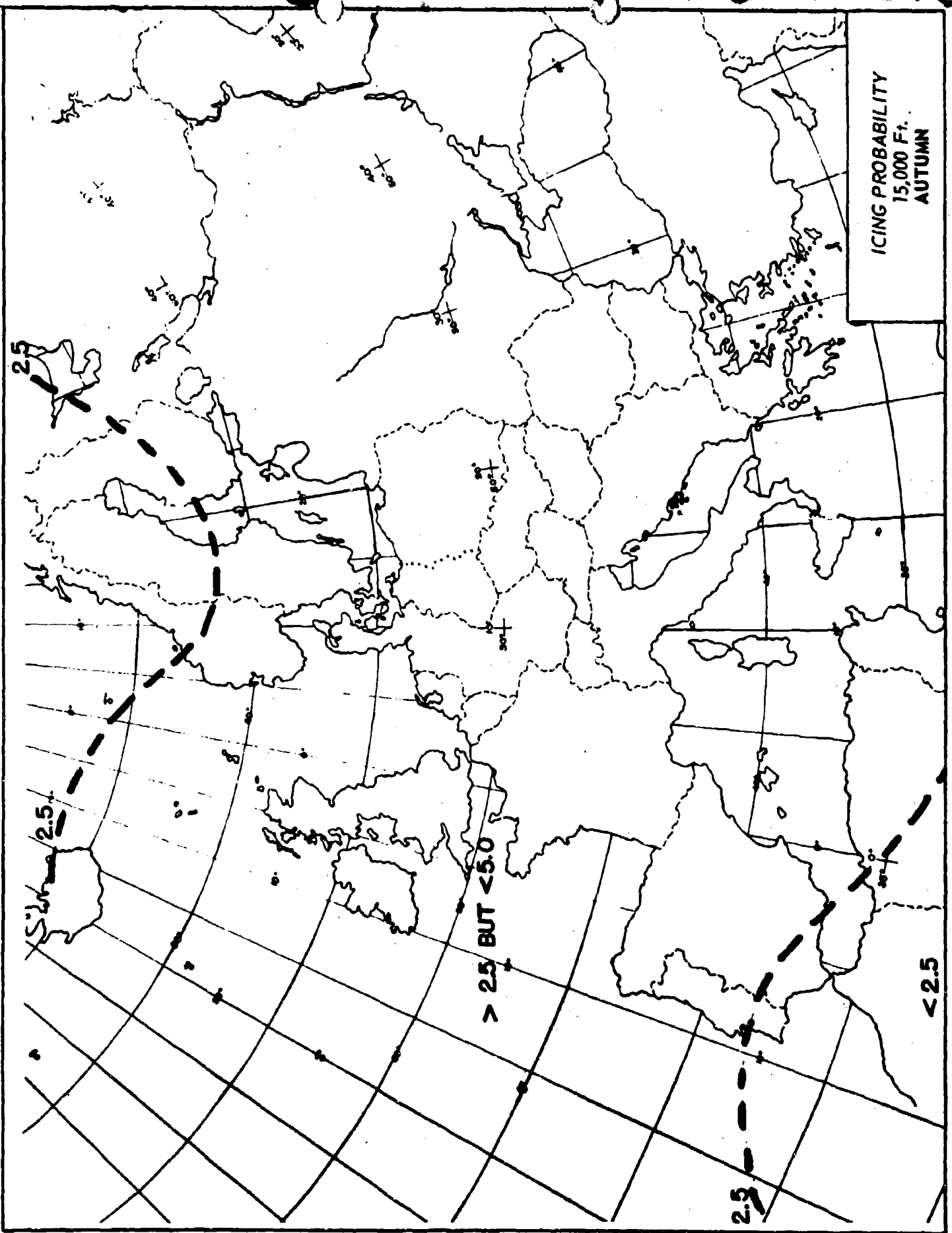


ICING PROBABILITY
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AUTUMN

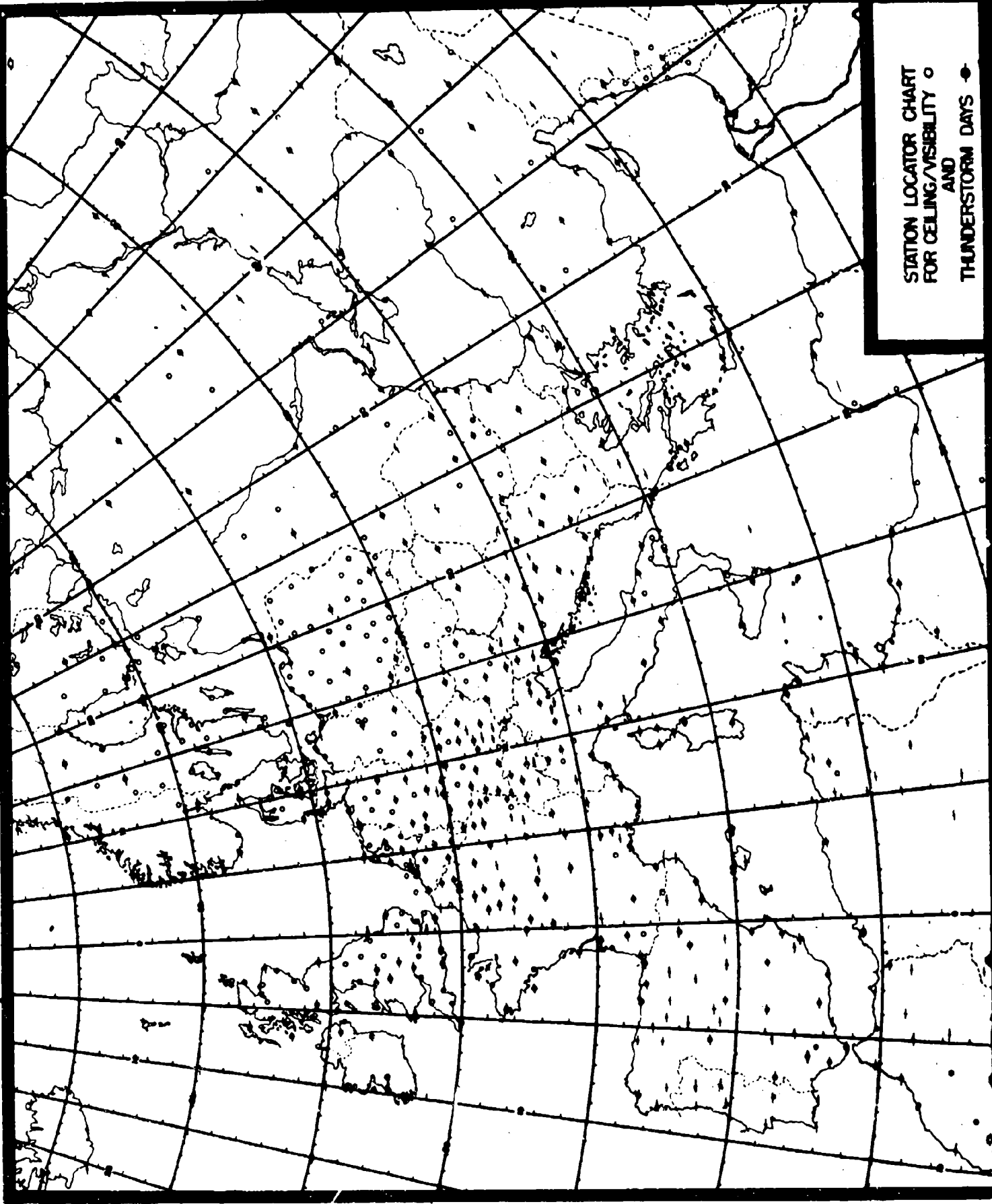


ICING PROBABILITY
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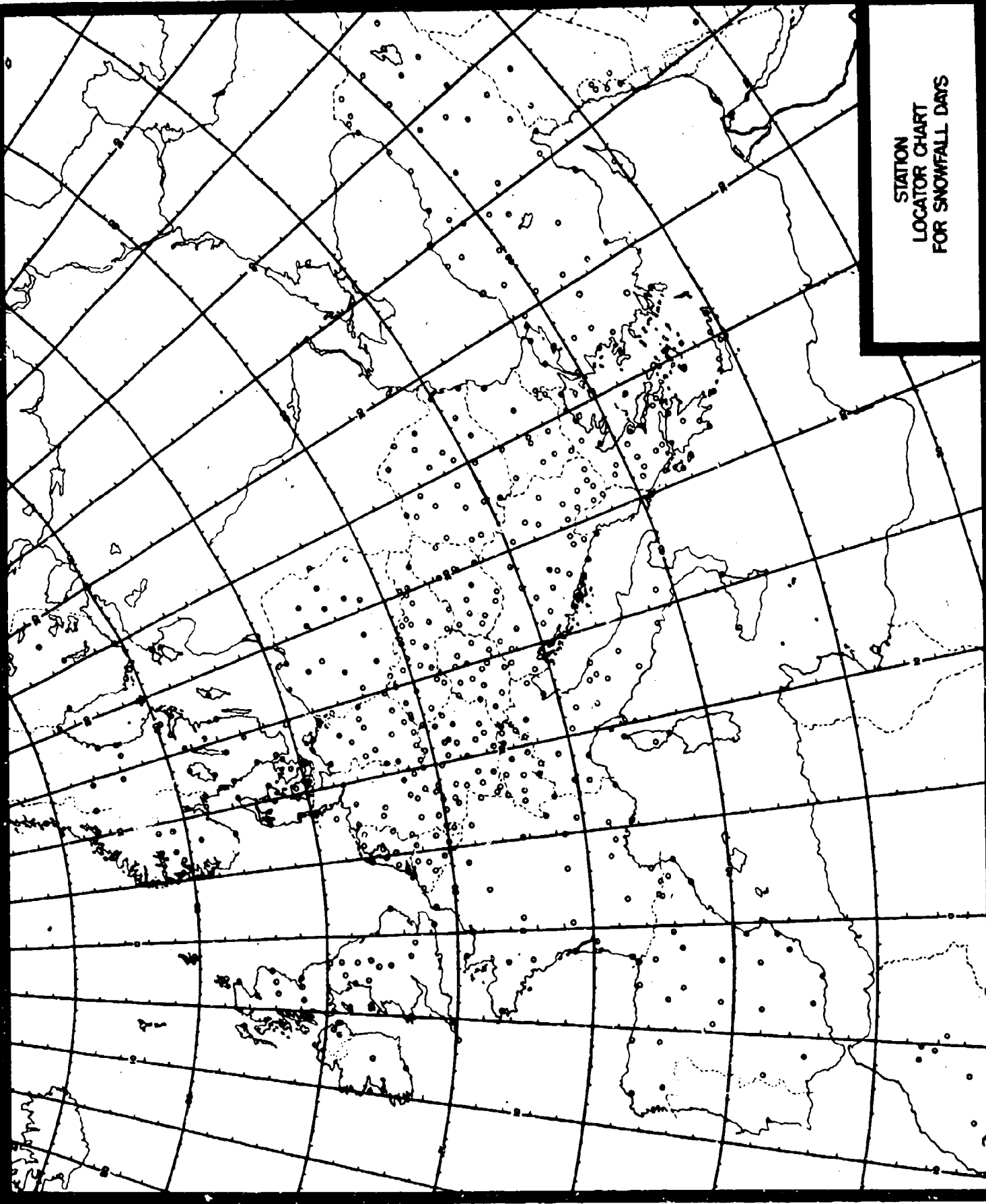
ICING PROBABILITY
15,000 Ft.
AUTUMN



24WP 105-13(C-1)



STATION LOCATOR CHART
FOR CEILING/VISIBILITY ○
AND
THUNDERSTORM DAYS ◆



STATION
LOCATOR CHART
FOR SNOWFALL DAYS

DEPARTMENT OF THE AIR FORCE
Headquarters, 2nd Weather Wing (MAC)
APO New York 09332

CHANGE 1
2WNP 105-13
15 April 1972

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

2WNP 105-13, January 1972, is changed as follows:

1. Page Changes And Additions	Remove (Jan 72)	Insert	Add
3			
1-7/1-8	3	1-7/1-8	1-14
2-7/2-8		2-7/2-8	2-14
3-7/3-8		3-7/3-8	3-14
4-7/4-7		4-7/4-8	4-14
5-7/5-8		5-7/5-8	5-14
6-7/6-8		6-7/6-8	6-14
7-7/7-8		7-7/7-8	7-14
8-7/8-8		8-7/8-8	8-14
9-7/9-8		9-7/9-8	9-14
10-7/10-8		10-7/10-8	10-14
11-7/11-8		11-7/11-8	11-14
12-7/12-8		12-7/12-8	12-14
			14-1
			14-2
			14-3

2. Pen And Ink Changes	Page Paragraph Line	Action
	2 2-4 3	Change "...500 feet/1 mile..." to "...300 feet/1 mile..."
	2 2-7	Change paragraph number from 2-7 to 2-8.
	2	Add paragraph 2-7: "Snowfall Days (12 charts). A snowfall day is one during which falling snow is observed, regardless of whether there is snow accumulation."
	2 3-1a 8	Change "...Below 500 ft/1 mi..." to "...Below 300 ft/1 mile..."
	2 3-1a 9	Change "...Below 500 ft/1 mi..." to "...Below 300 ft/1 mi..."
	2 3-1 3	Change "14" to "13".

Page Paragraph Line Action

Change label on isopleth south of French Riviera from 30 to 50.

2-3

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

Change legends from "...Less Than 500 Feet/1 Mile..." to "...Less Than 300 Feet/1 Mile..."

3. Filing. After posting the changes, file this change sheet in back of the manual.



JAMES M. BURKHART, Colonel, USAF
Commander

SAMUEL G. BURKE III, Capt, USAF
Chief, Administration Division

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DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MCC)
APO New York 09012

CHANGE 2
ZAMP 105-13
8 March 1978

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

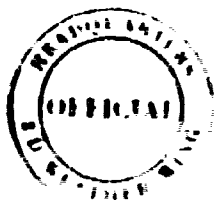
ZAMP 105-13, 31 January 1972, is changed as follows:

1. Page Change:

Remove	Date
13-1 thru 13-12	31 Jan 72

2. Write-in Changes:

Page	Paragraph	Action
2	2-6	Change to read: The latest available climatological information on icing is contained in AWS TR 220 (June 1972). Charts showing the probability of encountering icing conditions are given by months for 1000, 850, 700 and 500mb.



CHARLES O. JENISTA, JR., Col, USAF
Commander

JAMES E. WOODARD, JR., 1LT, USAF
Chief, Administration Division

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DEPARTMENT OF THE AIR FORCE
Headquarters 2d Weather Wing (MAC)
APO New York 09012

CHANGE 3
ZWWP 105-13
19 April 1982

Weather

EUROPEAN CLIMATOLOGICAL GUIDE

ZWWP 105-13, 31 January 1972, is changed as follows:

Write-In Changes:

Page	Paragraph	Line	Action
1	1-1	3 thru 7	Delete 2d and 3rd sentences. Change 4th sentence to read: "it provides data for western Europe, northern Africa and the Near East."
2	3-1	3	Delete "except for section 13 which contains seasonal charts."
3	4-1b	1 thru 13	Delete.



JAMES W. HALL, Colonel, USAF
Commander

JAMES R. SCHAFFNER, Captain, USAF
Chief of Administration

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5 WW/DOJ - 99
7 WW/CCEA - 2
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