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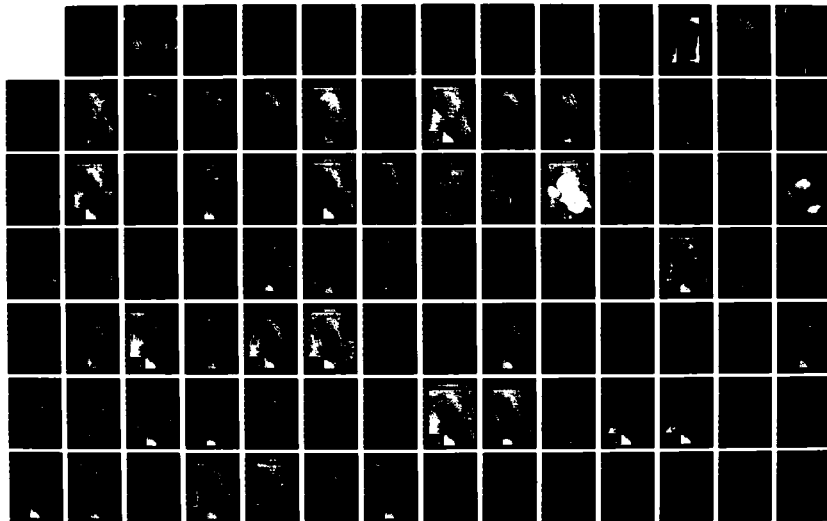
CLIMATOLOGICAL ATLAS FOR IRAQ(U) AIR FORCE
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT AFB
IL APR 85 USAFETAC/DS-85/011

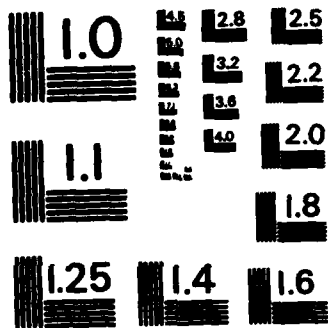
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USAFETAC/DS-85/011

AD-A159 703



CLIMATOLOGICAL ATLAS

FOR

IRAQ



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APRIL 1985

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UNITED STATES AIR FORCE
AIR WEATHER SERVICE (MAC)
USAF
ENVIRONMENTAL
TECHNICAL APPLICATIONS
CENTER

SCOTT AIR FORCE BASE, ILLINOIS 62225

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SECURITY CLASSIFICATION OF THIS PAGE

AD-A159703

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04	02		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) A climatological atlas for Iraq that provides, in graphic and chart form, a relatively fast and simple look at the weather and climate of the Republic of Iraq. Periods of record vary; although some data begins with 1923, most record periods begin with the mid-1930's. All data ends with 1956. Elements chronicled are precipitation, temperature, humidity, pressure, cloudiness, dust, fog, thunderstorm, and wind.			
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PREFACE

This data summary is a reprint of the Climatological Atlas of Iraq, Publication No. 13, as prepared by the Republic of Iraq Meteorological Department (Climatological Section), Ministry of Communications, Directorate General of Civil Aviation. It has been reprinted in response to numerous requests from Air Weather Service staff weather officers. The only known copy of the original document (printed in color) is archived at the Air Weather Service Technical Library (AWSTL), Scott AFB, IL 62225-5008.

Although the original document is not dated, the latest period of record for most climatological data is 1956. The earliest period of record begins with 1923, but most record periods begin in the mid-1930's. The Atlas was entered in the USAF Environmental Technical Center's library holdings in 1962. Despite its age, it is, to the knowledge of the Air Weather Service Technical Library staff, the most recent climatological document available for the Republic of Iraq.

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Unannounced	<input type="checkbox"/>
Justification	
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Distribution	
Availability Codes	
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(1)

PREFACE

The project of publishing a Climatological Atlas for Iraq was under study since 1940.

Difficulties during wartime have prevented the publication of the Atlas. So in 1945 the Atlas was published under D.F. Booth Senior Met. Officer Baghdad Airport.

In the meantime all the copies of that Atlas have been distributed and many requests could not be satisfied.

Instead of reprinting the mentioned Atlas it has been decided to issue a completely new edition, using the Climatological Values up-to-date adding a number of new graphs following recommendations of WMO.

The datas used for the graphs are going to be published in detail in a special publication. The lack of the former Atlas due to inhomogeneity of most of the observations and short-term informations could not be avoided completely in this issue, of courses, because the same datas have been used. But the fact, those datas at least 12 years more were available reduced the statistical error considerably, and it can be assumed, that the presented Atlas gives a quite accurate picture of the normal weather - conditions in Iraq.

ACKNOWLEDGEMENT

The Atlas has been prepared by the Climatological Section of the Meteorological Department at Baghdad-Airport under Sayid Naman Jamil Sultan. The elaborate calculations and the checking of all observations as well as all the copy work has been done by Sayid Andrawis Jamil Qashat, Farhan Abdul Karim Al Saad and Hanna Sadiq Shadda. The whole work was directed and supervised by Dr. Ernst Lingelbach.

My fullest Acknowledgement is tendered to all of them.

Towfiq Fattah
Director of Met. Department
Baghdad - Airport
IRAQ

Geographical Datas and
 Period of records for the different observations used for the preparation of this Atlas
 Precipitation, Temperature, Pressure, Humidity, Cloudiness,
 Thunderstorm, Fog, Dust and Wind

Observed at	Latitude	Longitude	Height above MSL. in meters	Period
Mosul	36 19 N.	43 09 E.	222.6 m.	1923-1956
Kirkuk	35 28 N.	44 24 E.	330.8 m.	1935-1956
Khanaqin	34 18 N.	45 26 E.	201.2 m.	1936-1956
Baghdad	33 20 N.	44 24 E.	34.1 m.	1937-1956
Habbaniya	33 22 N.	43 34 E.	43.6 m.	1935-1956
Rutba	33 02 N.	40 17 E.	615.5 m.	1928-1956
Hai	32 10 N.	46 03 E.	14.9 m.	1940-1956
Diwaniya	31 59 N.	44 59 E.	20.4 m.	1939-1956
Nasiriya	31 01 N.	46 14 E.	3.0 m.	1940-1956
Basra	30 34 N.	47 47 E.	2.4 m.	1937-1956

Precipitation only

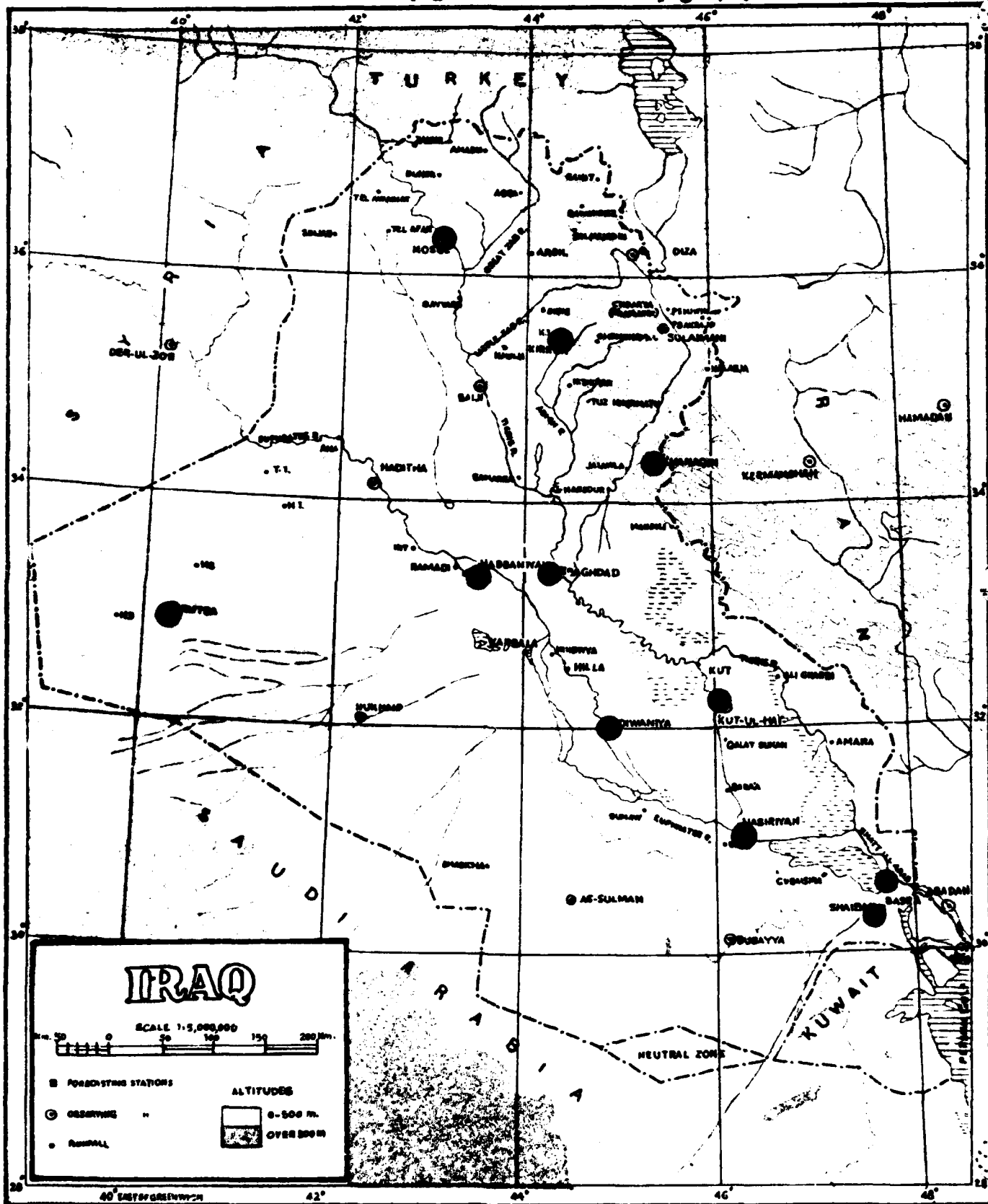
Observed at	Latitude	Longitude	Height above MSL. in meters	Period
Zakho	37 08 N.	42 41 E.	442 m.	1935-1956
Amadia	37 05 N.	43 30 E.	1236 m.	1935-1956
Rawanduz	36 37 N.	44 33 E.	1006 m.	1935-1956
Aqra	36 45 N.	43 58 E.	716 m.	1935-1956
Telawainat	36 41 N.	42 24 E.	346 m.	1938-1956
Sinjar	36 19 N.	41 50 E.	476 m.	1935-1956
Telaafar	36 22 N.	42 28 E.	273 m.	1939-1956
Qayara	35 48 N.	43 17 E.	180 m.	1938-1946
Arbil	36 11 N.	44 00 E.	414 m.	1935-1956
Chamchamal	35 32 N.	44 51 E.	701 m.	1939-1956
Sulaimaniya	35 33 N.	45 27 E.	853 m.	1935-1956
Penjawin	35 37 N.	45 58 E.	1311 m.	1939-1956
Bakrajo	35 34 N.	45 23 E.	750 m.	1936-1956
Halabja	35 11 N.	45 59 E.	724 m.	1935-1956
Iftikhar	35 03 N.	44 27 E.	204 m.	1935-1956
Chuerta	35 44 N.	45 33 E.	1356 m.	1942-1956
Salahddin	36 37 N.	44 13 E.	1088 m.	1940-1956
Rayat	36 41 N.	44 57 E.	2610 m.	1942-1956
Sanat	36 46 N.	42 48 E.	— m.	1944-1956
Duhok	36 52 N.	43 02 E.	860 m.	1943-1956
Mirzarustam	36 03 N.	44 58 E.	459 m.	1945-1956
Shaqlawā	36 23 N.	44 20 E.	— m.	1945-1956
Sirsank	36 58 N.	43 32 E.	1046 m.	1945-1956
Binkird	36 03 N.	45 03 E.	708 m.	1952-1956
Tuz	34 53 N.	44 39 E.	220 m.	1935-1956
Ana	34 28 N.	41 27 E.	— m.	1935-1956
Diala (Sedor)	34 05 N.	45 01 E.	68 m.	1943-1956
Jalawlaa	34 16 N.	45 09 E.	119 m.	1935-1956
Hit	33 38 N.	42 50 E.	58 m.	1952-1956
Karbala	32 37 N.	44 01 E.	29 m.	1935-1956

Observed at	Latitude			Longitude			Height above MSL in meters	Period
Hindiya	32	42	N.	44	17	E.	24 m.	1936-1956
Hilla	32	29	N.	44	26	E.	27 m.	1935-1956
Kut	32	30	N.	45	45	E.	19 m.	1935-1956
Mandily	33	45	N.	45	33	E.	137 m.	1935-1956
Nukhaib	32	02	N.	42	15	E.	305 m.	1935-1956
Amara	31	51	N.	47	10	E.	9 m.	1935-1956
Shabicha	30	42	N.	43	41	E.	— m.	1935-1956
Samawa	31	18	N.	45	16	E.	6 m.	1935-1956
Badaa	31	26	N.	46	11	E.	9 m.	1936-1956
Ur	30	58	N.	46	08	E.	4 m.	1935-1956
Ghabishiya	30	44	N.	47	05	E.	4 m.	1935-1956
Maqil	30	34	N.	47	47	E.	2 m.	1935-1956
Fao	29	59	N.	48	30	E.	2 m.	1935-1956
Bir Uгла	37	00	N.	42	13	E.	420 m.	1935-1940
Dibis	35	41	N.	44	05	E.	239 m.	1936-1946
Baiji	34	56	N.	43	29	E.	115 m.	1935-1944
Samirra	34	11	N.	43	50	E.	65 m.	1935-1951
Rumadi	33	25	N.	43	17	E.	48.7 m.	1923-1936
Haditha	34	04	N.	42	22	E.	140 m.	1934-1944
Hawijah	35	31	N.	44	18	E.	305 m.	1940-1956
T 1	34	13	N.	41	20	E.	318 m.	1936-1941
T 2	34	27	N.	40	10	E.	— m.	1936-1939
H 1	33	47	N.	41	28	E.	409 m.	1934-1944
H 2	33	21	N.	40	36	E.	593 m.	1934-1944
H 3	32	57	N.	39	45	E.	13 778 m.	1934-1944
Qalat Sukar	31	52	N.	46	05	E.	13 m.	1934-1954
Ali al Gharbi	32	28	N.	46	41	E.	13 m.	1939-1947
Salman	30	28	N.	44	43	E.	202 m.	1935-1944
Bussaya	30	02	N.	46	09	E.	144 m.	1935-1944

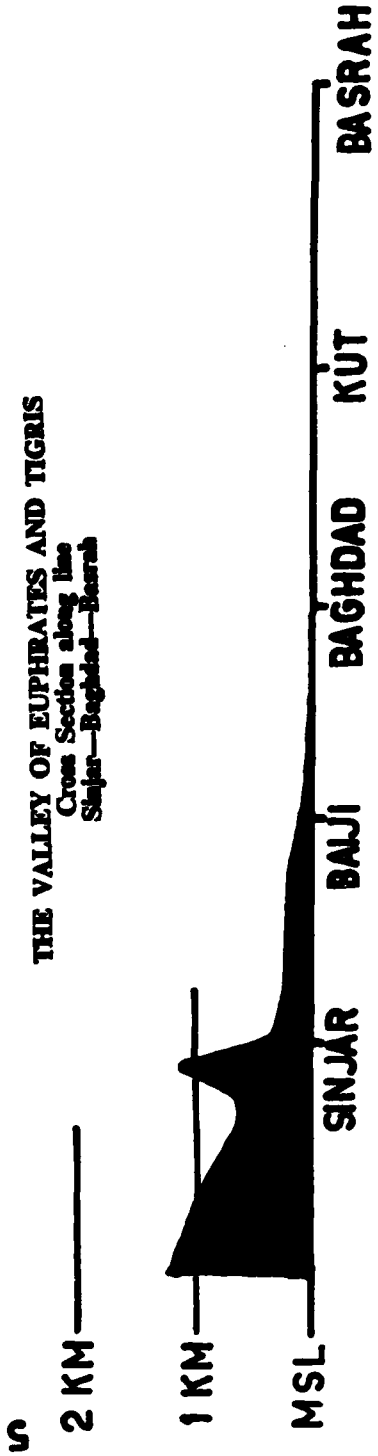
MAP OF IRAQ

4

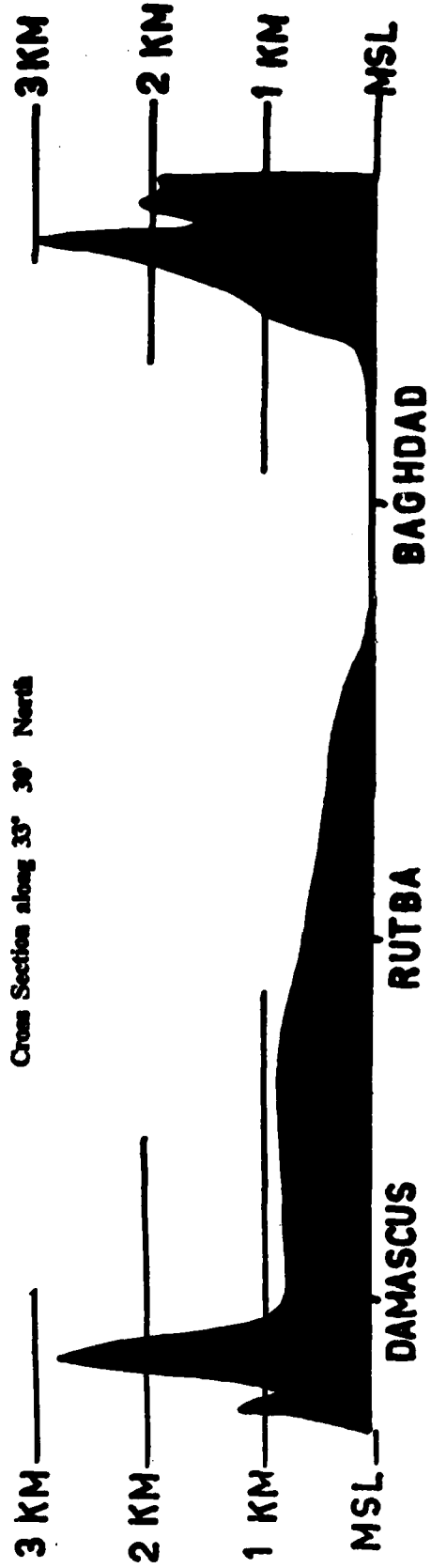
and
Main Observation Stations of the Iraqi Meteorological Department
(Rain Fall Stations see page 6, Period of Records page 2/3)



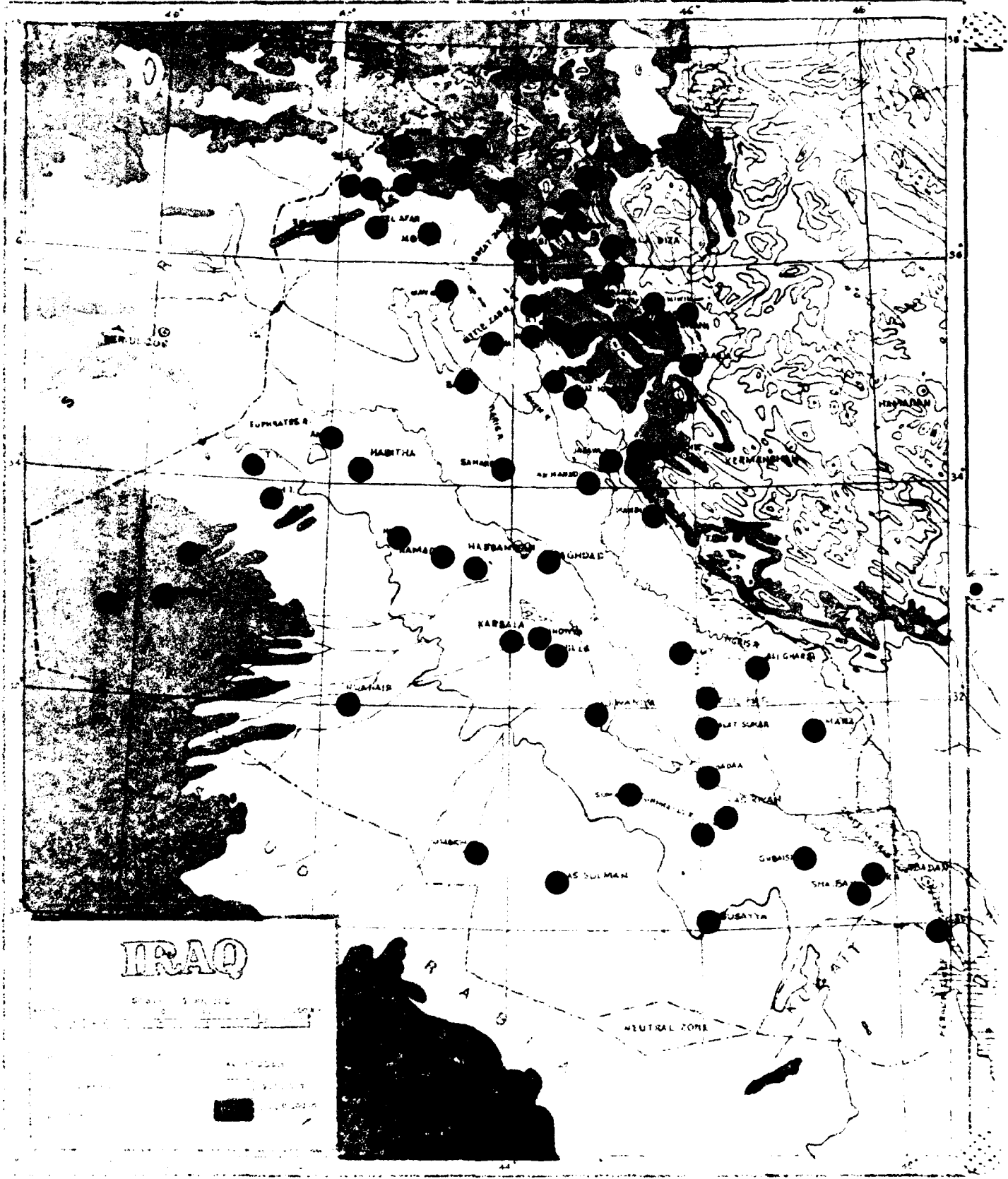
THE VALLEY OF EUPHRATES AND TIGRIS
 Cross Section along line
 Sajer—Baghdad—Basrah



Cross Section along 33° 30' North



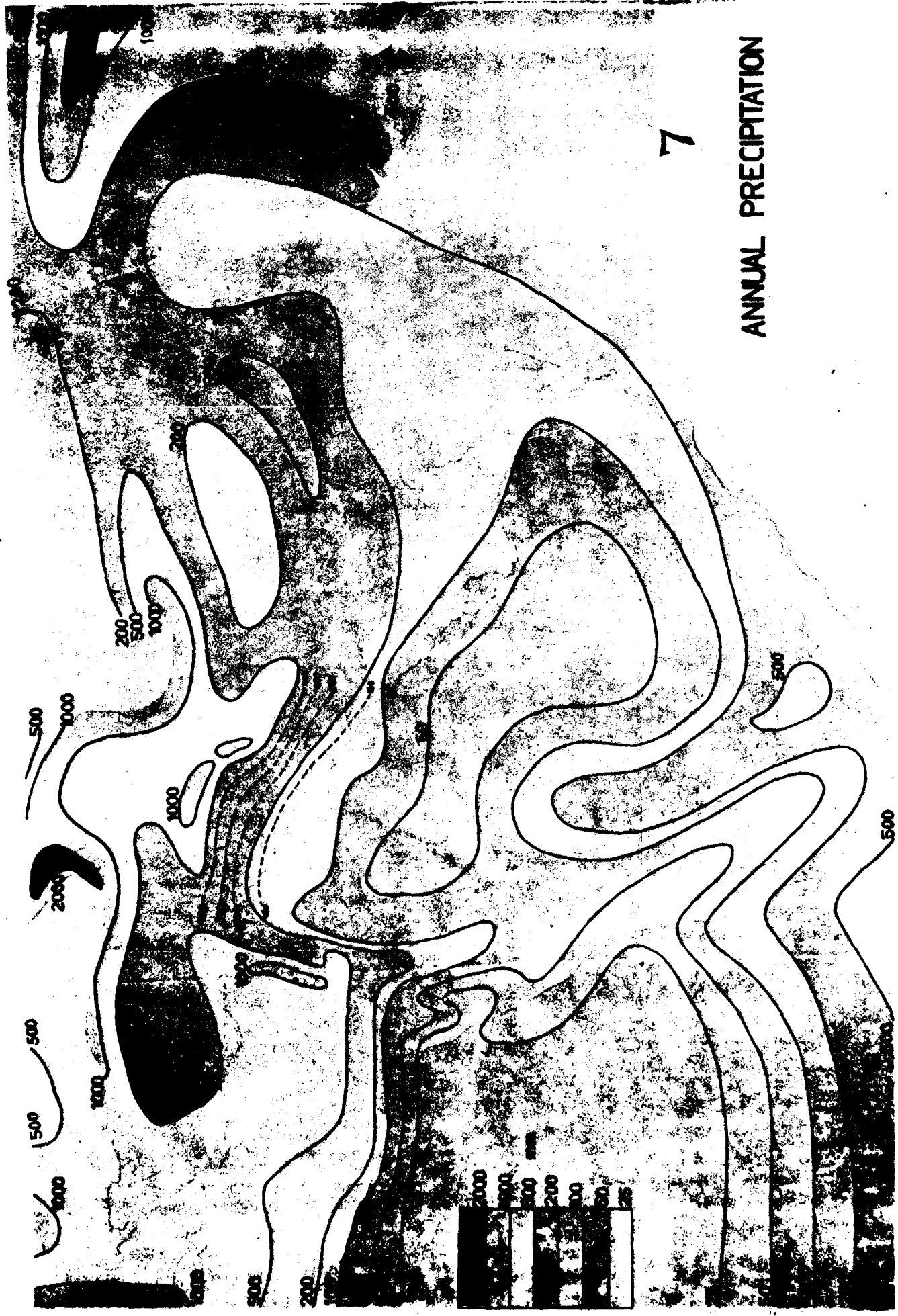
PRECIPITATION
Location of Rain—Gauges
See notes: Period of Records



IRAQ

Scale: 1:500,000
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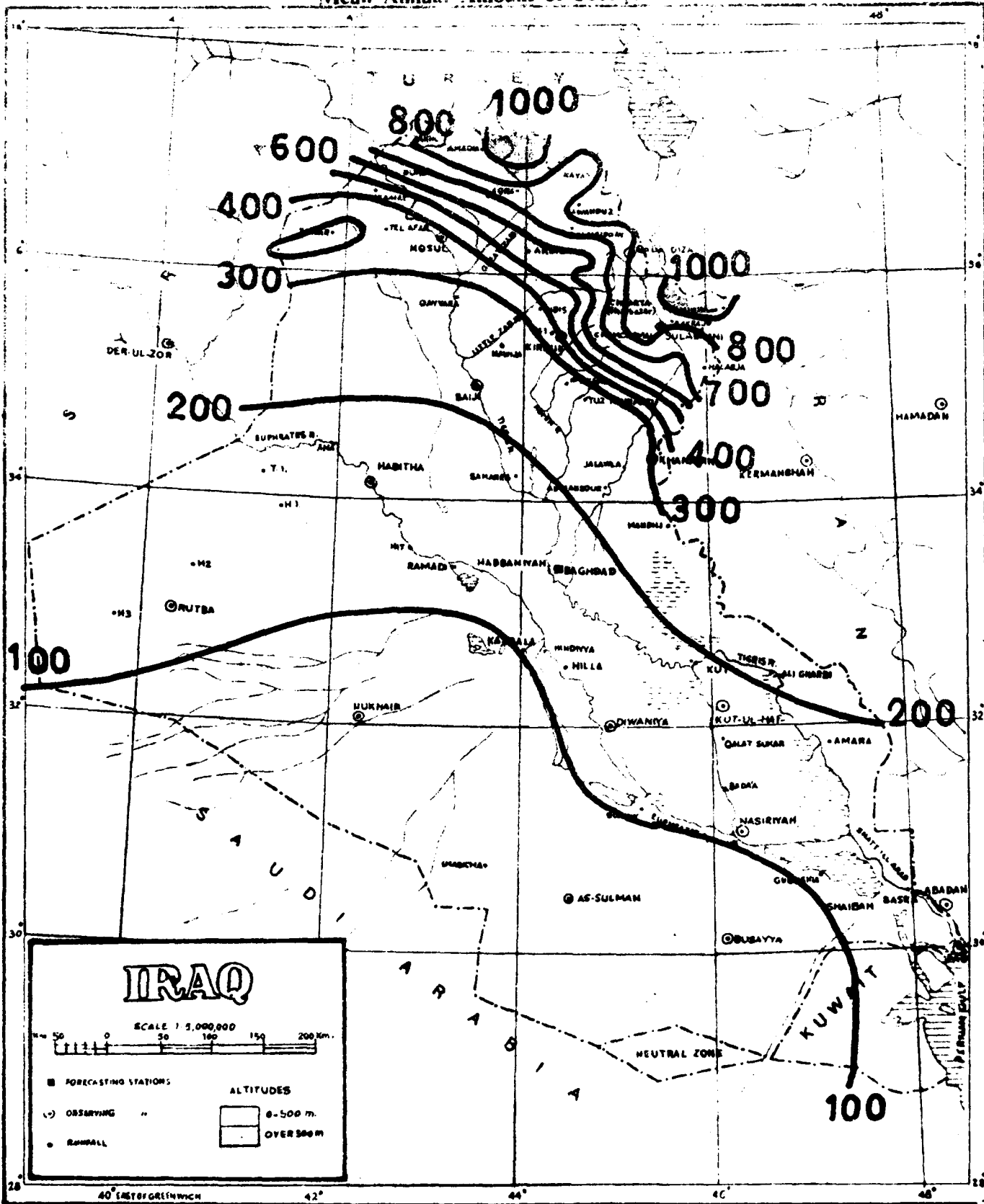
NEUTRAL ZONE



7

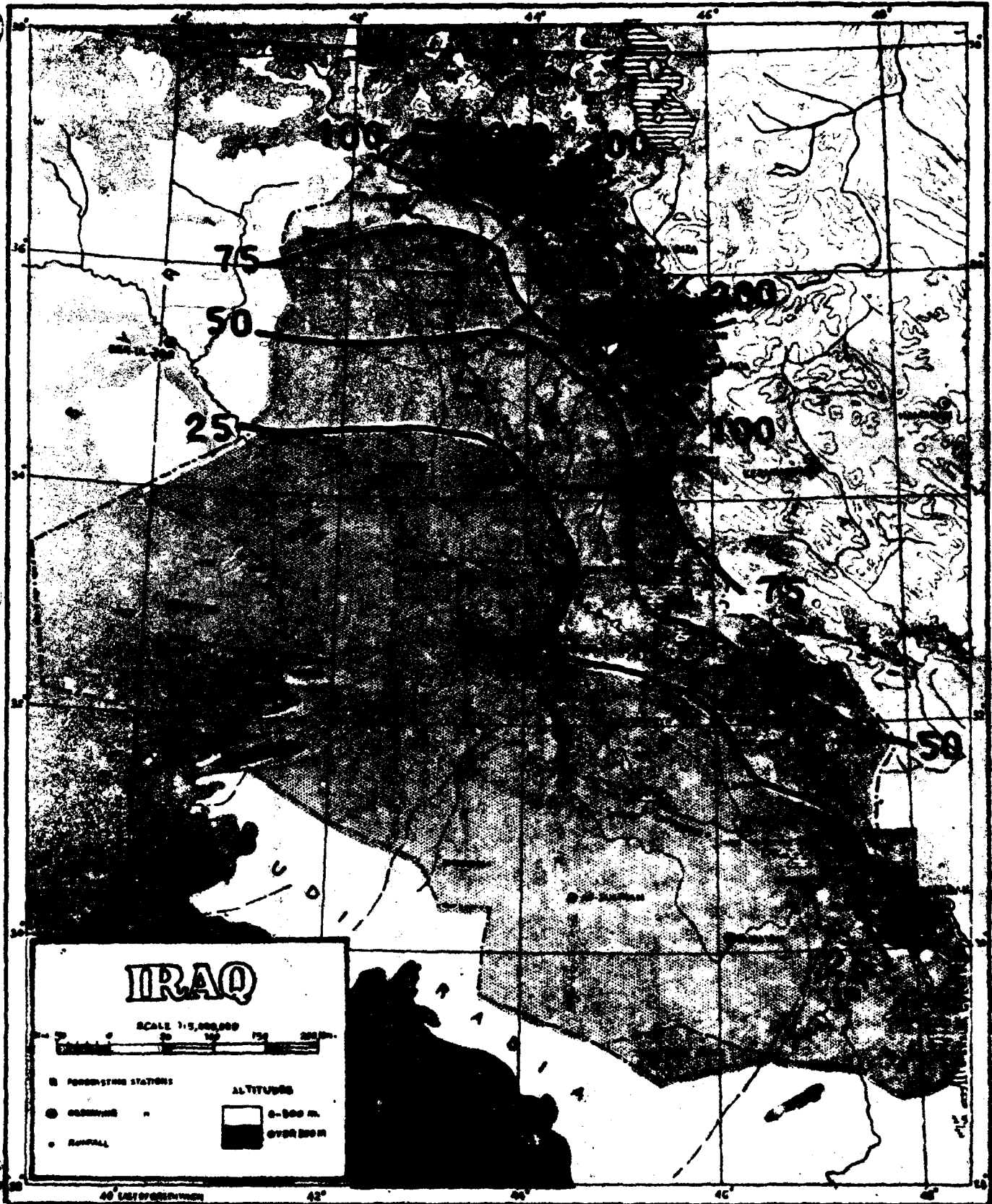
ANNUAL PRECIPITATION

PRECIPITATION
Mean Annual Amount of Precipitation



PRECIPITATION
Mean Monthly Amount of Precipitation

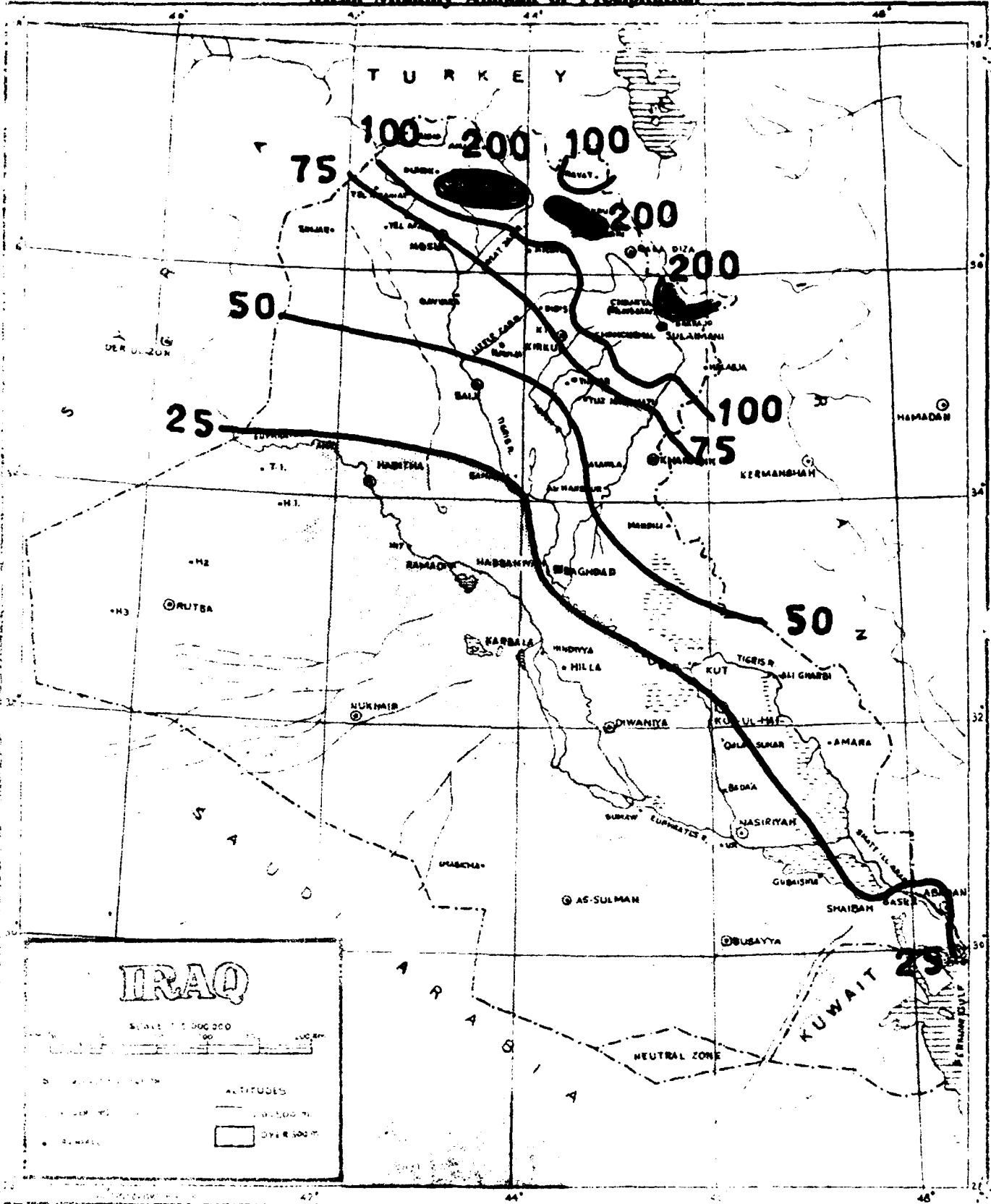
JANUARY



PRECIPITATION

Mean Monthly Amount of Precipitation

10
FEBRUARY



IRAQ

SCALE 1:500,000

100 200 300 400 500 600 700 800 900 1000

ALTITUDES

0-1,500 ft.

OVER 1,500 ft.

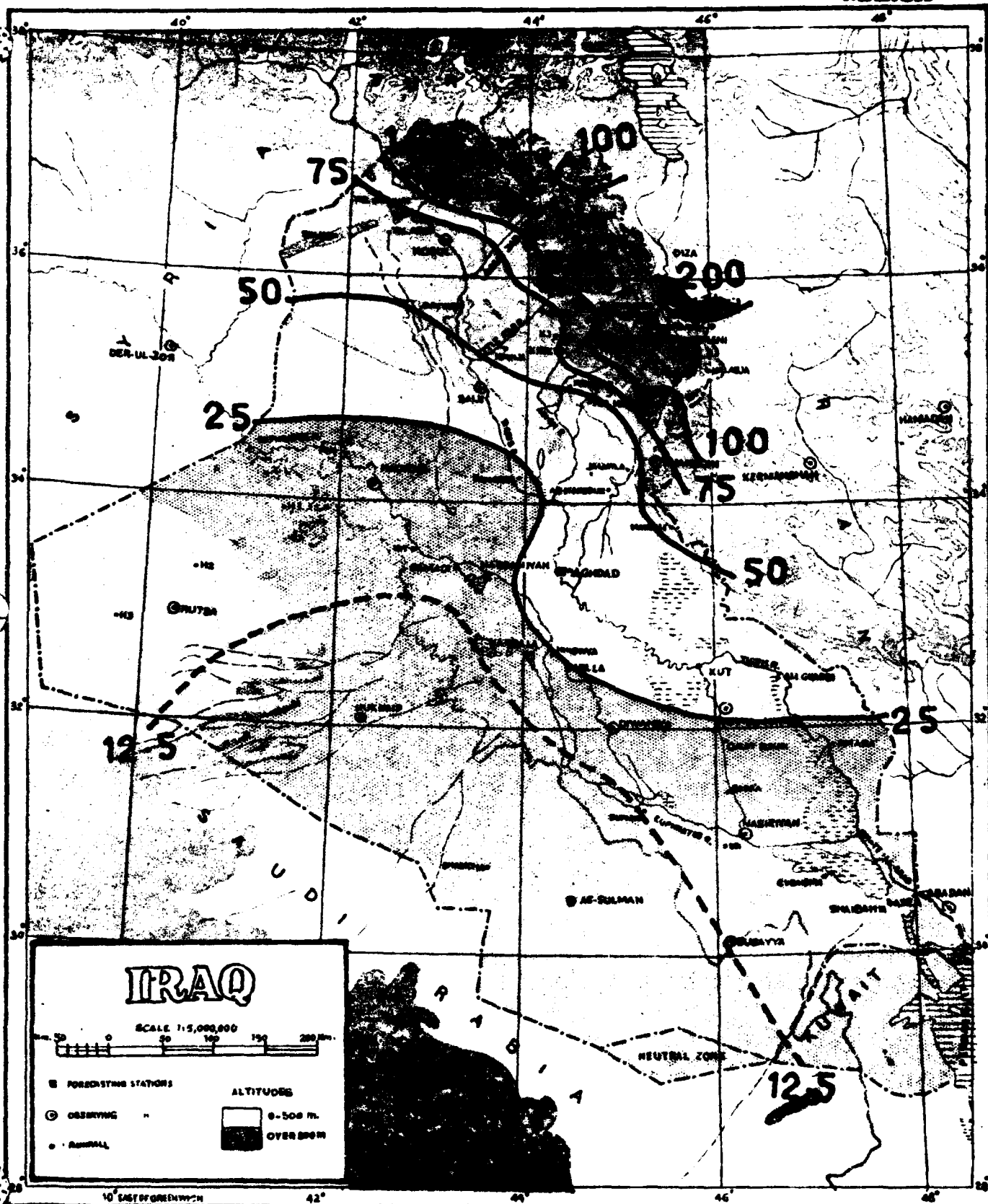
NEUTRAL ZONE

KUWAIT

PRECIPITATION

Mean Monthly Amount of Precipitation

11
MARCH

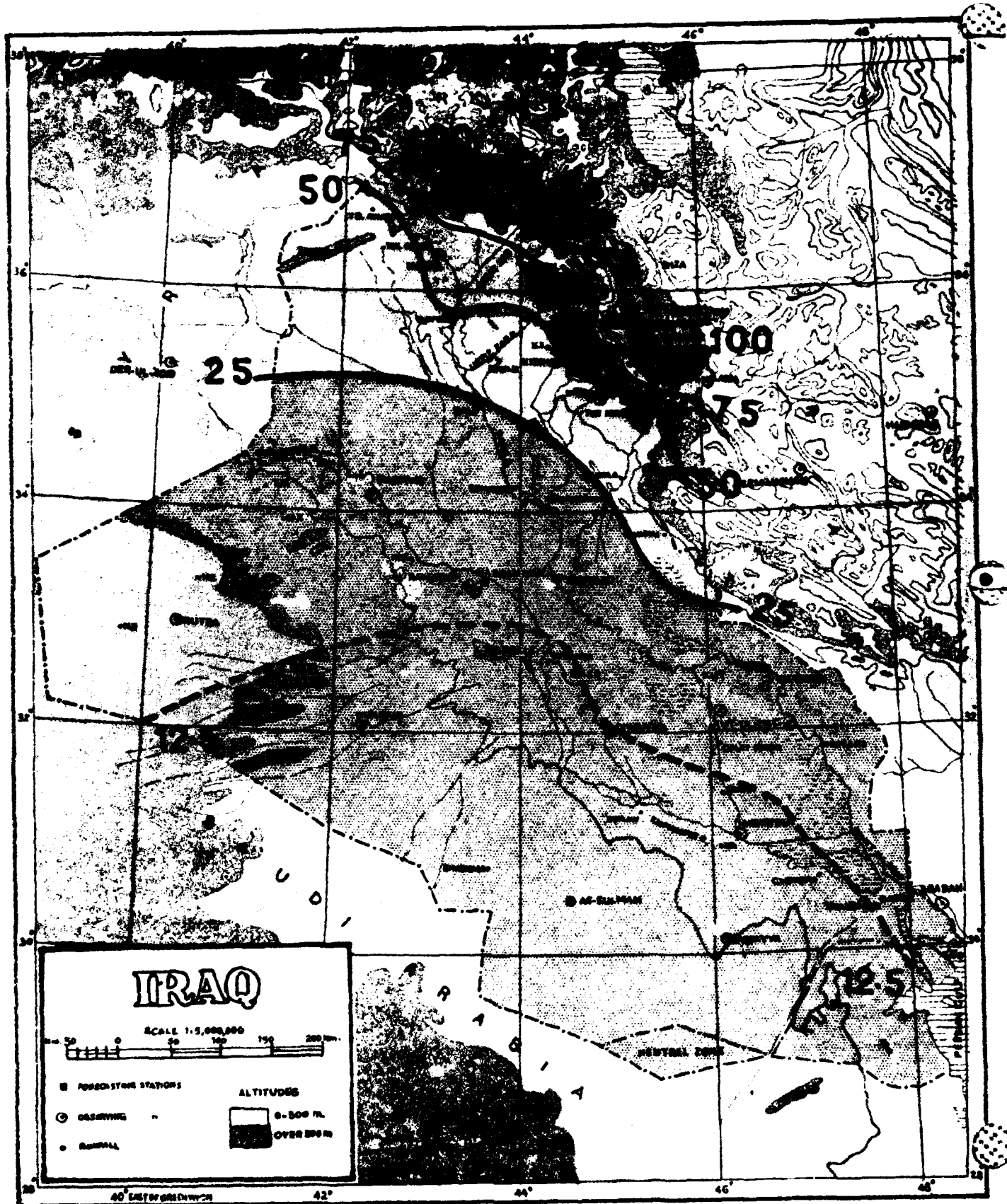


PRECIPITATION

Mean Monthly Amount of Precipitation

12

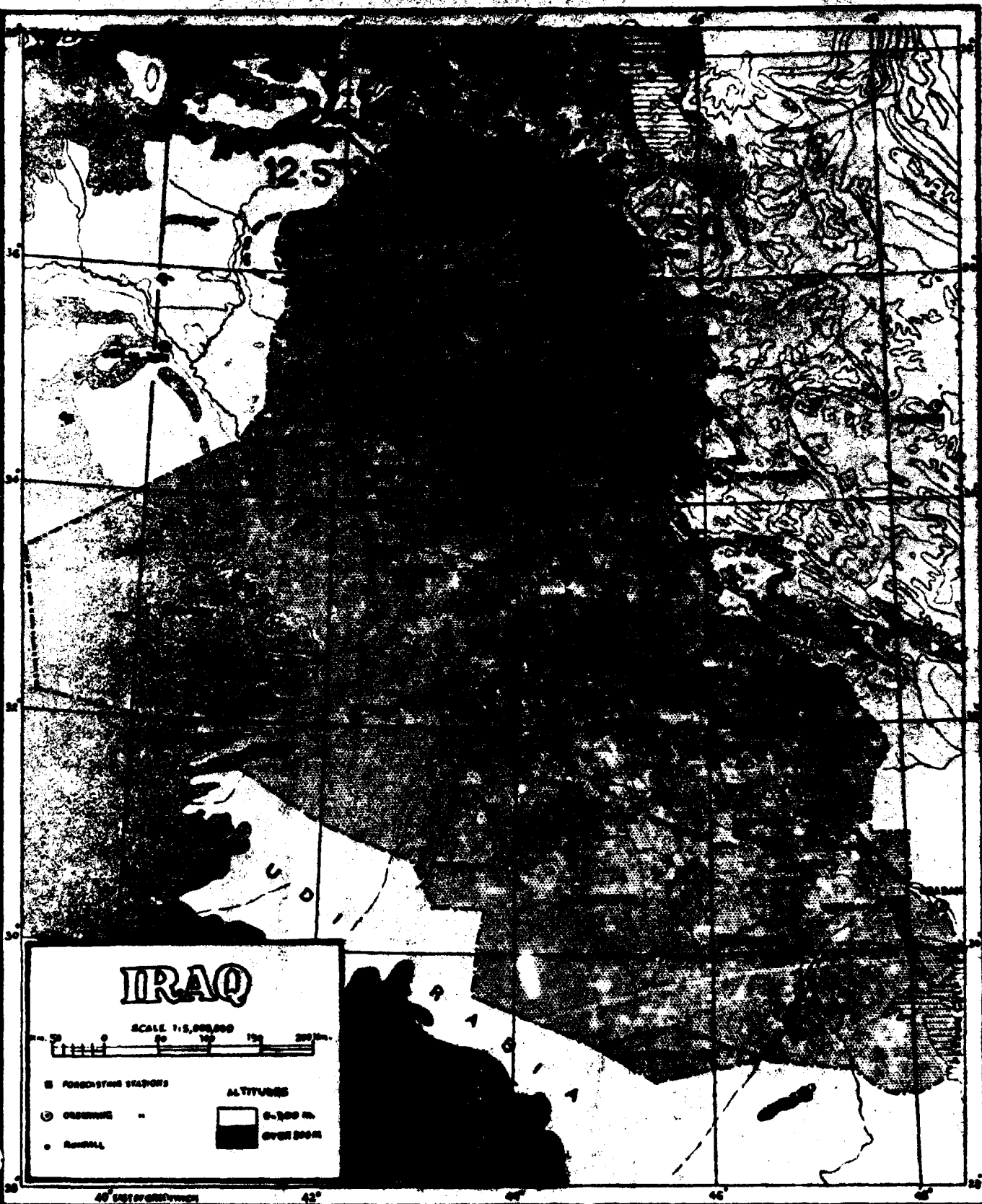
APRIL



PRECIPITATION

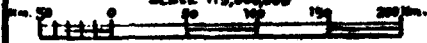
13

MAY



IRAQ

SCALE 1:5,000,000



■ FORECASTING STATIONS

○ OBSERVING "

• RAINFALL

ALTITUDES



0-3000 ft.
OVER 3000 ft.

40° EAST LONGITUDE

42°

44°

46°

48°

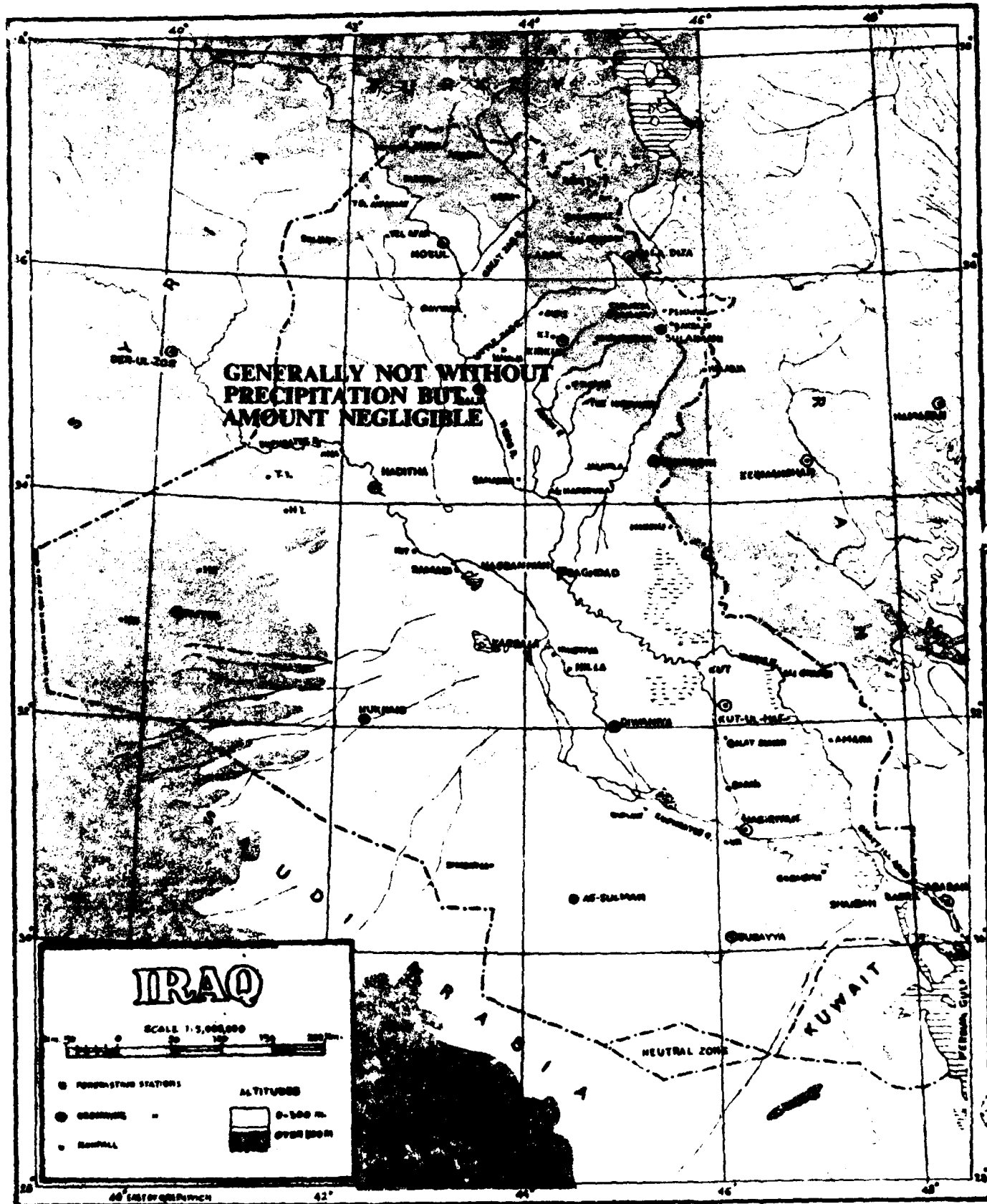
50°

SURVEY PROG. BAGHDAD

PRECIPITATION

Mean Monthly Amount of Precipitation

JUNE
JULY
AUGUST
SEPTEMBER



PRECIPITATION

Mean Monthly Amount of Precipitation

OCTOBER

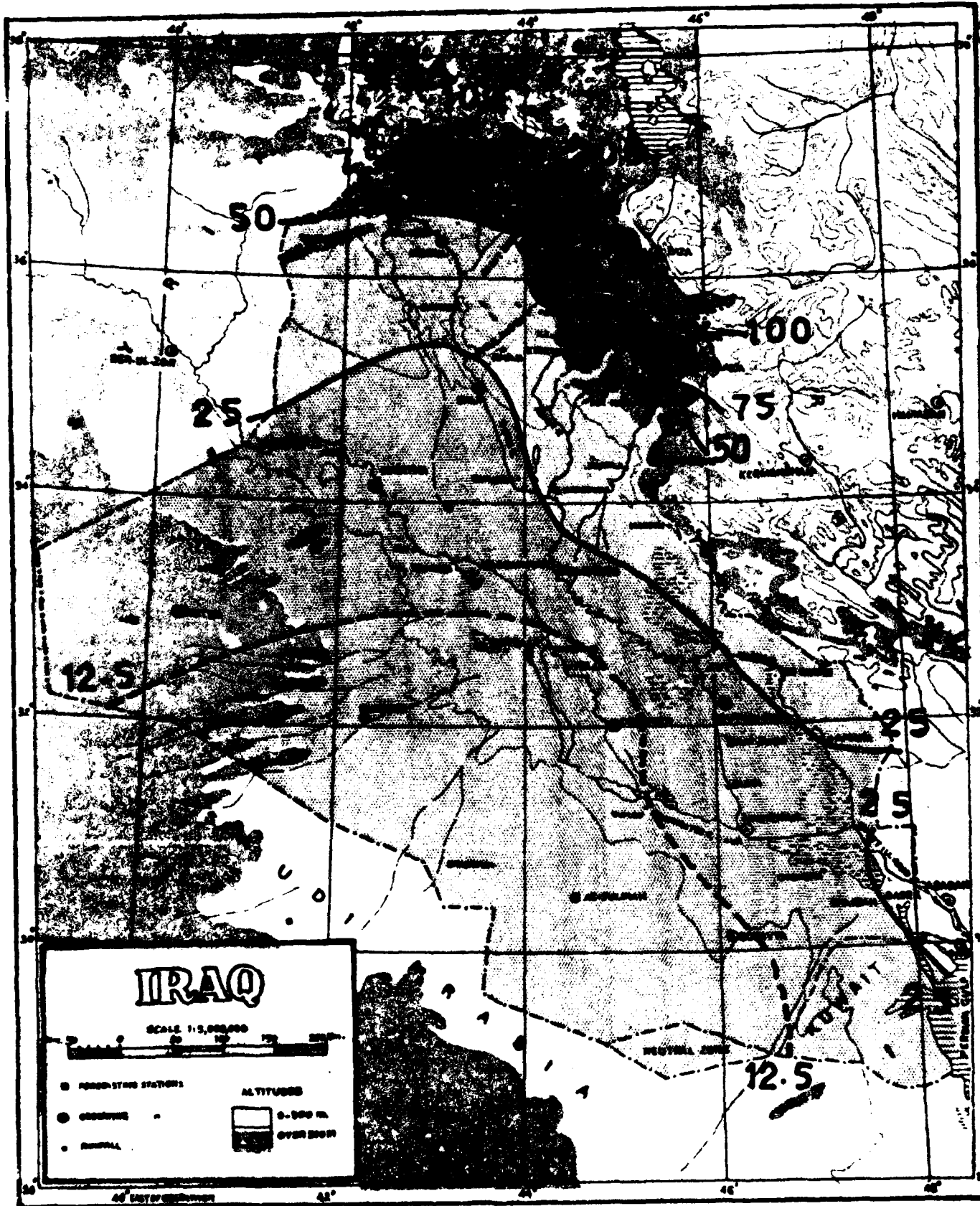


U.S. DEPT. OF COMMERCE, BUREAU OF WEATHER

PRECIPITATION
Mean Monthly Amount of Precipitation

16

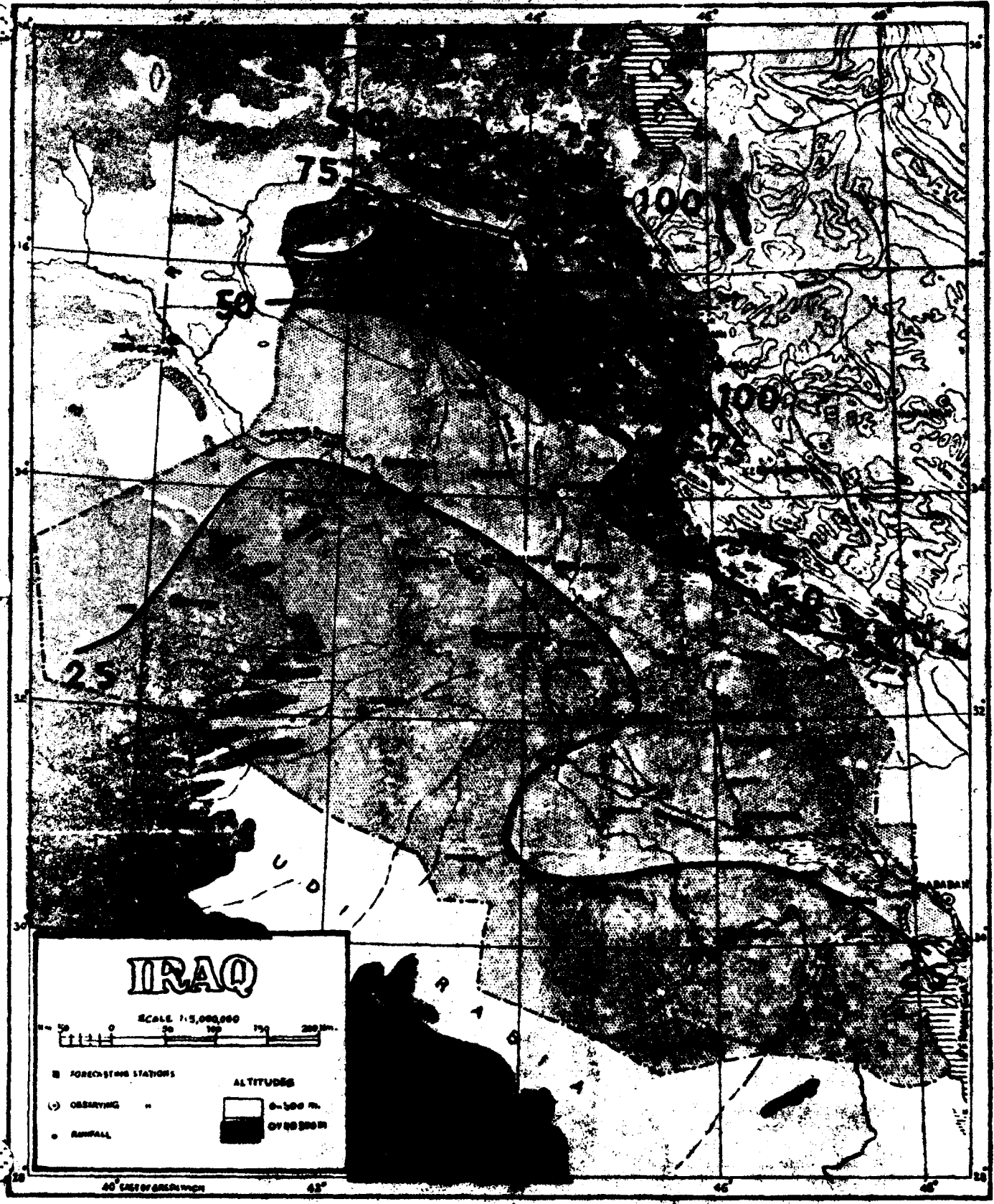
NOVEMBER



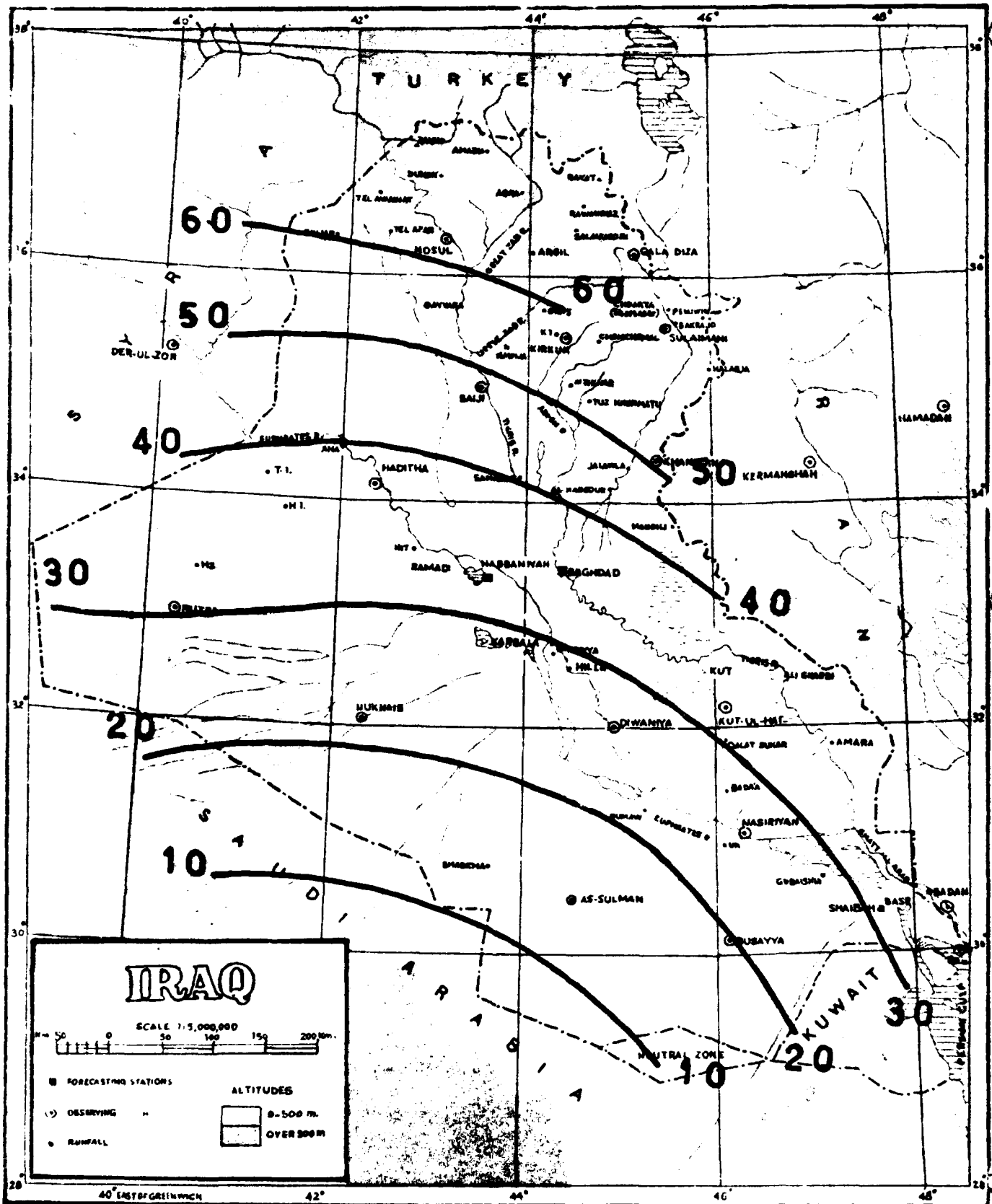
PRECIPITATION
Mean Monthly Amount of Precipitation

17

DECEMBER



PRECIPITATION
Mean Annual Number of Days with Rain
 Period of records see page 2/3



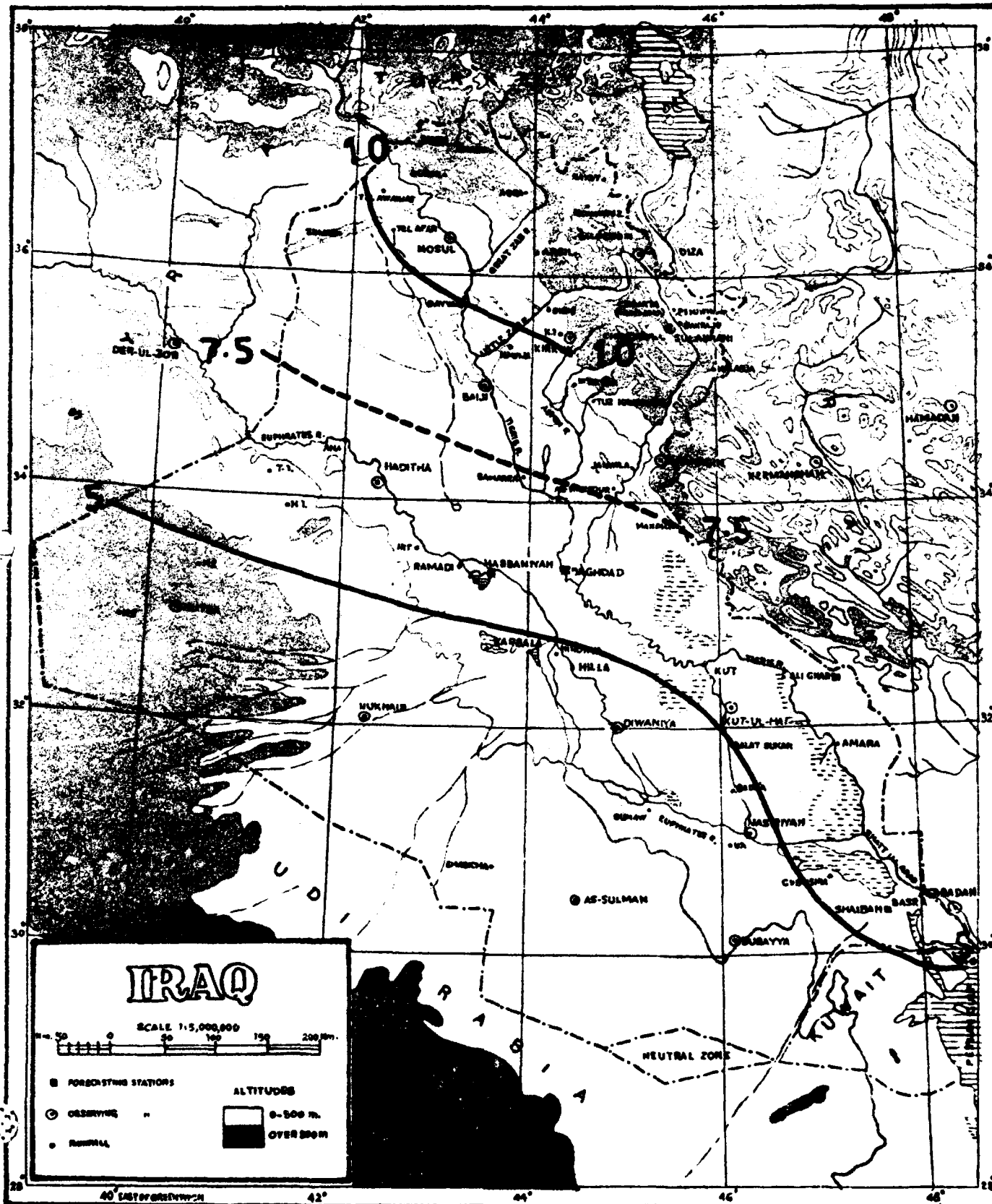
PRECIPITATION

Mean Monthly Number of Days with Rain

Period of records see page 2/3

19

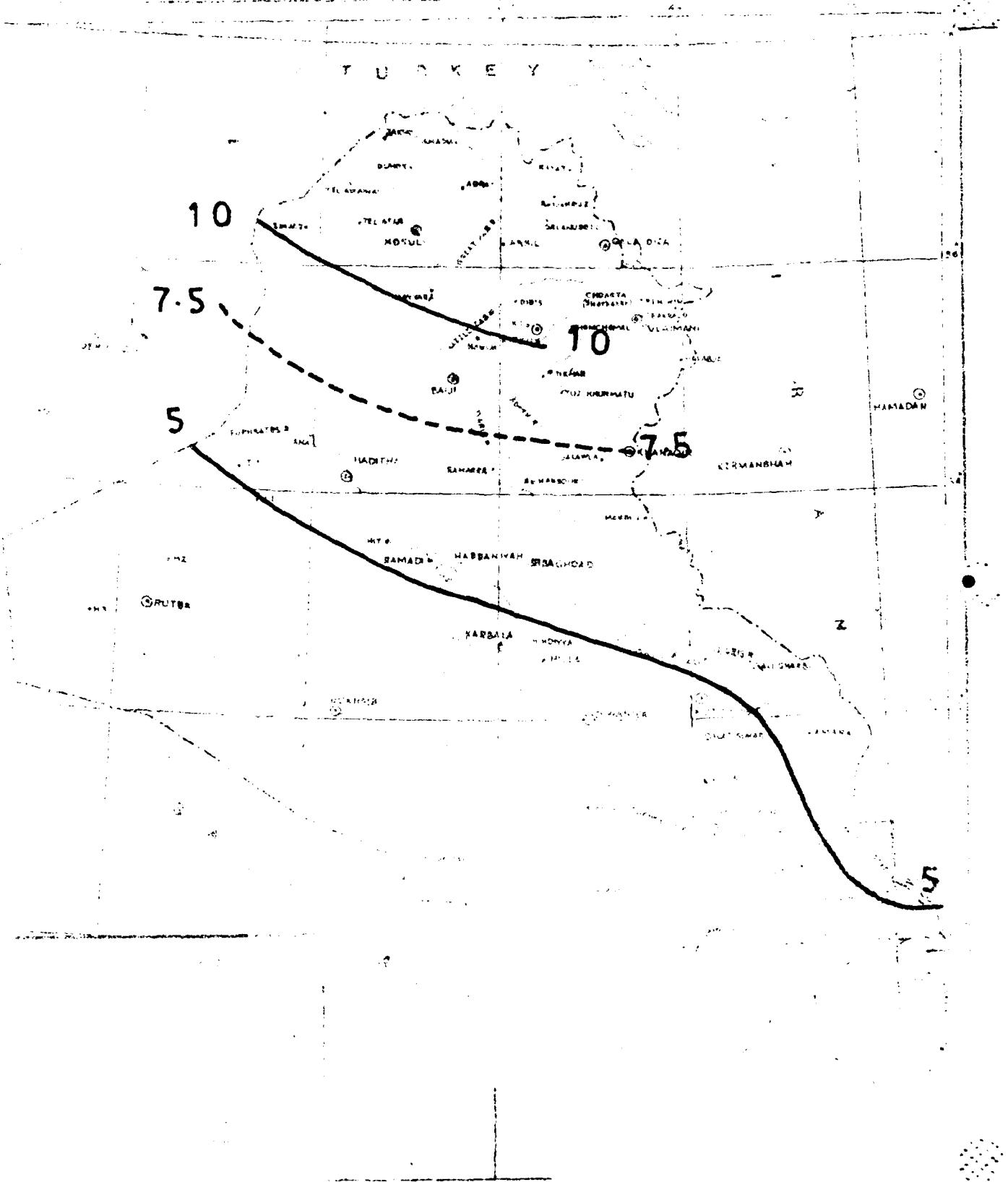
JANUARY



PRECIPITATION
Mean Monthly Number of Days with Rain
Period of records see page 2/3

20

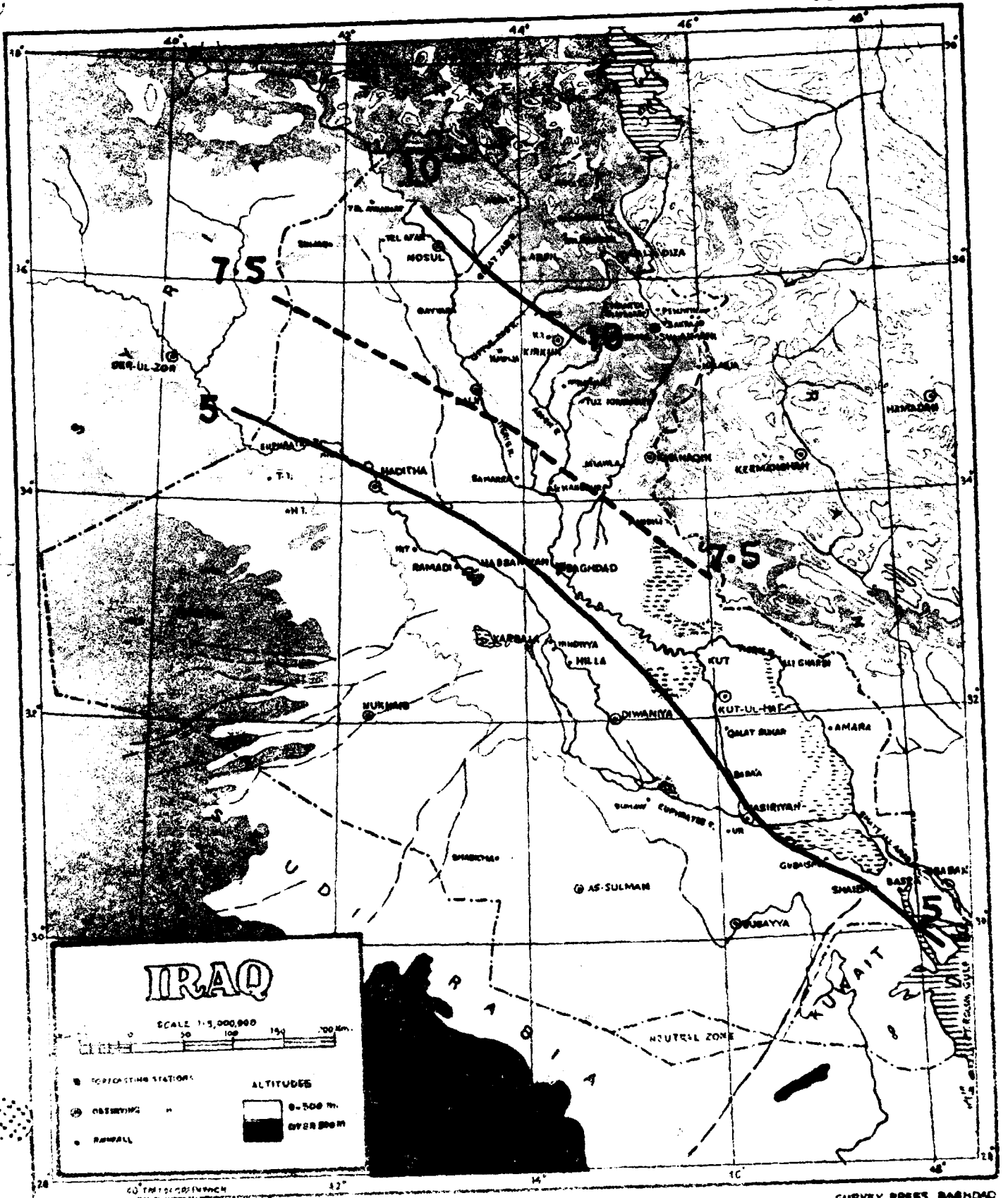
FEBRUARY



PRECIPITATION
 Mean Monthly Number of Days with Rain
 Period of records see page 2/3

21

MARCH



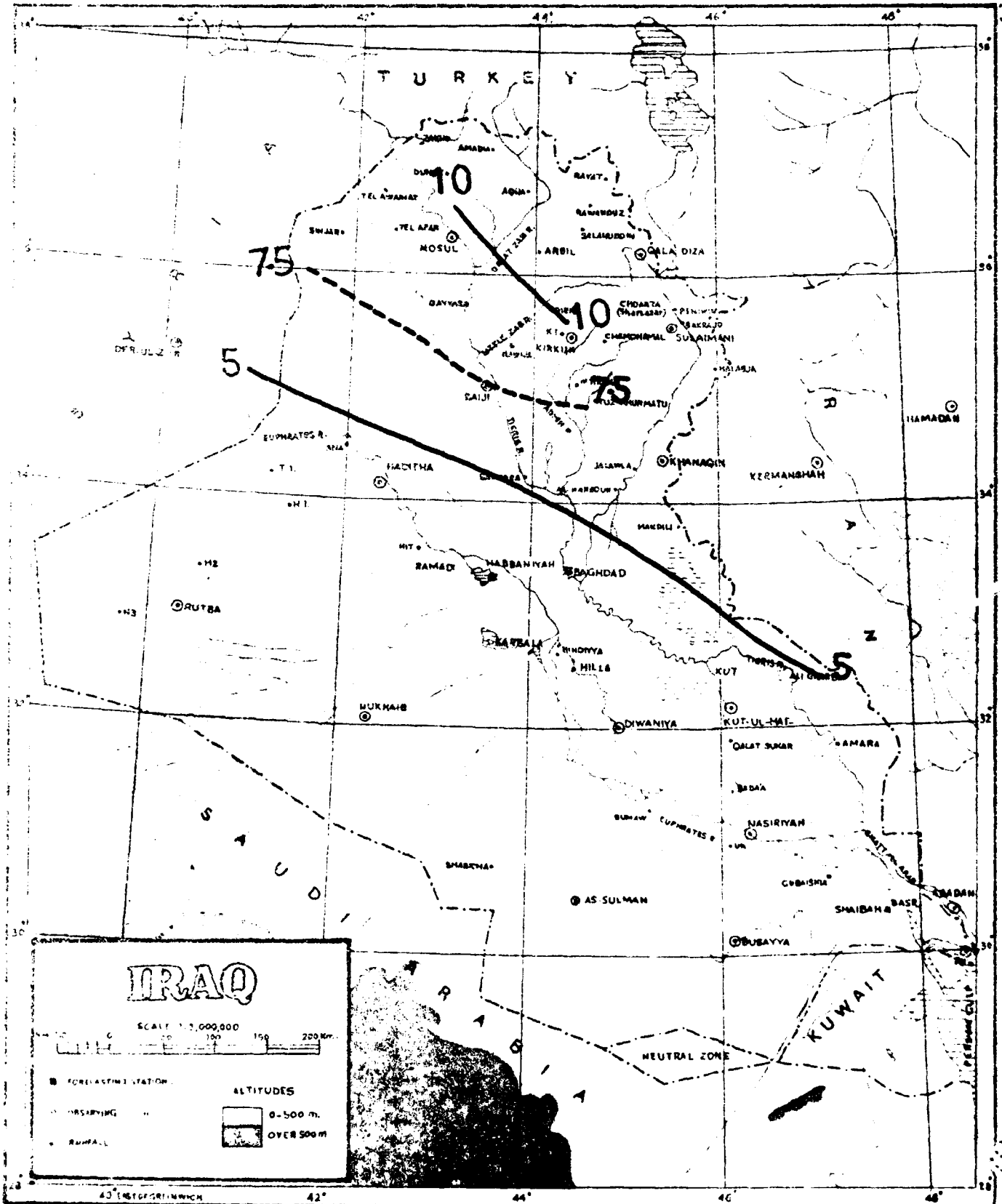
IRAQ

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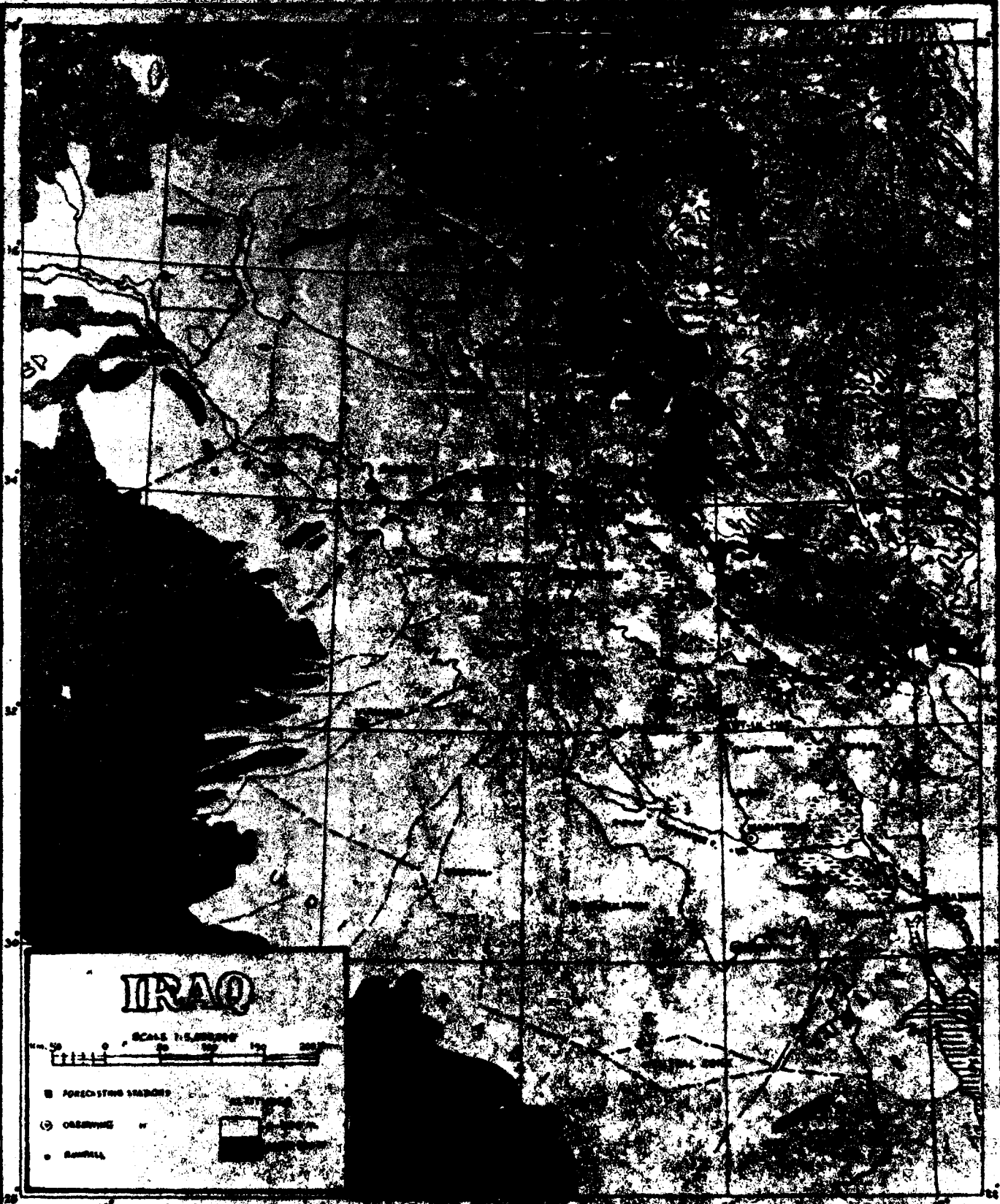
- OBSERVING STATION
- RAINFALL
- ALTITUDES
- 0-500 m
- OVER 2000 m

PRECIPITATION
 Mean Monthly Number of Days with Rain
 Period of records see page 2/3

22
 APRIL



MAY



IRAQ

SCALE 1:5,000,000



- FORECASTING STATIONS
- OBSERVING STATIONS
- RAINFALL

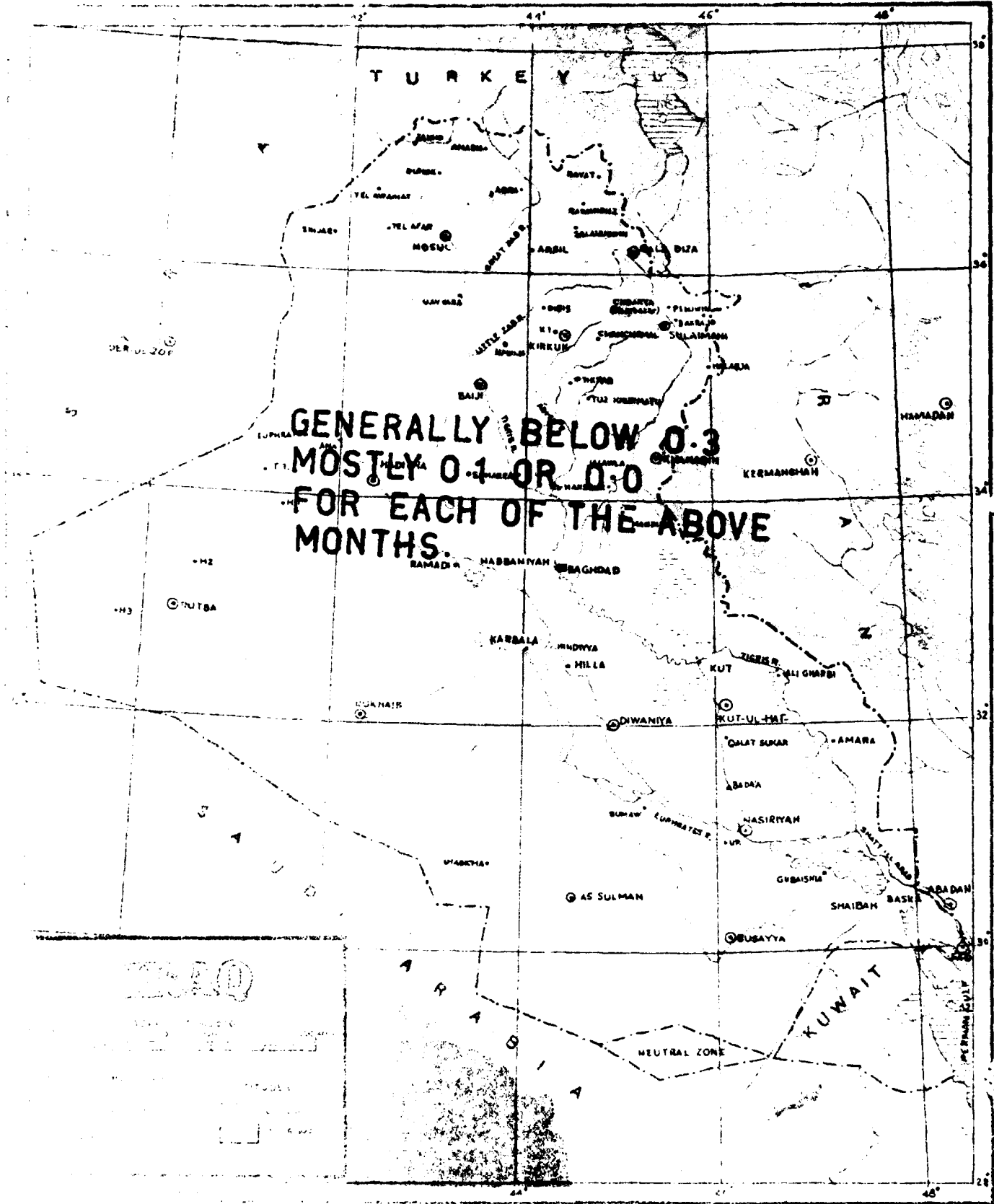


40 45 50 55 60 65 70 75 80 85 90 95

1960

24
JUN.
JUL.
AUG.
SEP.

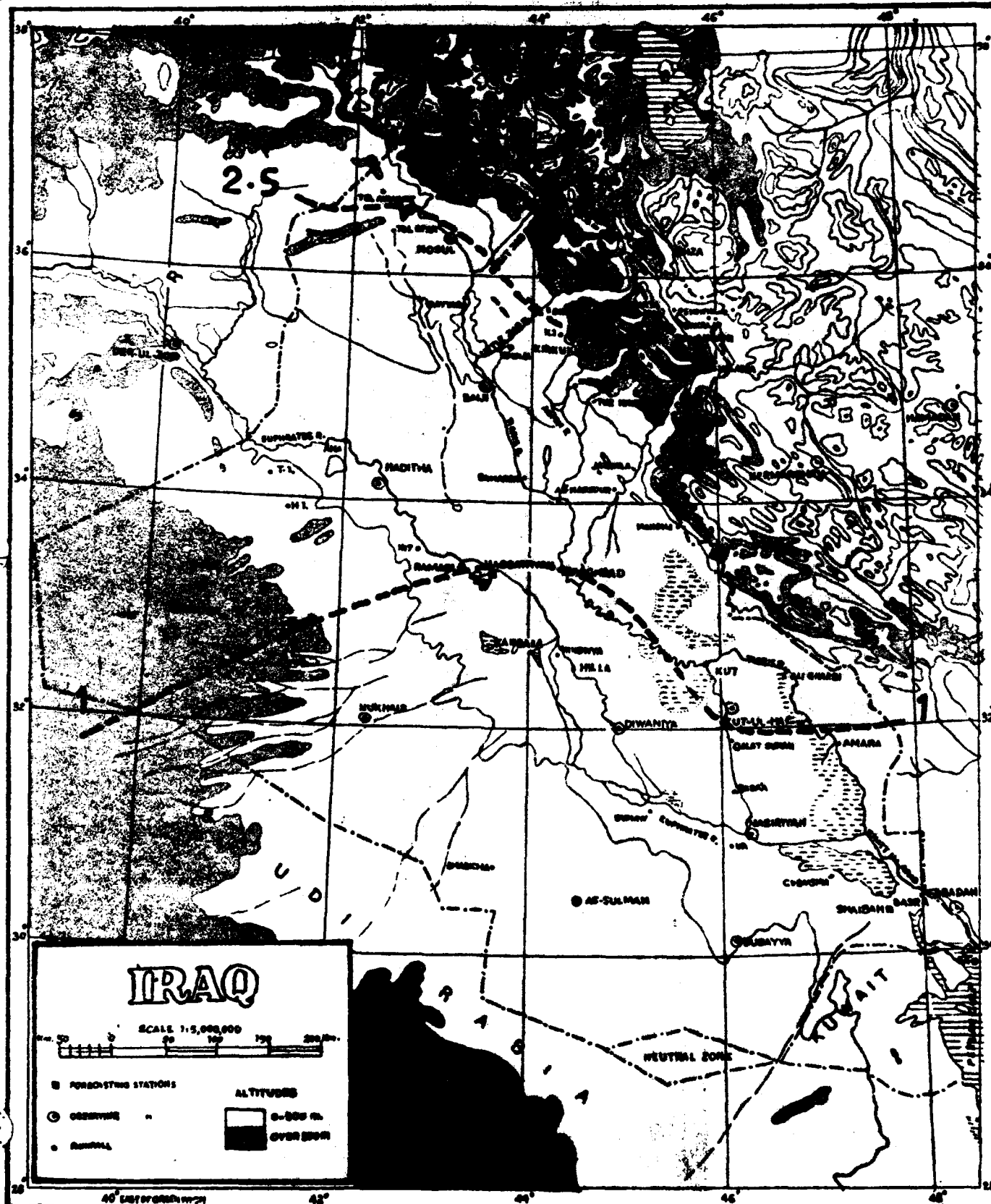
PRECIPITATION
Mean Monthly Number of Days with Rain
Period of record see page 2/3



PRECIPITATION
Mean Monthly Number of Days with Rain
 Period of records see page 2/3

25

OCTOBER



IRAQ

SCALE 1:5,000,000

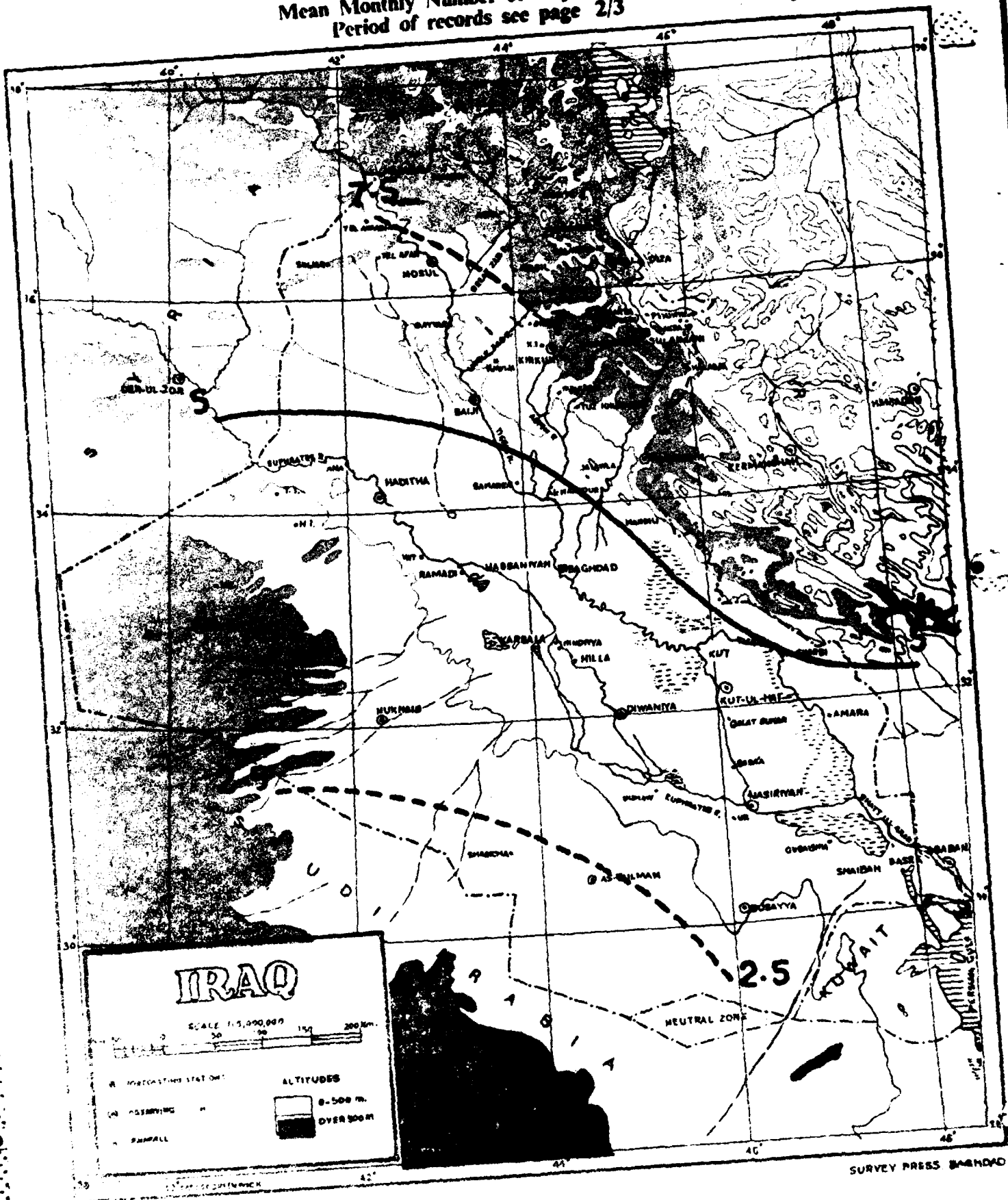
■ FORECASTING STATIONS
 ● OBSERVATORY
 ○ RAINFALL

ALTITUDES
 0-500 ft.
 OVER 500 ft.

PRECIPITATION

Mean Monthly Number of Days with Rain
Period of records see page 2/3

NOVEMBER



IRAQ

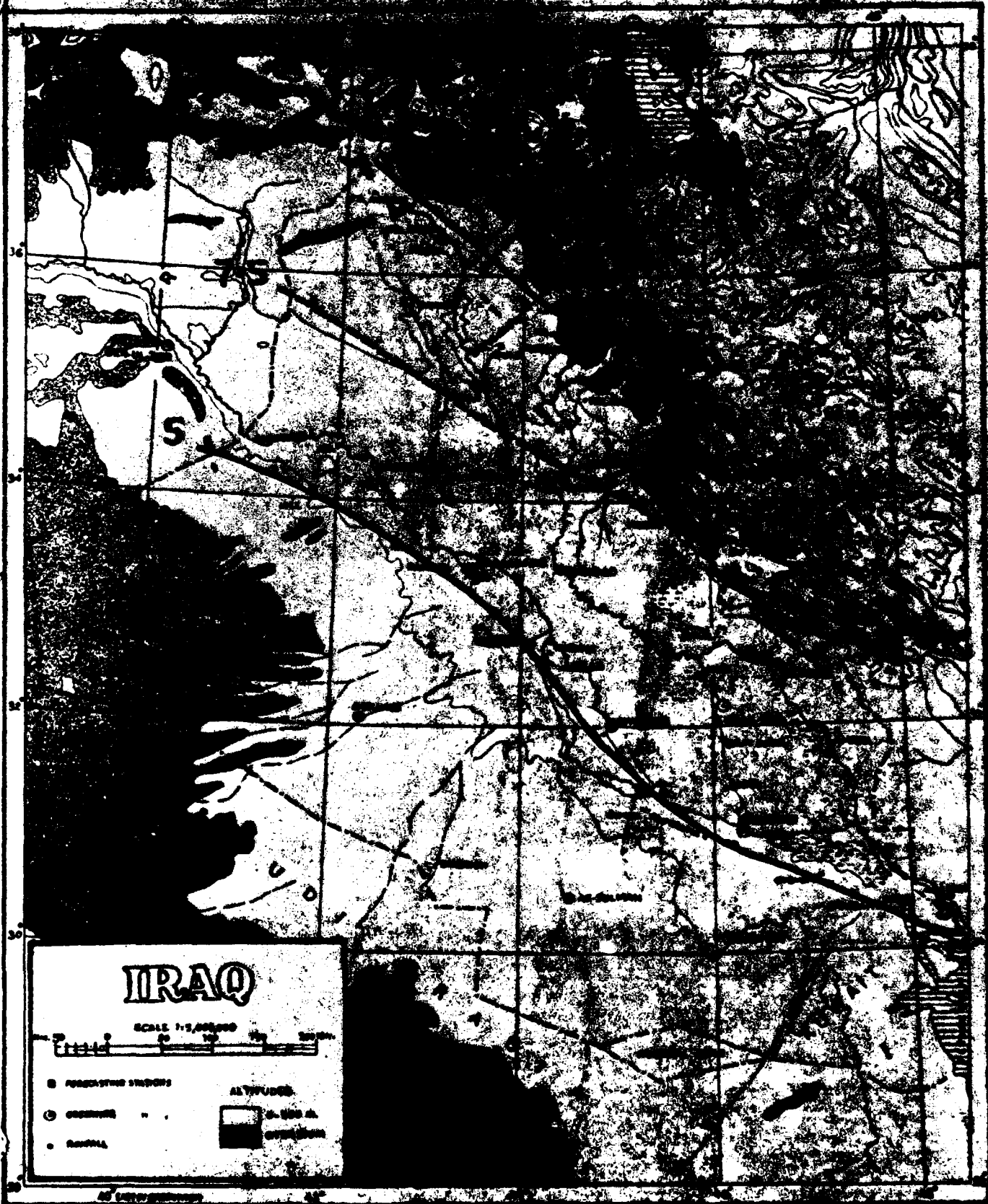
SCALE 1:5,000,000

- OBSERVING STATION
- OBSERVING "
- RAINFALL

ALTITUDES

0-500 m.
OVER 500 m.

SURVEY PRESS BAGHDAD



IRAQ

SCALE 1:50,000

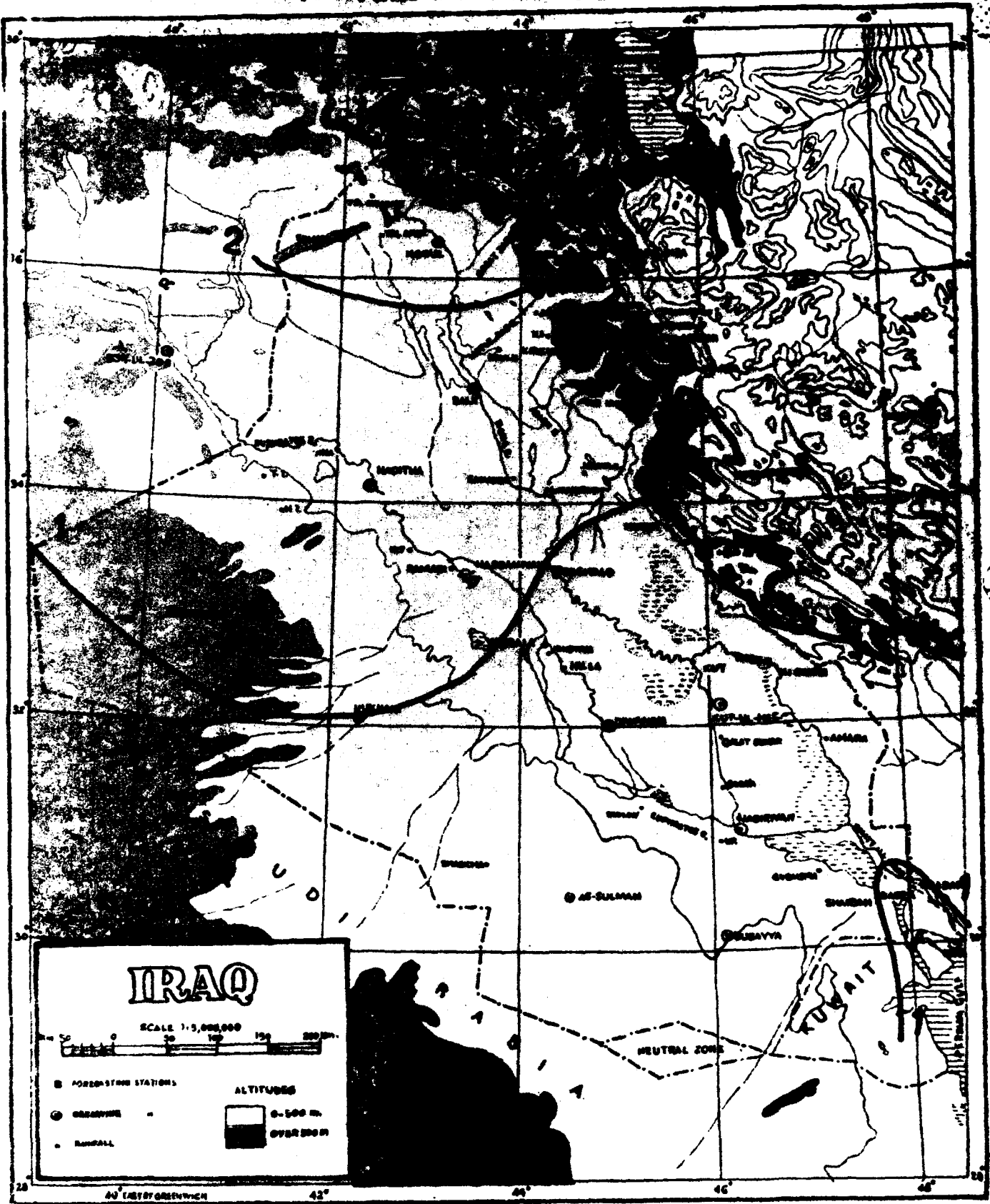


- FORECASTING STATIONS
- CONTOUR
- RAINFALL

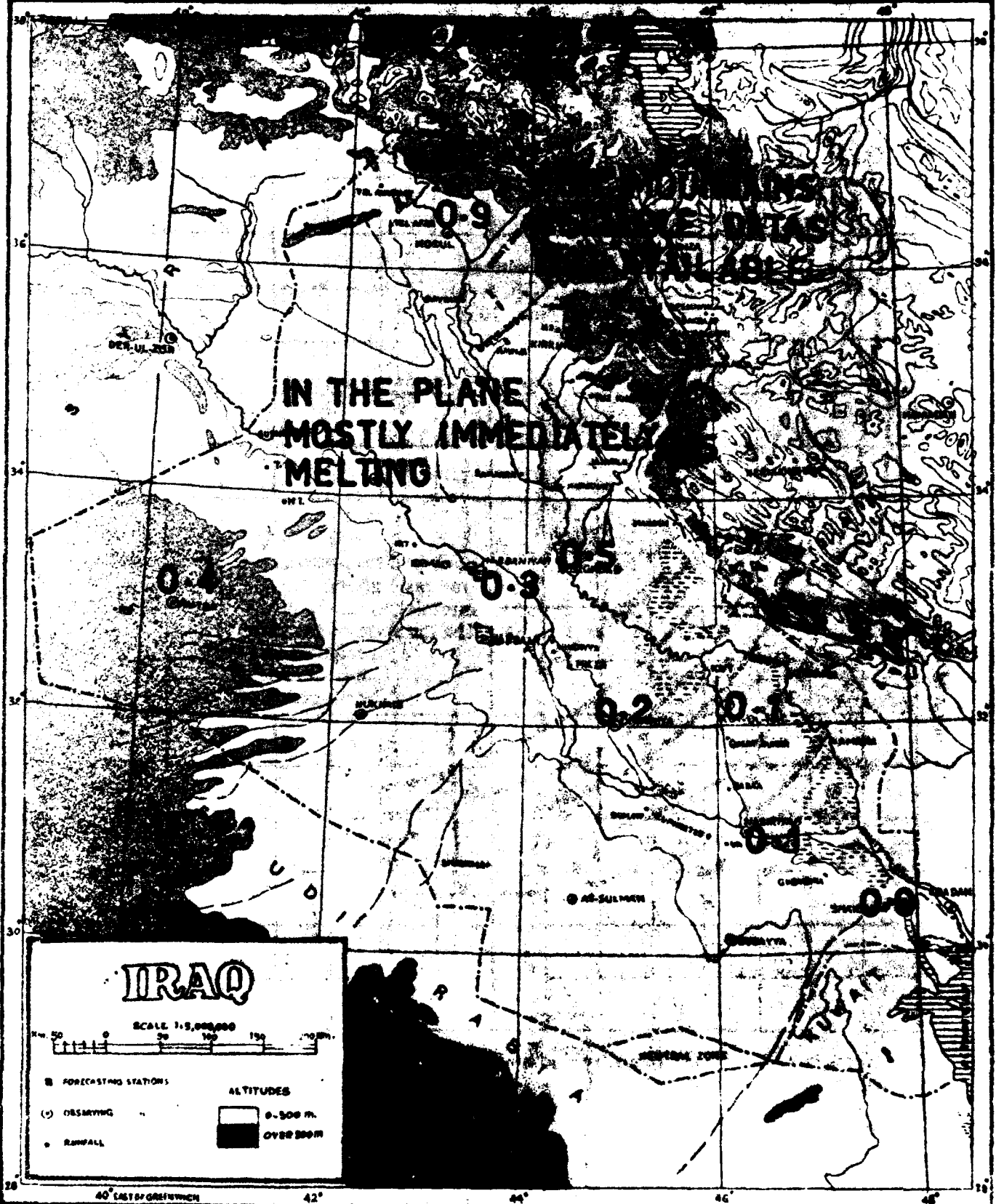
ALTITUDE



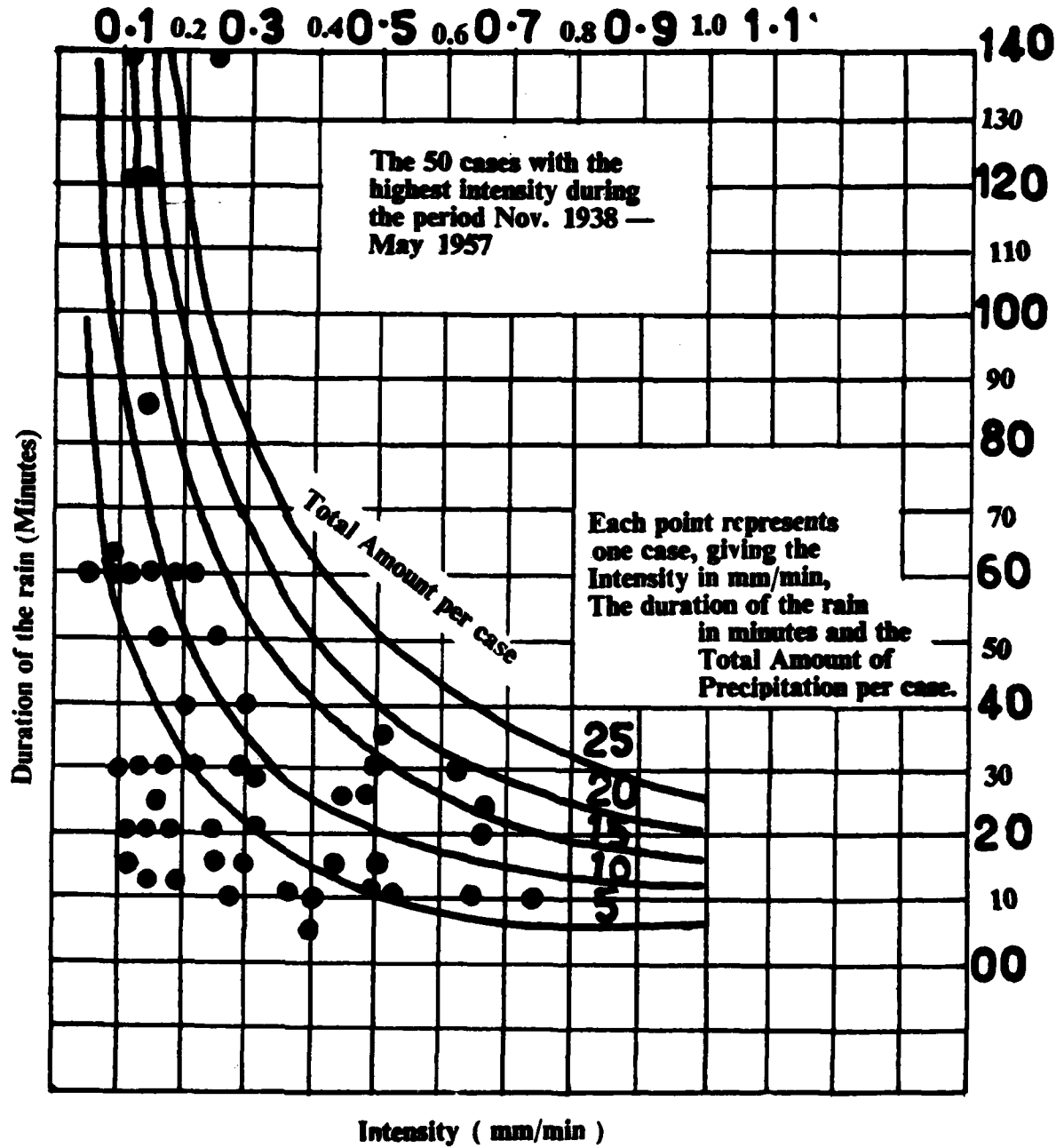
PRECIPITATION
 Mean Annual Number of Days with Hail
 Period of records see page 2/3



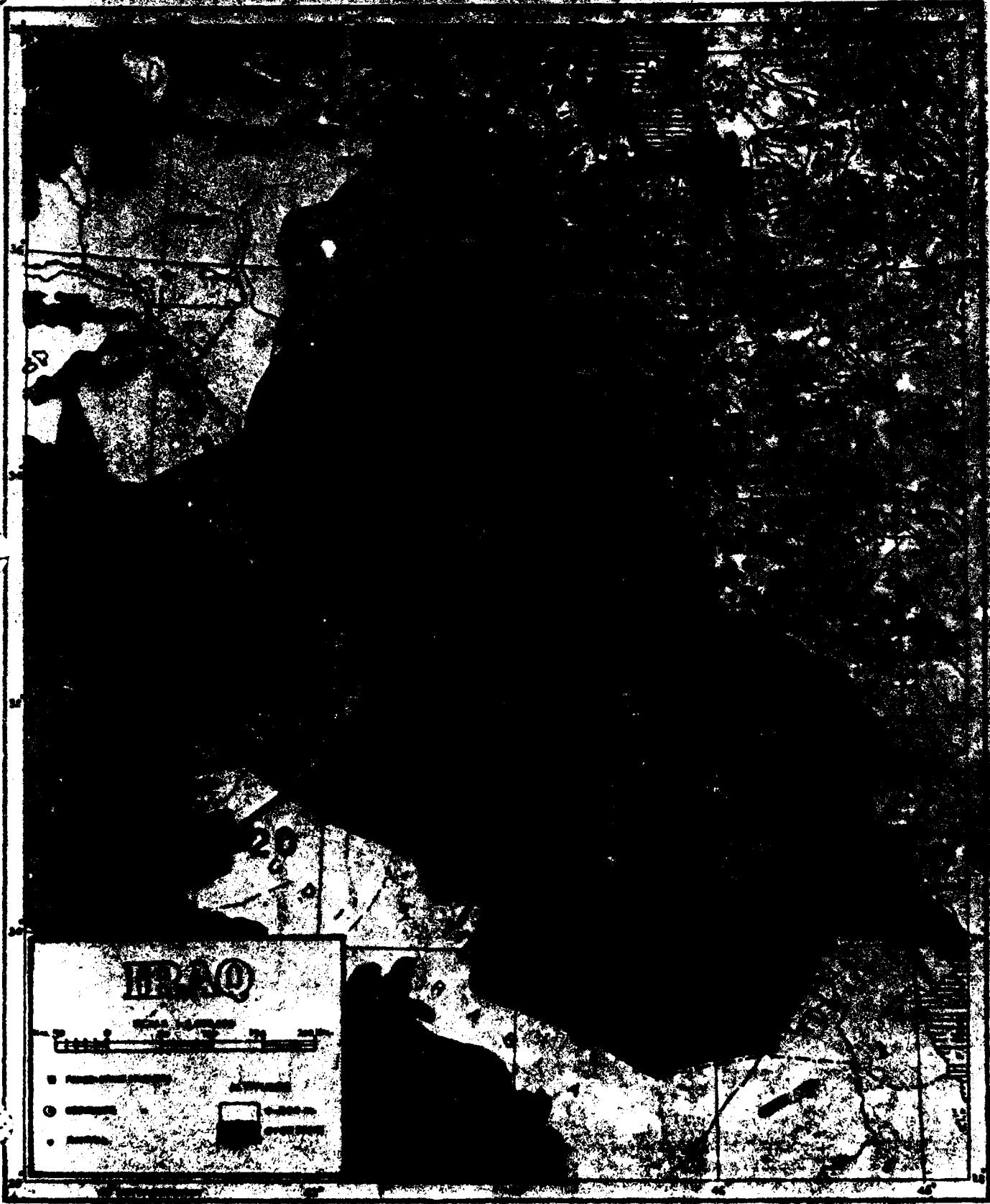
PRECIPITATION
 Mean Annual Number of Days with Snow Fall
 Period of records see page 2/3



PRECIPITATION
Intensity of Rain Fall
in Baghdad



TEMPERATURE
Map Area: Temperature
Scale: 1:500,000



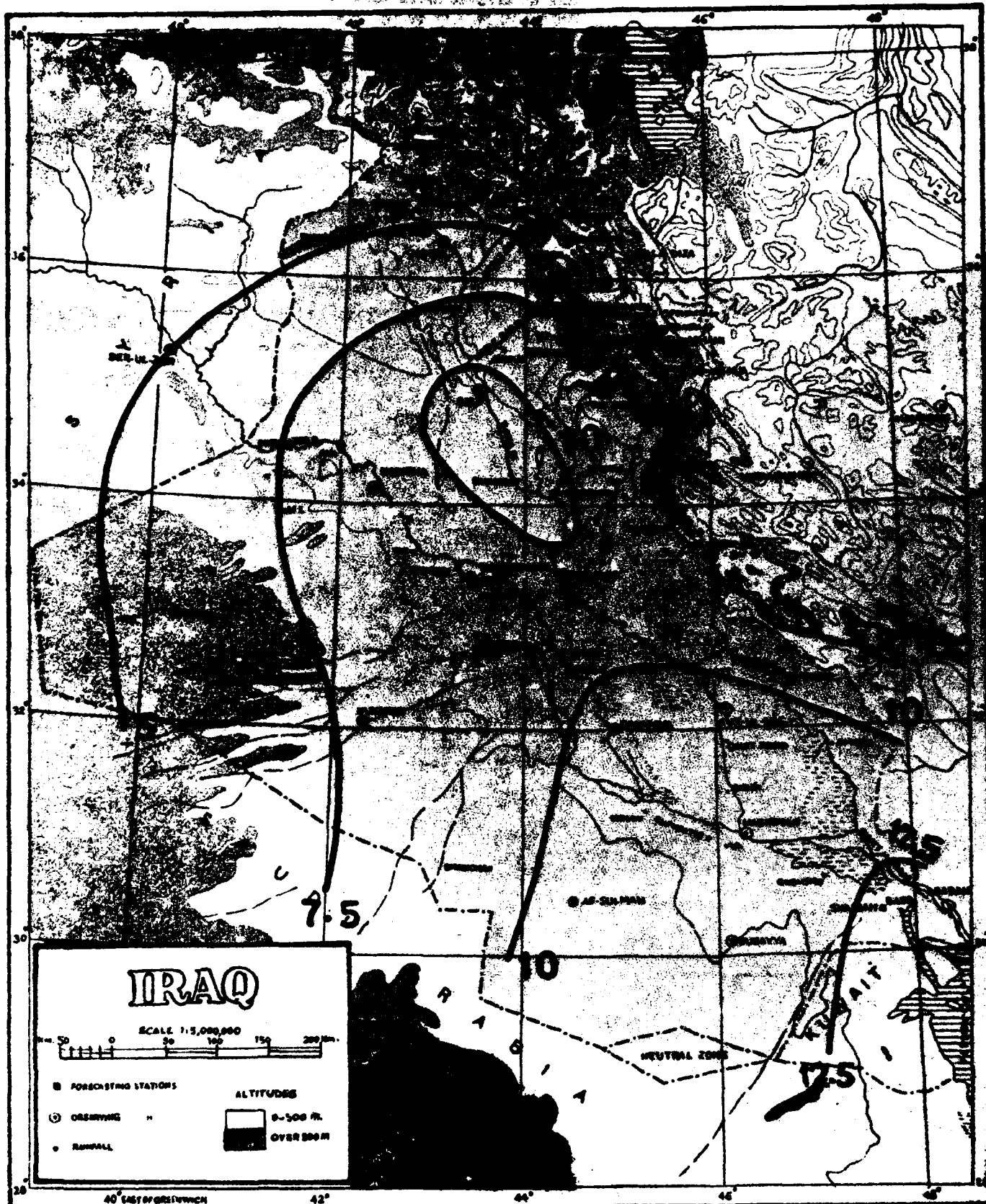
IRAQ



- Major Cities
- Minor Cities
- National Boundary
- International Boundary

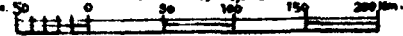
TEMPERATURE
Mean Monthly Temperature
 Period of records see page 2/3

32
JANUARY



IRAQ

SCALE 1:5,000,000



■ FORECASTING STATIONS

⊙ OBSERVING

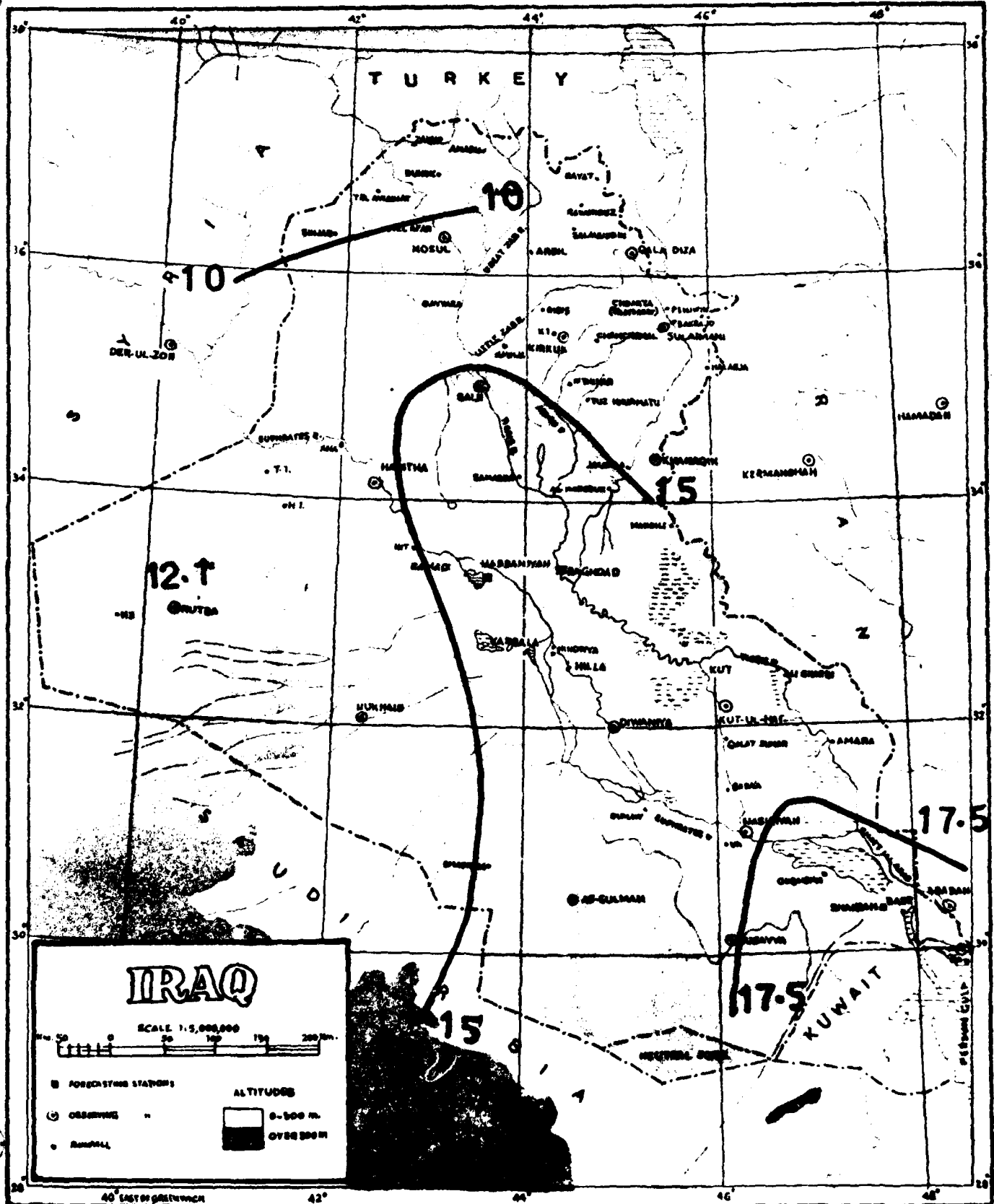
• RAINFALL

ALTITUDES



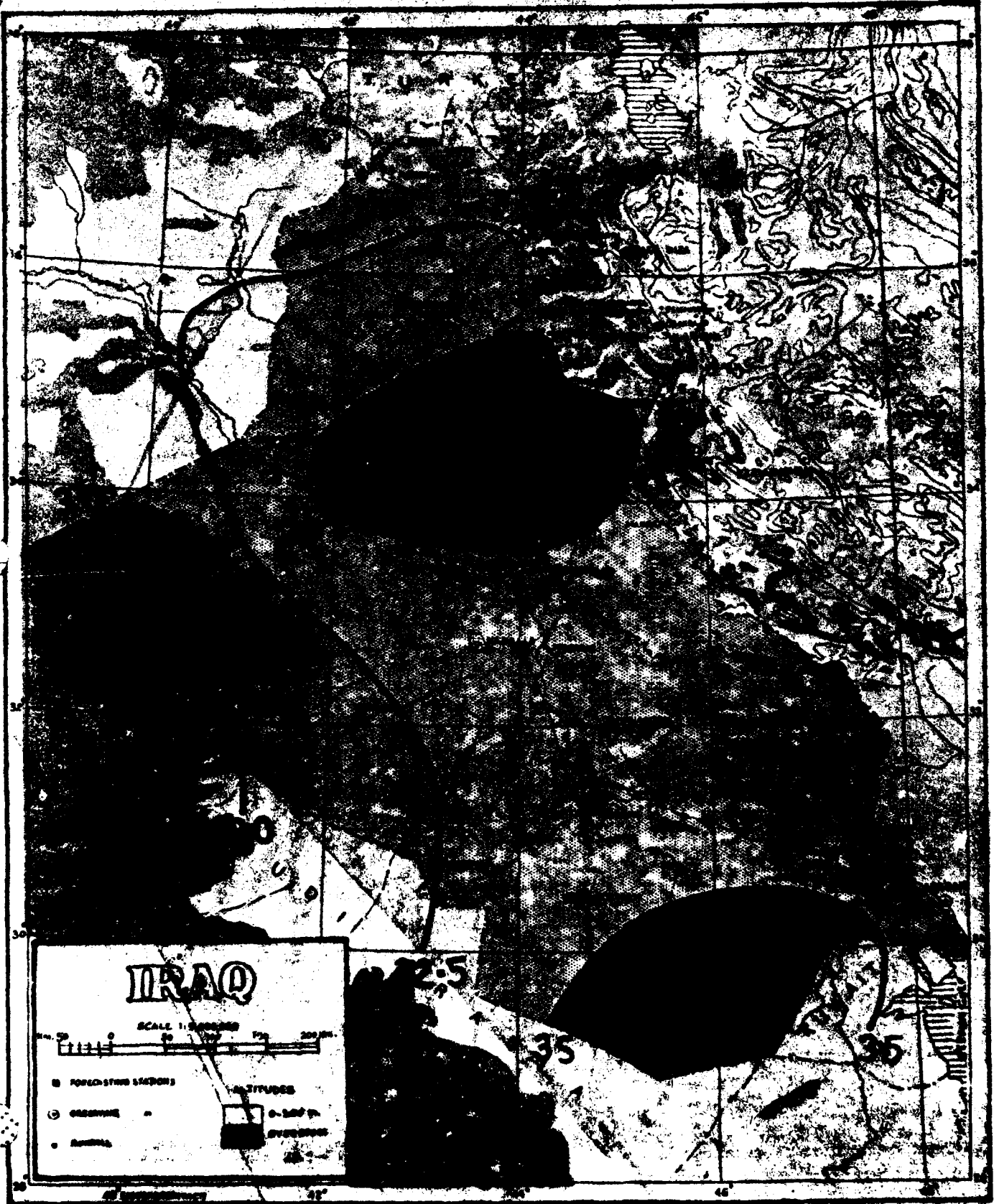
TEMPERATURE
 Mean Monthly Temperature
 Period of records see page 2/3

33
 MARCH



TEMPERATURE
Mean Monthly Temperature
Period of records see page 2/3

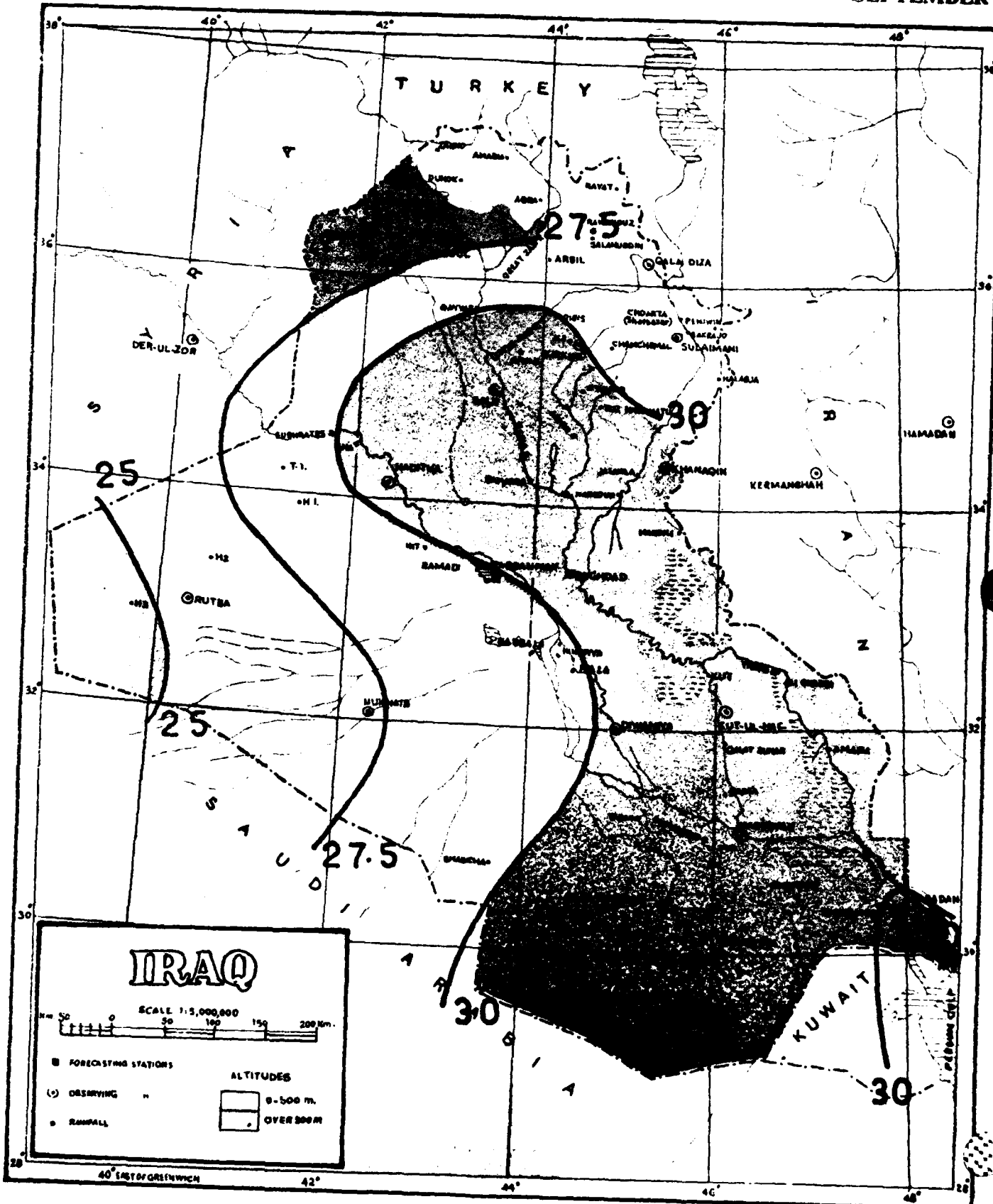
JULY



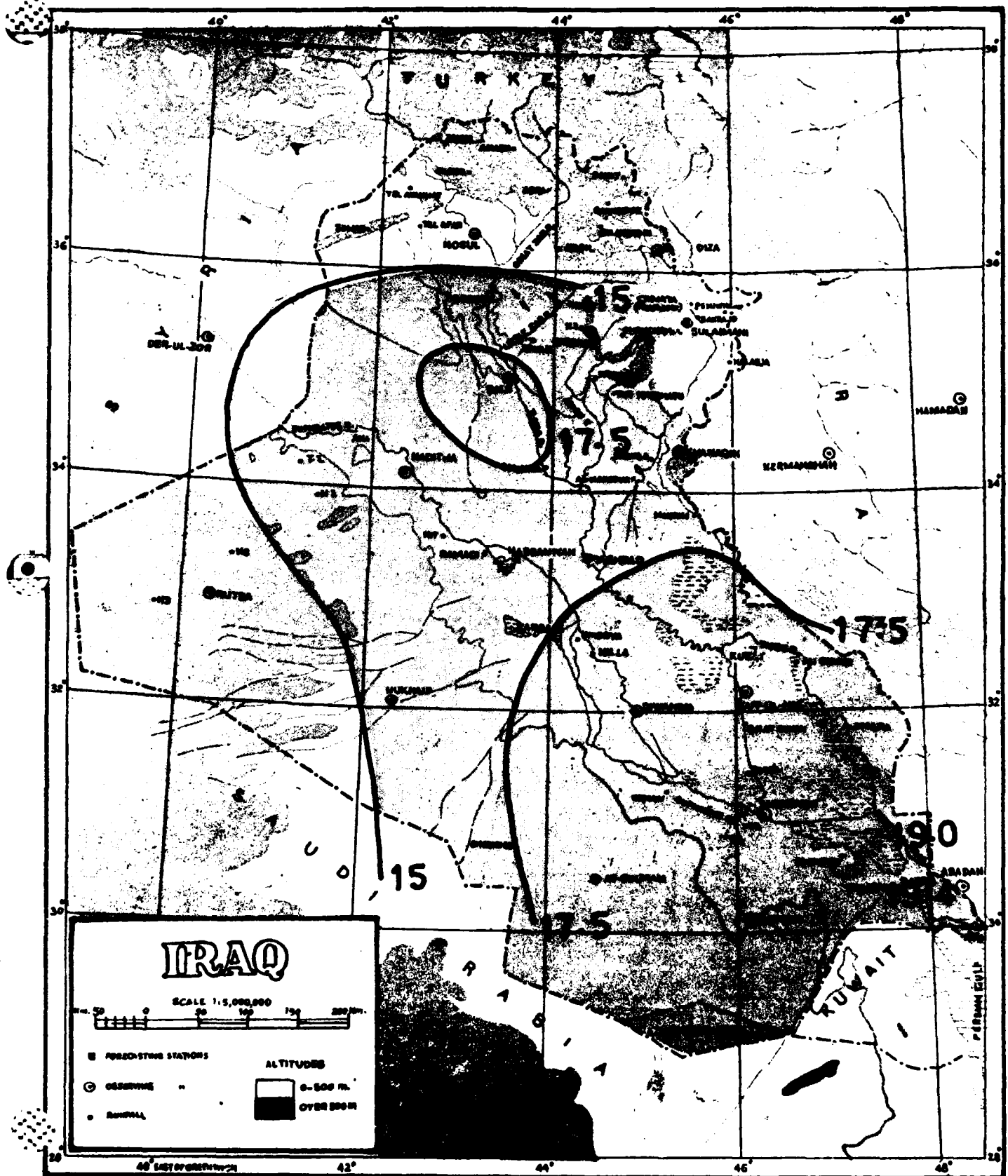
TEMPERATURE
 Mean Monthly Temperature
 period of records see page 2/3

36

SEPTEMBER



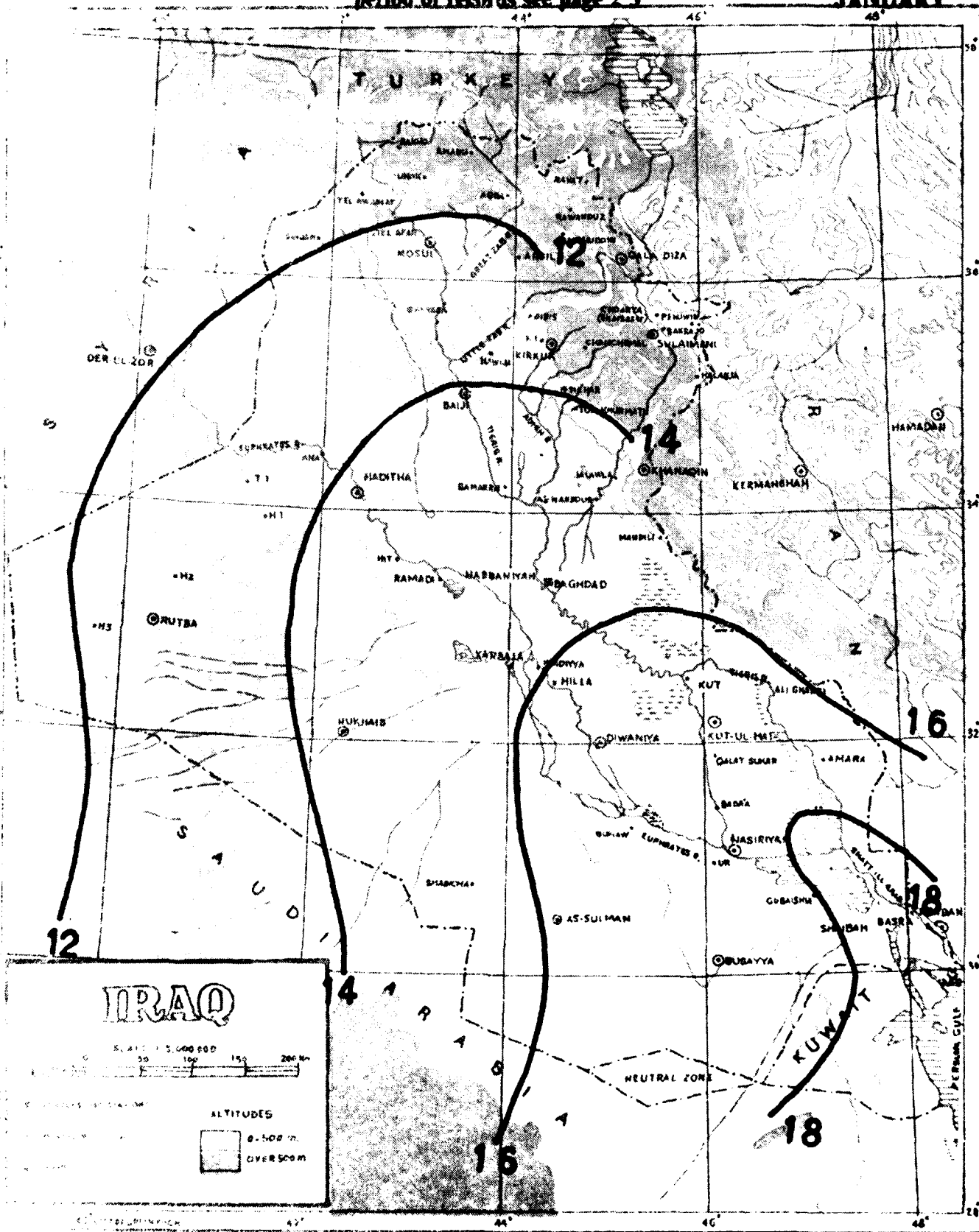
TEMPERATURE
 Mean Monthly Temperature
 period of records see page 2/3



TEMPERATURE
Mean Monthly Maximum (C')
 period of records see page 23

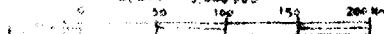
38

JANUARY



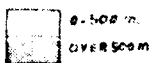
IRAQ

S. A. 1:5,000,000



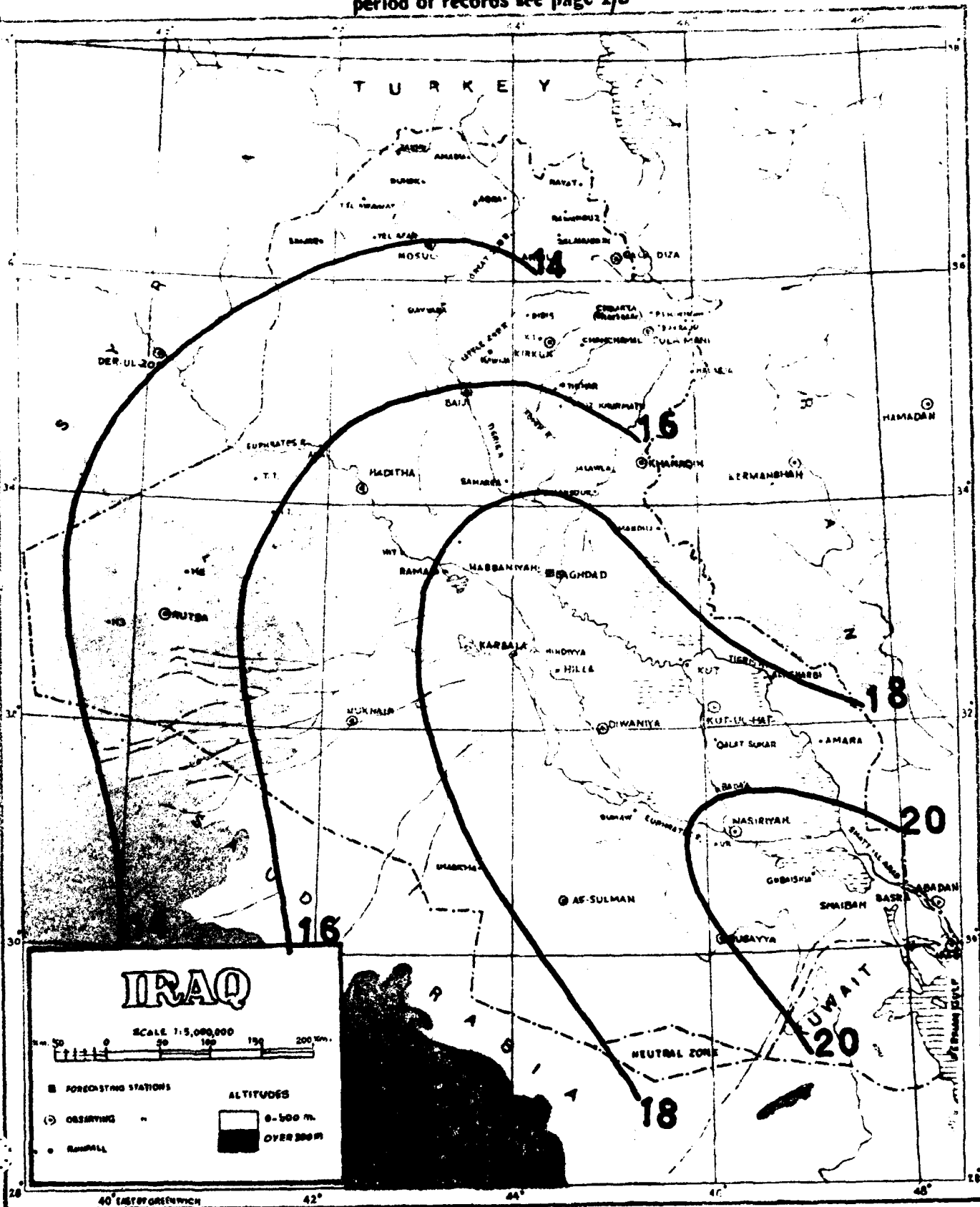
STIPPLES IN SHADES

ALTITUDES



TEMPERATURE
Mean Monthly Maximum (C°)
 period of records see page 2/3

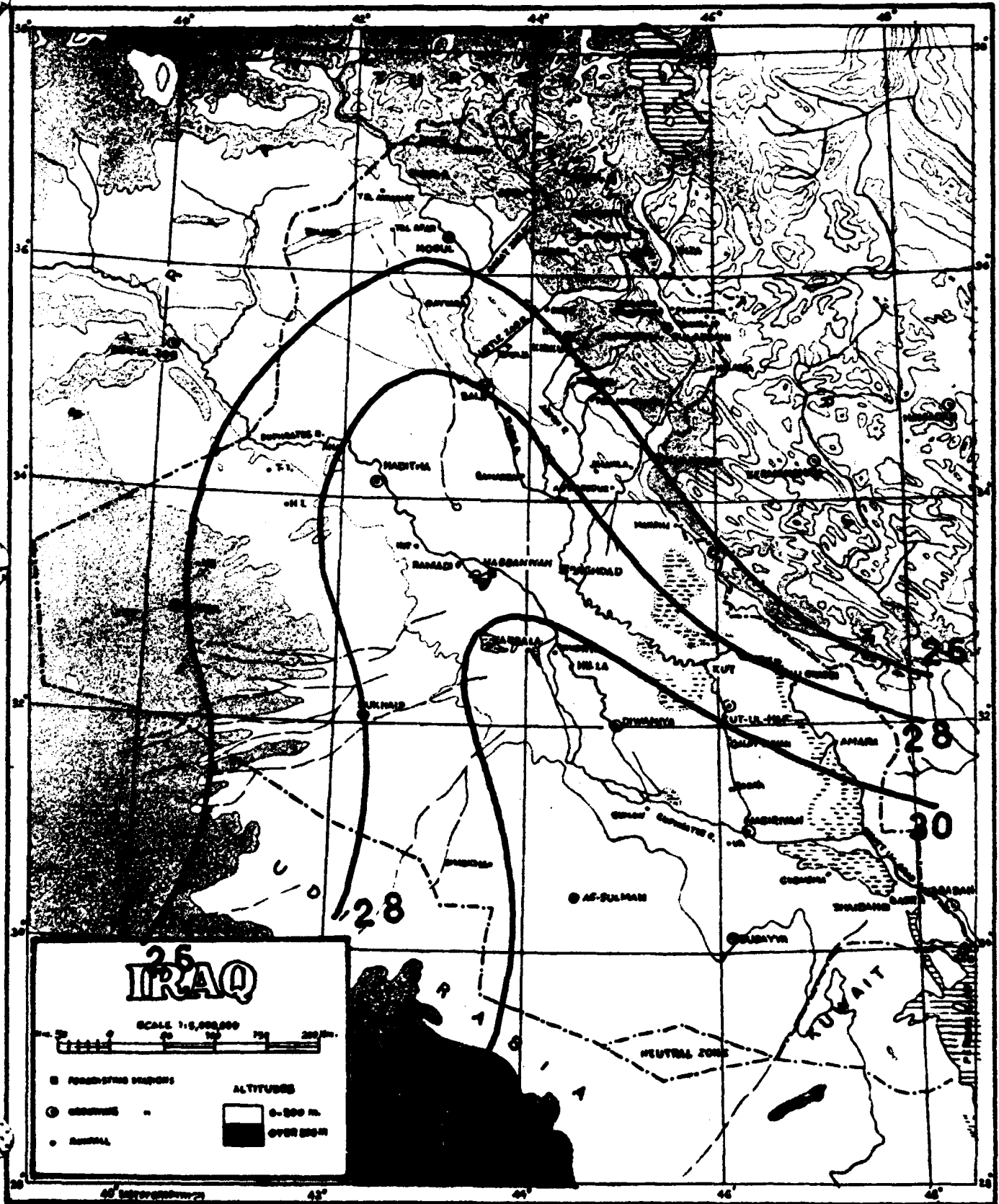
39
FEBRUARY



TEMPERATURE
Mean Monthly Maximum (C°)
 period of records see page 2/3

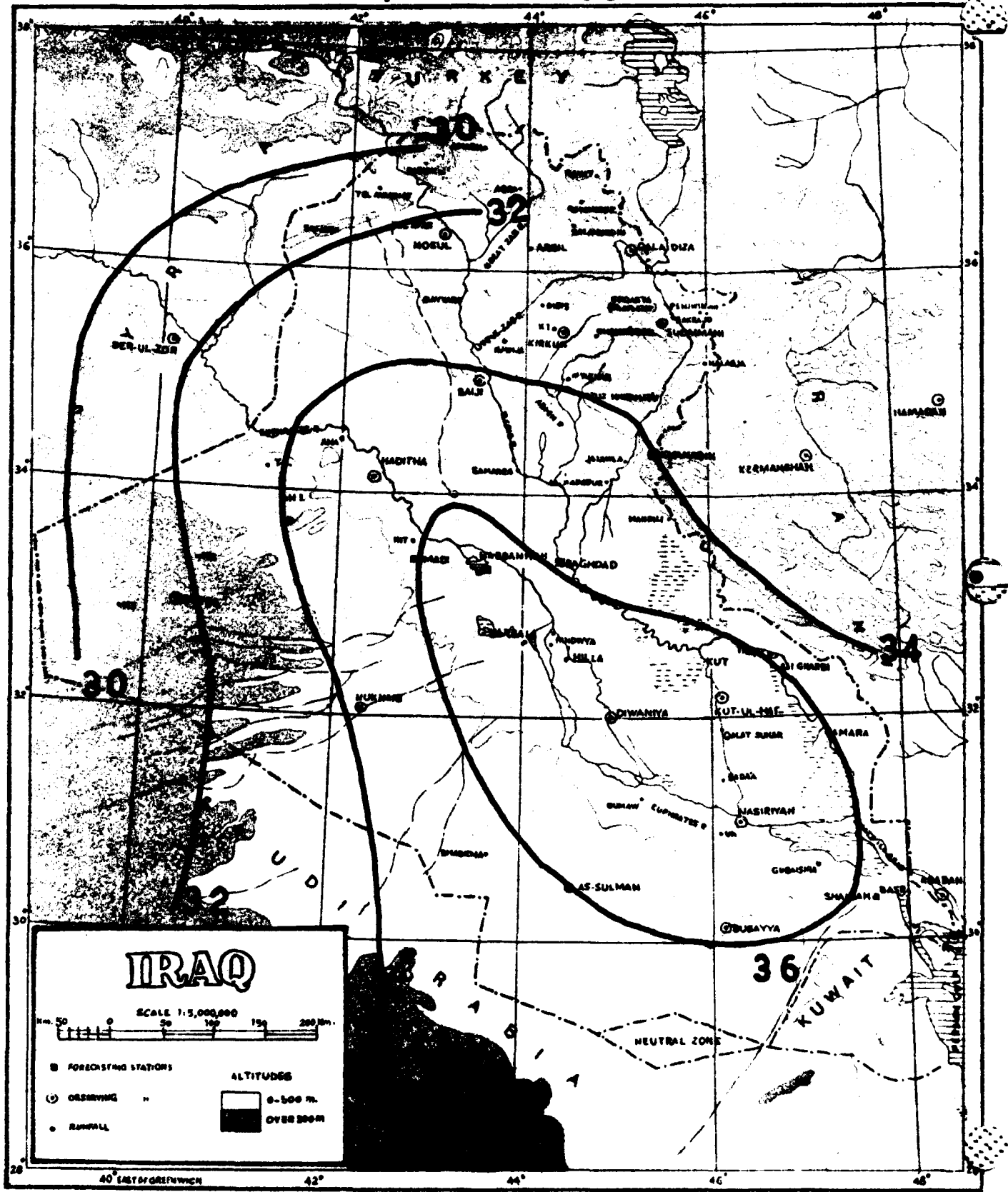
41

APRIL



TEMPERATURE
Mean Monthly Maximum (C°)
 period of records see page 2/3

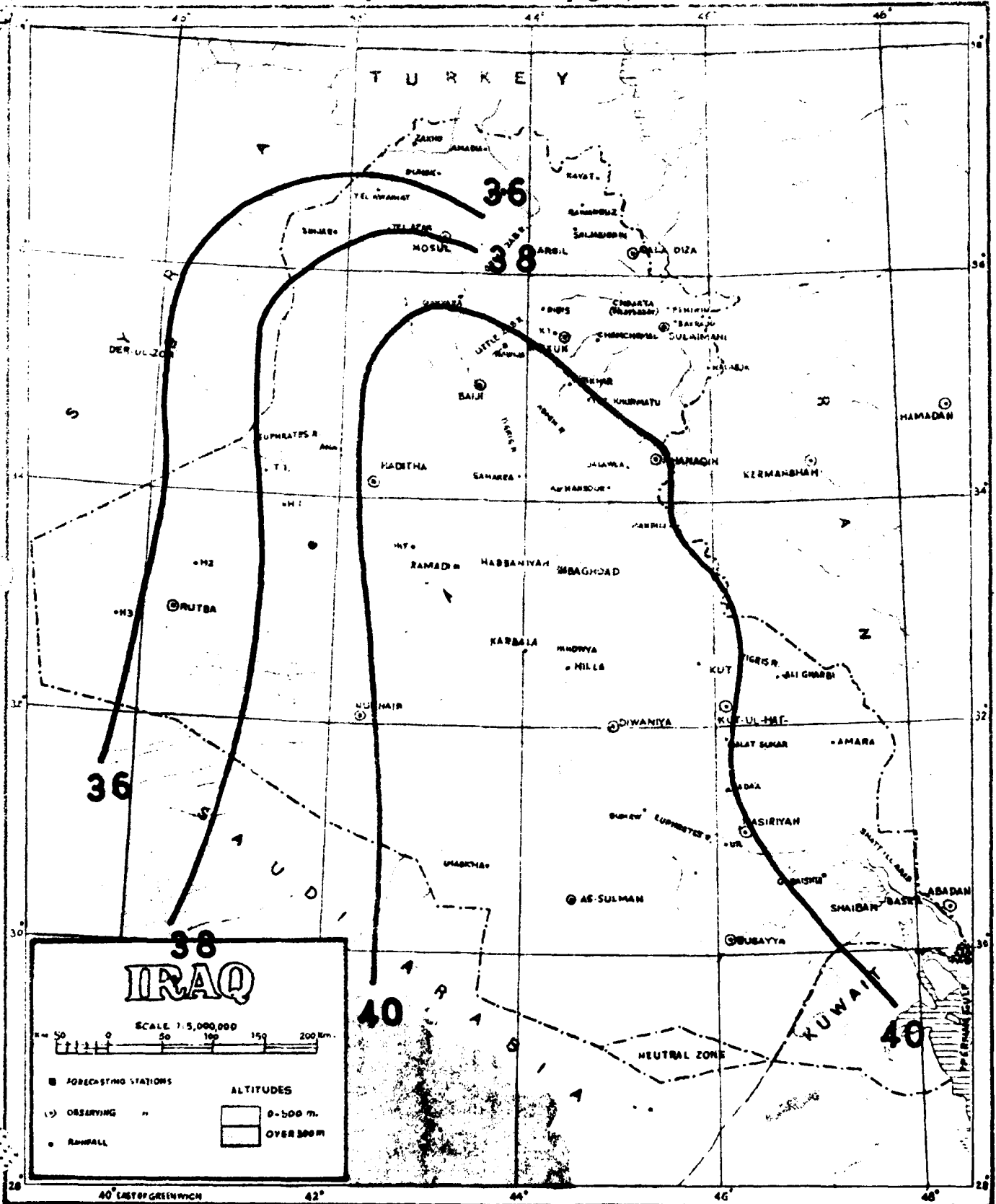
42
MAY



TEMPERATURE
 Mean Monthly Maximum (C)
 period of records see page 2/3

43

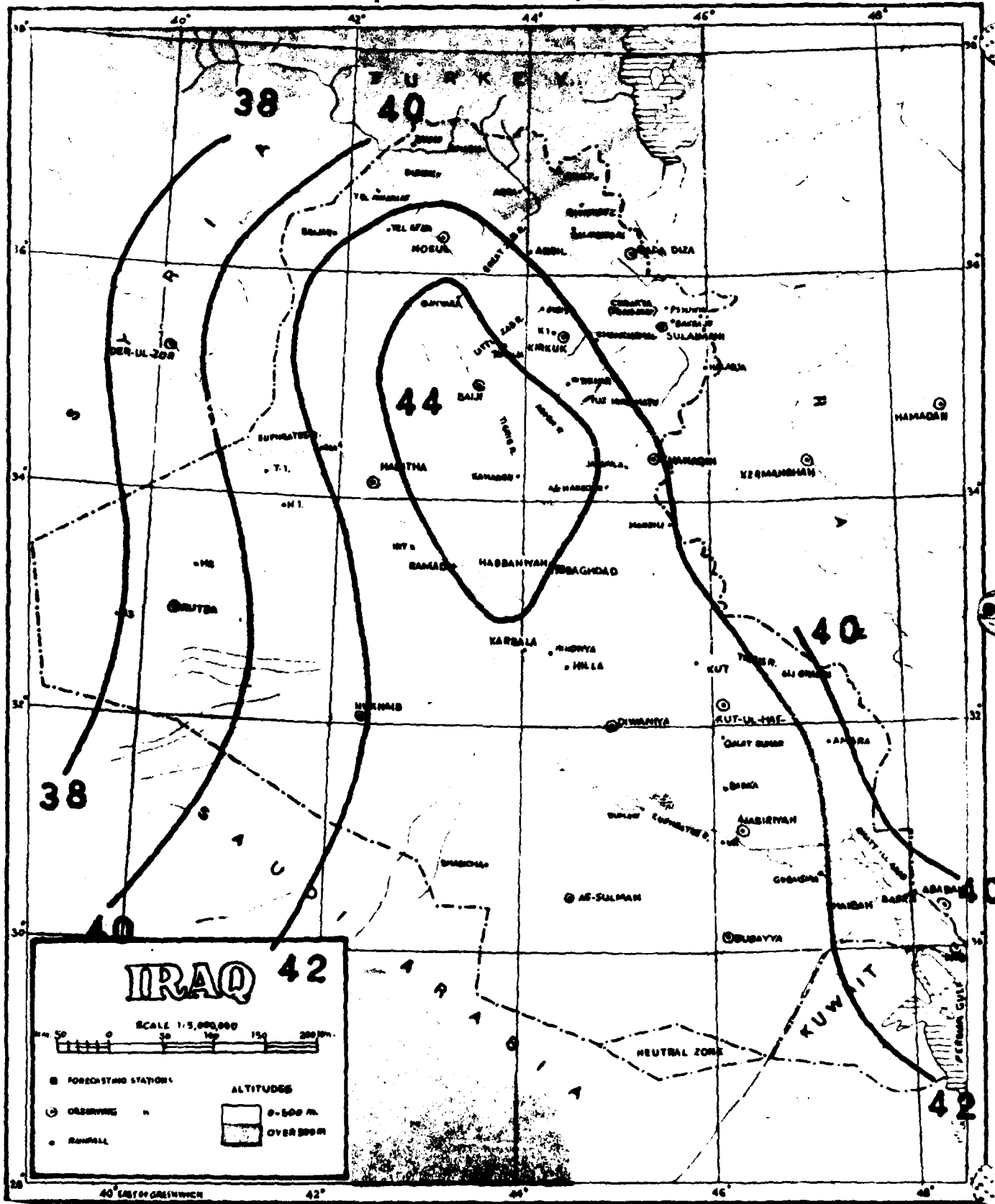
JUNE



TEMPERATURE
 Mean Monthly Maximum (C)
 period of records see page 2/3

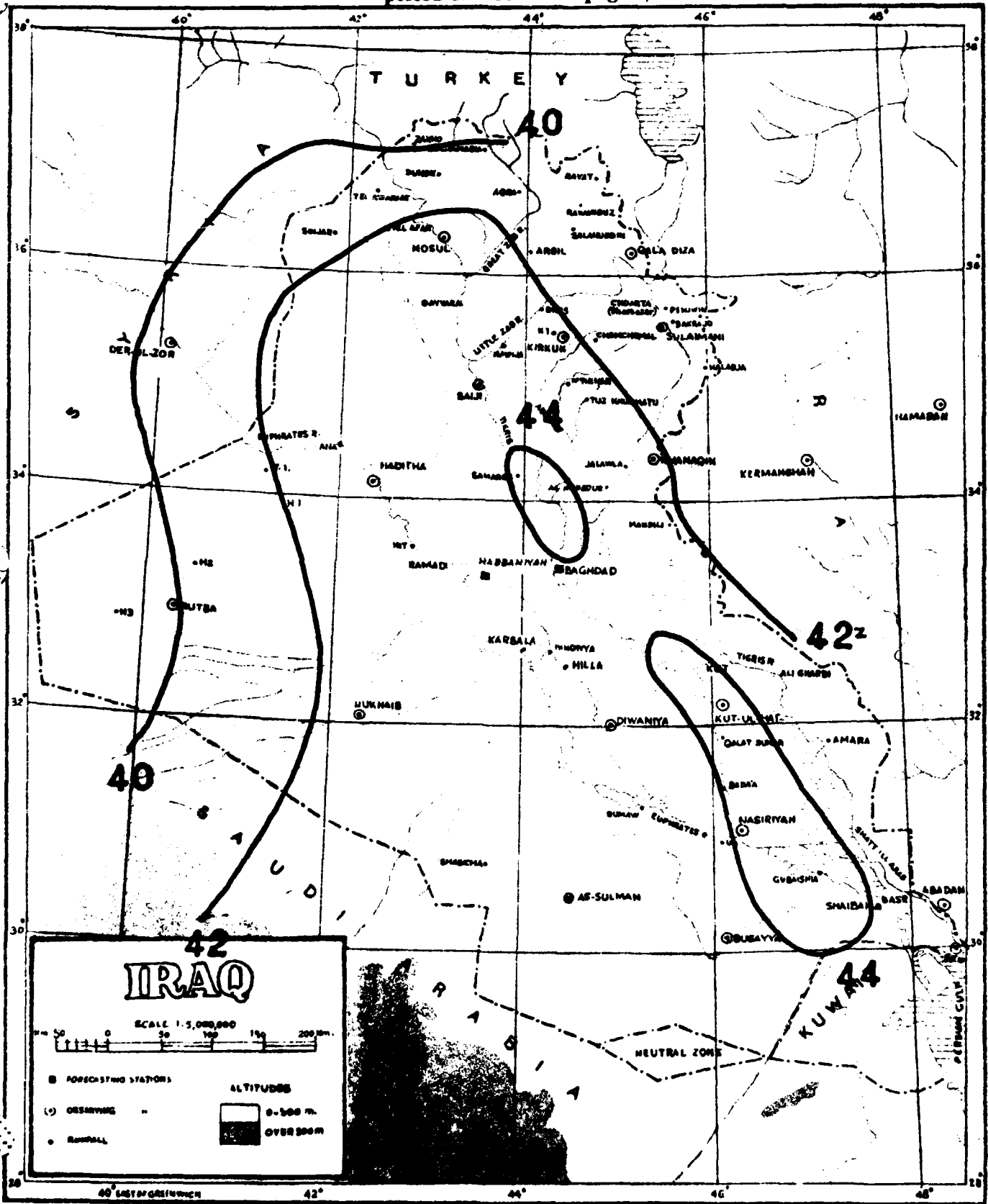
44

JULY



TEMPERATURE
 Mean Monthly Maximum (C°)
 period of records see page 2/3

45
 AUGUST



IRAQ

SCALE 1:5,000,000

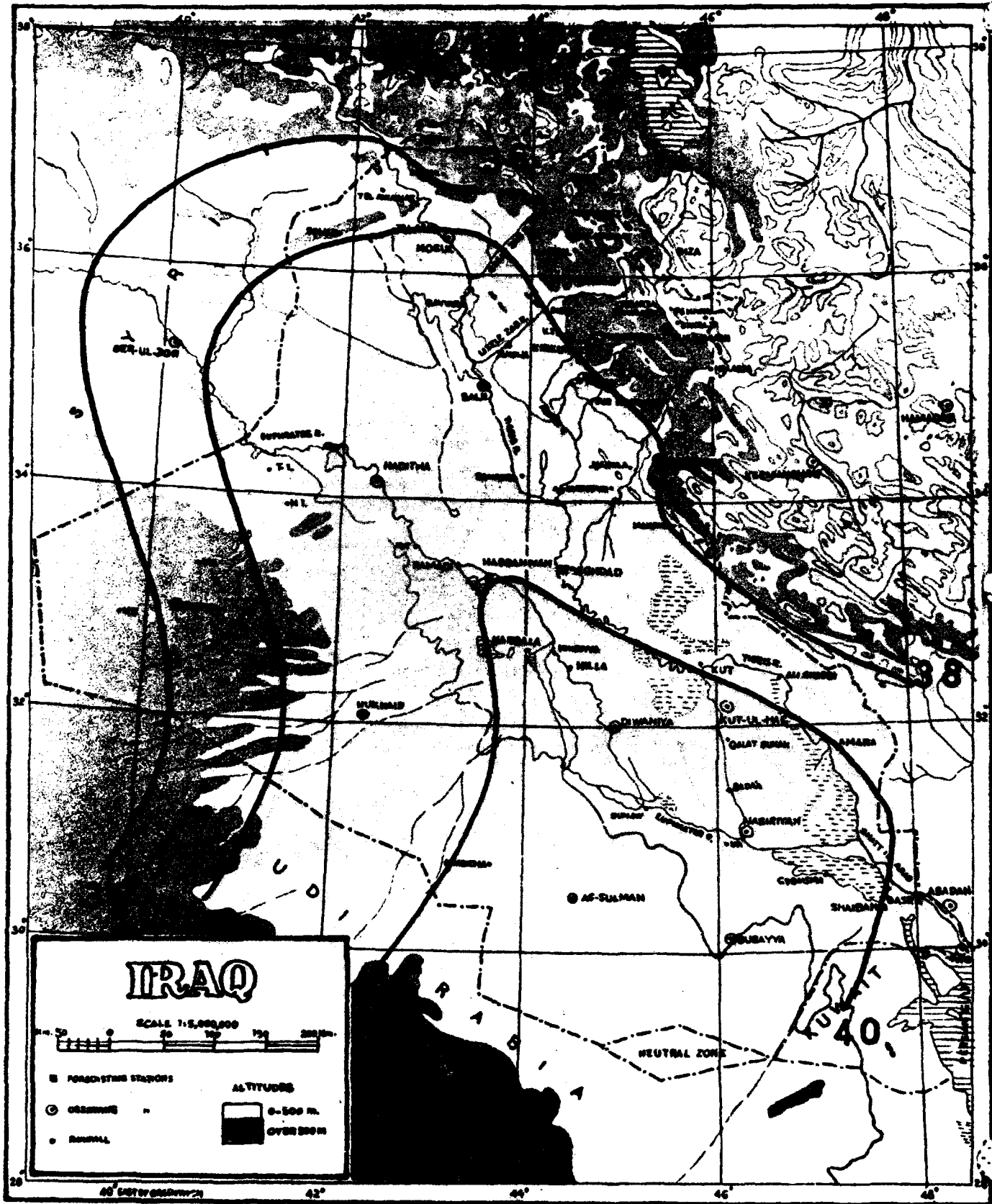
0 50 100 150 200 KM

■ FORECASTING STATIONS
 (○) OBSERVING STATIONS
 ● RAINFALL

ALTITUDES
 0-500 m.
 OVER 500m

TEMPERATURE
Mean Monthly Maximum (°C)
 period of records see page 2/3

SEPTEMBER



OCTOBER



IRAQ

SCALE 1:4,000,000

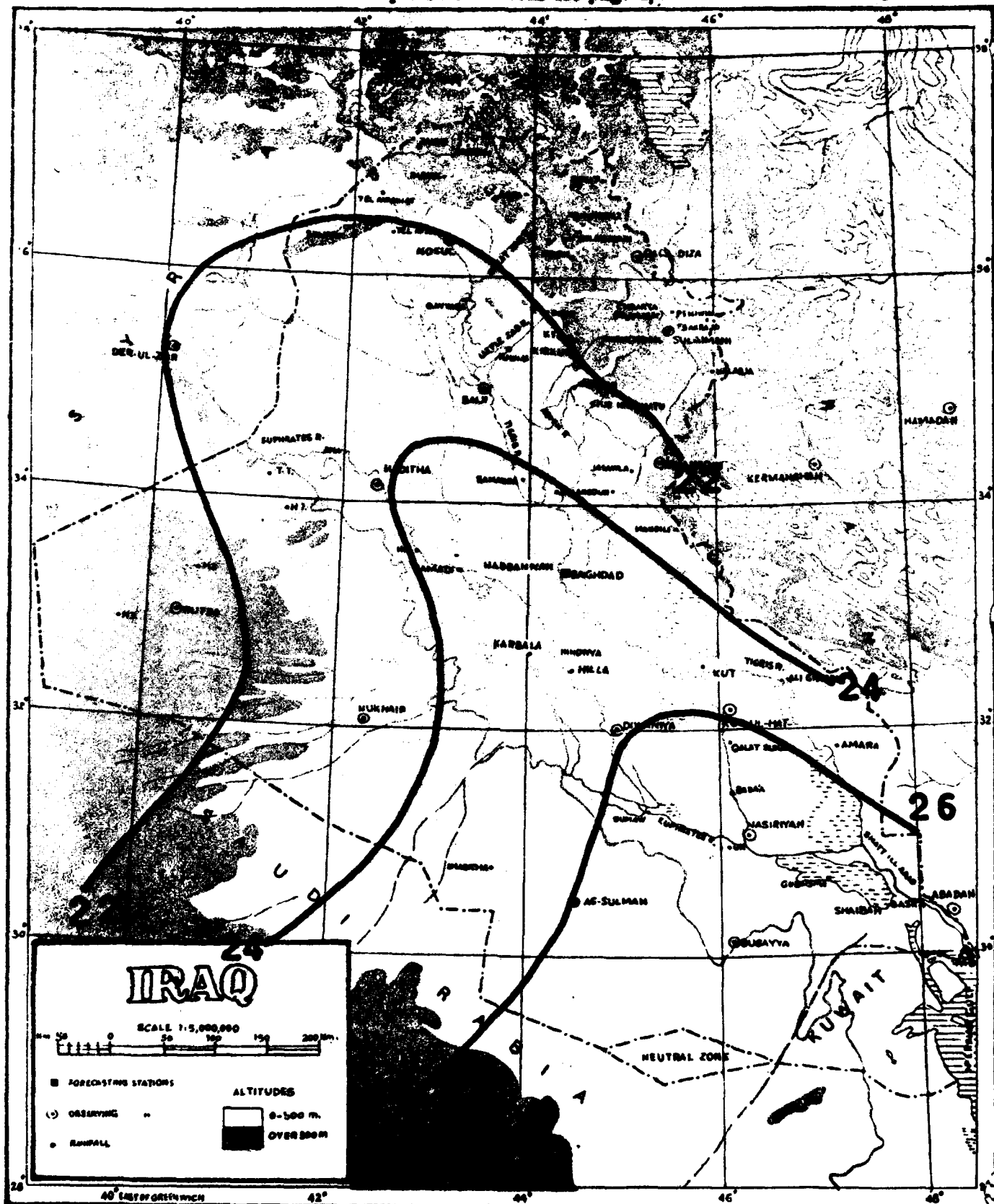


- POPULATED AREAS
- RAILROADS
- RIVERS

TEMPERATURE
Mean Monthly Maximum (C°)
 period of records see page 2/3

48

NOVEMBER



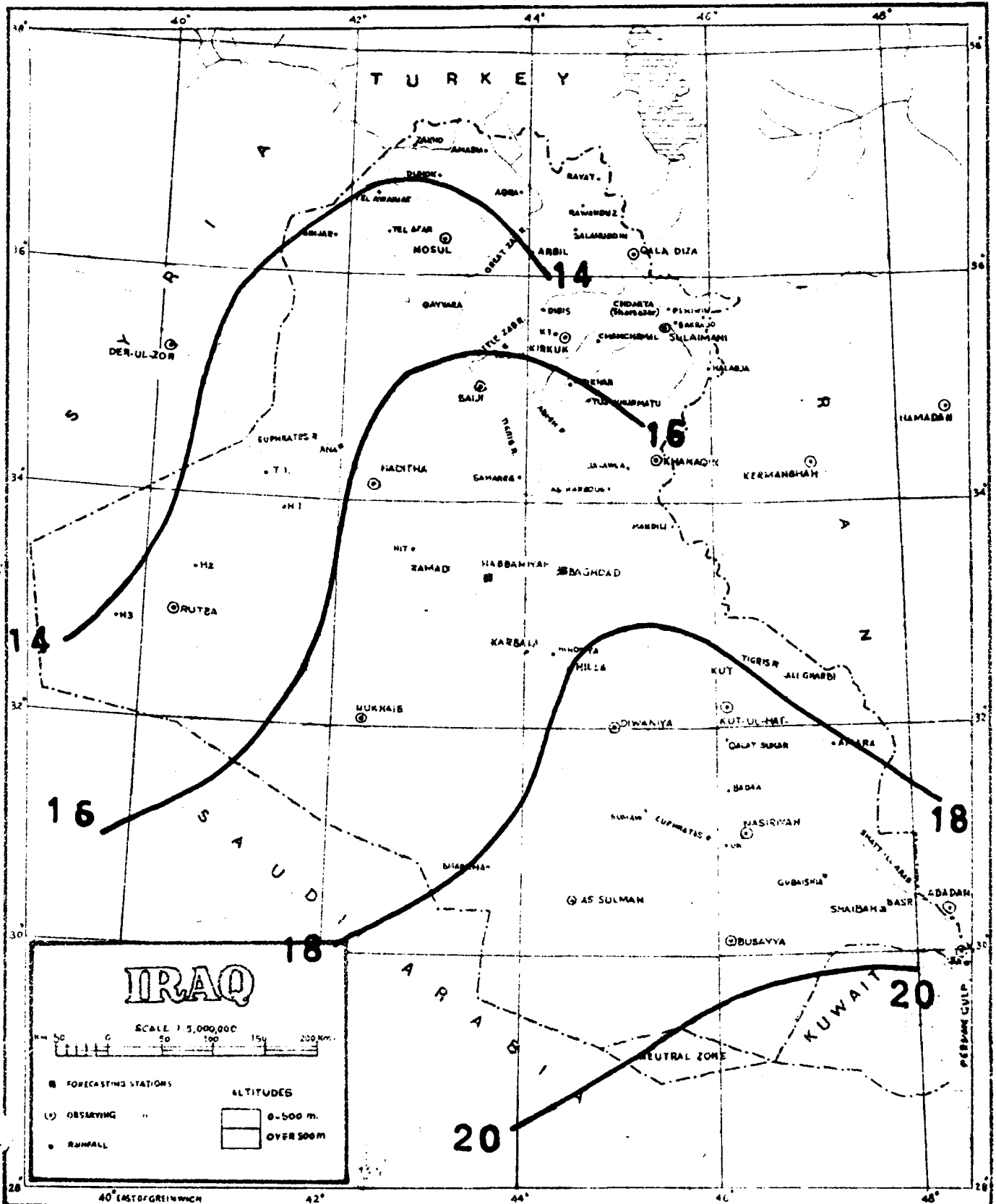
IRAQ

SCALE 1:5,000,000

- FORECASTING STATIONS
 - (○) OBSERVING STATIONS
 - RAINFALL
- ALTITUDES
- 0-500 m.
 - OVER 500 m.

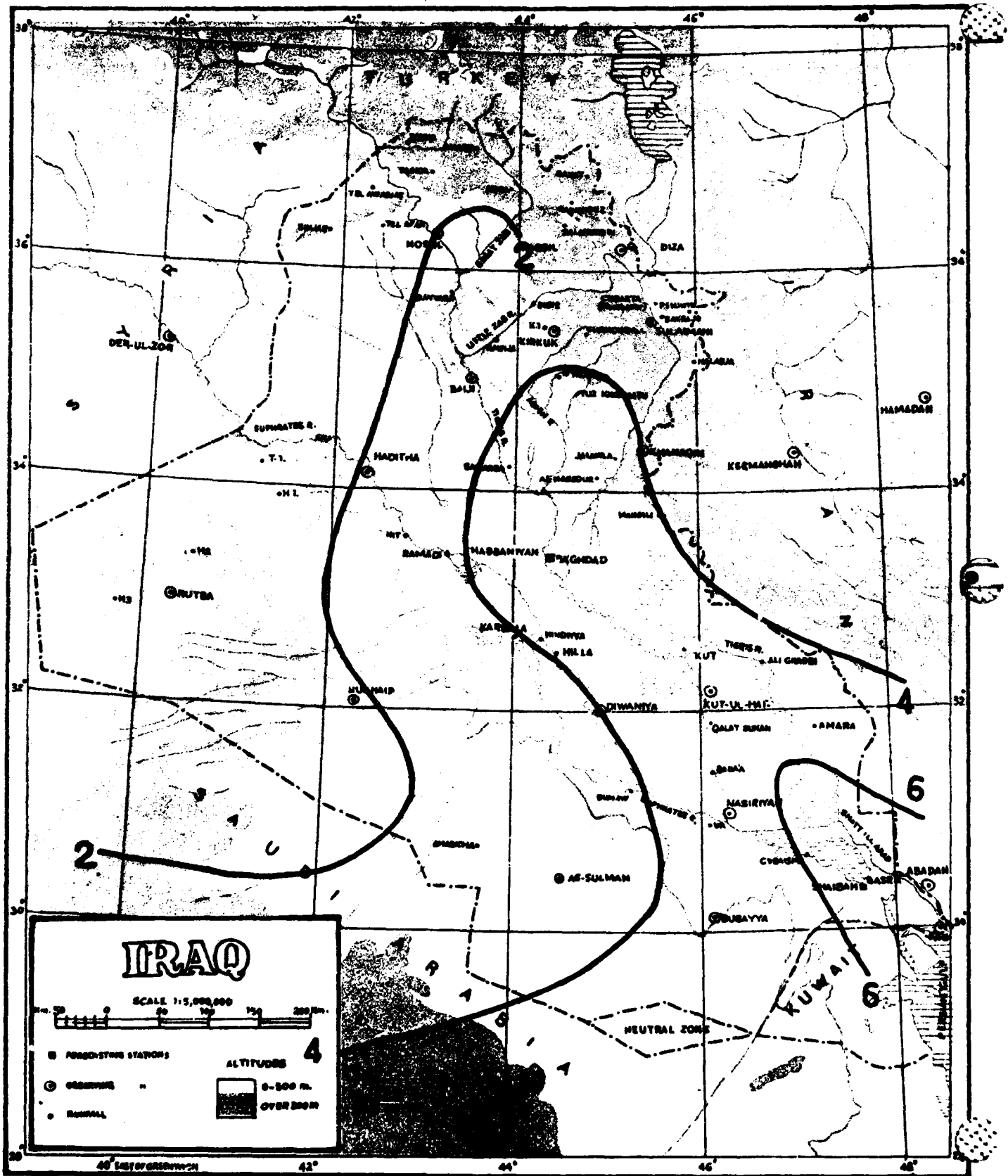
TEMPERATURE
 Mean Monthly Maximum (C°)
 period of records see page 2/3

49
 DECEMBER



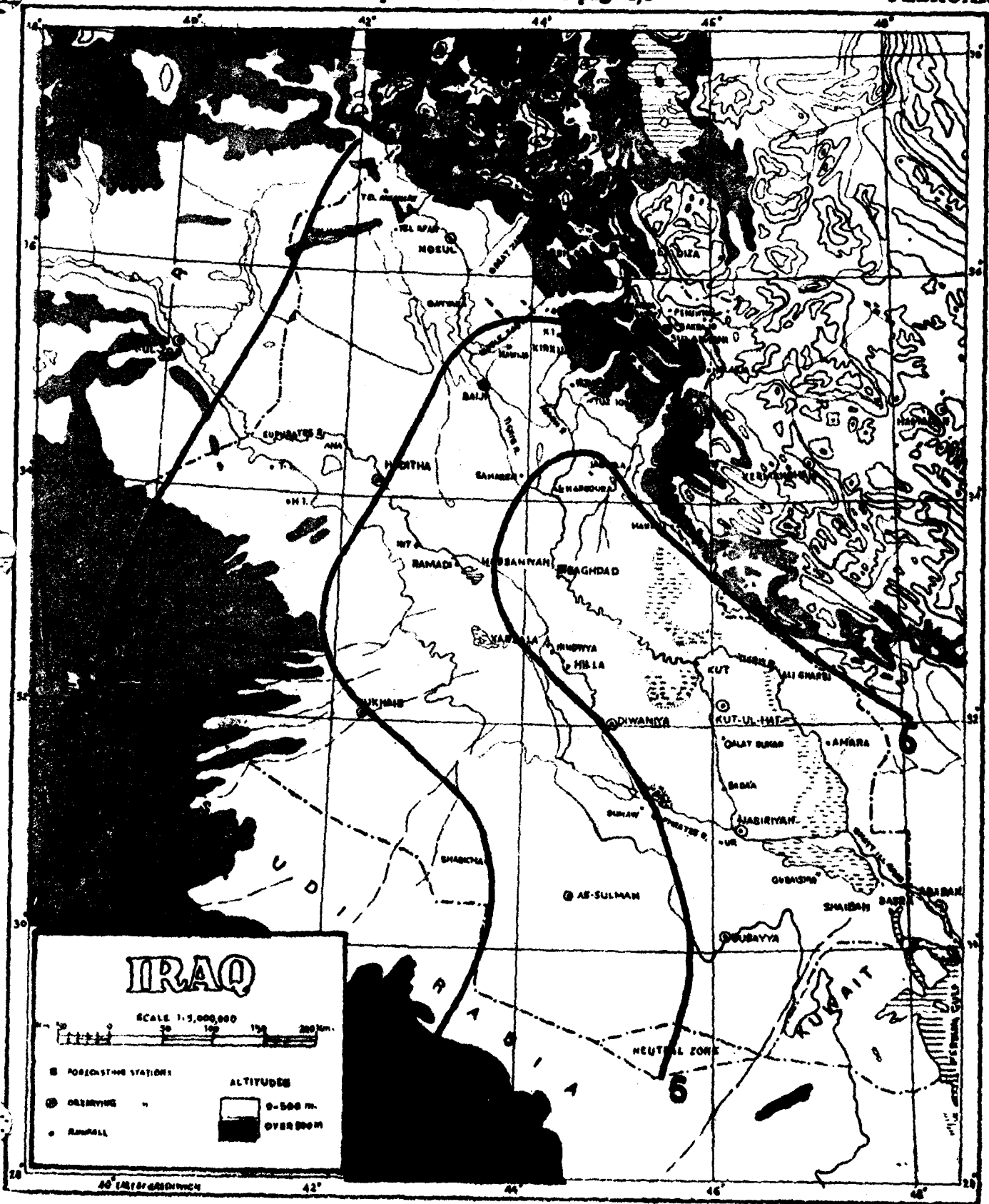
TEMPERATURE
 Mean Monthly Minimum (C)
 period of records see page 2/3

50
 JANUARY



TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

51
FEBRUARY



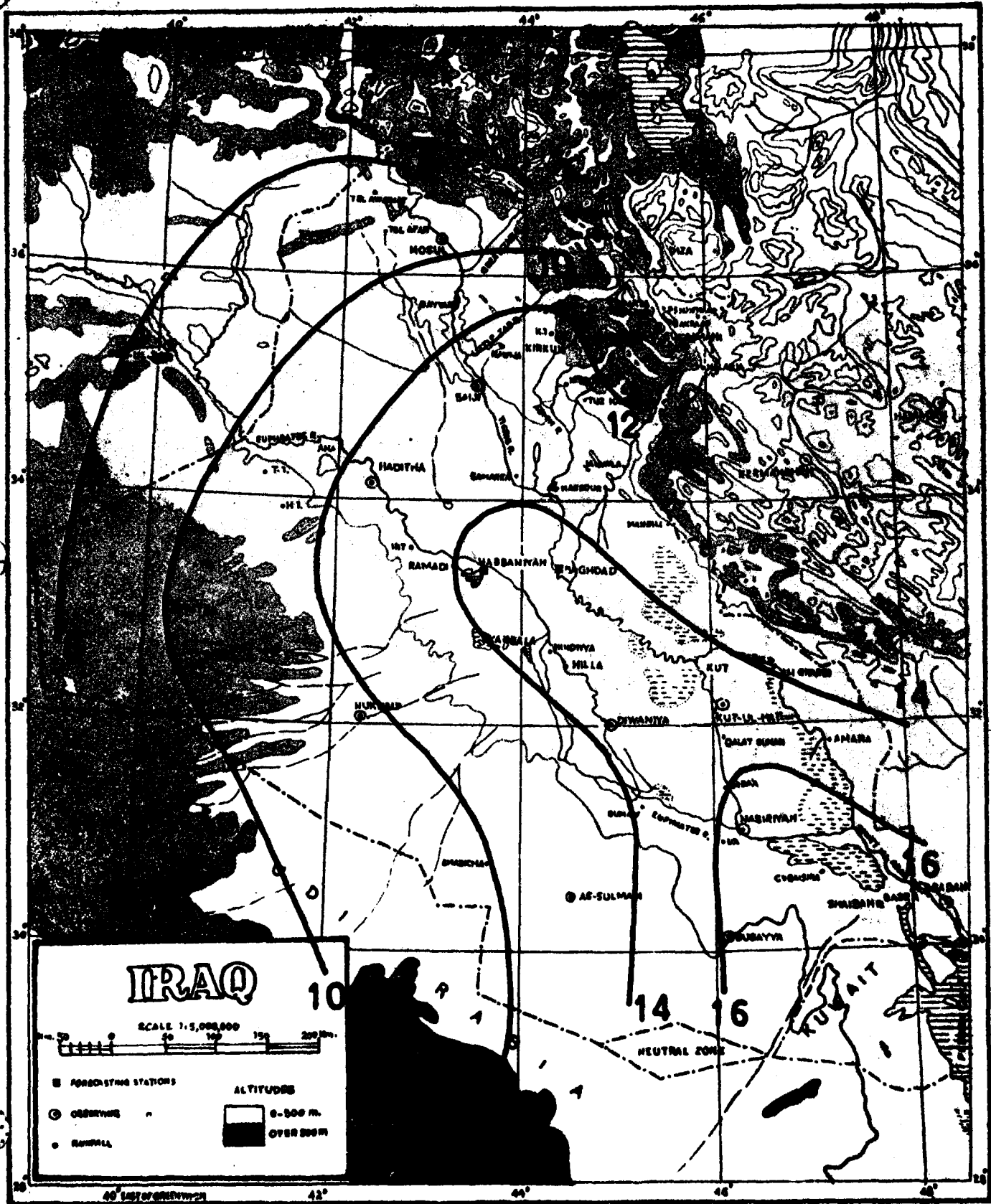
TEMPERATURE
Mean Monthly Minimum (°C)
period of records see page 2/3

52
MARCH



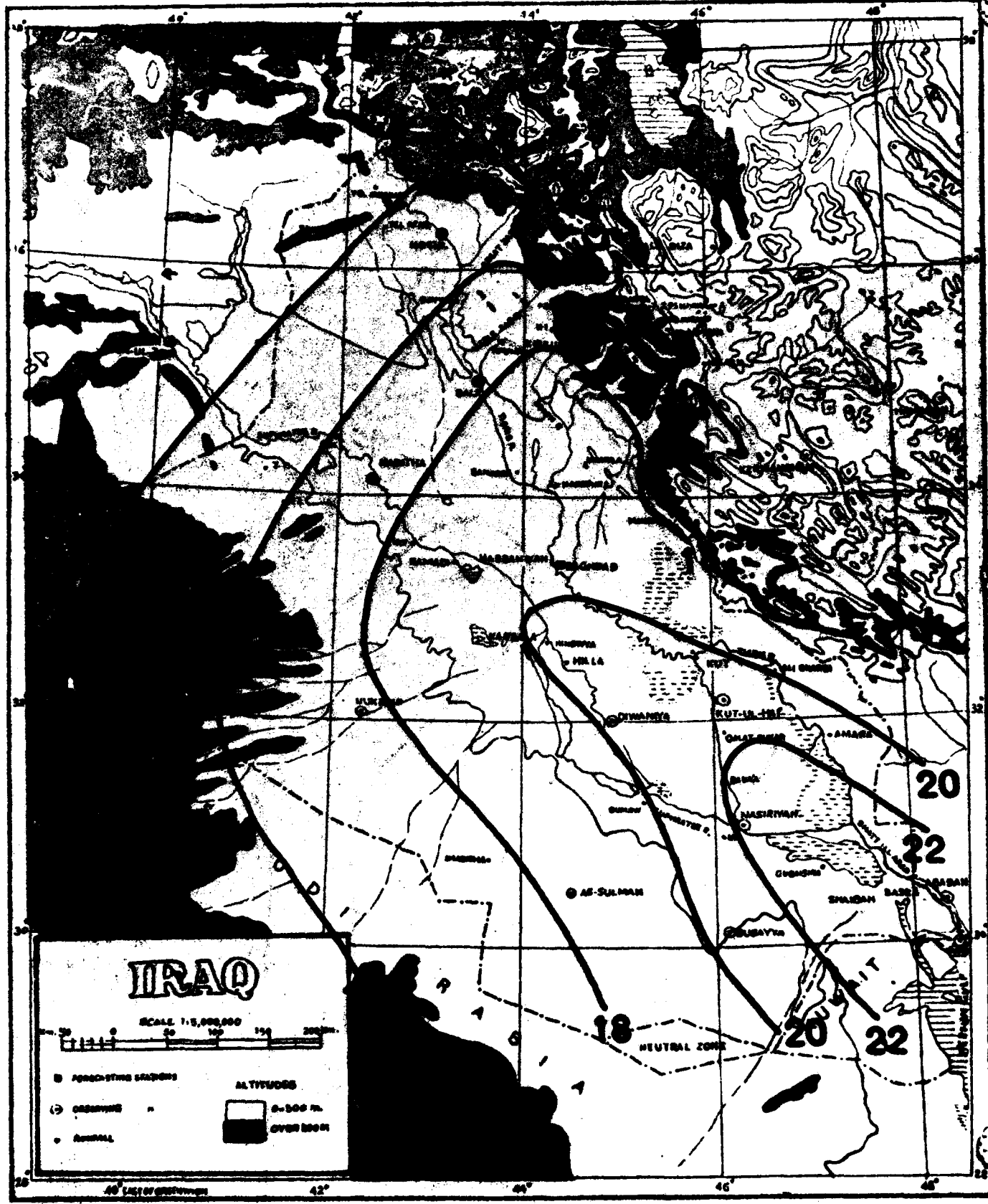
TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

53
APRIL



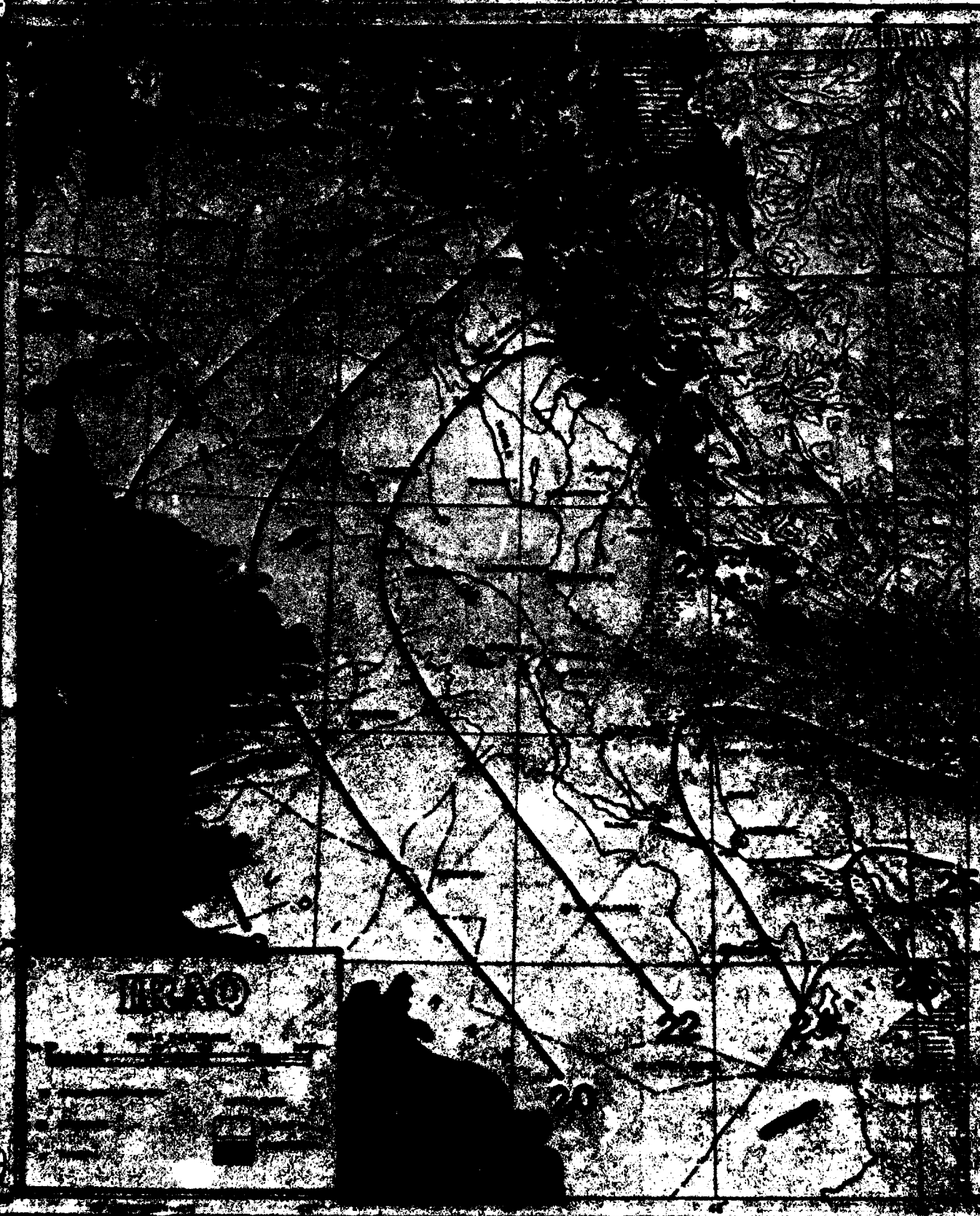
TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

54
MAY



TEMPERATURE

JUNE

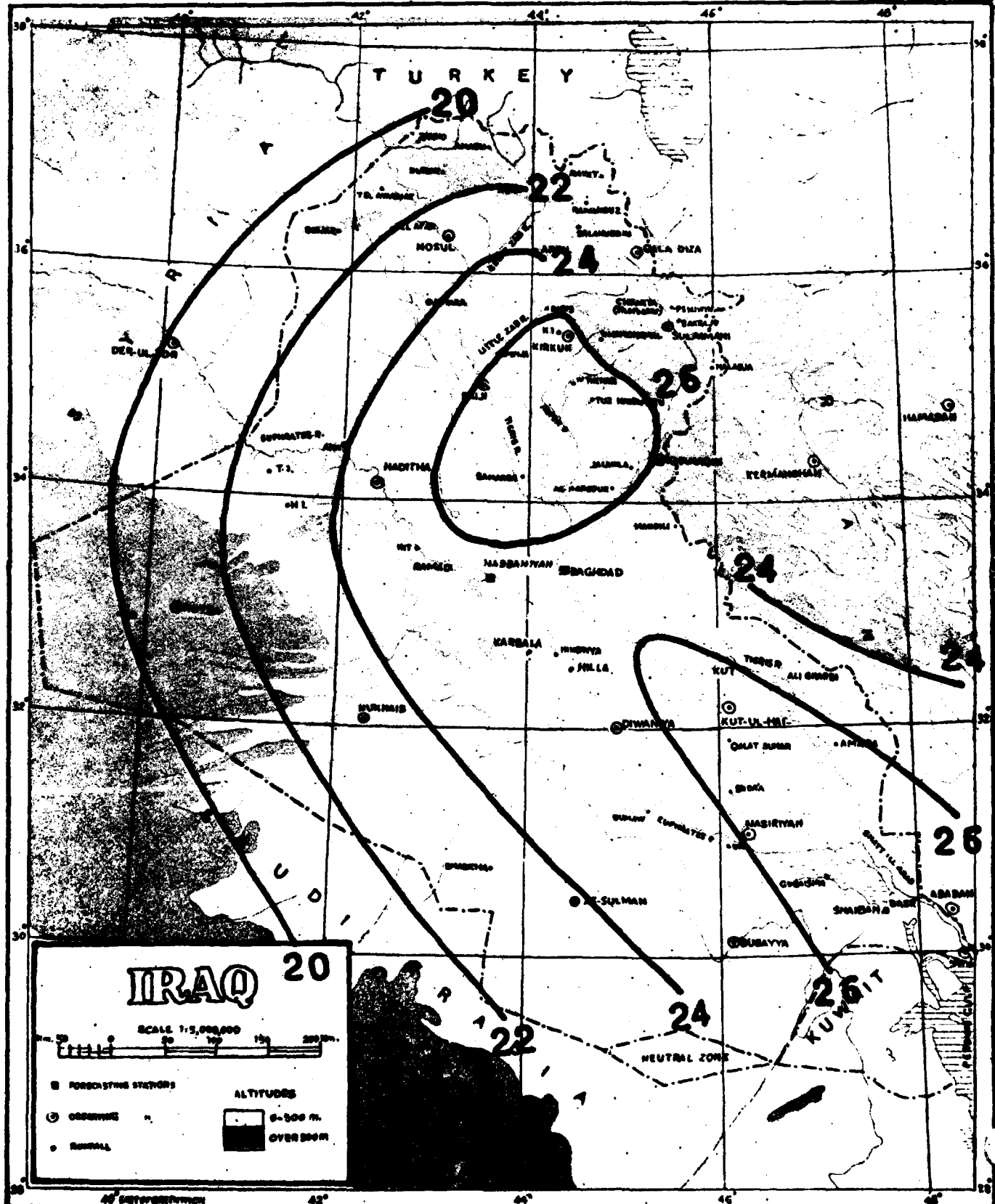


1960

TEMPERATURE
WIND
HUMIDITY
PRECIPITATION
CLOUDS

TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

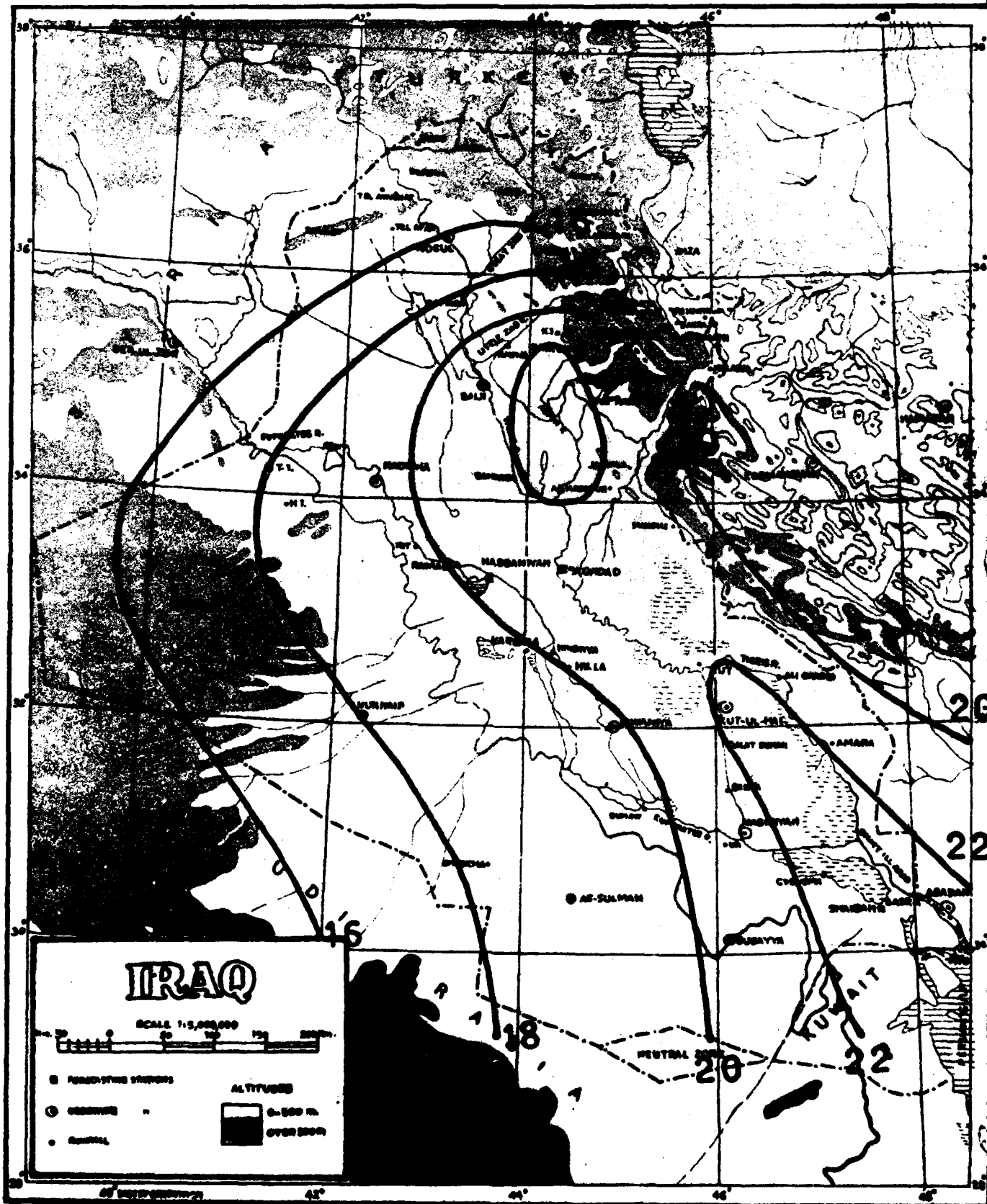
56
JULY



TEMPERATURE
Mean Monthly Minimum (C°)
 period of records see page 2/3

58

SEPTEMBER



IRAQ

SCALE 1:5,000,000

● METEOROLOGICAL STATIONS

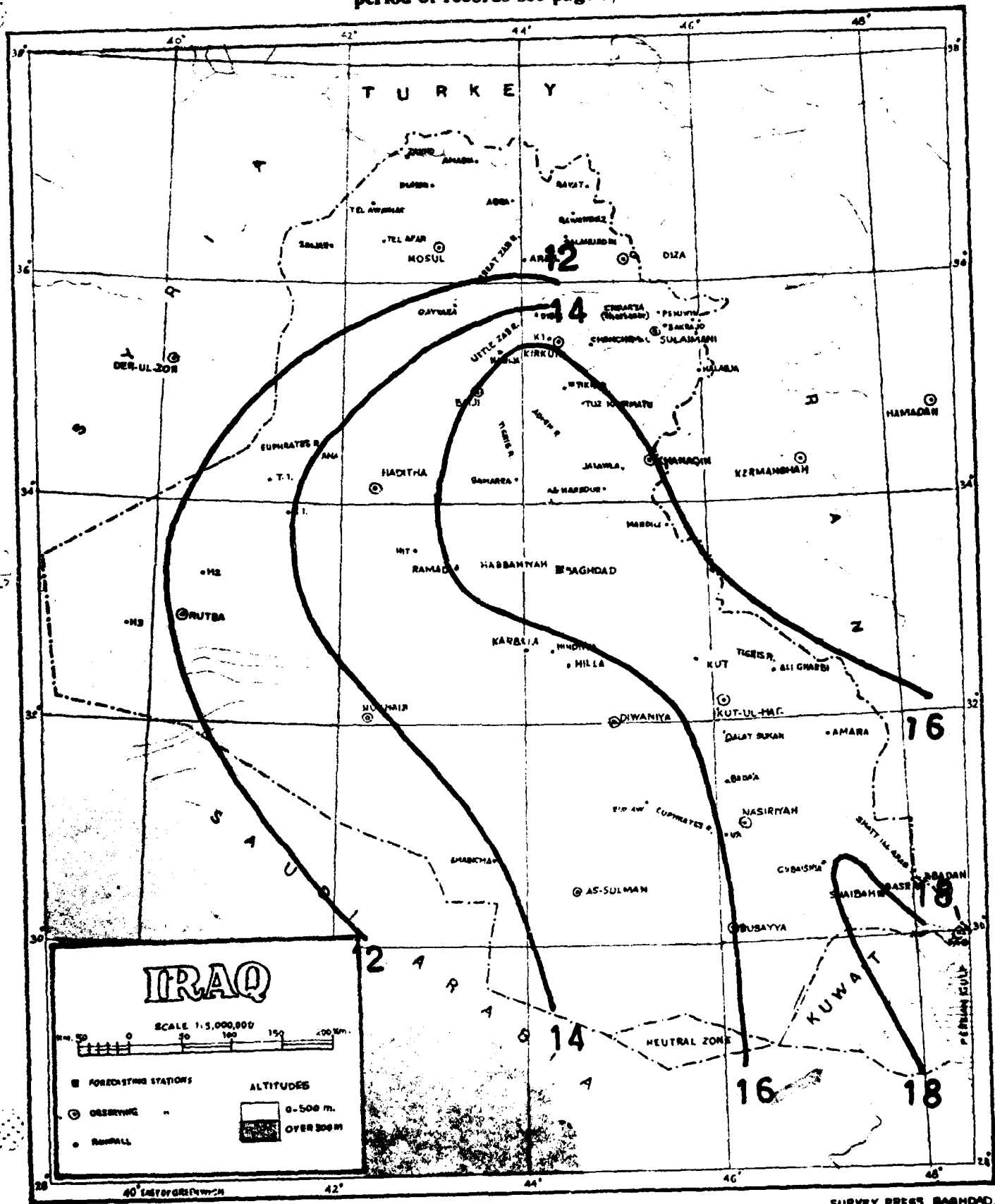
○ OBSERVATION
 ○ GENERAL

ALTITUDE

□ 0-500 m.
 □ OVER 500m

TEMPERATURE
 Mean Monthly Minimum (C°)
 period of records see page 2/3

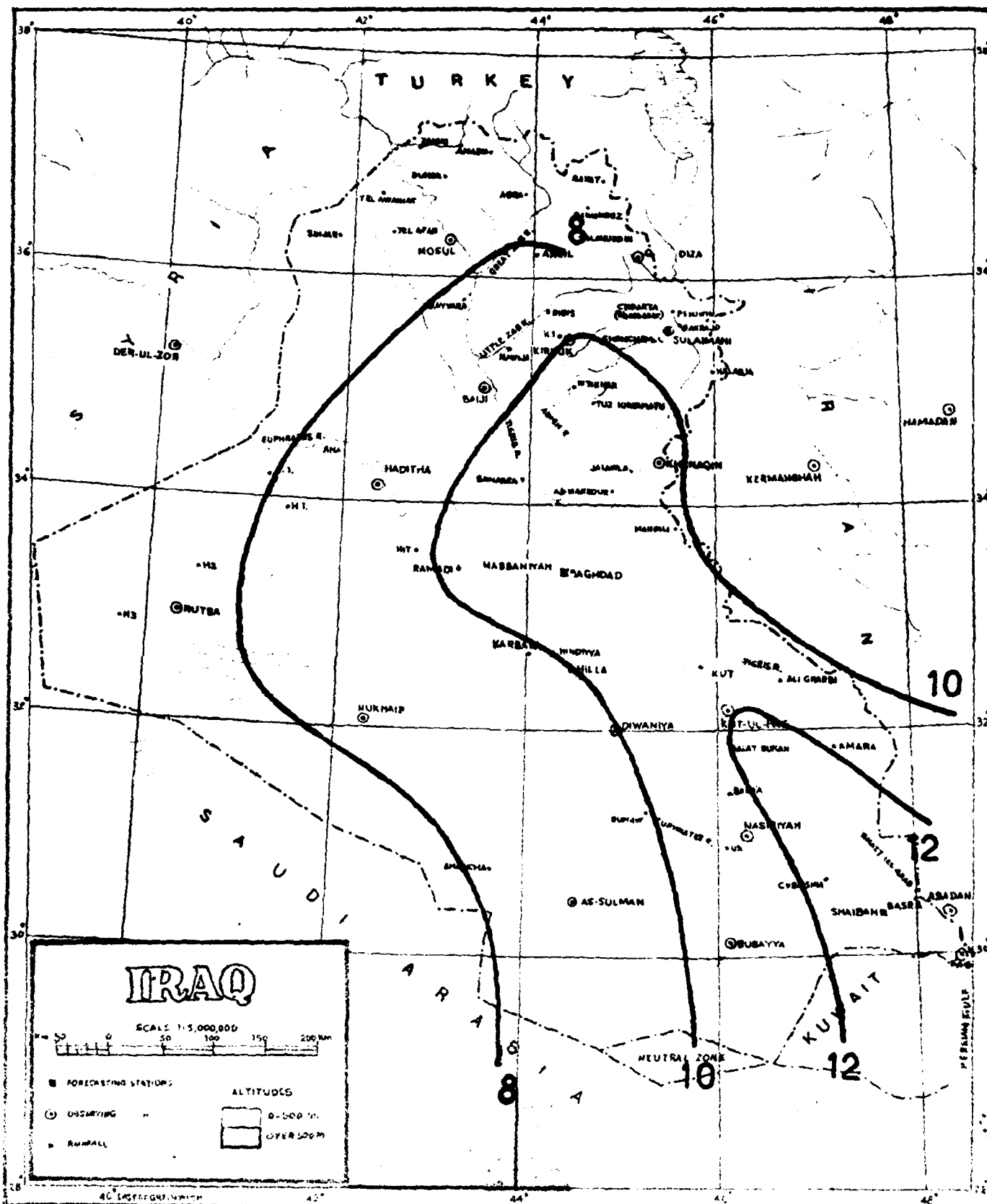
59
 OCTOBER



TEMPERATURE
 Mean Monthly Minimum (C°)
 period of records see page 2/3

60

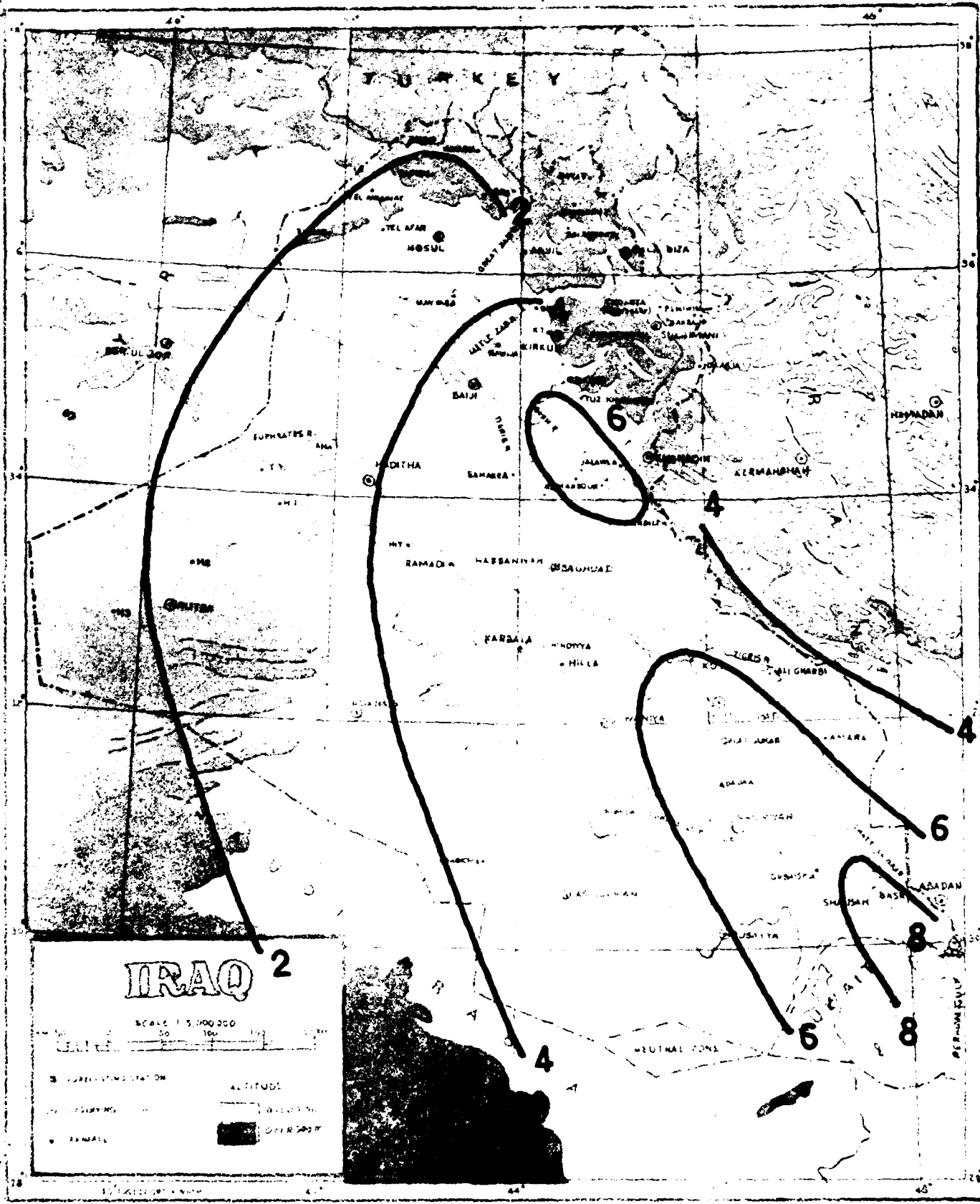
NOVEMBER



TEMPERATURE
Mean Monthly Minimum (°C)
 period of records see page 2/3

61

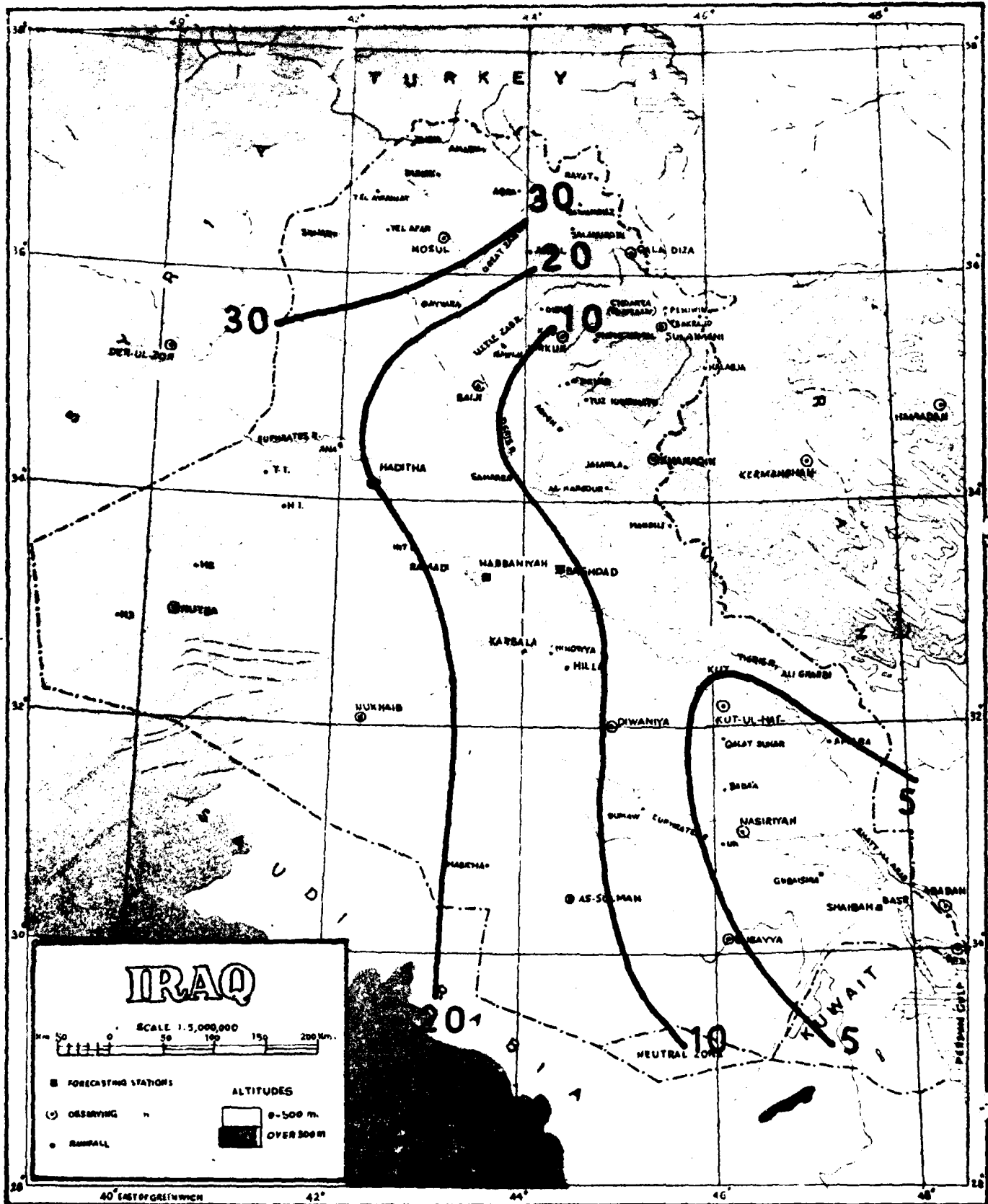
DECEMBER



62

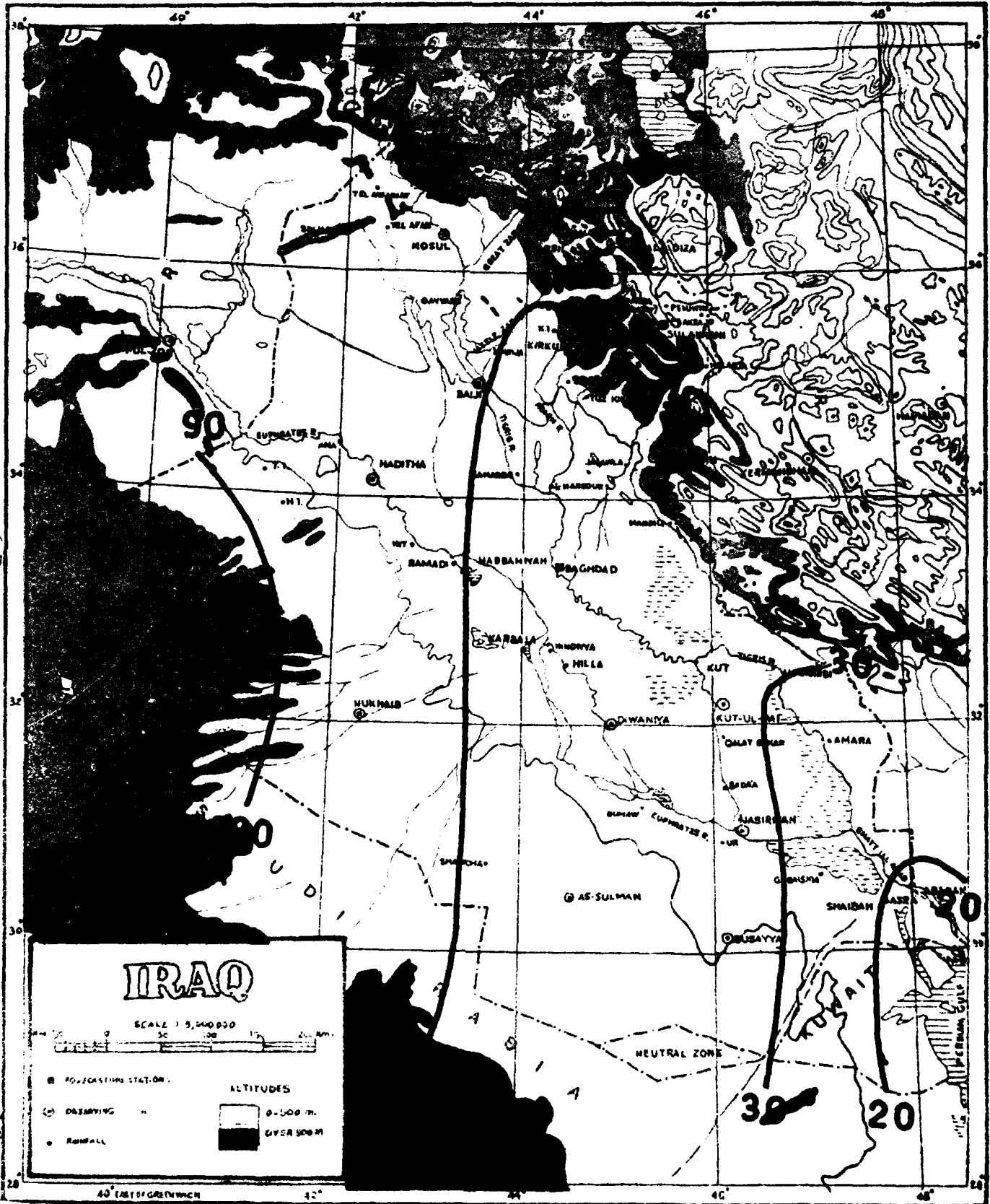
TEMPERATURE

Mean Annual Number of Days with Minimum Temperature 0 °C or Less
period of records see page 2/3

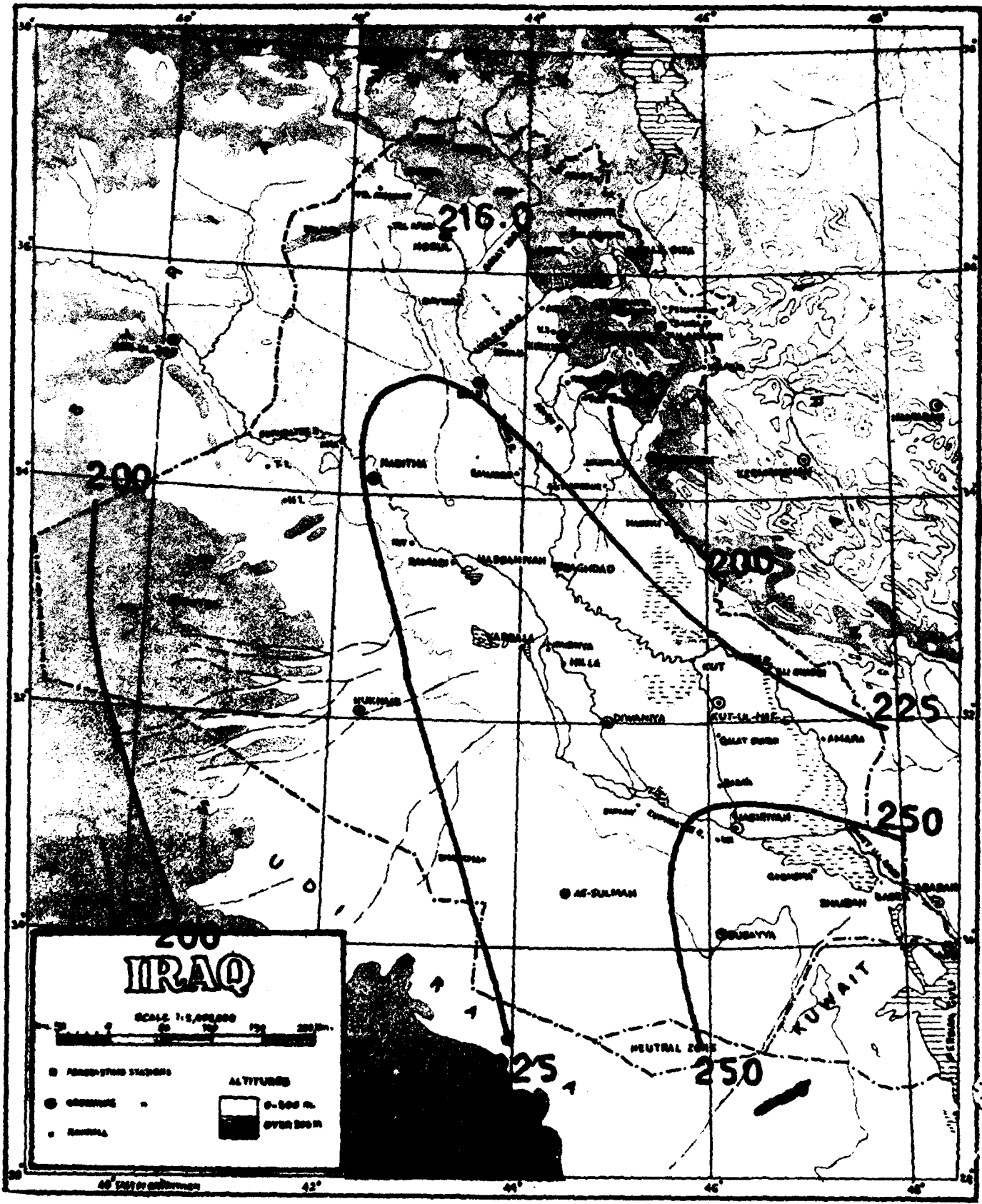


TEMPERATURE

Mean Annual Number of Days with Minimum Temperature 5 C or Less
period of records see page 2/3

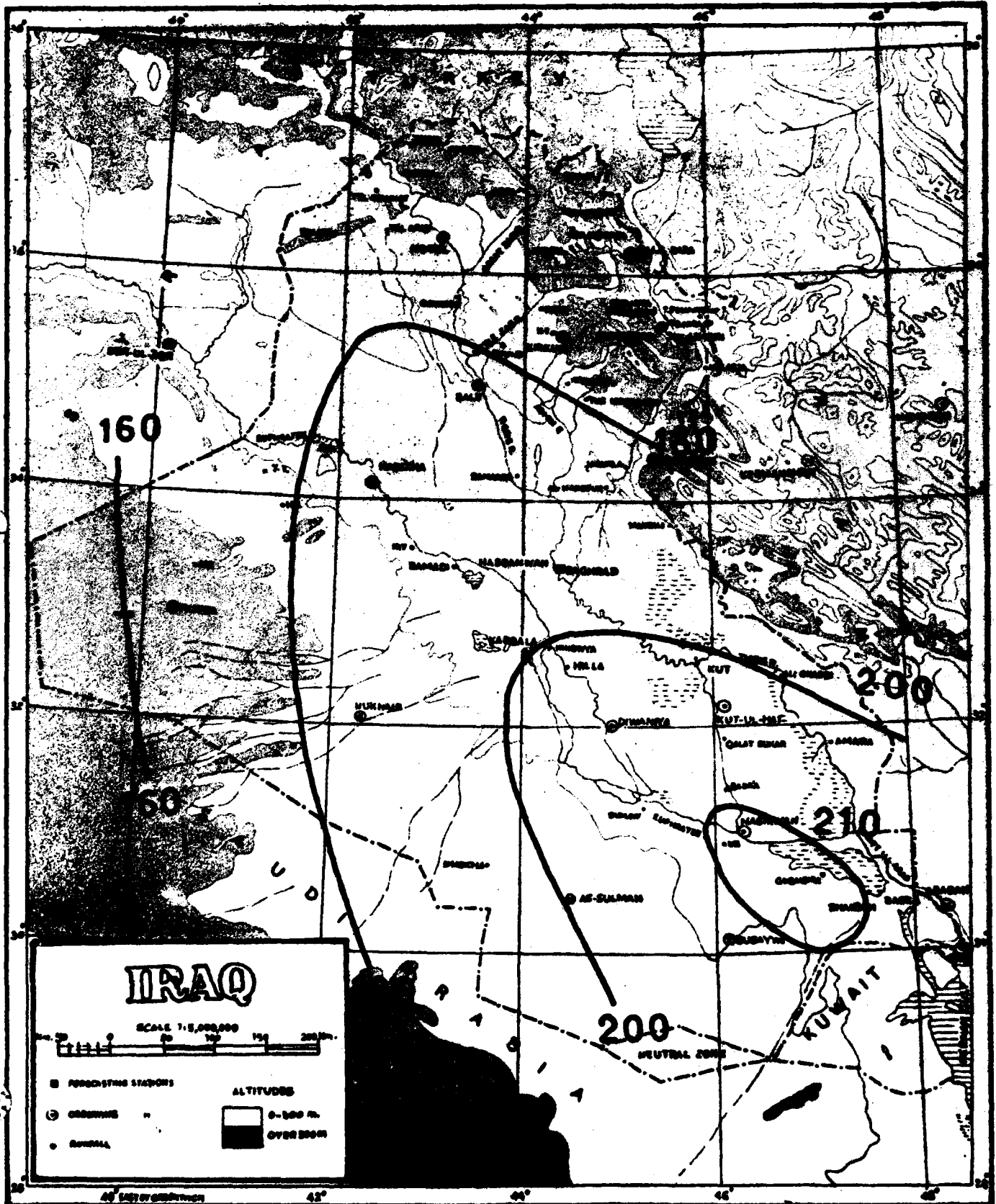


TEMPERATURE
 Mean Annual Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3



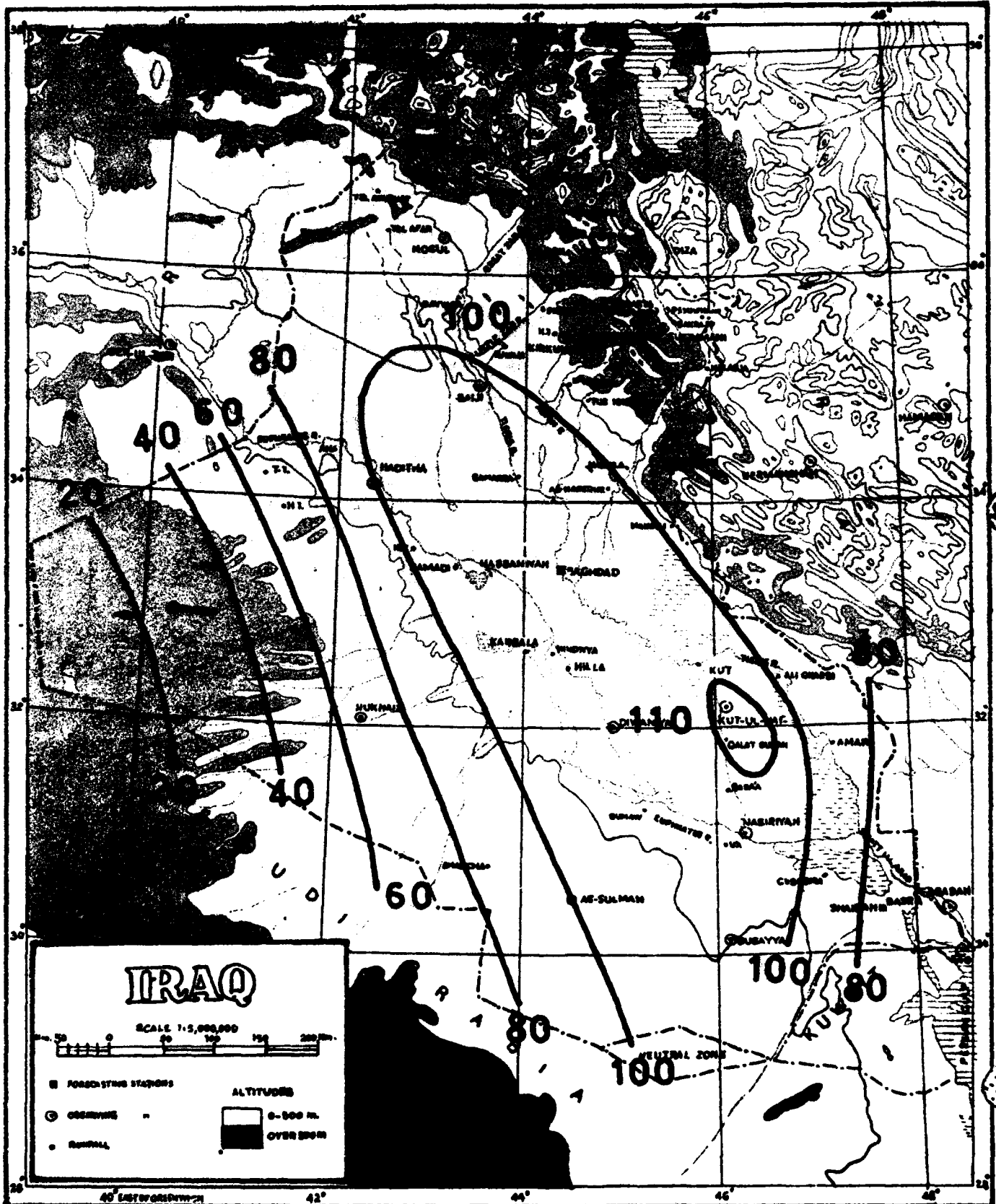
TEMPERATURE

Mean Annual Number of Days with Maximum Temperature 30°C or More
period of records see page 2/3



TEMPERATURE

Mean Annual Number of Days with Maximum Temperature 40°C or More
period of records see page 2/3

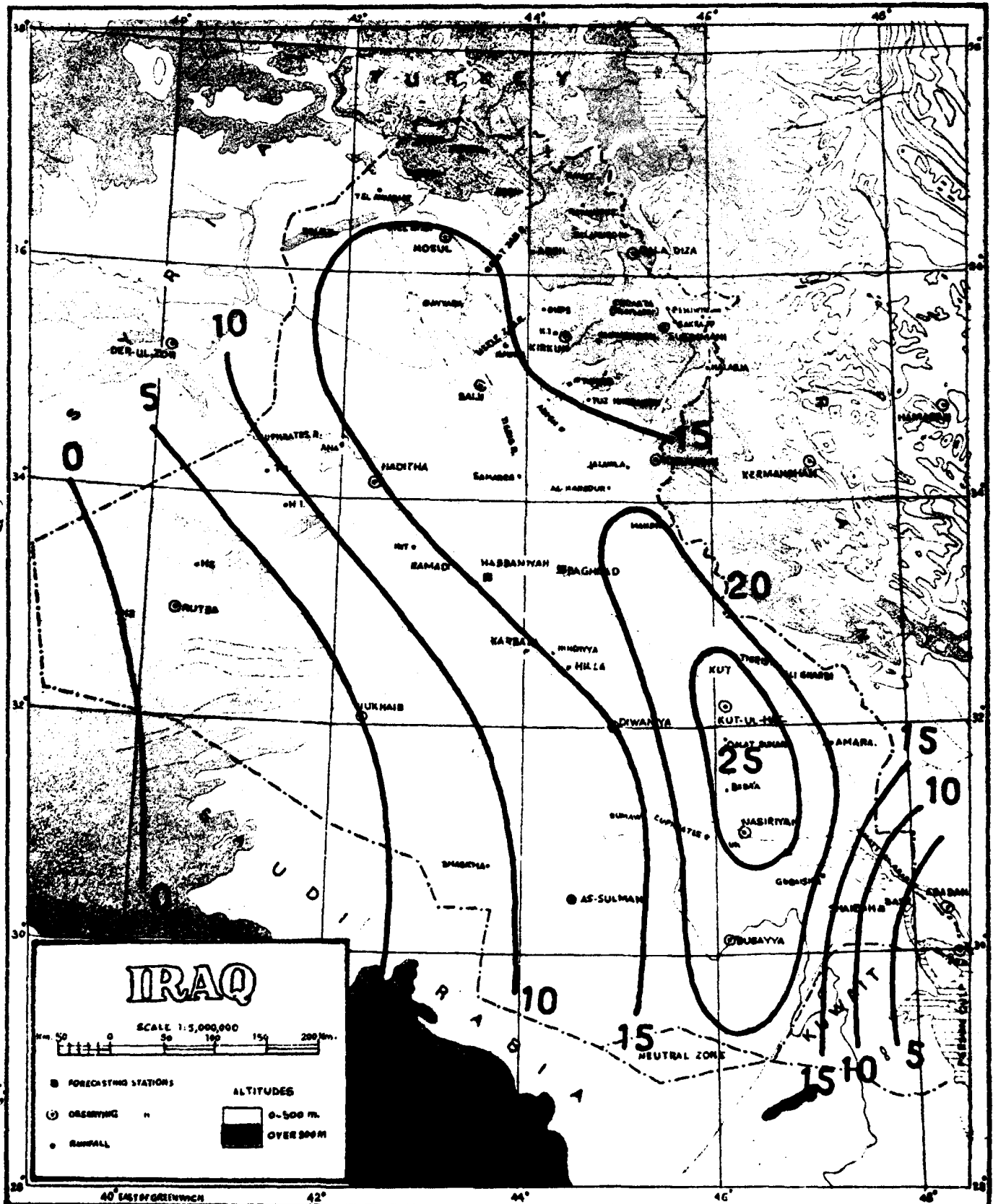


67

TEMPERATURE

Mean Annual Number of Days with Temperature Maximum Exceeding 45°C

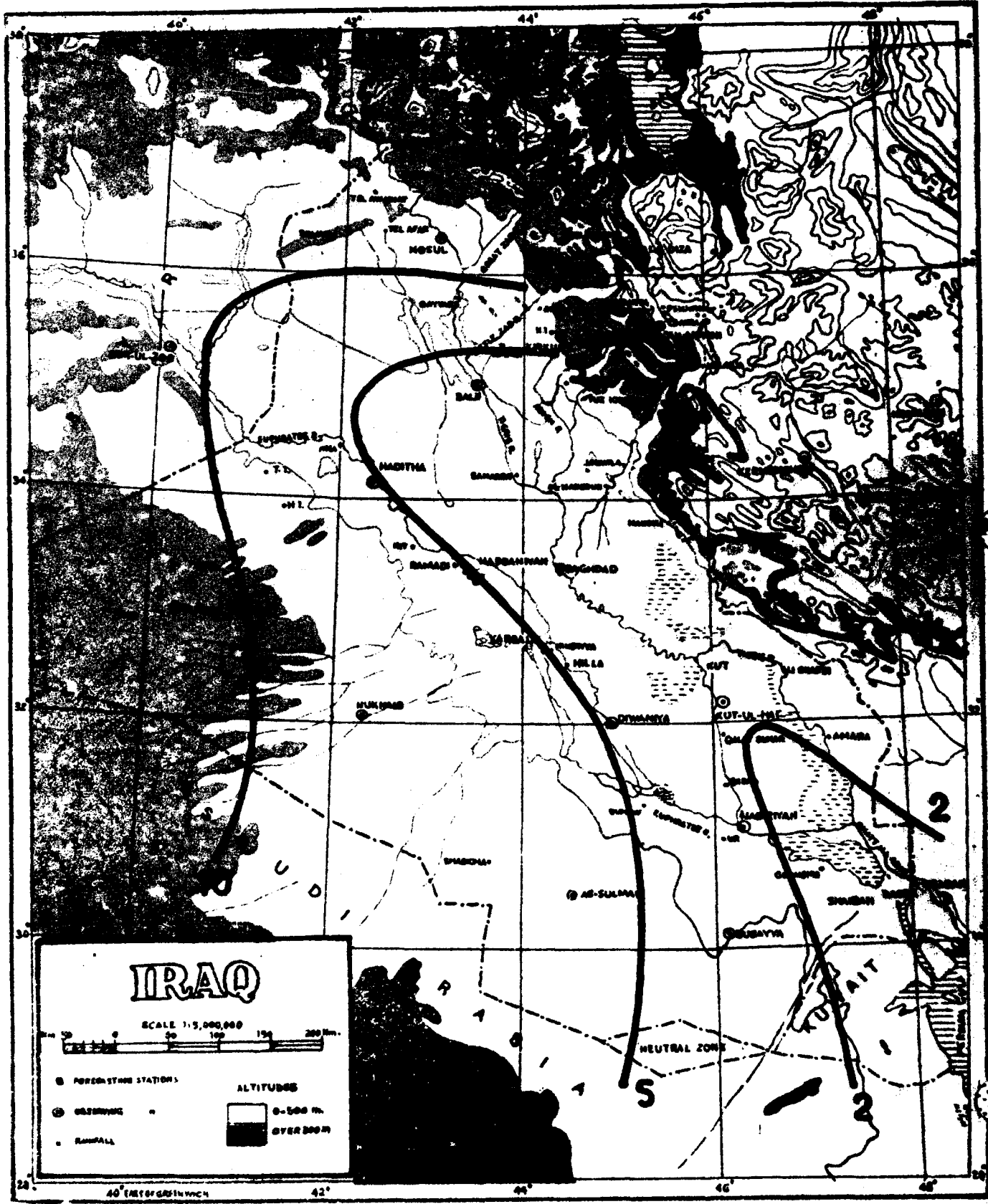
period of records see page 2/3



TEMPERATURE

Mean Monthly Number of Days with Minimum Temperature $\leq 0^{\circ}\text{C}$ or Less
 period of records see page 2/3

JANUARY



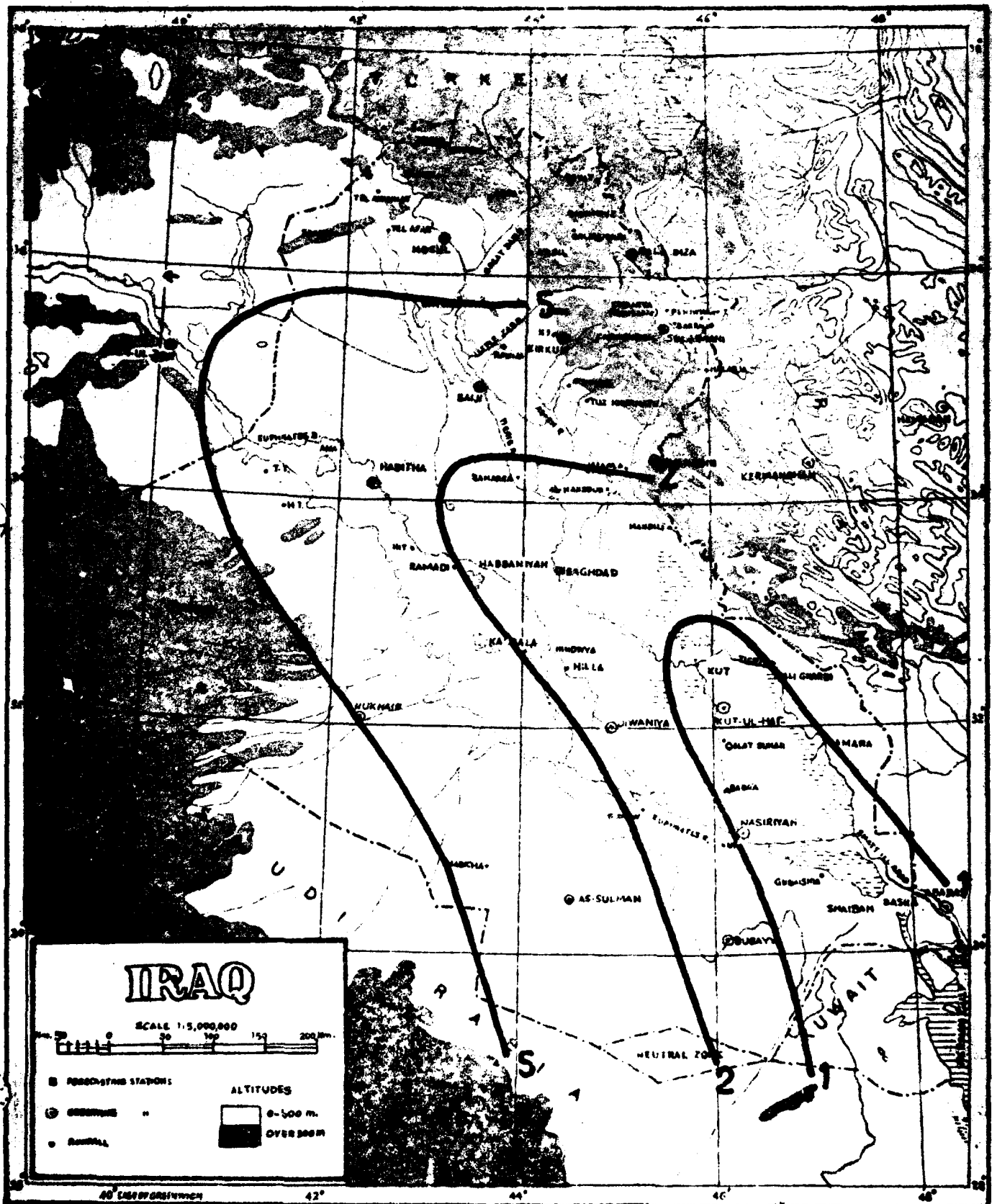
69

TEMPERATURE

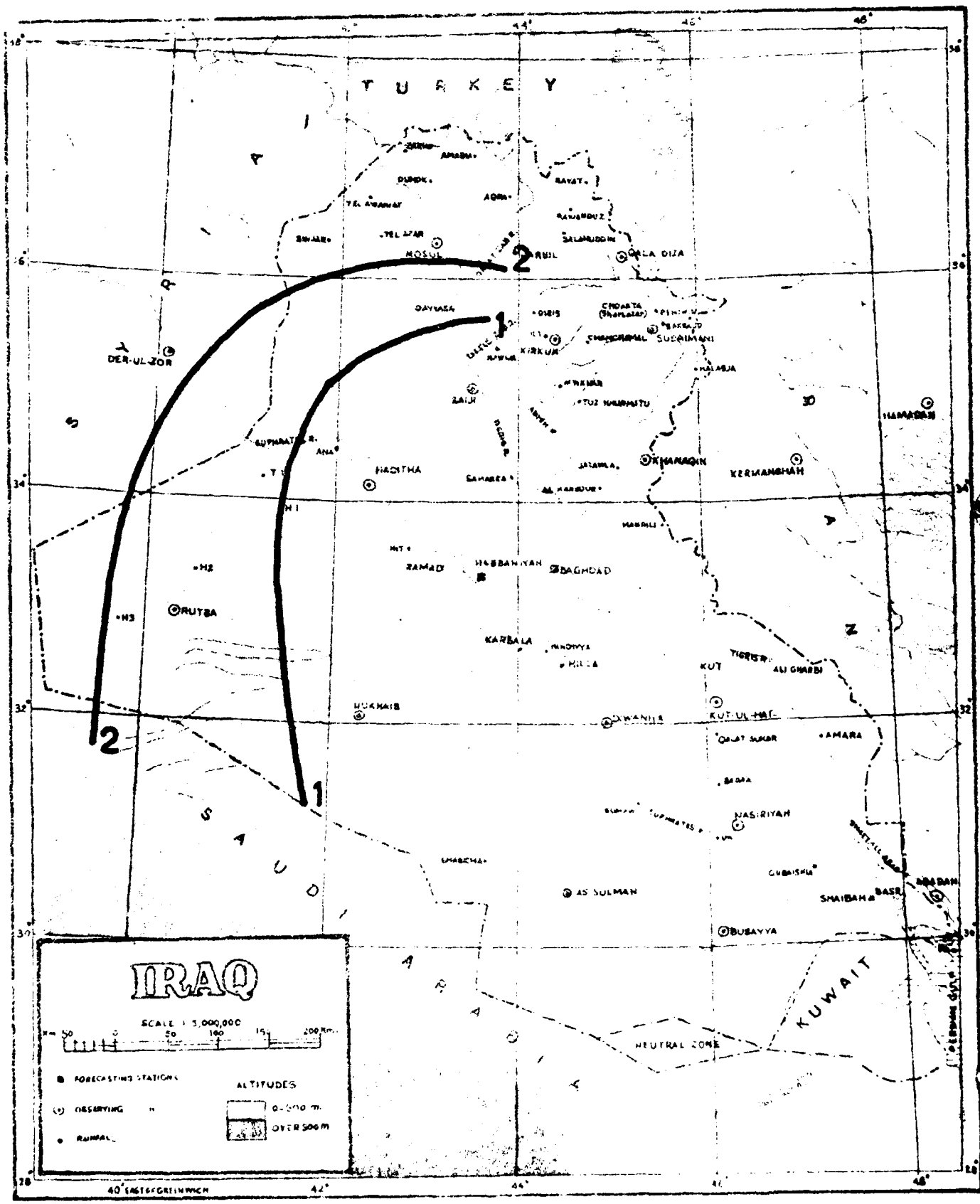
Mean Monthly Number of Days with Minimum Temperature $\leq 0^{\circ}\text{C}$ or Less

period of records see page 2/3

FEBRUARY



70
TEMPERATURE
 Mean Monthly Number of Days with Minimum Temperature 0 °C or Less
 period of records see page 2/3
MARCH





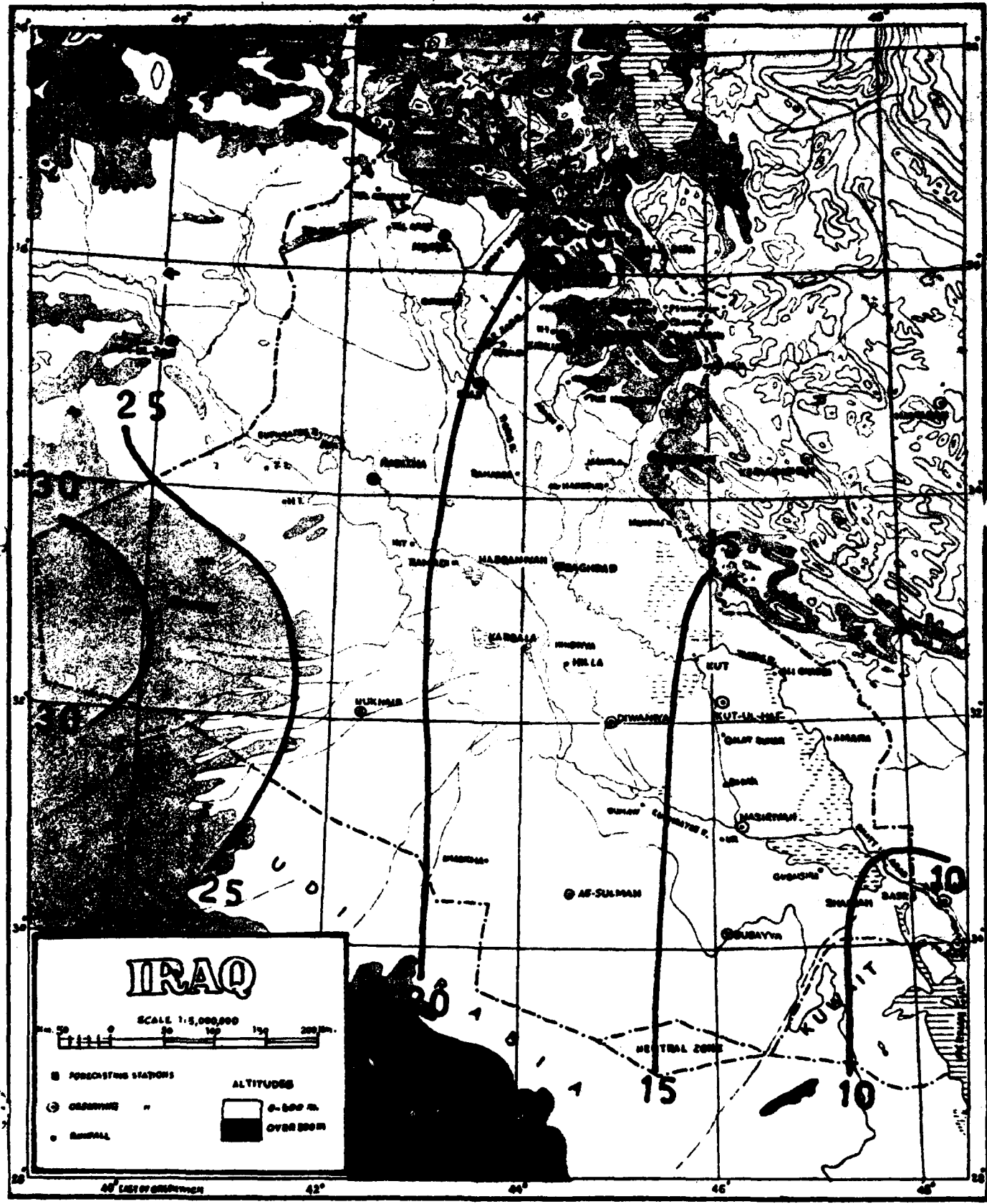
IPAO

Illegible text and markings within a rectangular box in the bottom-left corner of the map area.

TEMPERATURE

Mean Monthly Number of Days with Minimum Temperature 5 C or Less
period of records see page 2/3

JANUARY



IRAQ

SCALE 1:5,000,000

0 100 200 Km

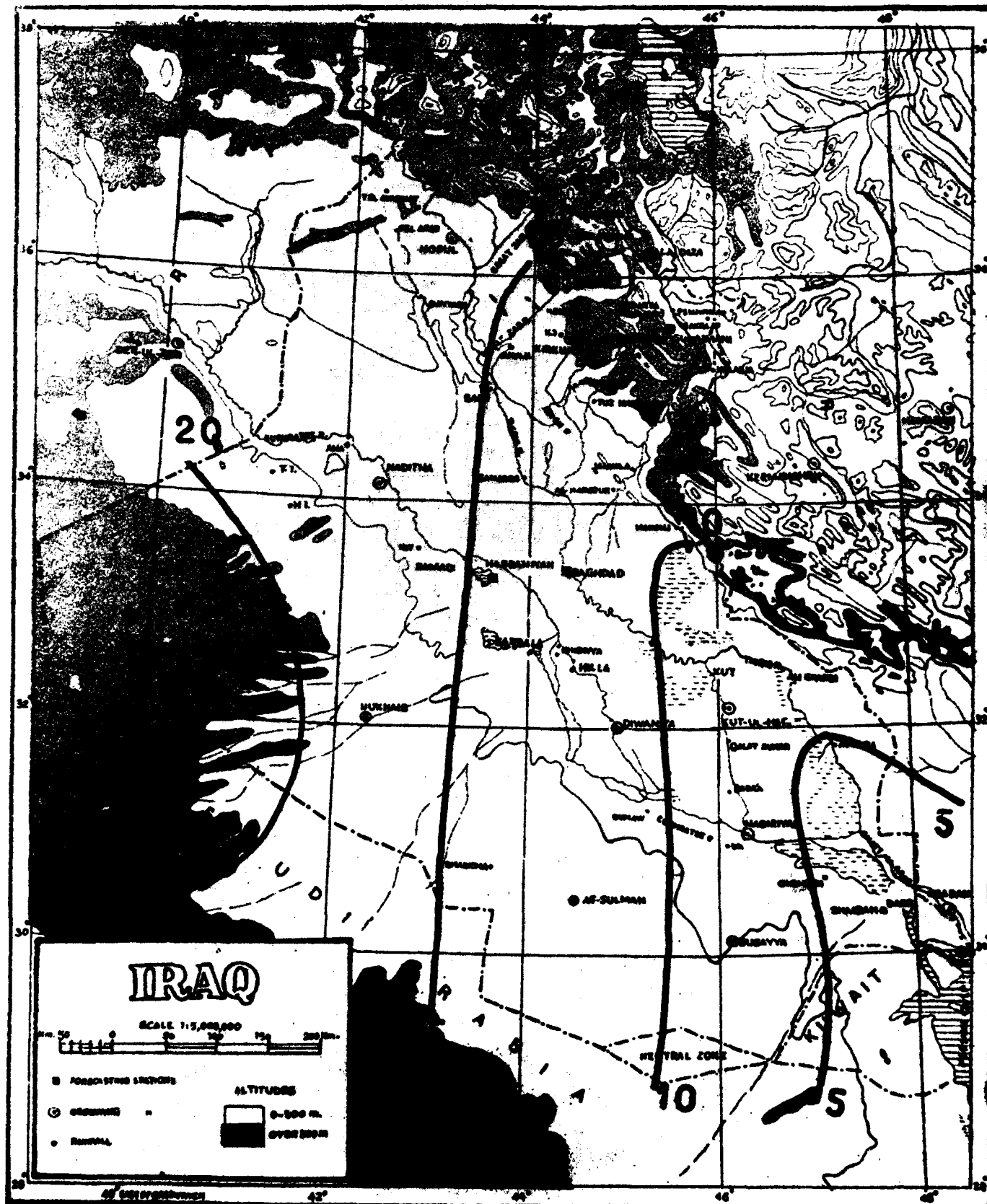
0 100 200 Miles

■ OBSERVING STATIONS
 ○ OBSERVING STATIONS
 ● RAINFALL

ALTITUDES
 0-500 M.
 OVER 500 M.

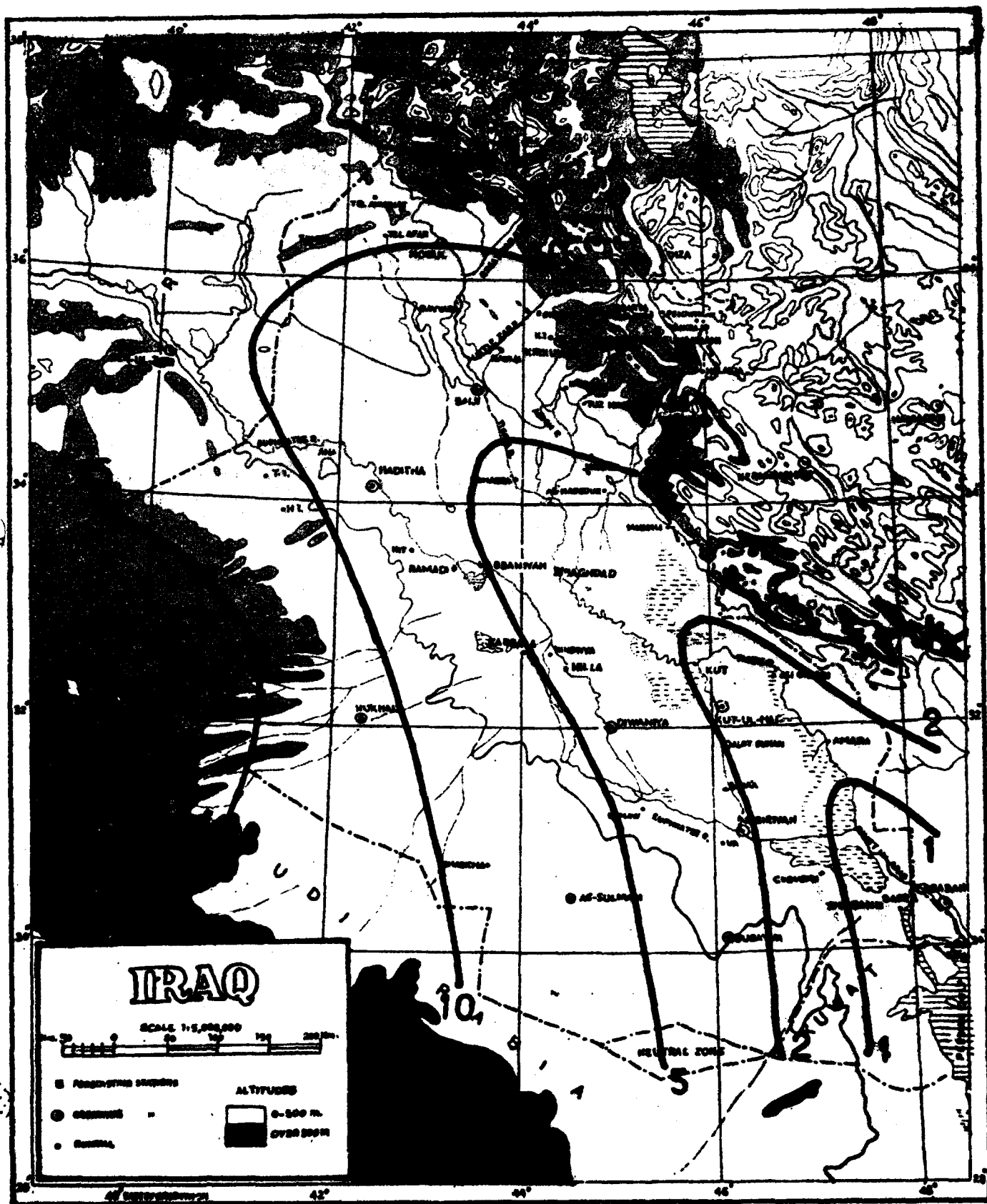
TEMPERATURE 74
Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
 period of records see page 2/3

FEBRUARY



TEMPERATURE
 Mean Monthly Number of Days with Minimum Temperature 5 C° or Less
 period of records see page 2/3

MARCH

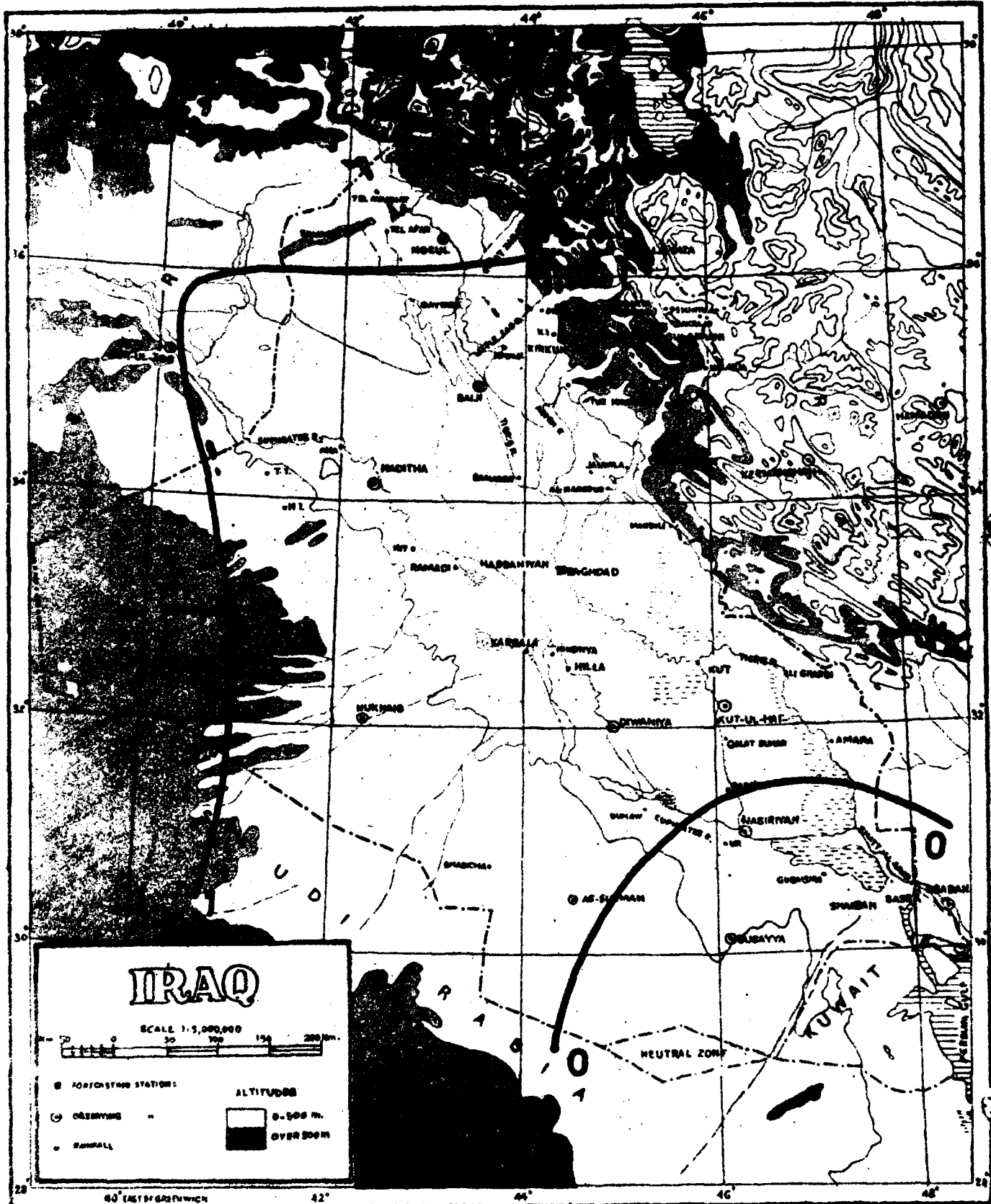


TEMPERATURE

Mean Monthly Number of Days with Minimum Temperature 5°C or Less
period of records see page 2/3

76

APRIL

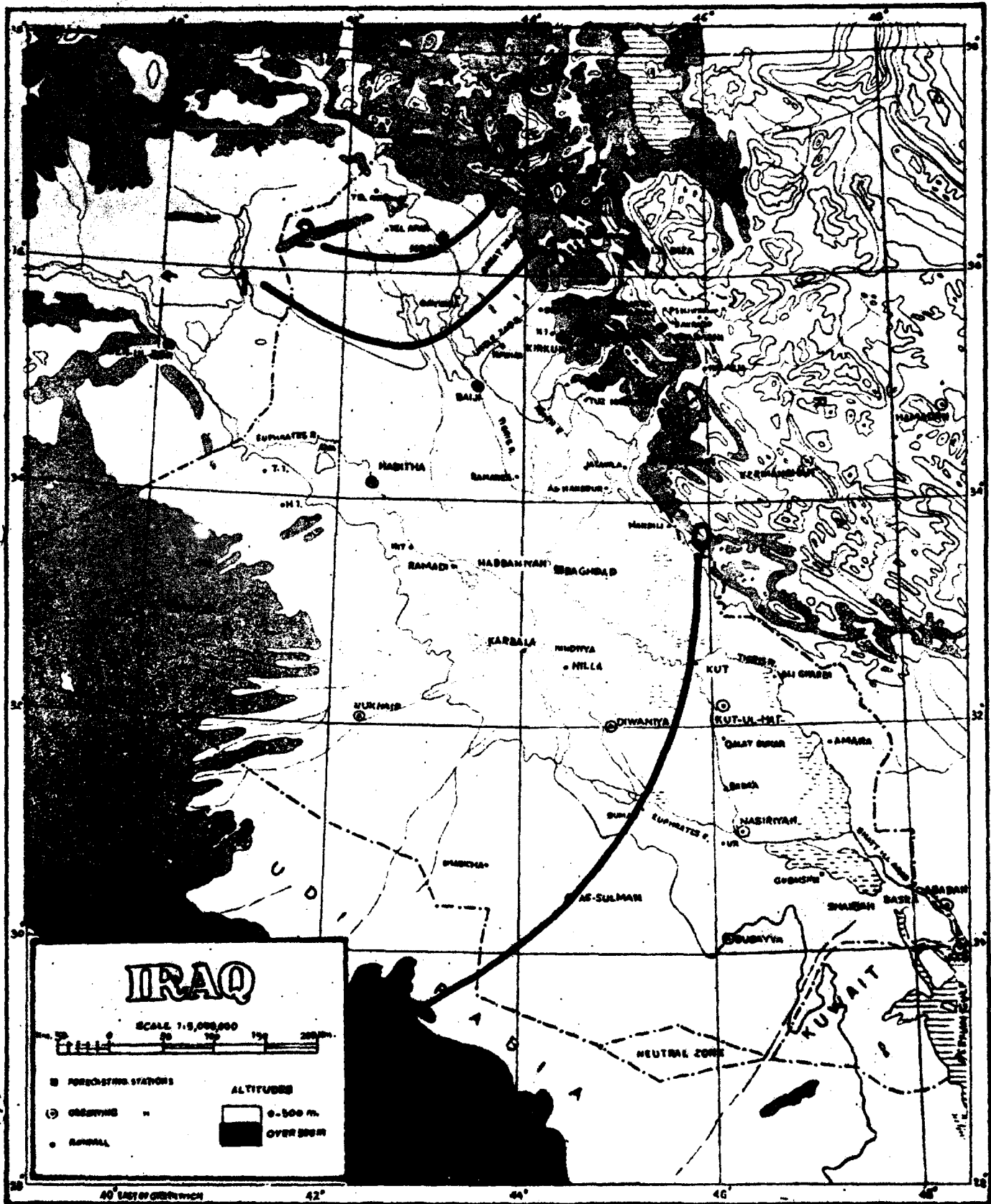


77

TEMPERATURE

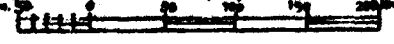
Mean Monthly Number of Days with Minimum Temperature 5°C or Less
period of records see page 2/3

OCTOBER



IRAQ

SCALE 1:5,000,000



- FORECASTING STATIONS
 - OBSERVING STATIONS
 - AIRFIELD
- ALTITUDES
- 0-500 m
 - OVER 500 m

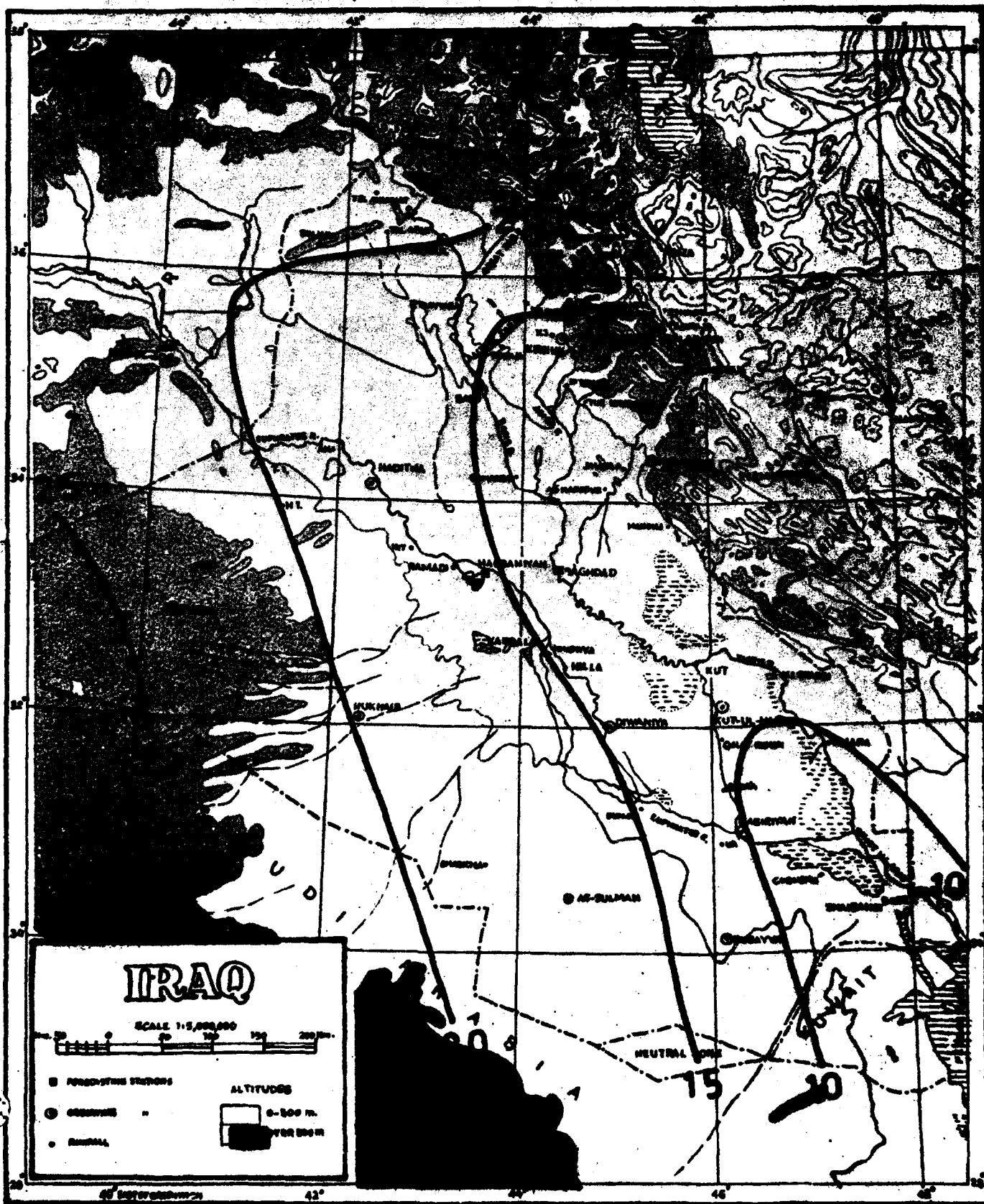
40° 42° 44° 46° 48°

TEMPERATURE

79

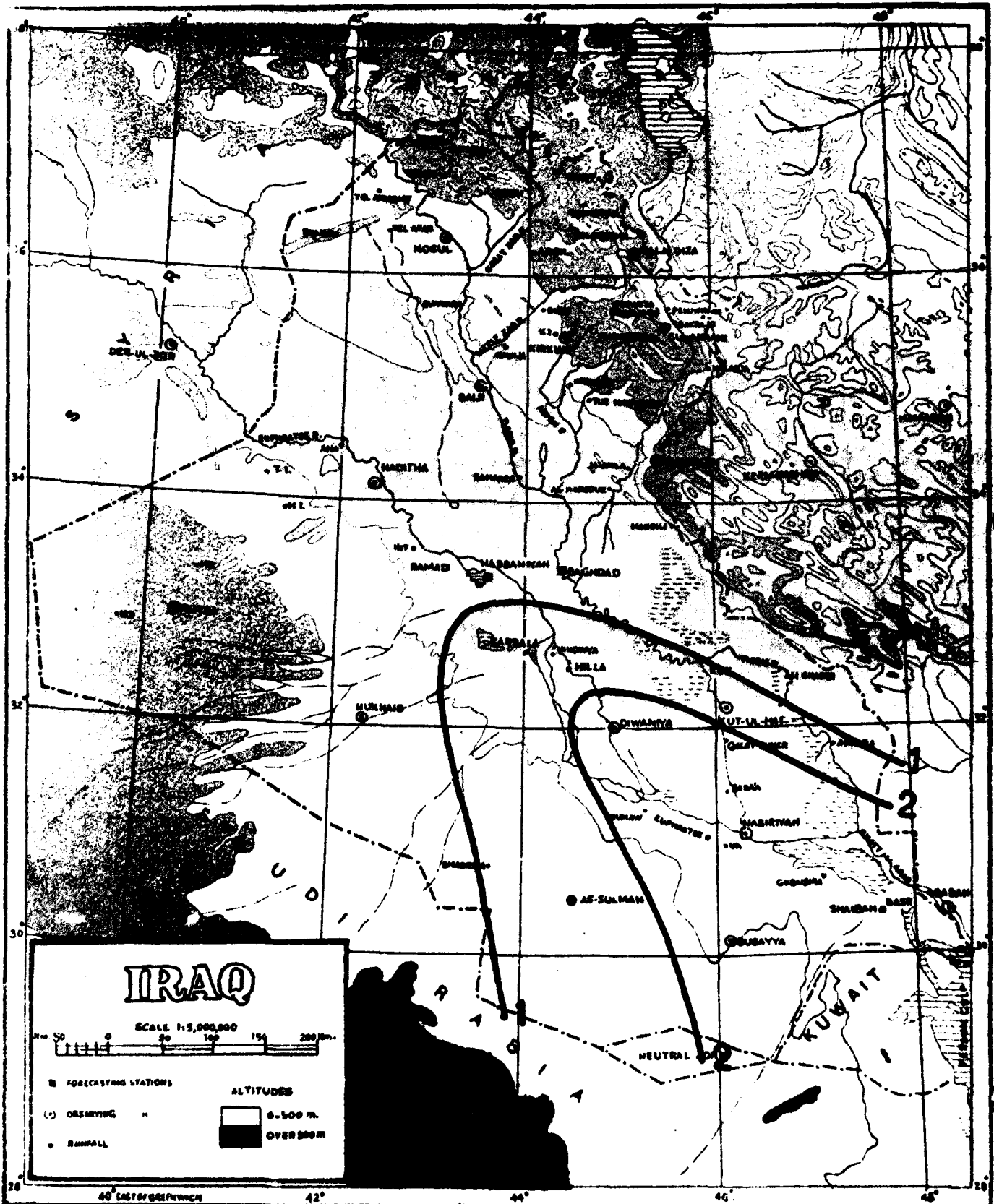
Mean Monthly Number of Days with Minimum Temperature 5C or Less
period of records see page 2/5

DECEMBER



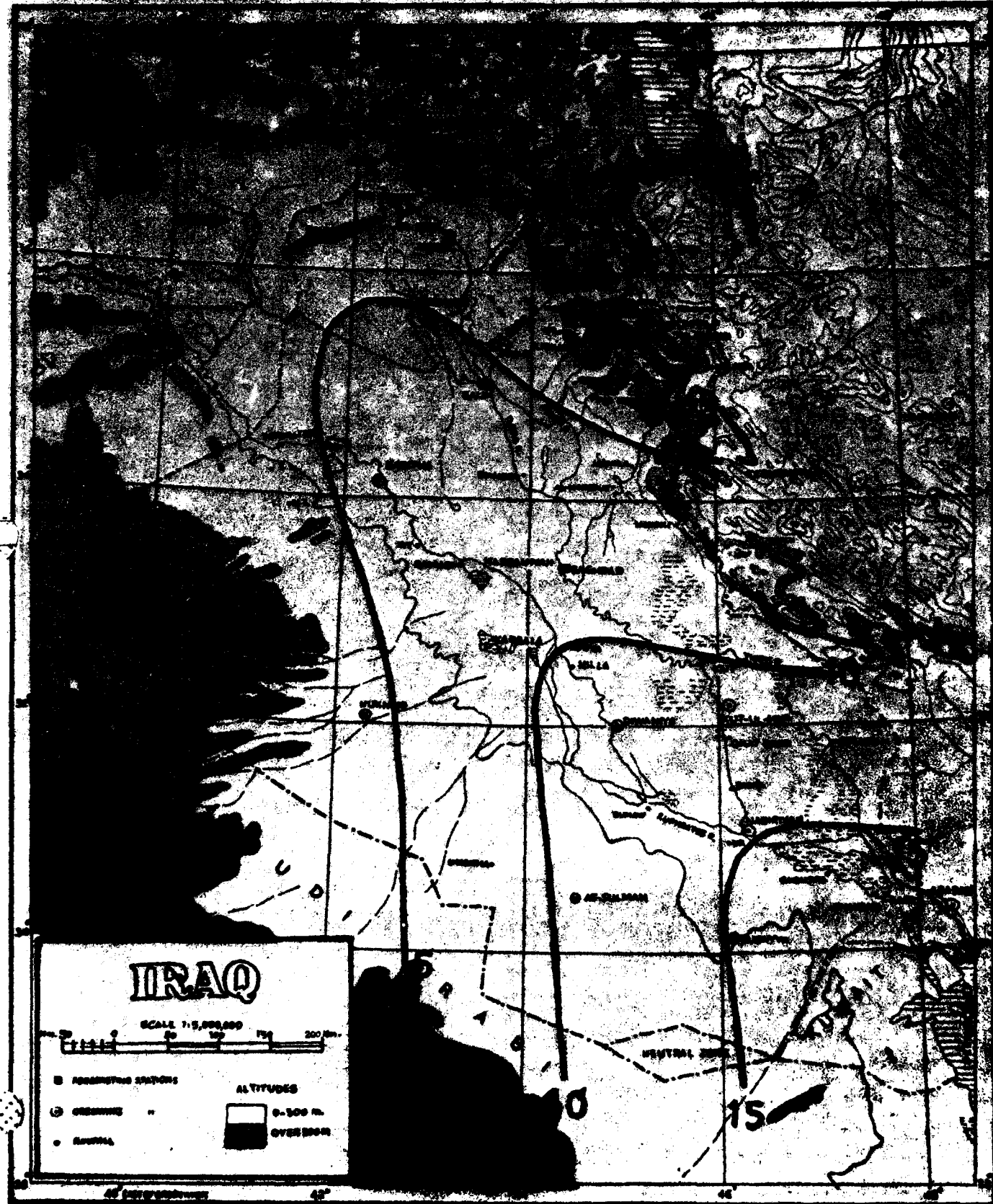
TEMPERATURE
 Mean Monthly Number of Days with Maximum Temperature 25°C or More
 period of records see page 2/3

FEBRUARY



TEMPERATURE

MARCH



IRAQ

SCALE 1:5,000,000

0 50 100 200 Miles

0 100 Kilometers

■ AEROMETRIC STATIONS

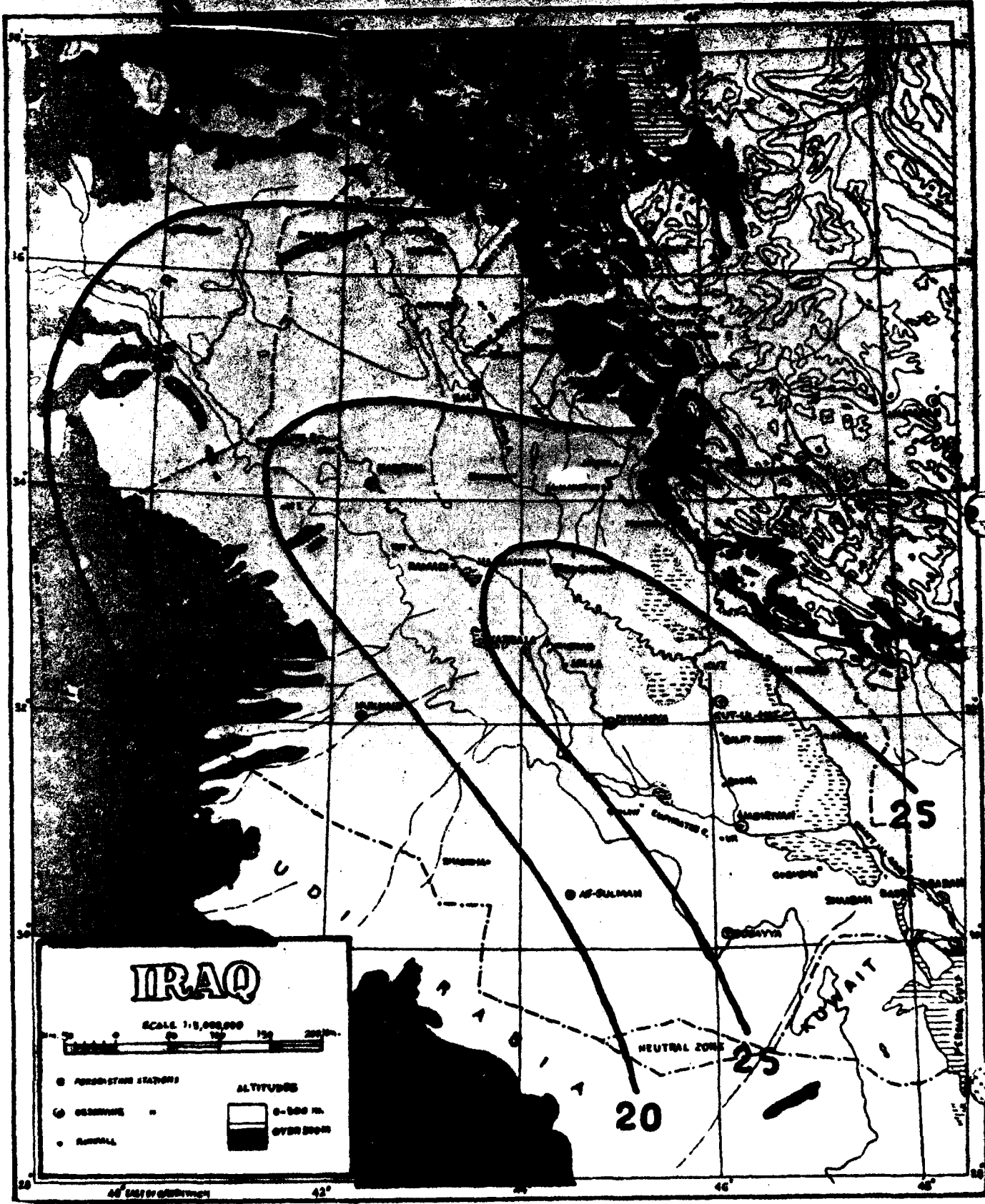
○ OBSERVING " "

● BATHY

ALTITUDES

0-500 ft.

OVER 5000



IRAQ

SCALE 1:1,000,000

0 50 100 150 200 Kilometers

0 50 100 150 200 Miles

● FORECASTING STATIONS

○ OBSERVING " "

• RAINFALL

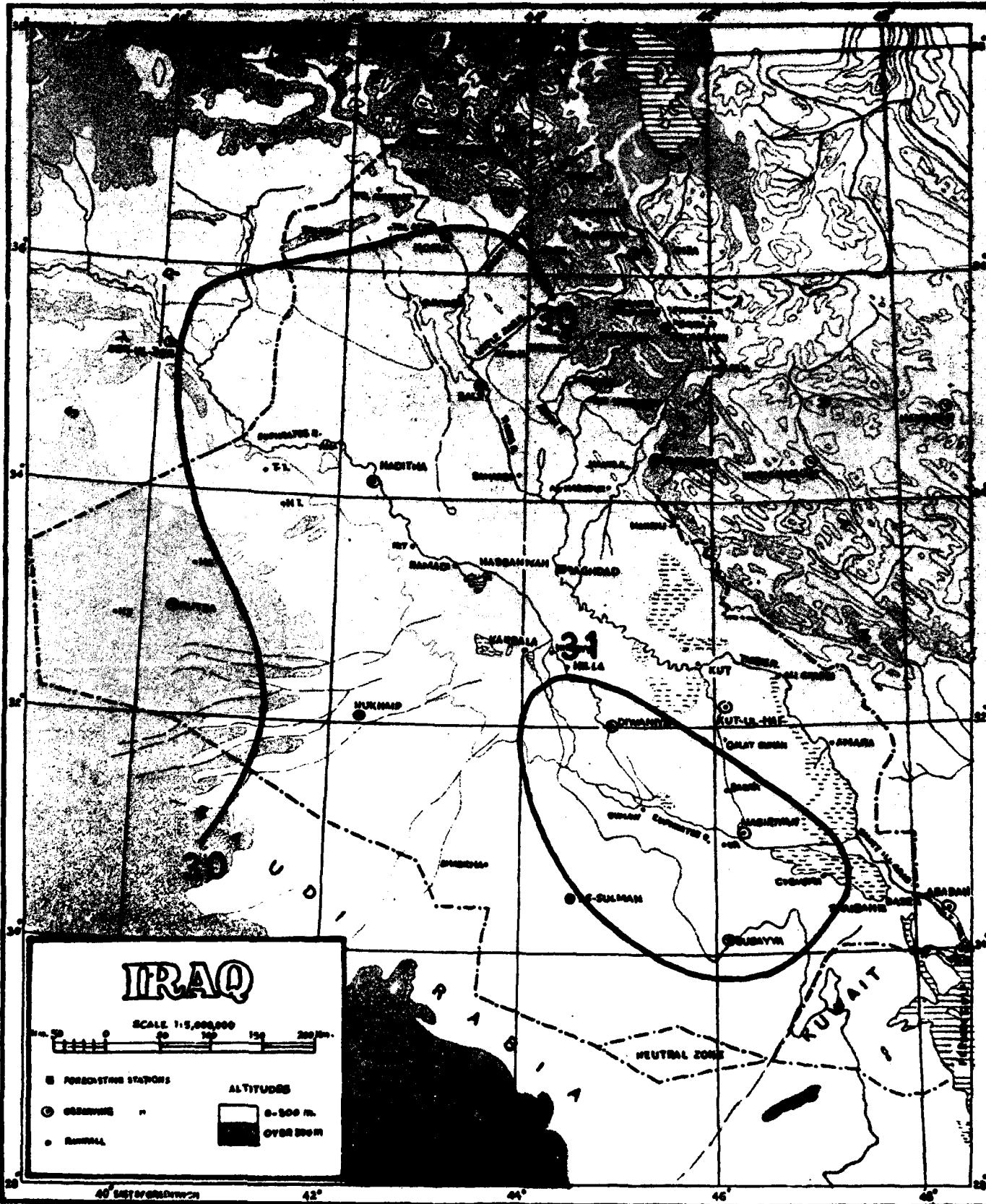
ALTITUDE

0-500 m.

OVER 500m

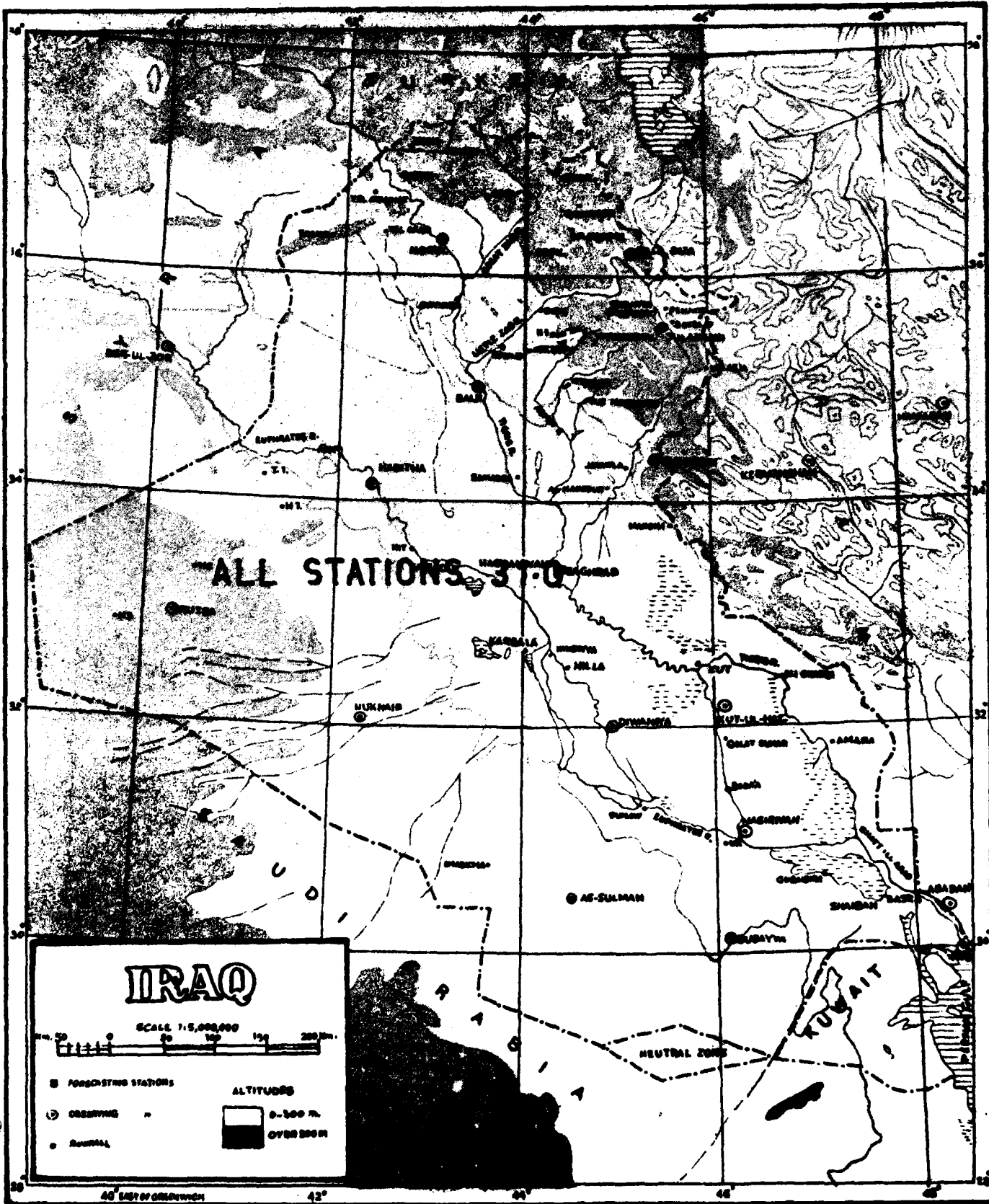
TEMPERATURE
 Mean Monthly Number of Days with Maximum Temperature $\geq 30^{\circ}\text{C}$ or More
 (continued from page 24)

MAY



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3

JULY



IRAQ

SCALE 1:5,000,000

0 50 100 150 200 Km.

FORECASTING STATIONS
 OBSERVING STATIONS
 RAINFALL

ALTITUDES

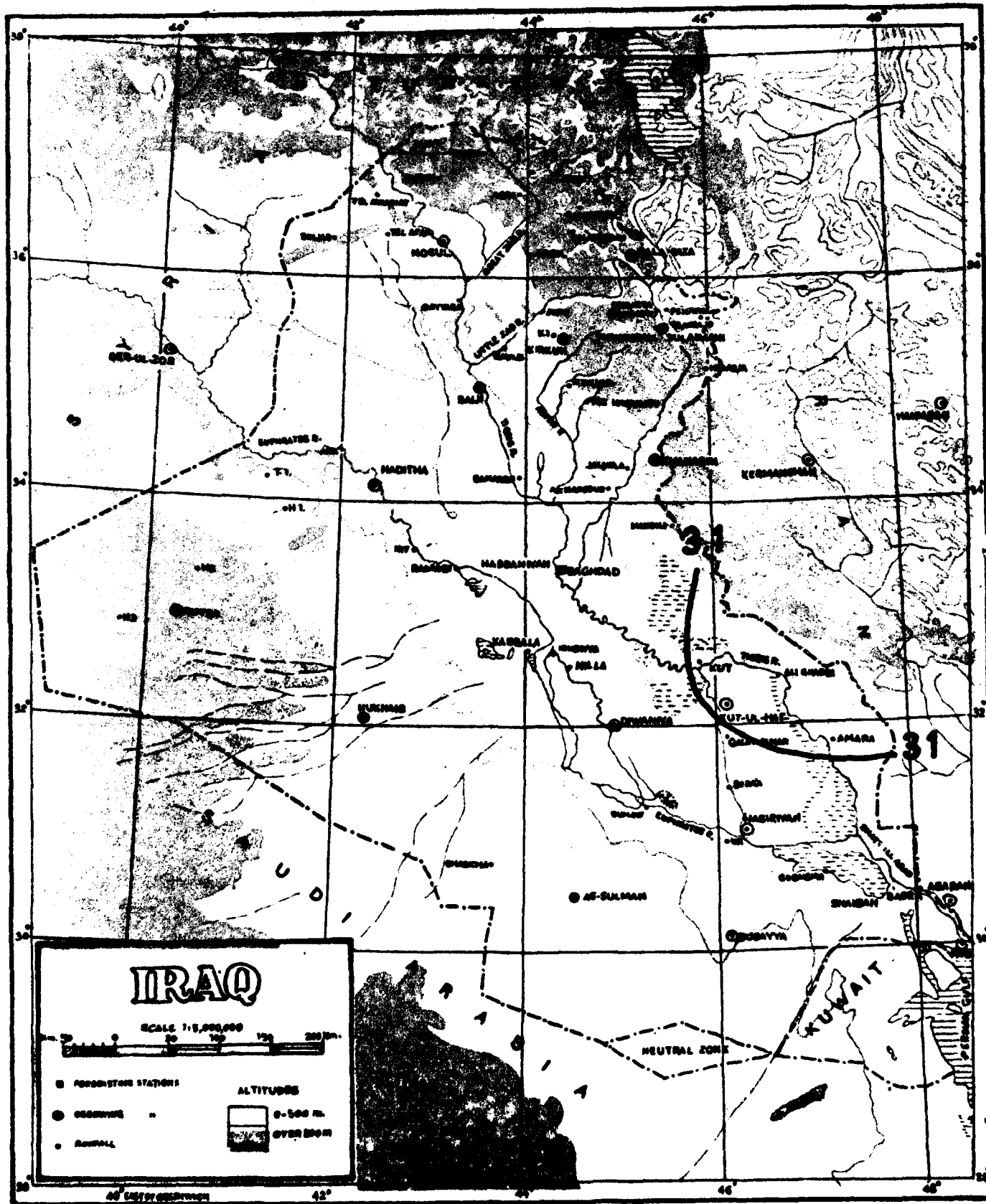
0-500 ft.
 OVER 500 ft.

TEMPERATURE

86

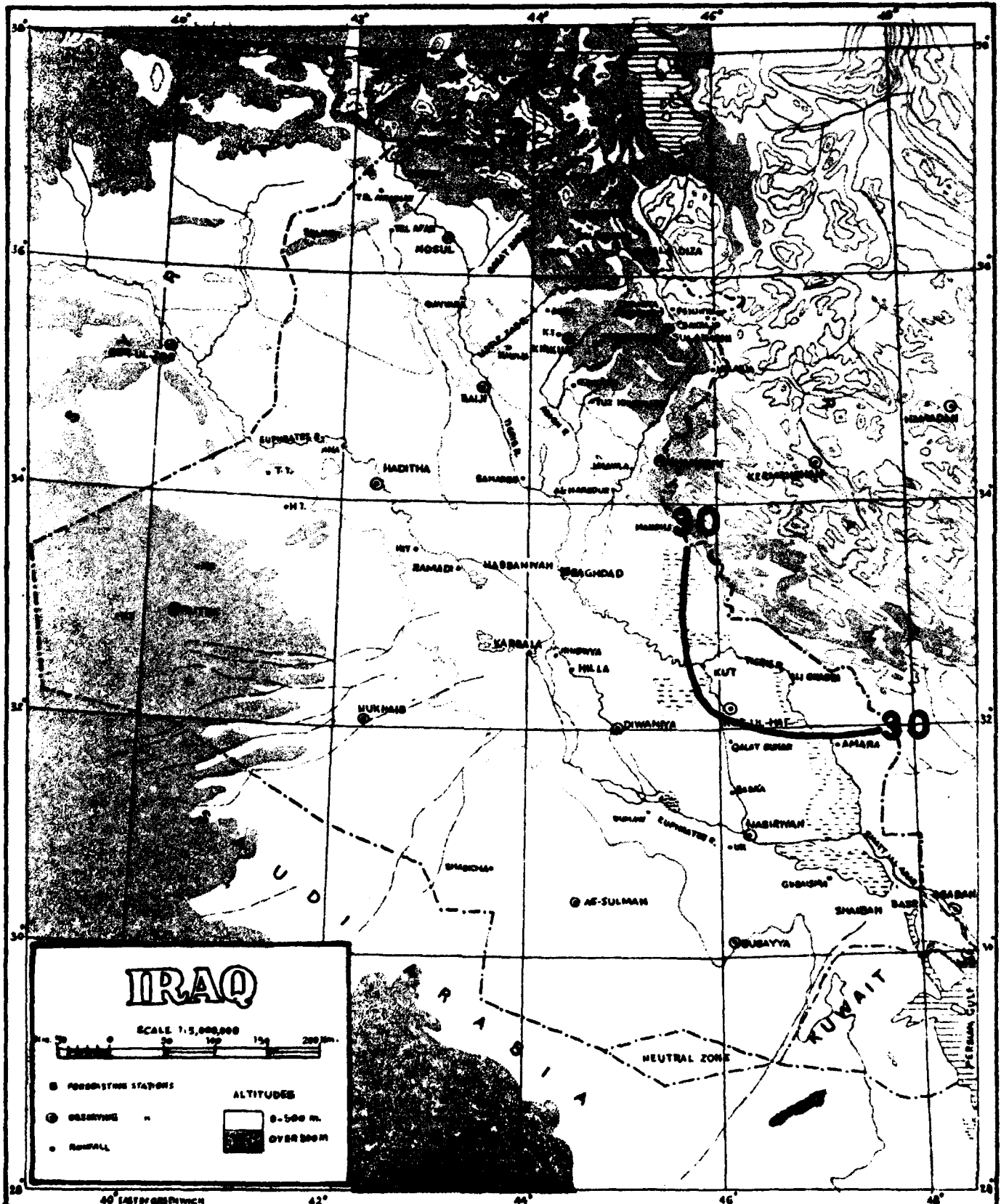
Mean Monthly Number of Days with Maximum Temperature 25°C or More
period of records see page 2/3

AUGUST



TEMPERATURE 87
 Mean Monthly Number of Days with Maximum Temperature 25°C or More
 period of records see page 2/3

SEPTEMBER



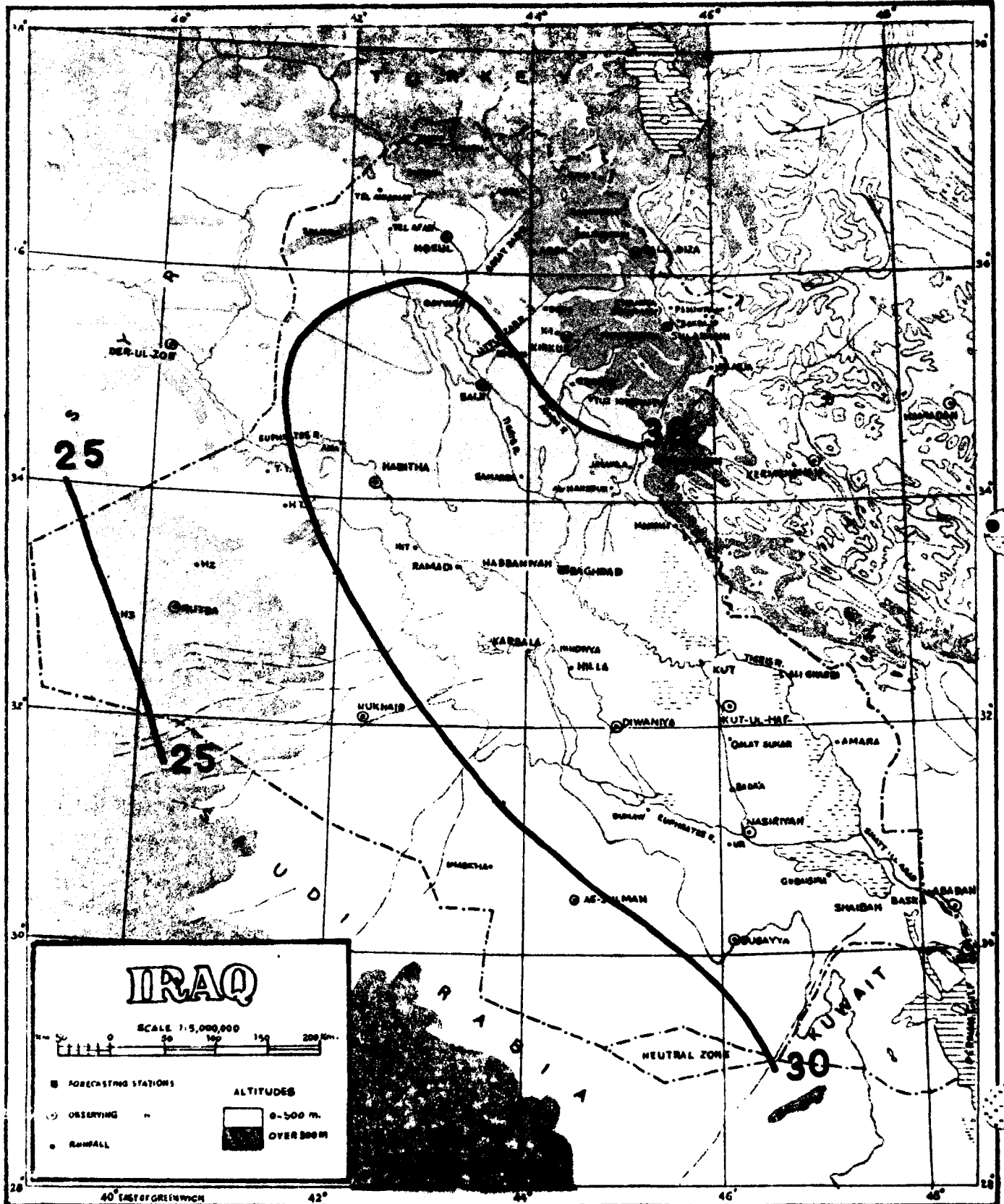
88

TEMPERATURE

Mean Monthly Number of Days with Maximum Temperature 25 C° or More

period of records see page 2/3

OCTOBER

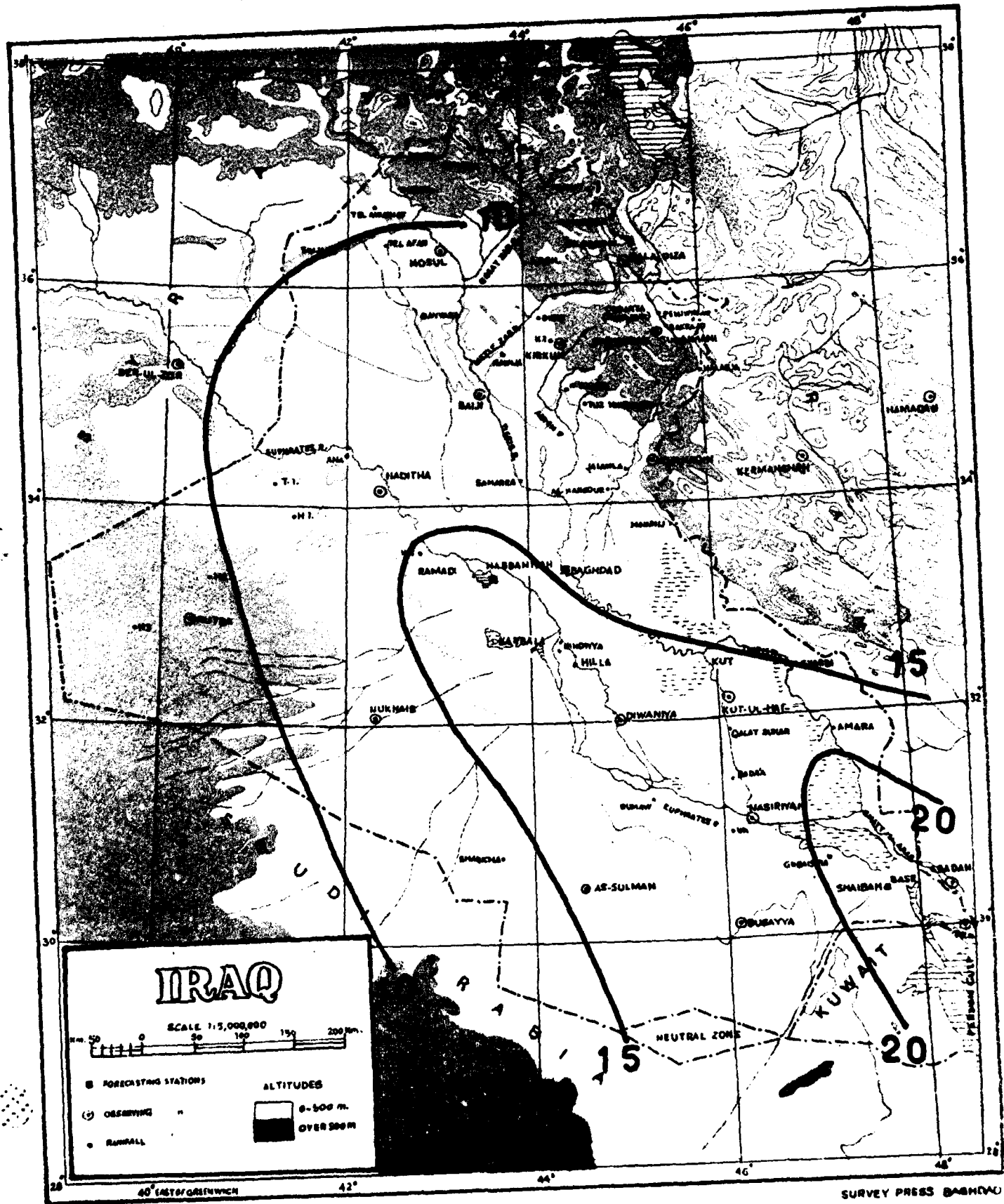


89

TEMPERATURE

Mean Monthly Number of Days with Maximum Temperature 25 C° or More
 period of records see page 2/3

NOVEMBER

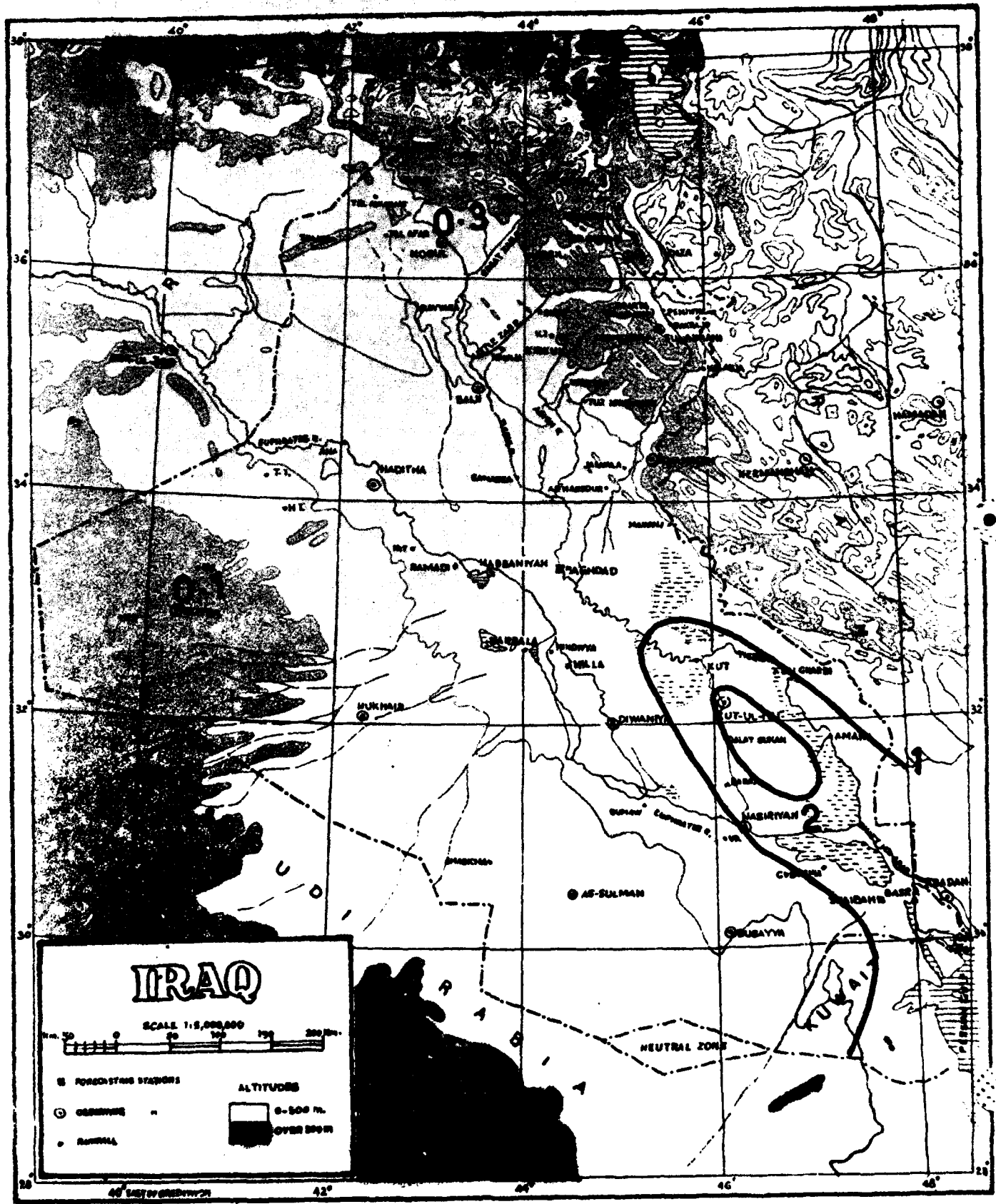


90

TEMPERATURE

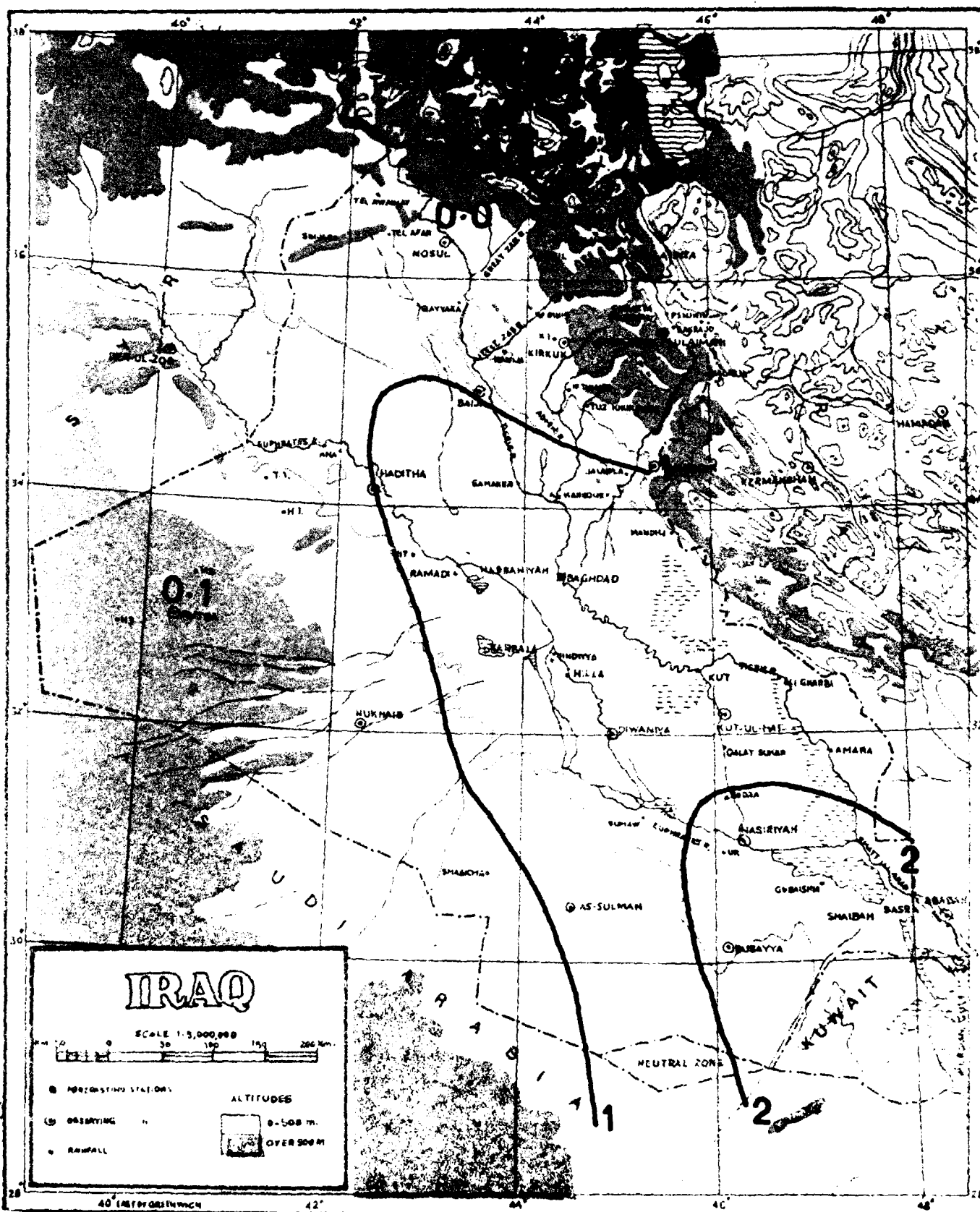
Mean Monthly Number of Days with Maximum Temperature 25° or More
period of records see page 2/3

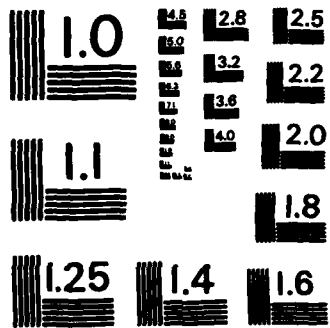
DECEMBER



TEMPERATURE 91
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3

MARCH



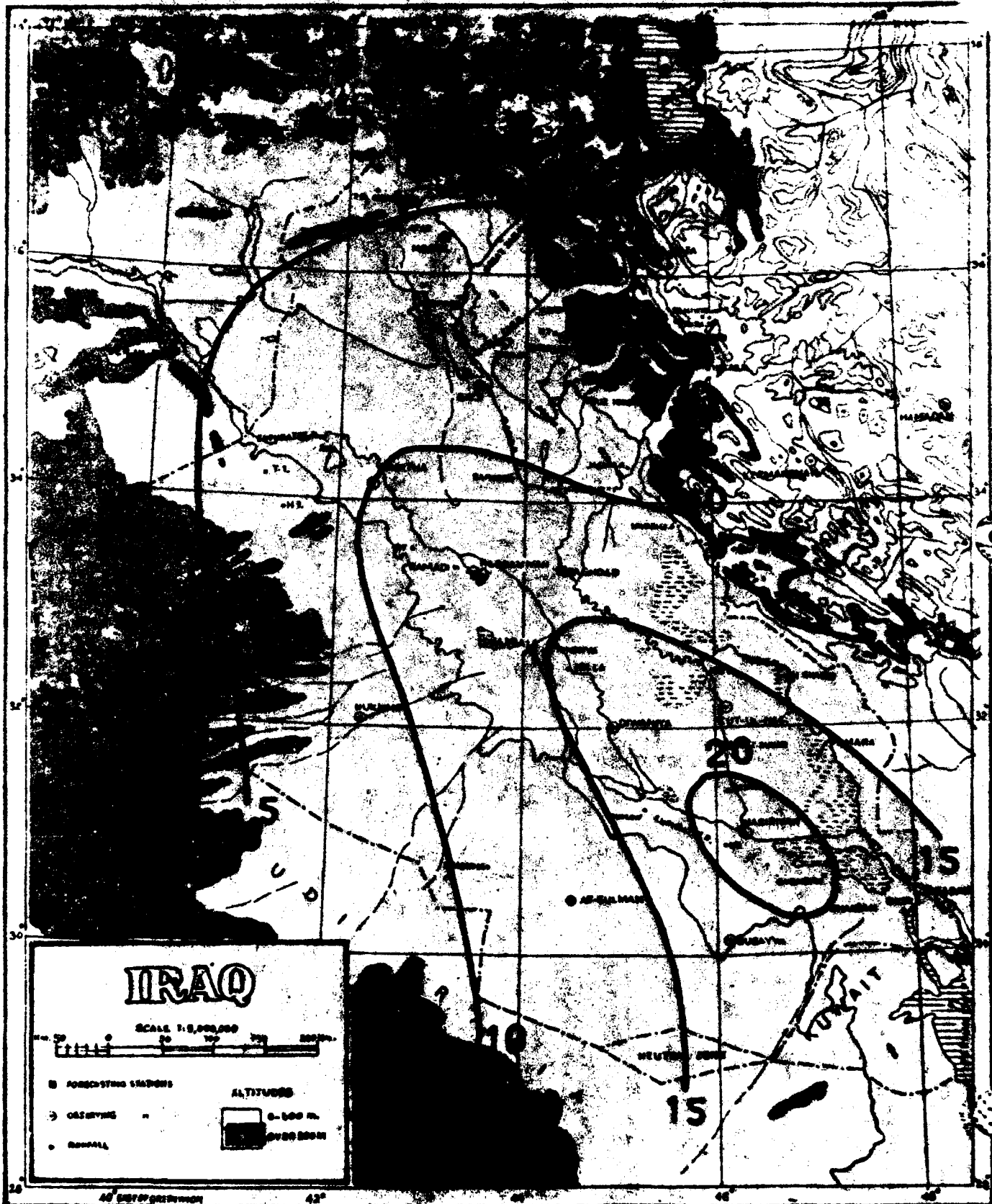


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TEMPERATURE
 Mean Monthly Number of Days with Maximum Temperature 30 C or More
 period of records see page 23

92

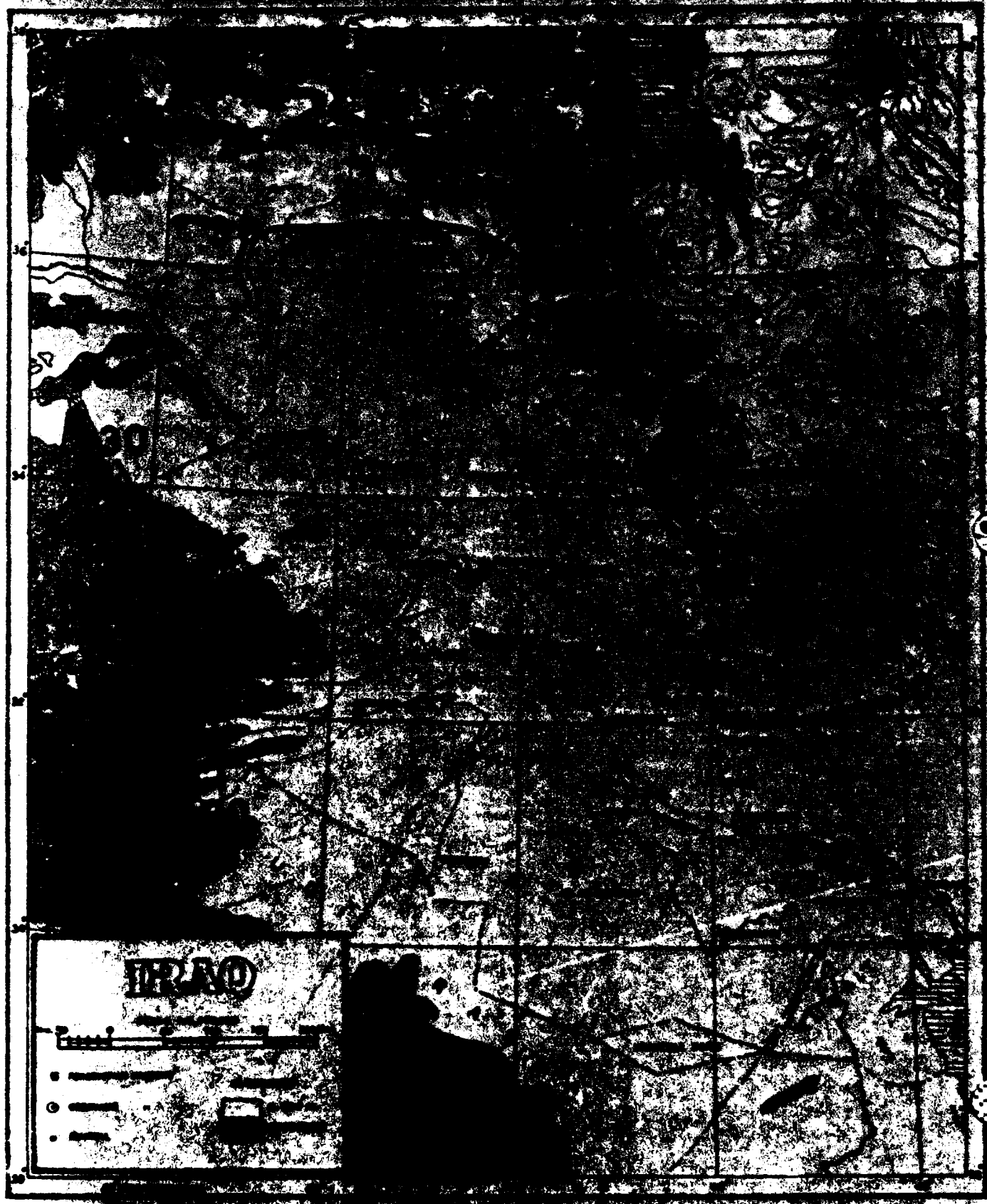
APRIL





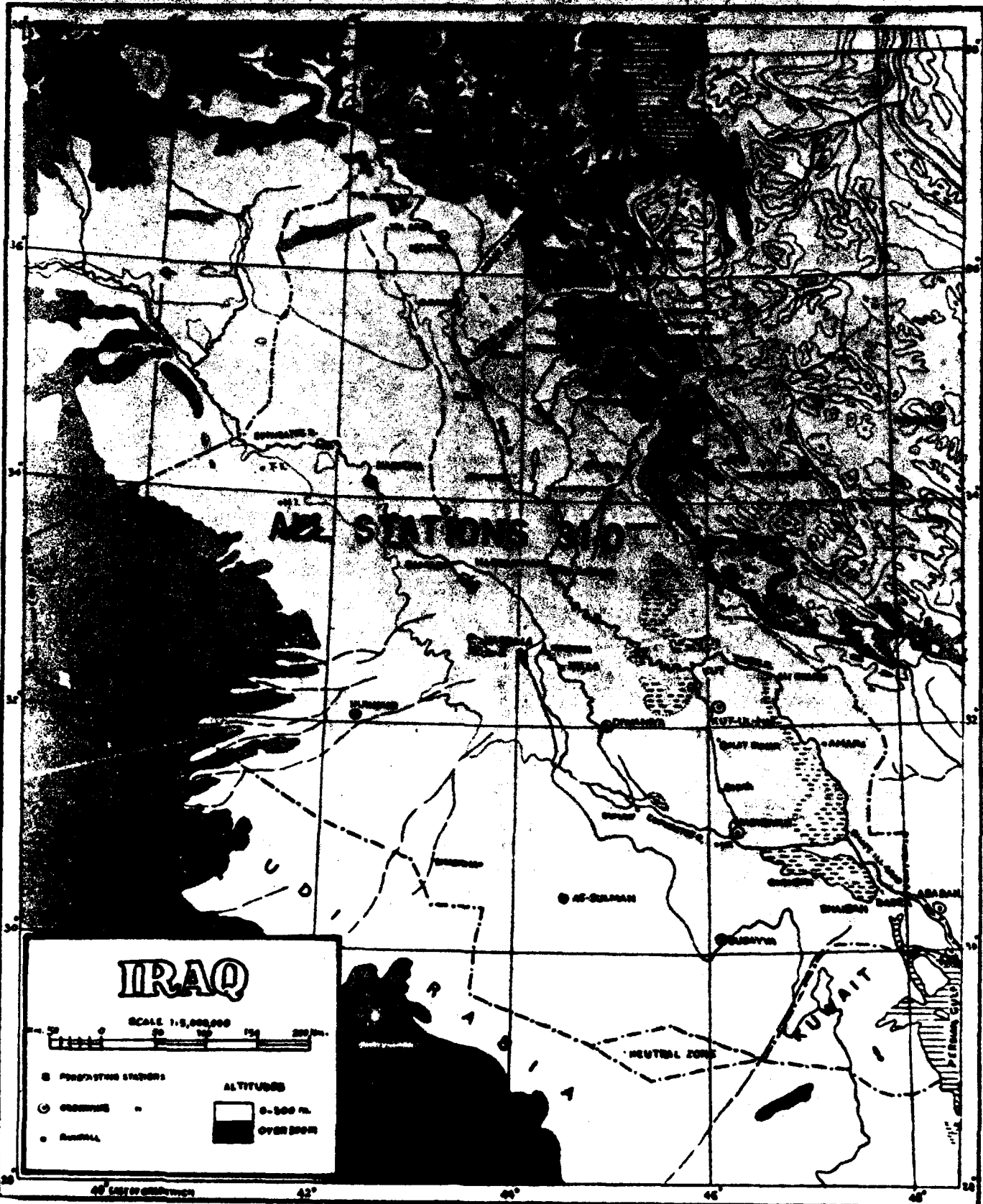
IRAQ

- Major cities
- National boundaries
- International boundaries
- Water bodies
- Topographic features



TEMPERATURE

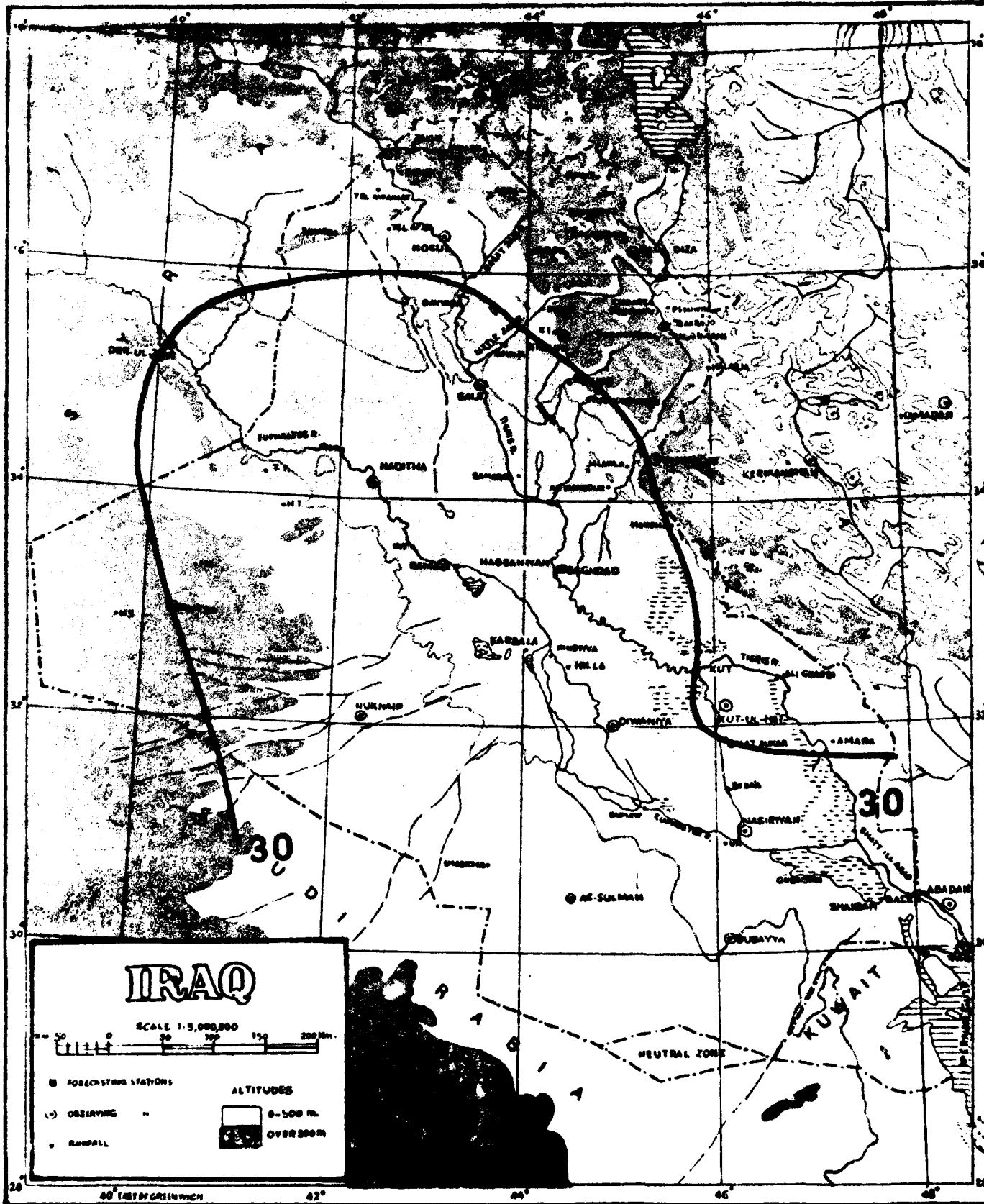
JULY AUGUST



TEMPERATURE
 Mean Monthly Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3

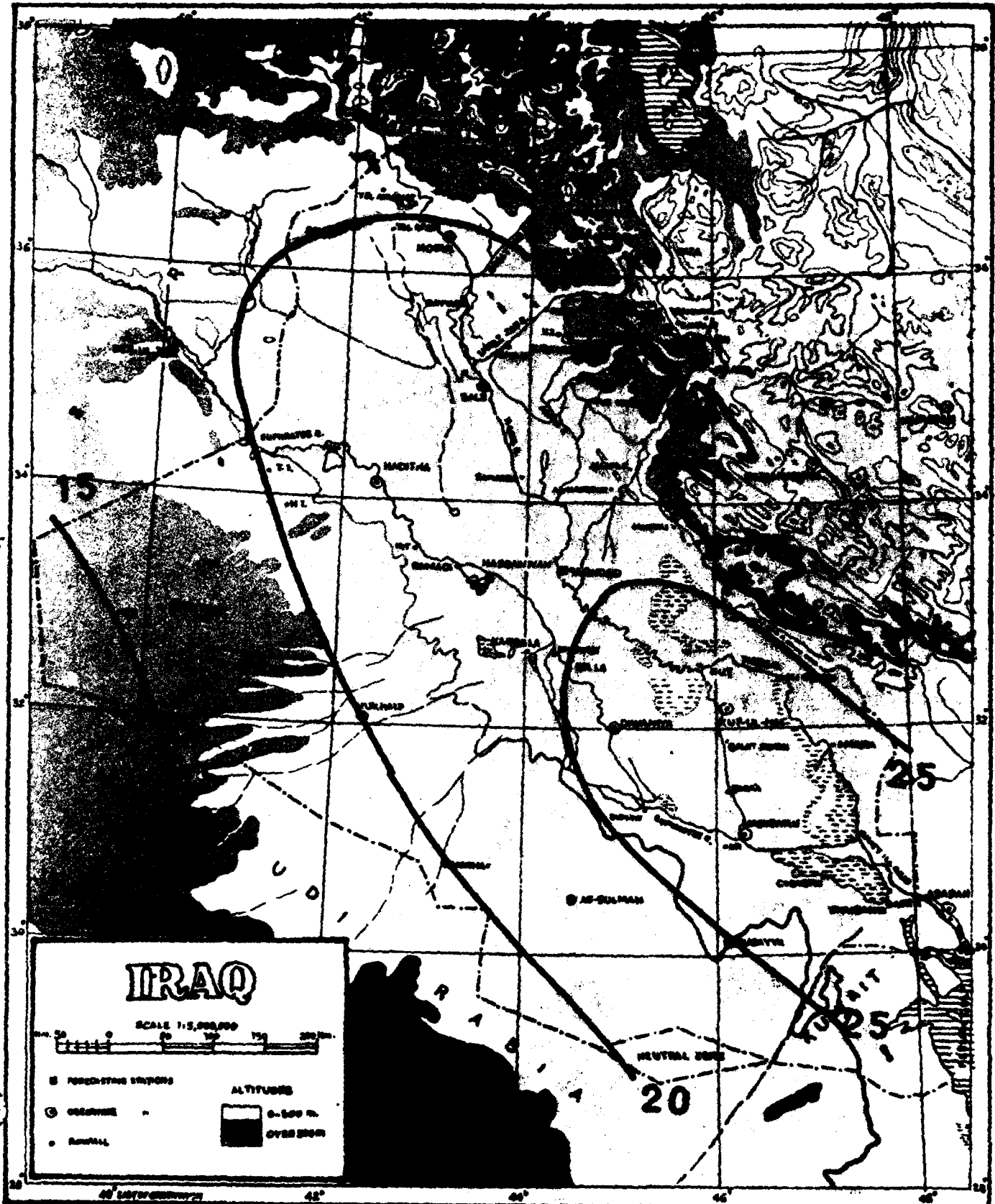
96

SEPTEMBER

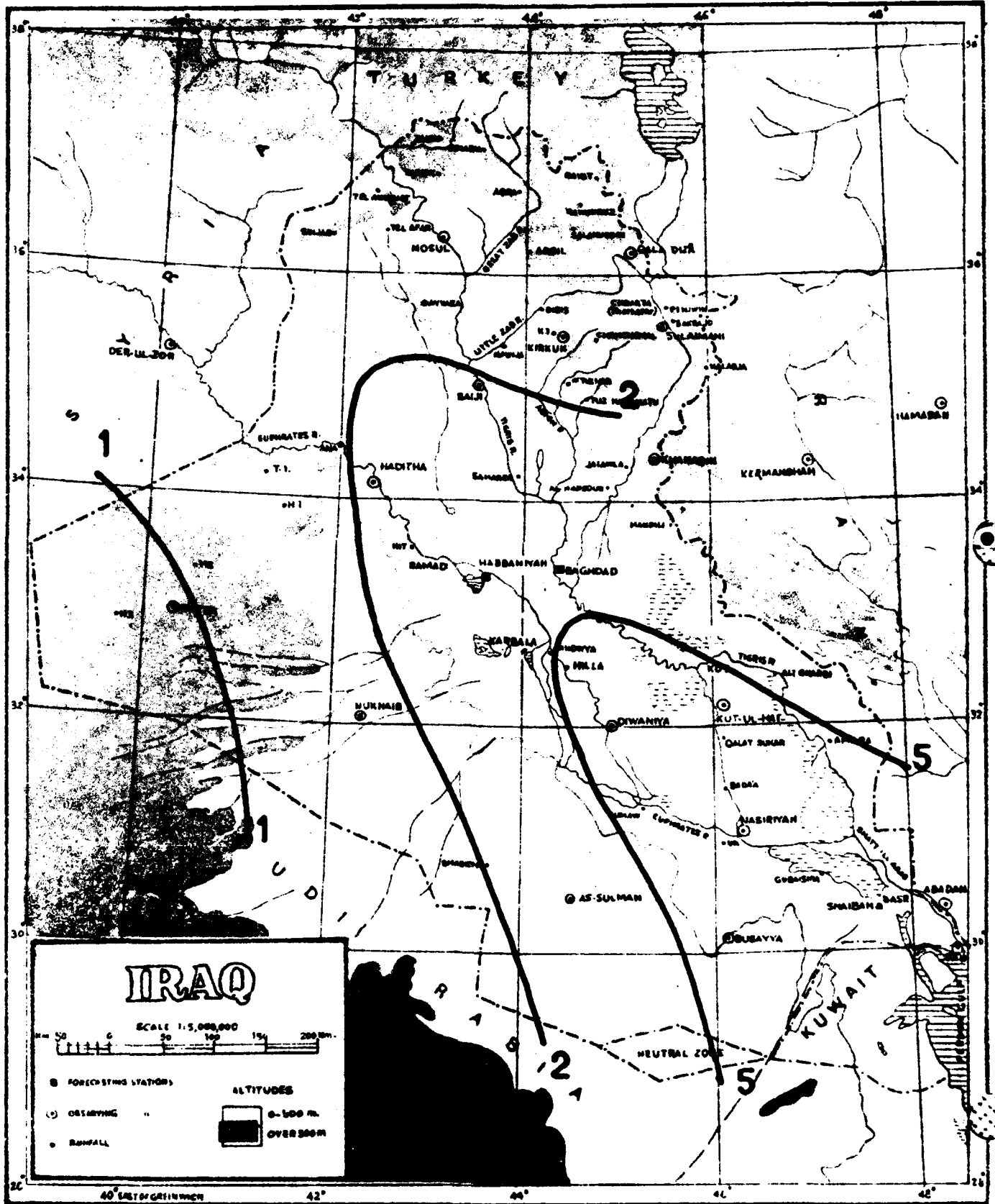


TEMPERATURE 97
Mean Monthly Number of Days with Maximum Temperature 30 C° or More
 period of records see page 2/3

OCTOBER



TEMPERATURE 98
Mean Monthly Number of Days with Maximum Temperature 30°C or More
 period of records see page 2/3
NOVEMBER

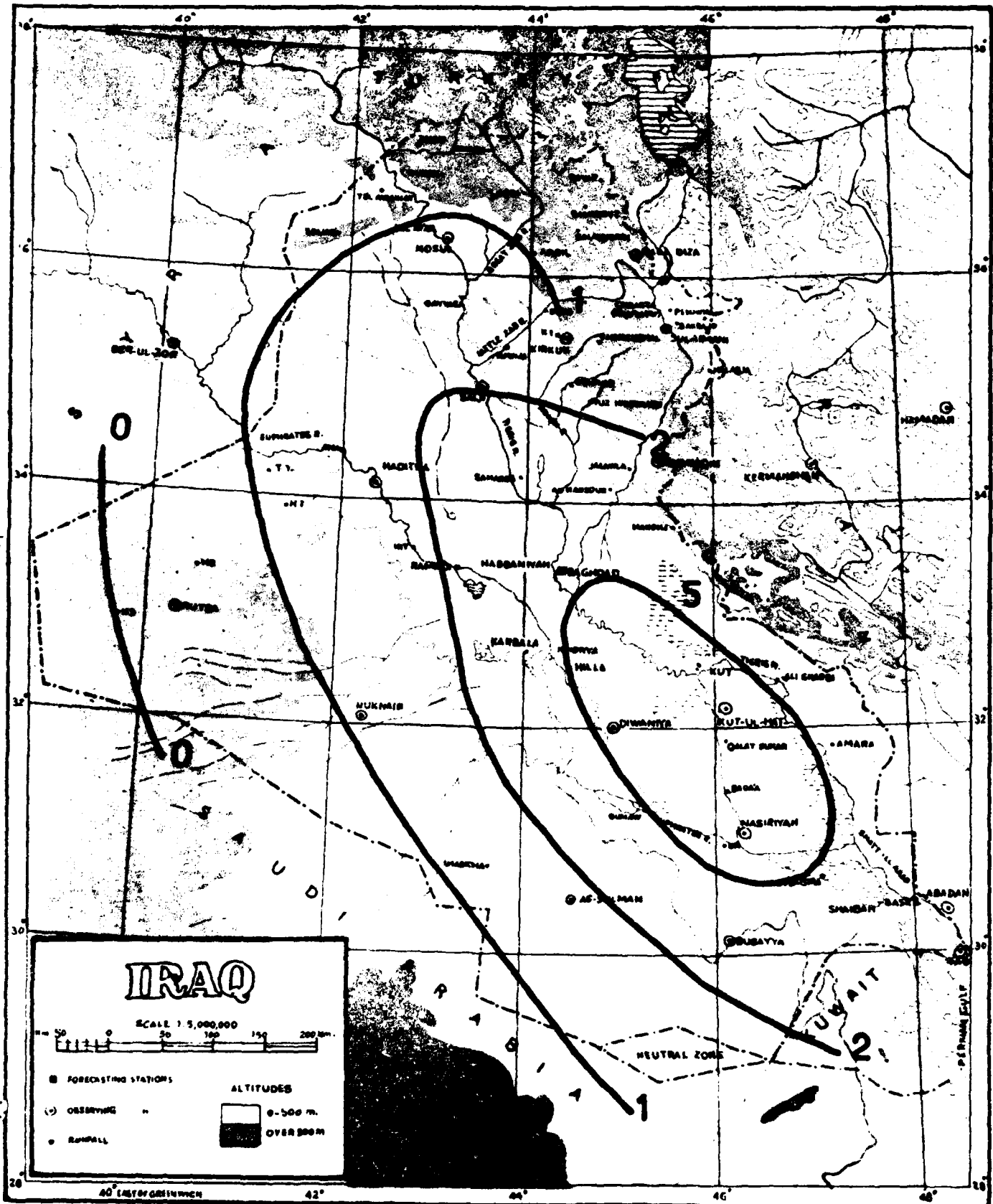


TEMPERATURE

Mean Monthly Number of Days with Maximum Temperature 40°C or More
period of records see page 2/3

99

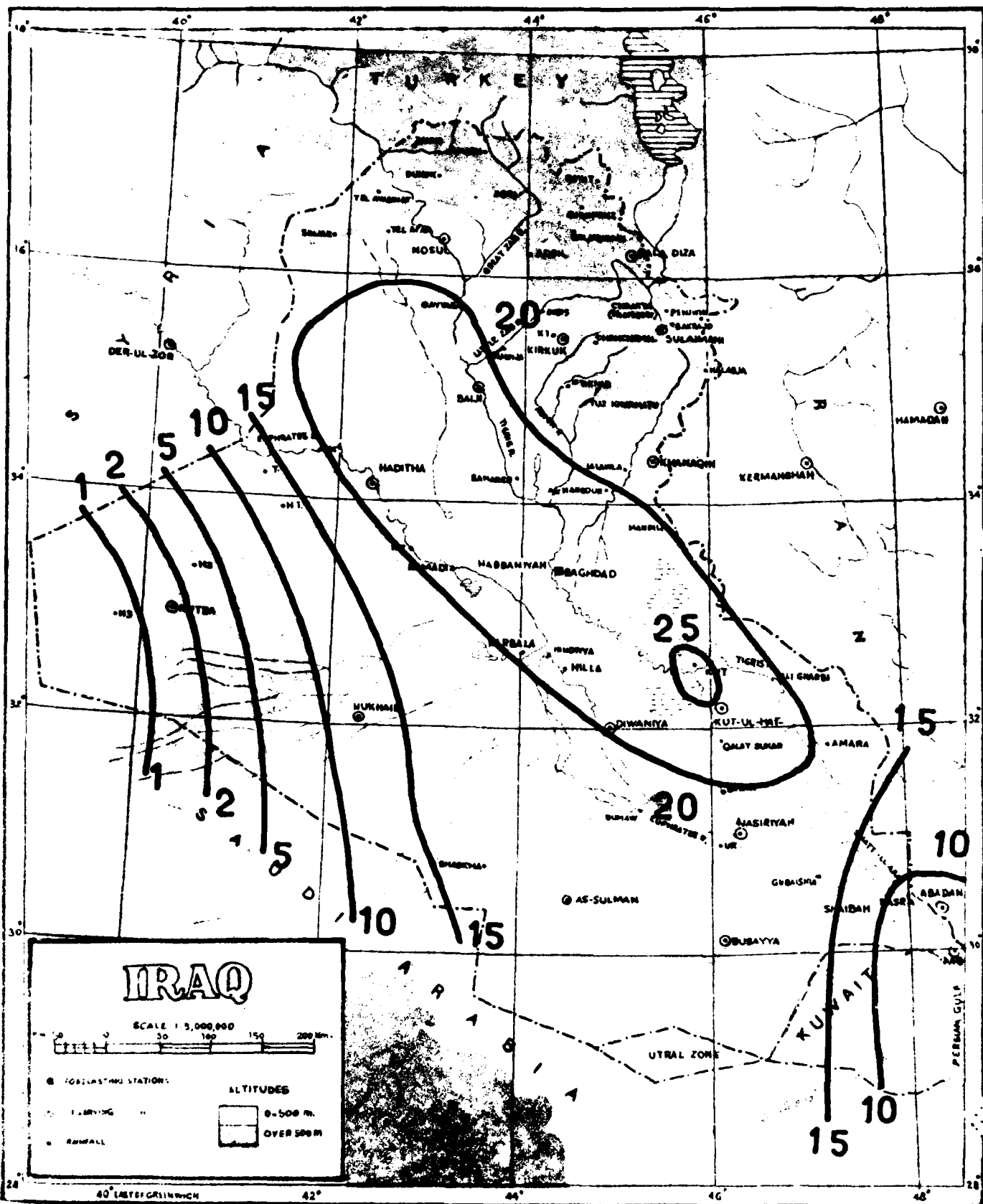
MAY



TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 40°C or More
 period of records see page 2/3

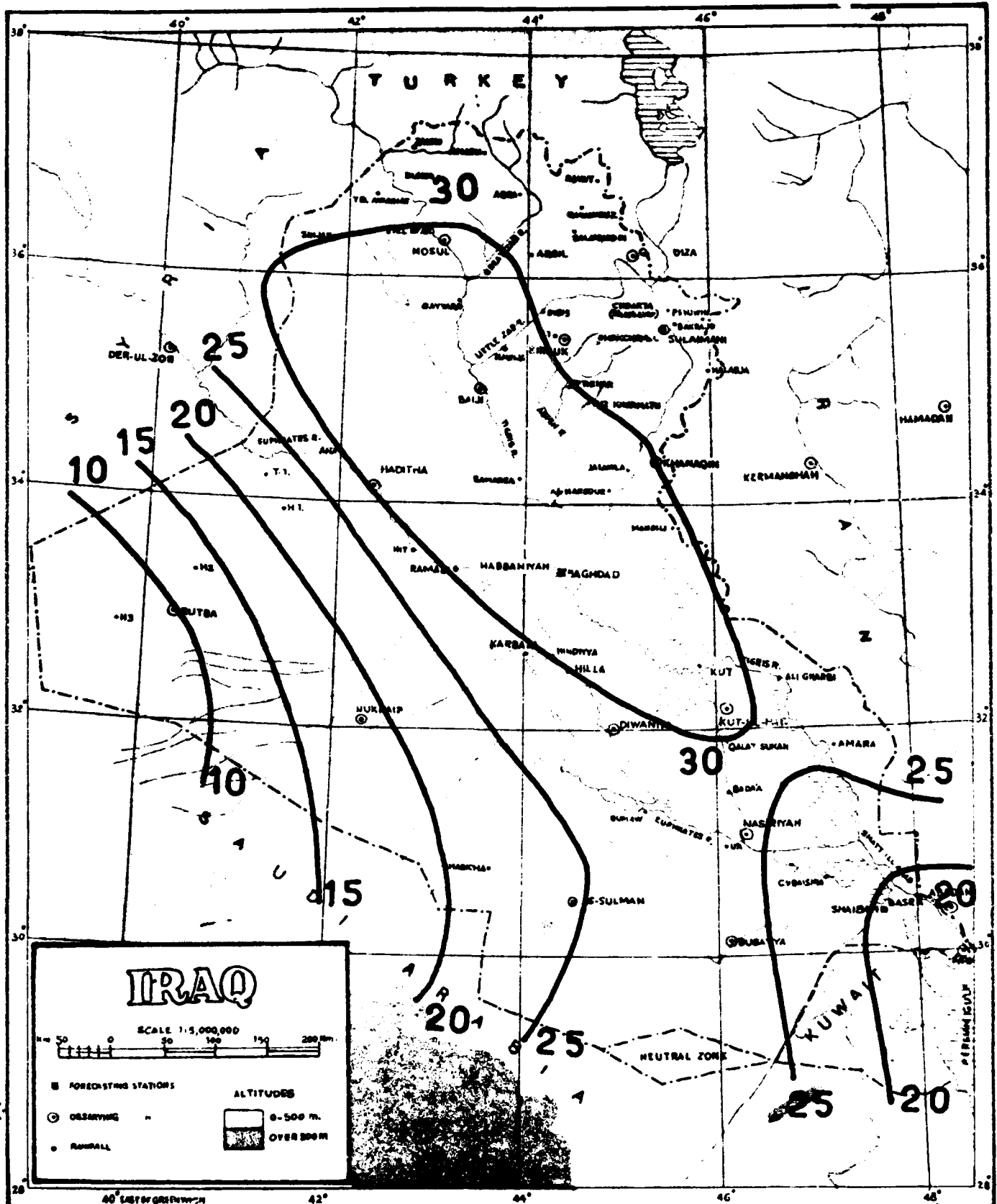
100

JUNE



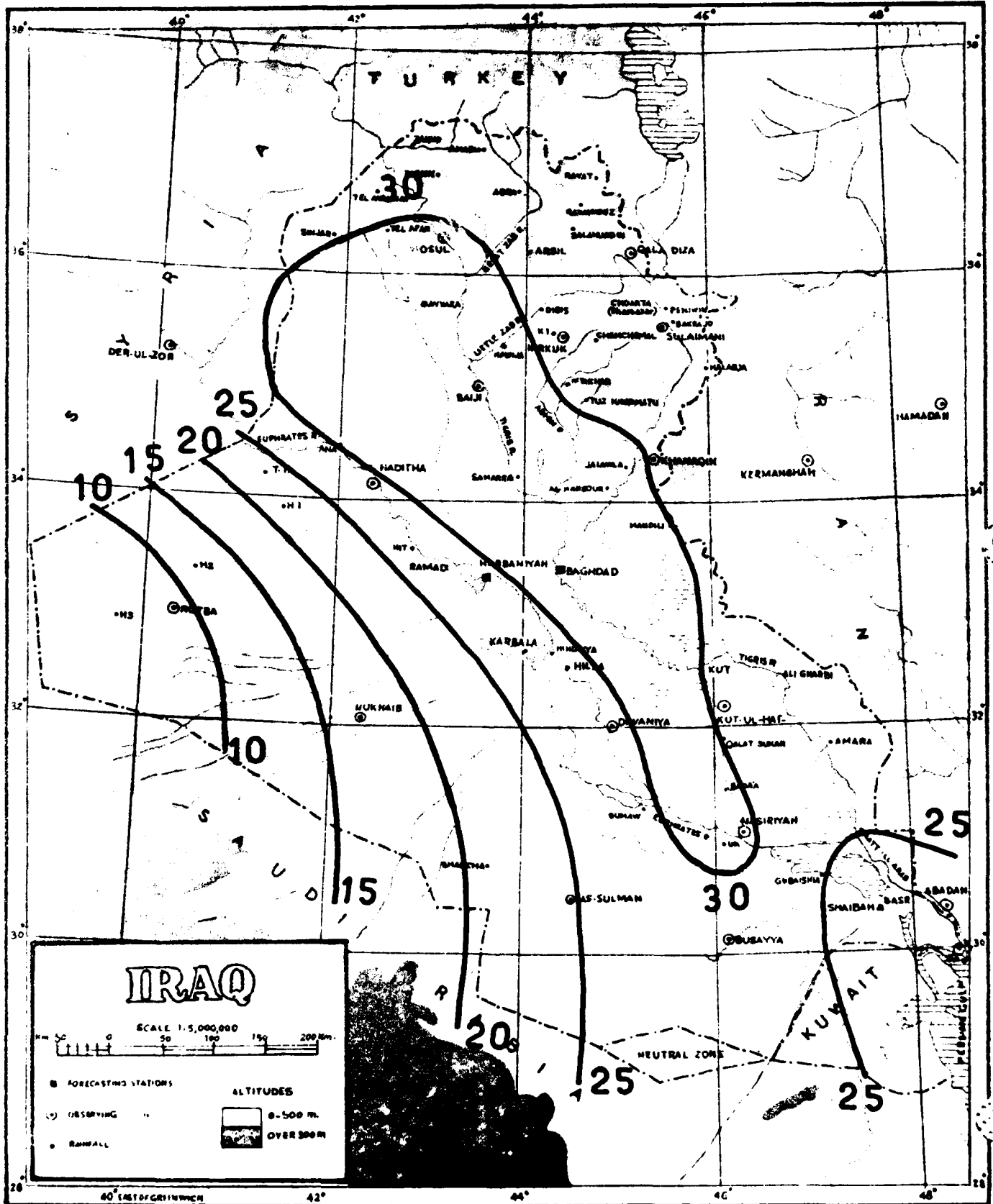
TEMPERATURE 101
Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

JULY



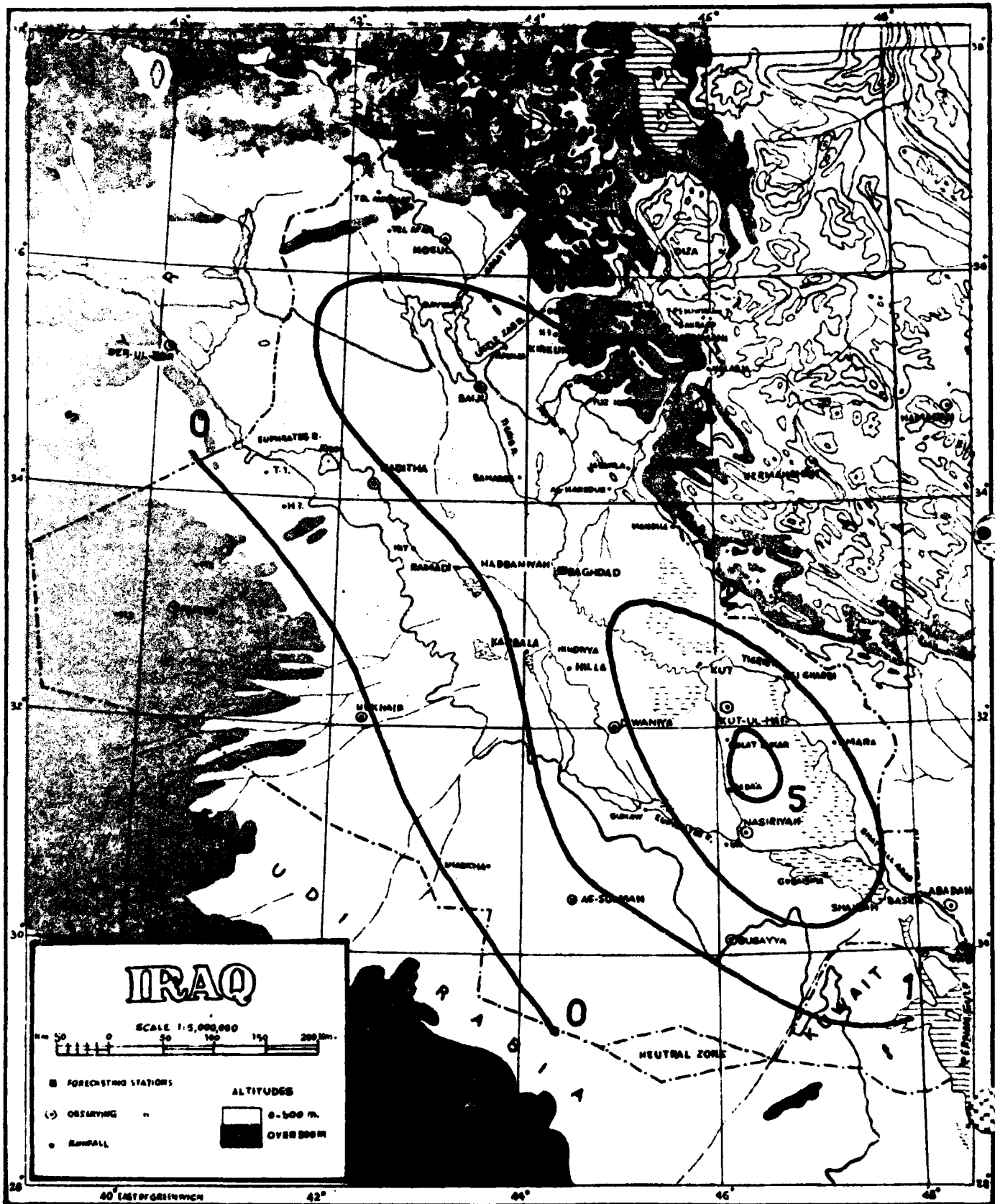
TEMPERATURE 102
Mean Monthly Number of Days with Maximum Temperature 40°C or More
 period of records see page 2/3

AUGUST



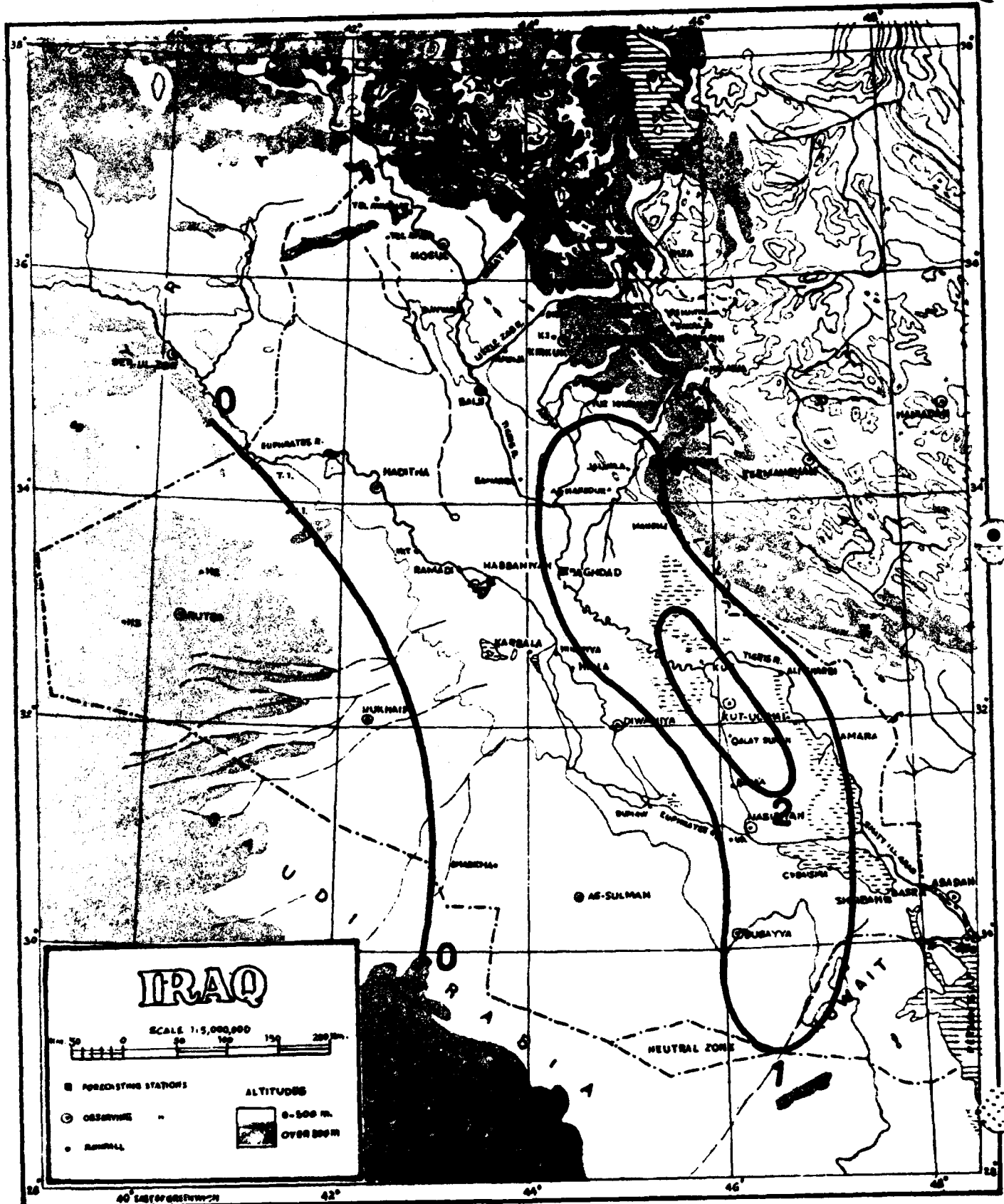
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 40 C° or More
 period of records see page 2/3

OCTOBER



TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

JUNE

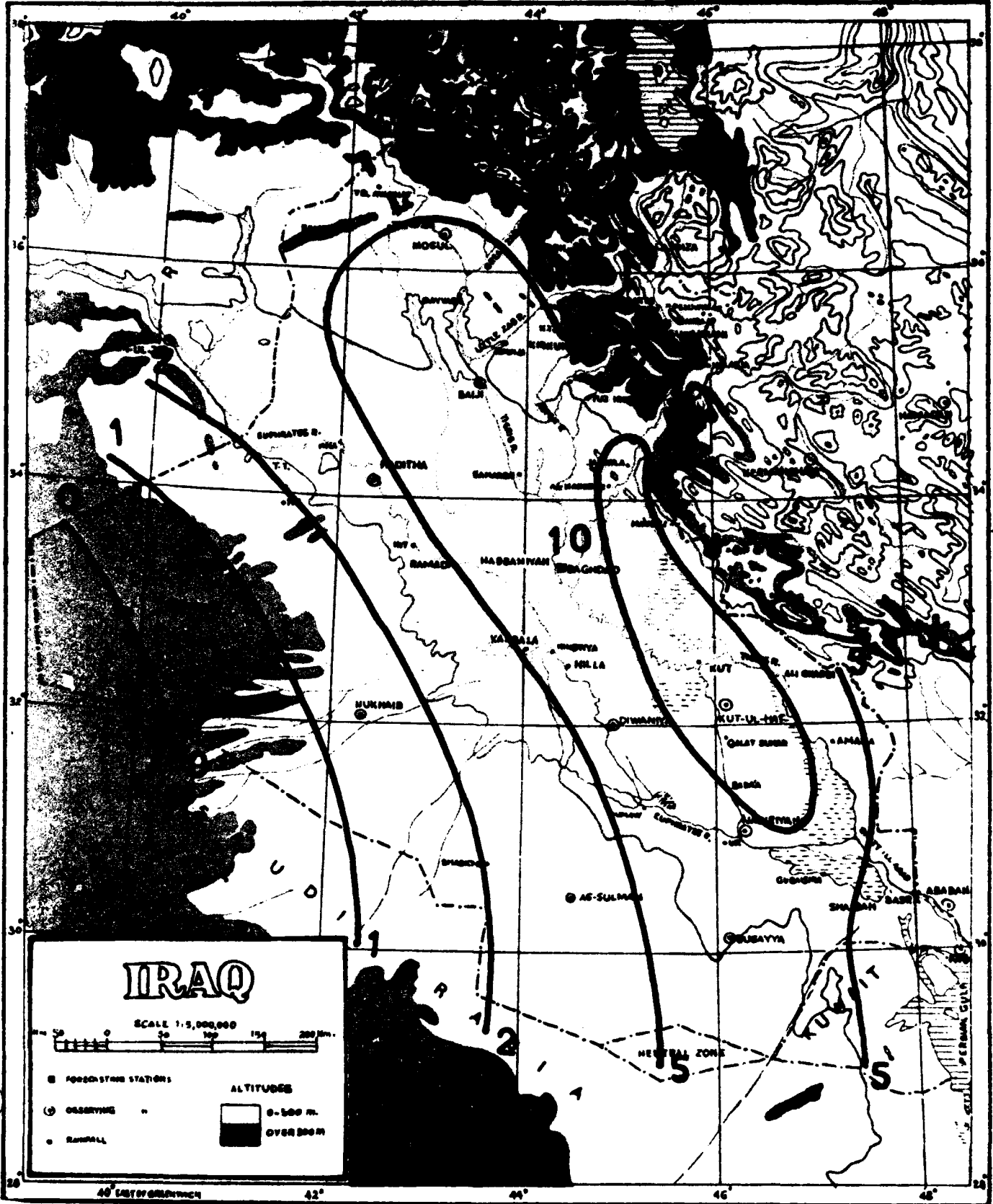


TEMPERATURE

Mean Monthly Number of Days with Temperature Maximum Exceeding 45°C
period of records see page 2/3

197

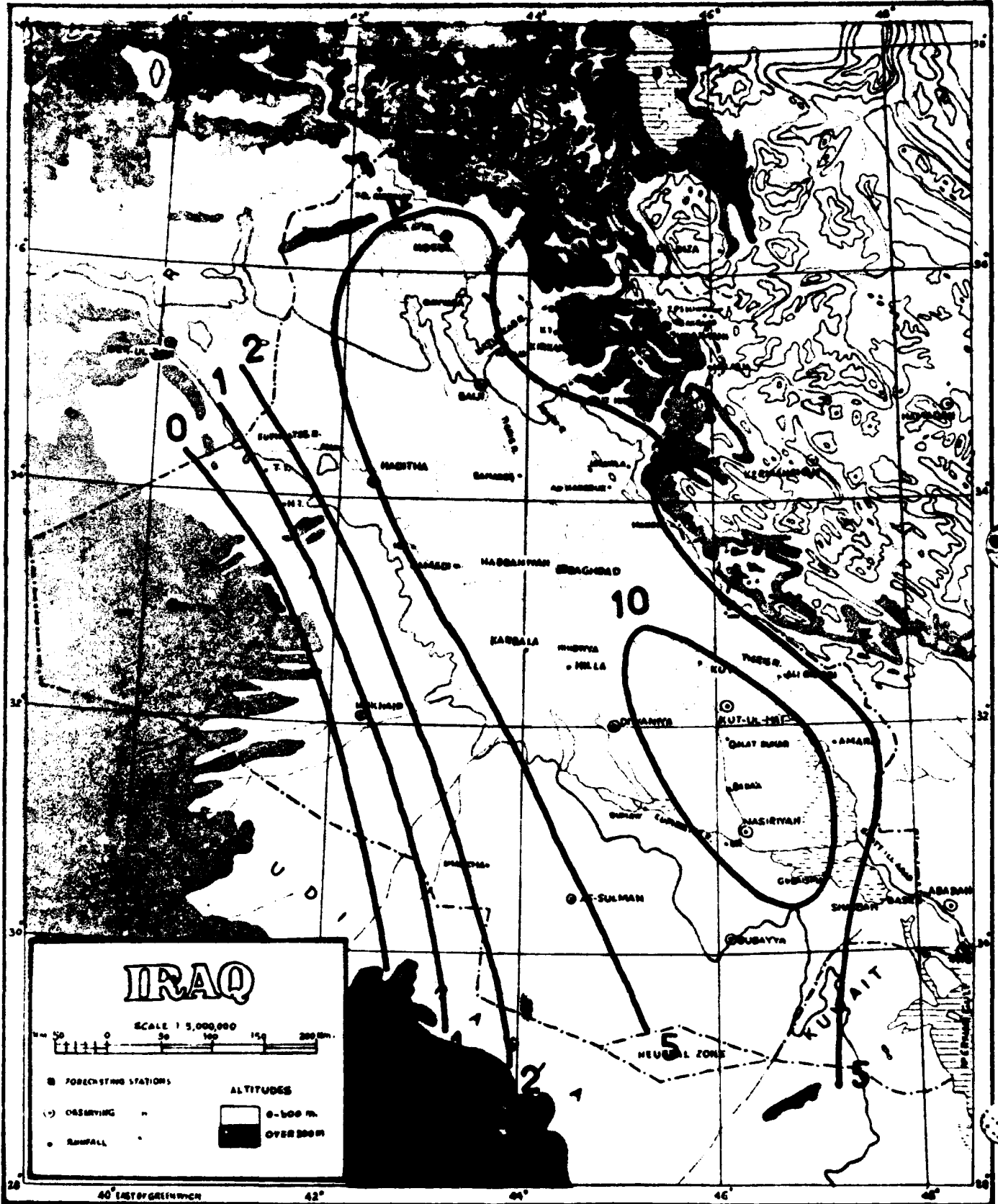
JULY



108

TEMPERATURE
Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

AUGUST

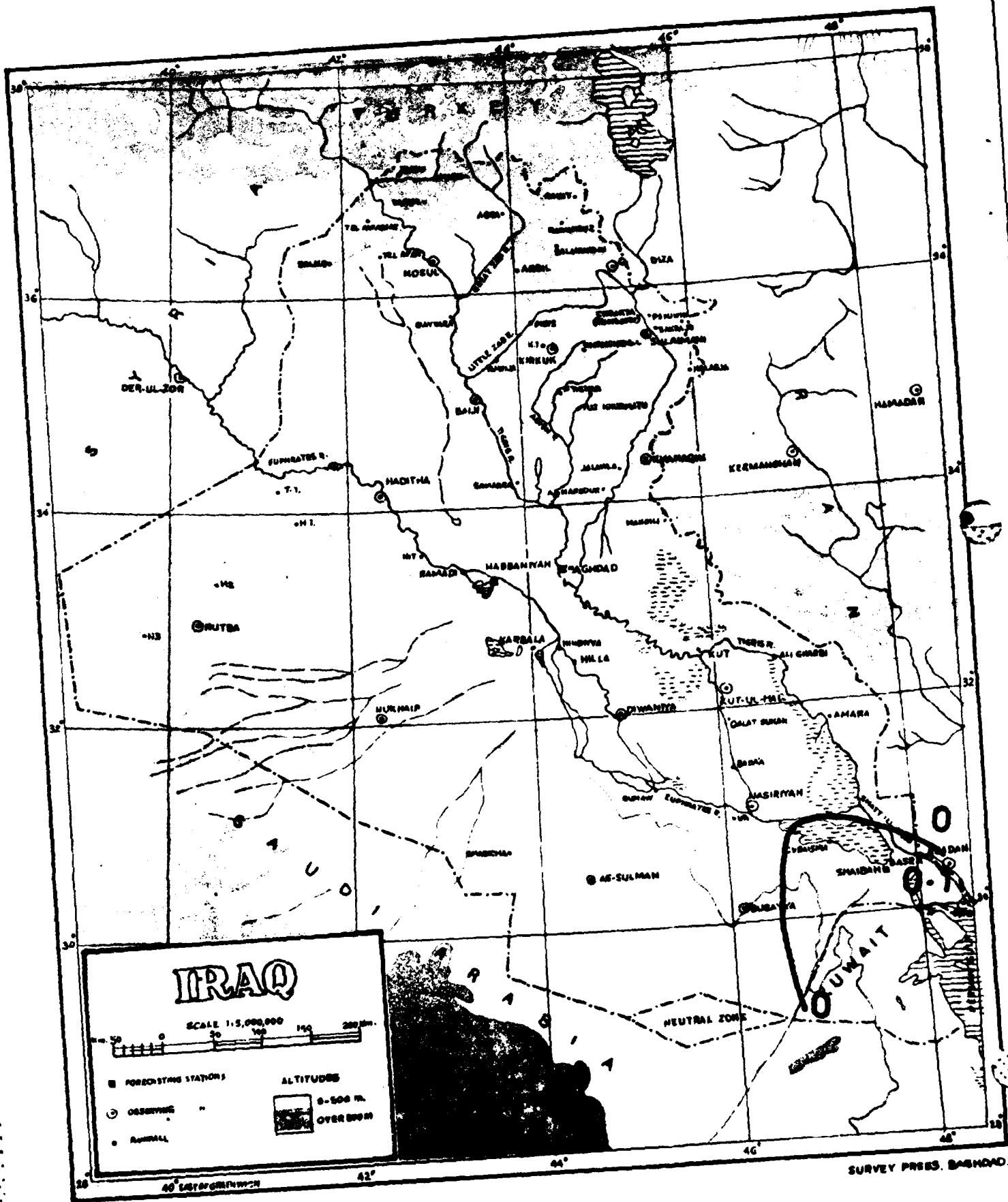


110

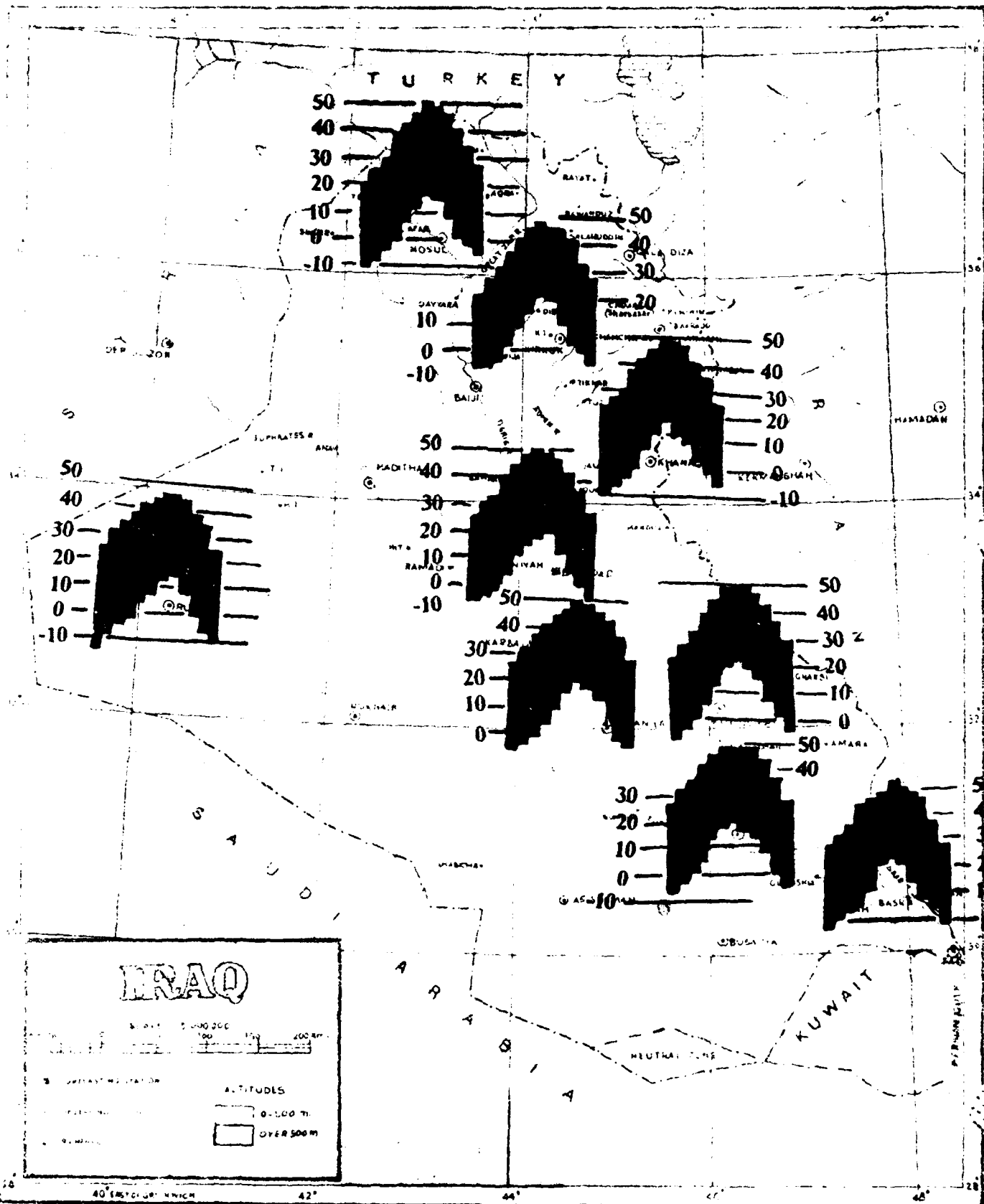
TEMPERATURE

Mean Monthly Number of Days with Temperature Maximum Exceeding 45 C°
 period of records see page 2/3

OCTOBER



TEMPERATURE
Highest Maximum and Lowest Minimum
ever observed for each month of the year
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3



IRAQ

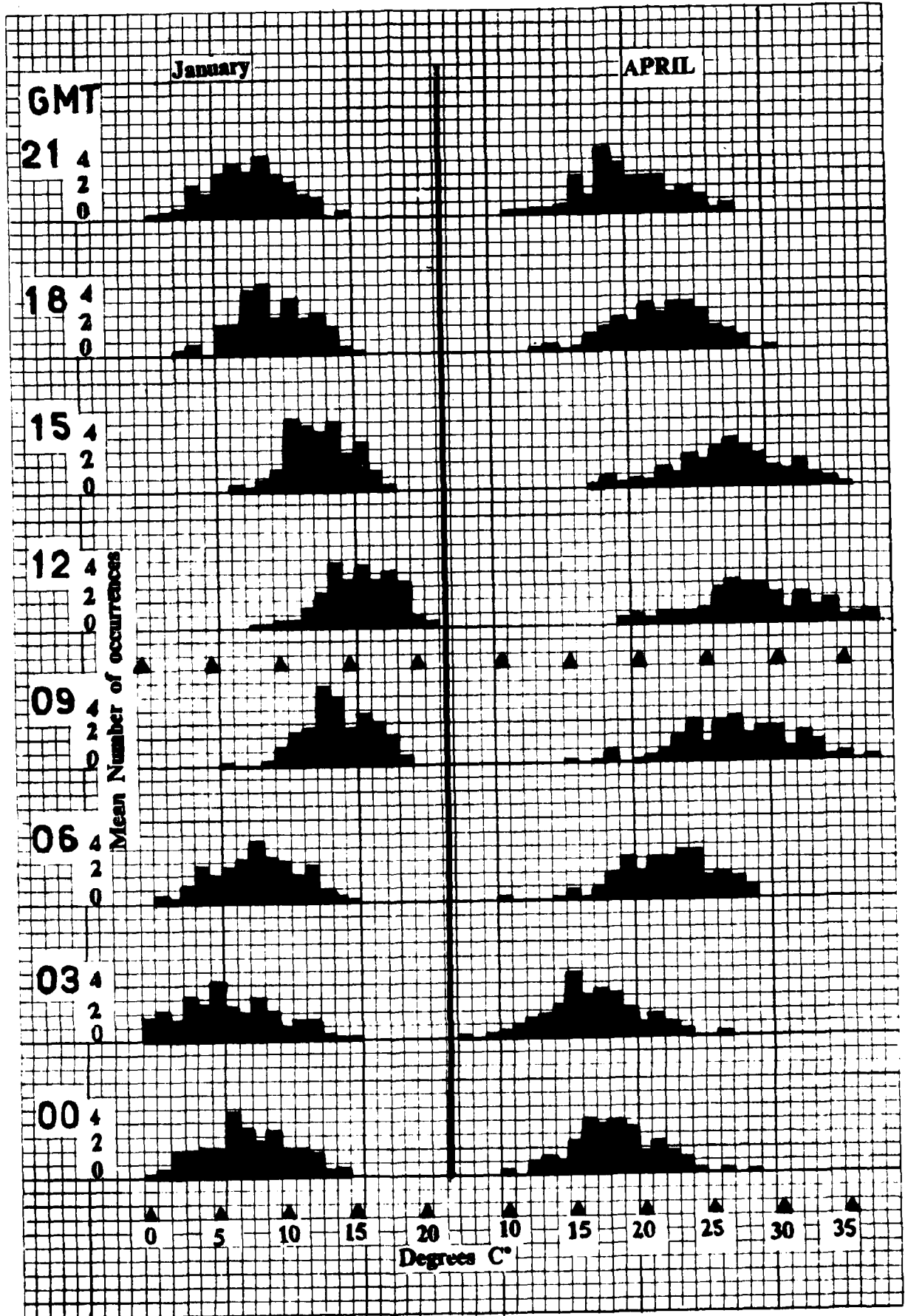
SCALE 1:500,000

0 100 200 KM

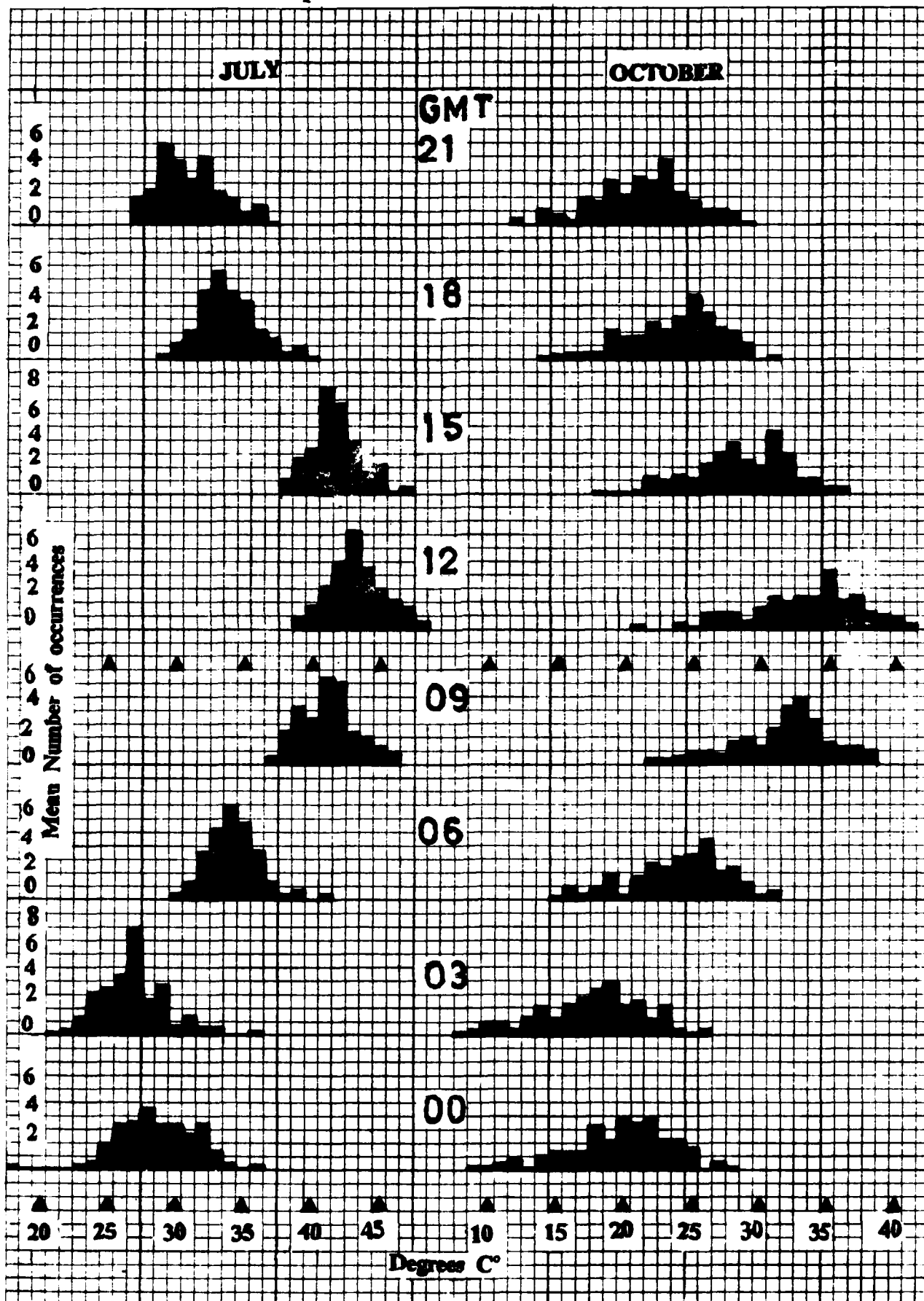
1. CAPITAL BAGHDAD
 2. MAJOR TOWNS
 3. RAILWAYS
 4. NATIONAL BOUNDARIES

ALTITUDES
 0-500 M
 OVER 500 M

TEMPERATURE
Mean Number of Specified Values
of Surface Dry Bulb Temperature
at Baghdad Airport
period of records 1951-1955



Mean Number of Specified Values
of Surface Dry Bulb Temperature
at Baghdad Airport
period of records 1951—1955

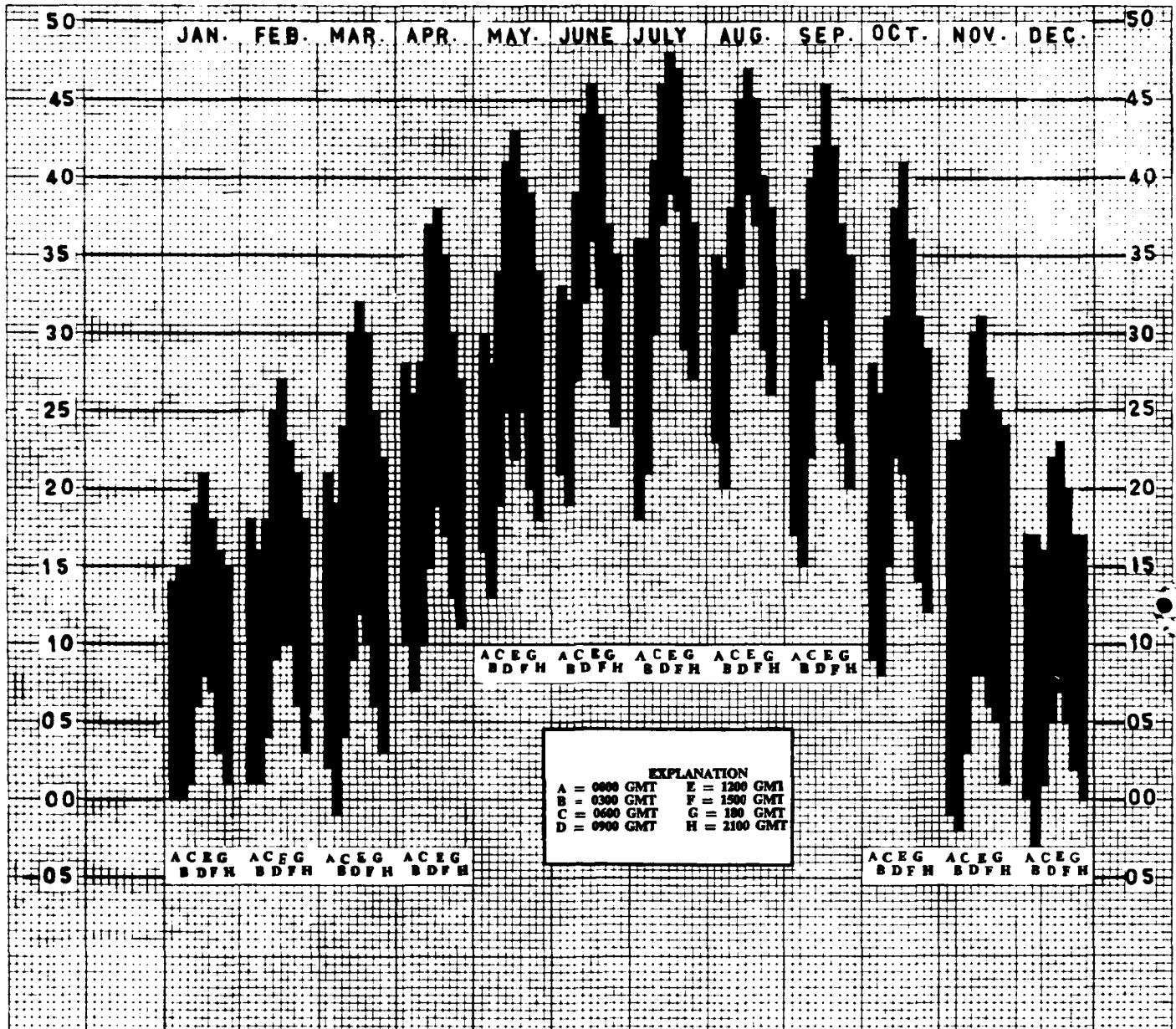


MONTHLY TEMPERATURE RANGES FOR SELECTED HOURS AT BAGHDAD AIRPORT

115A

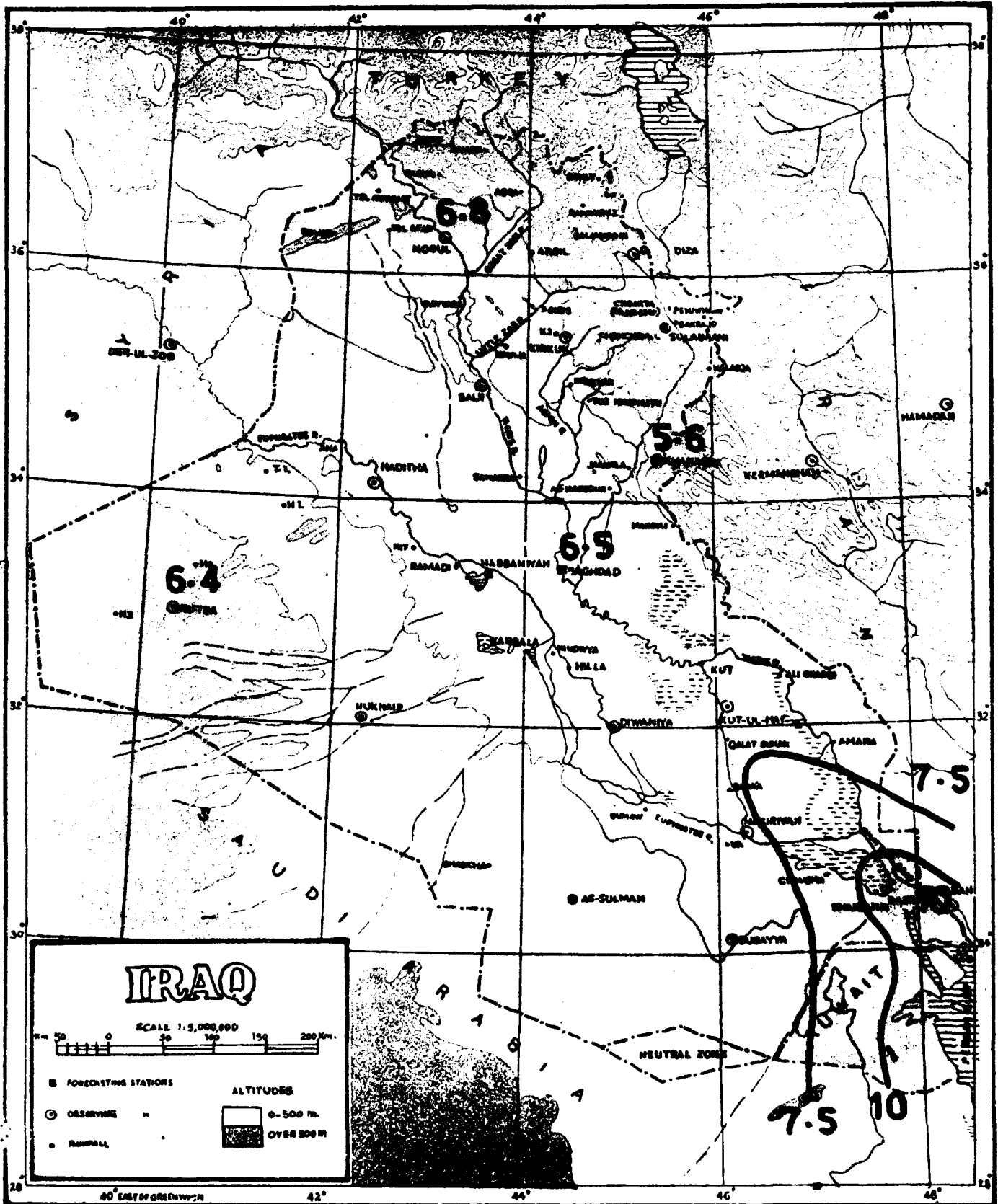
[00, 03, 06, ETC. GMT]

PERIOD OF RECORDS 1951 - 1955



HUMIDITY
Mean Annual Mixing Ratio (gm/kg)
 period of records see page 2/3

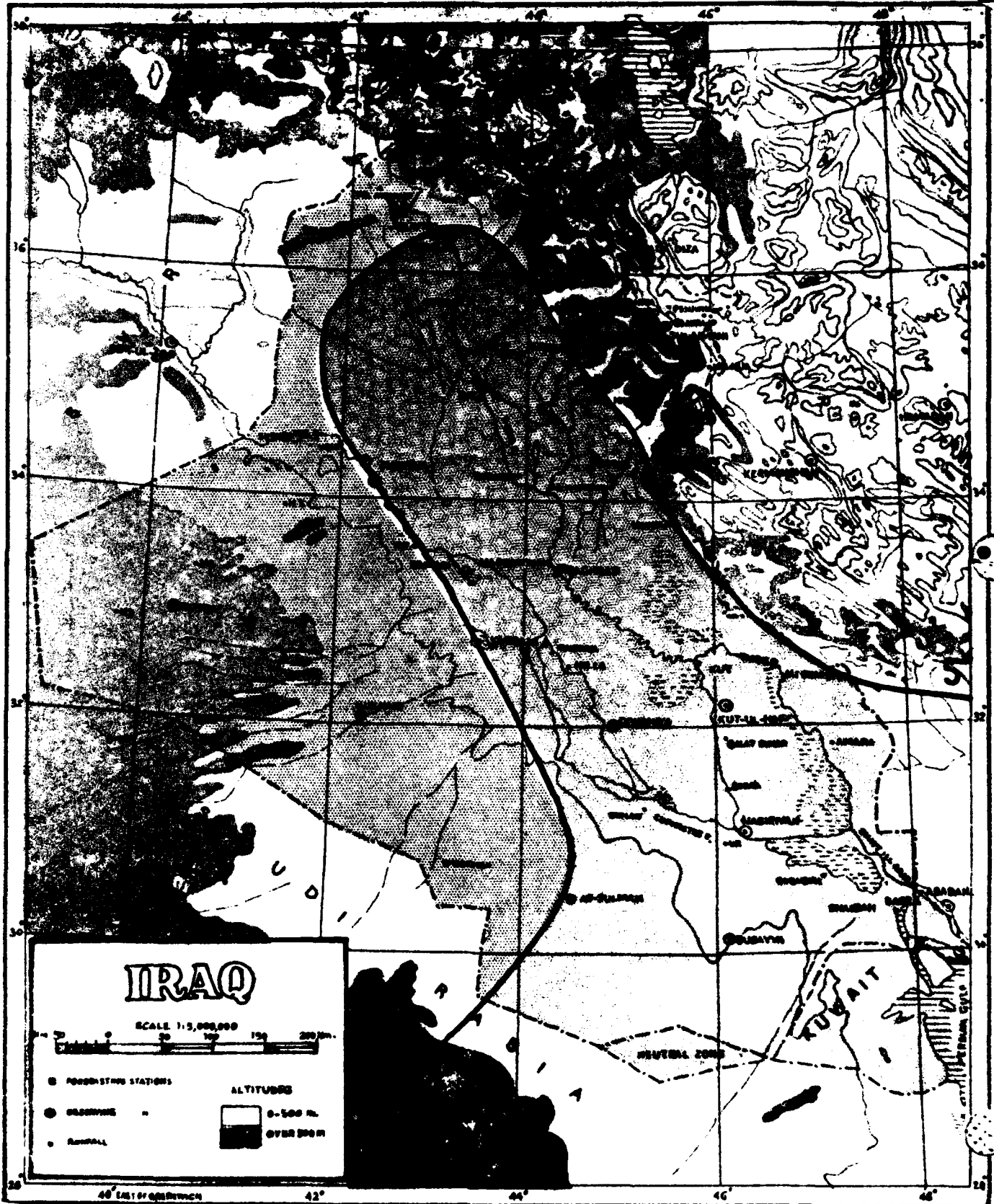
116



HUMIDITY
 Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

117

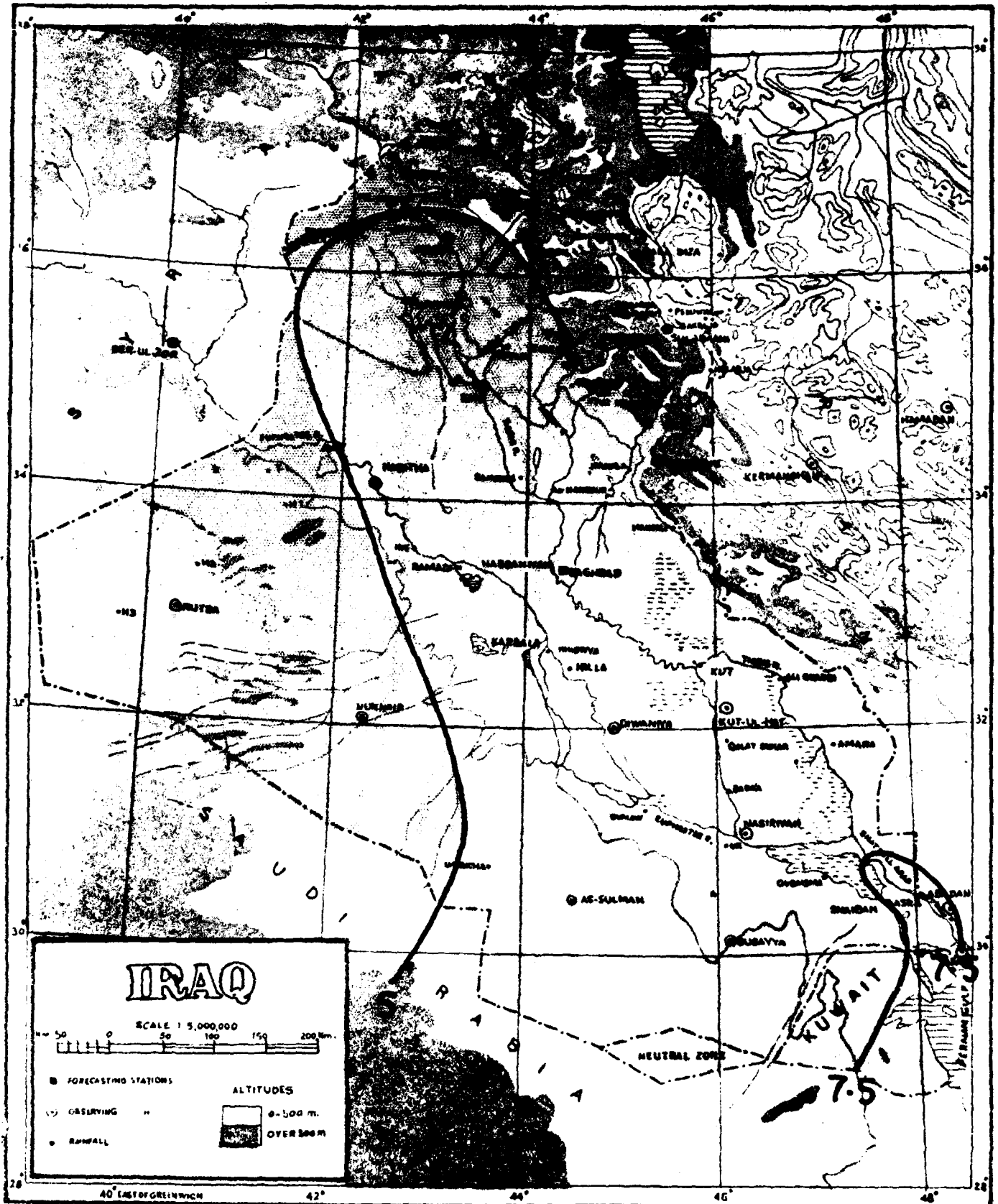
JANUARY



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

118

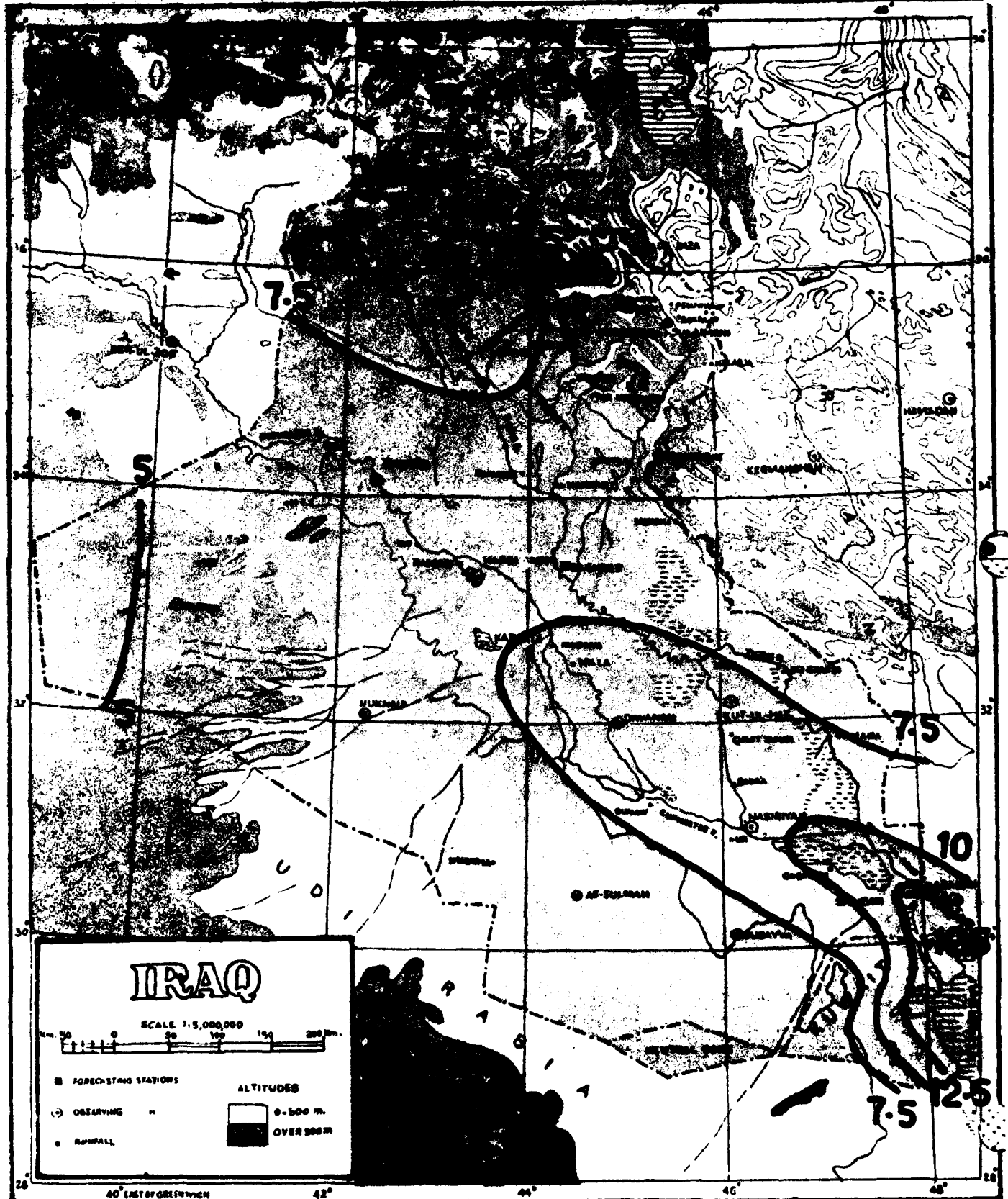
MARCH



HUMIDITY
 Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 25

119

MAY

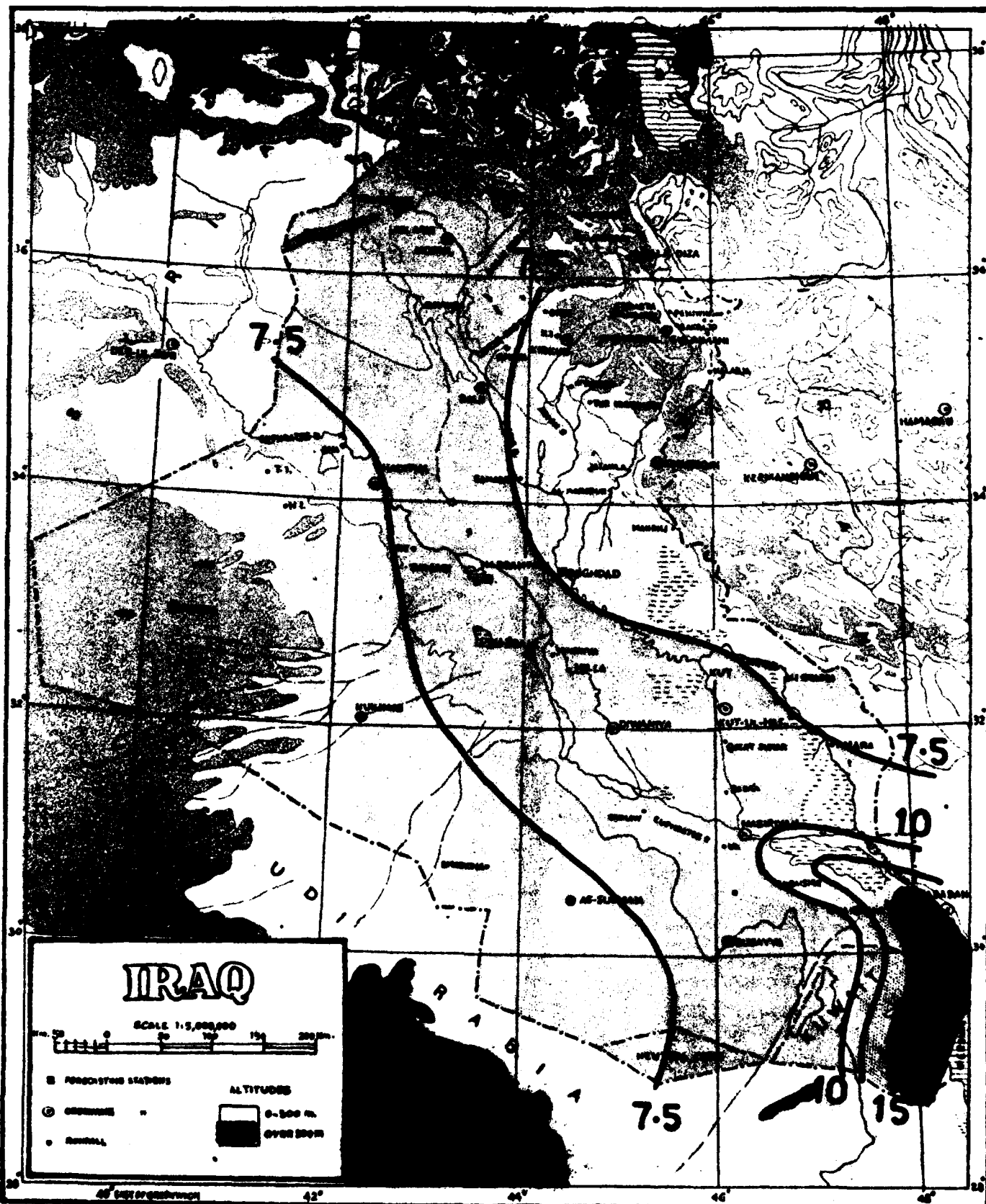


HUMIDITY
 Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

DATE / / 196

120

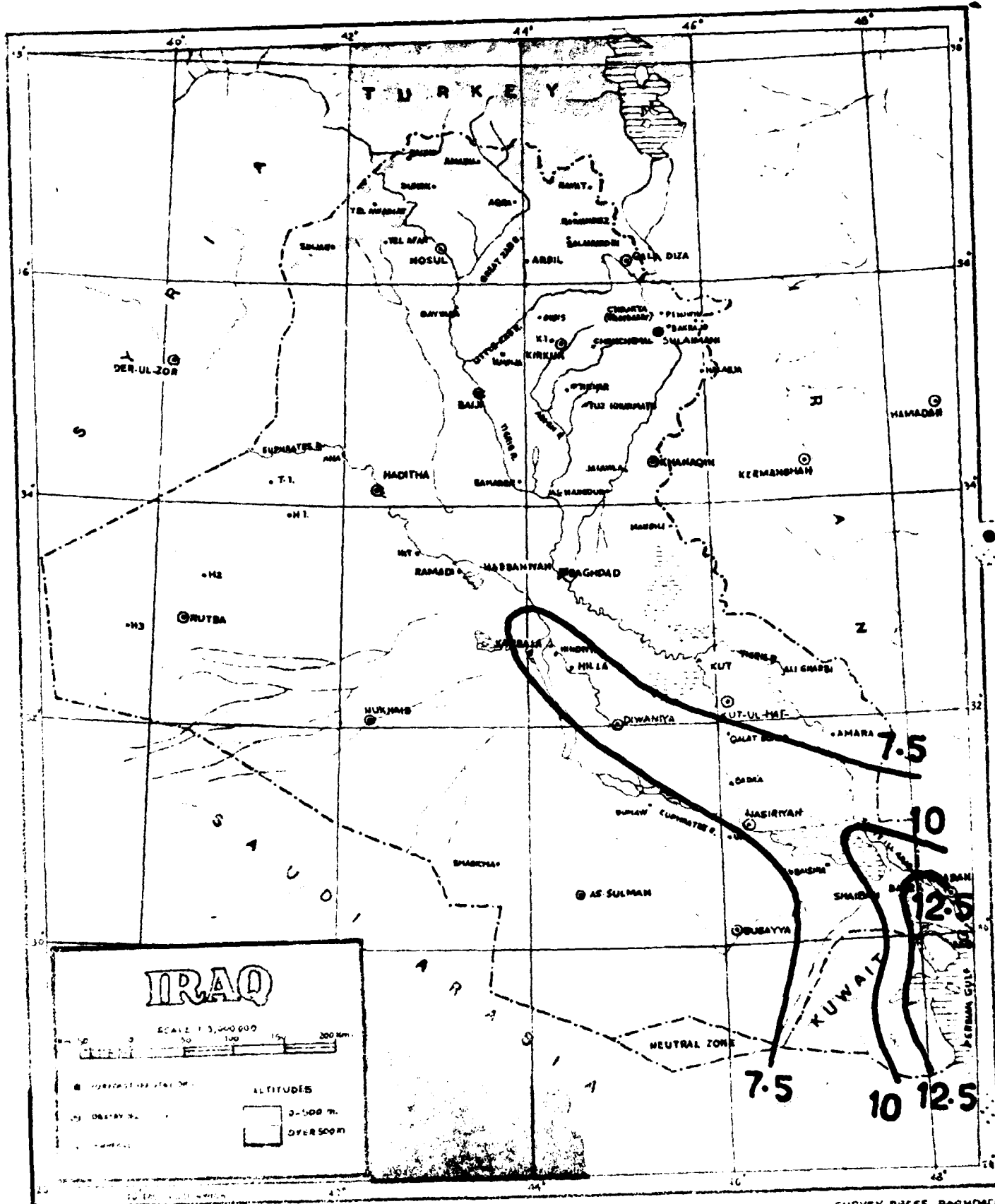
JULY



HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
 period of records see page 2/3

123

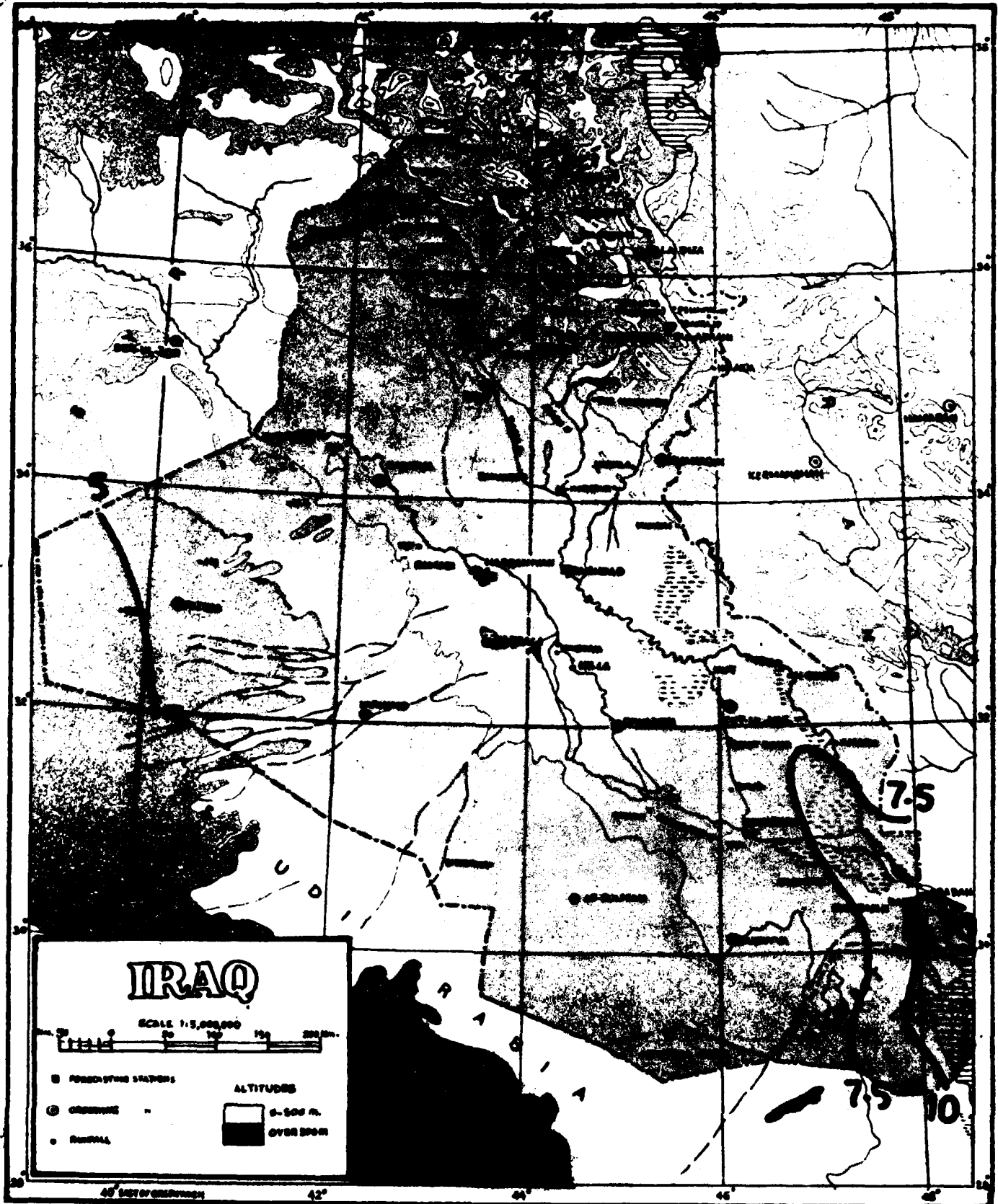
SEPTEMBER



HUMIDITY
 Mean Monthly Mixing Ratio (g/m³)
 period of records see page 2/3

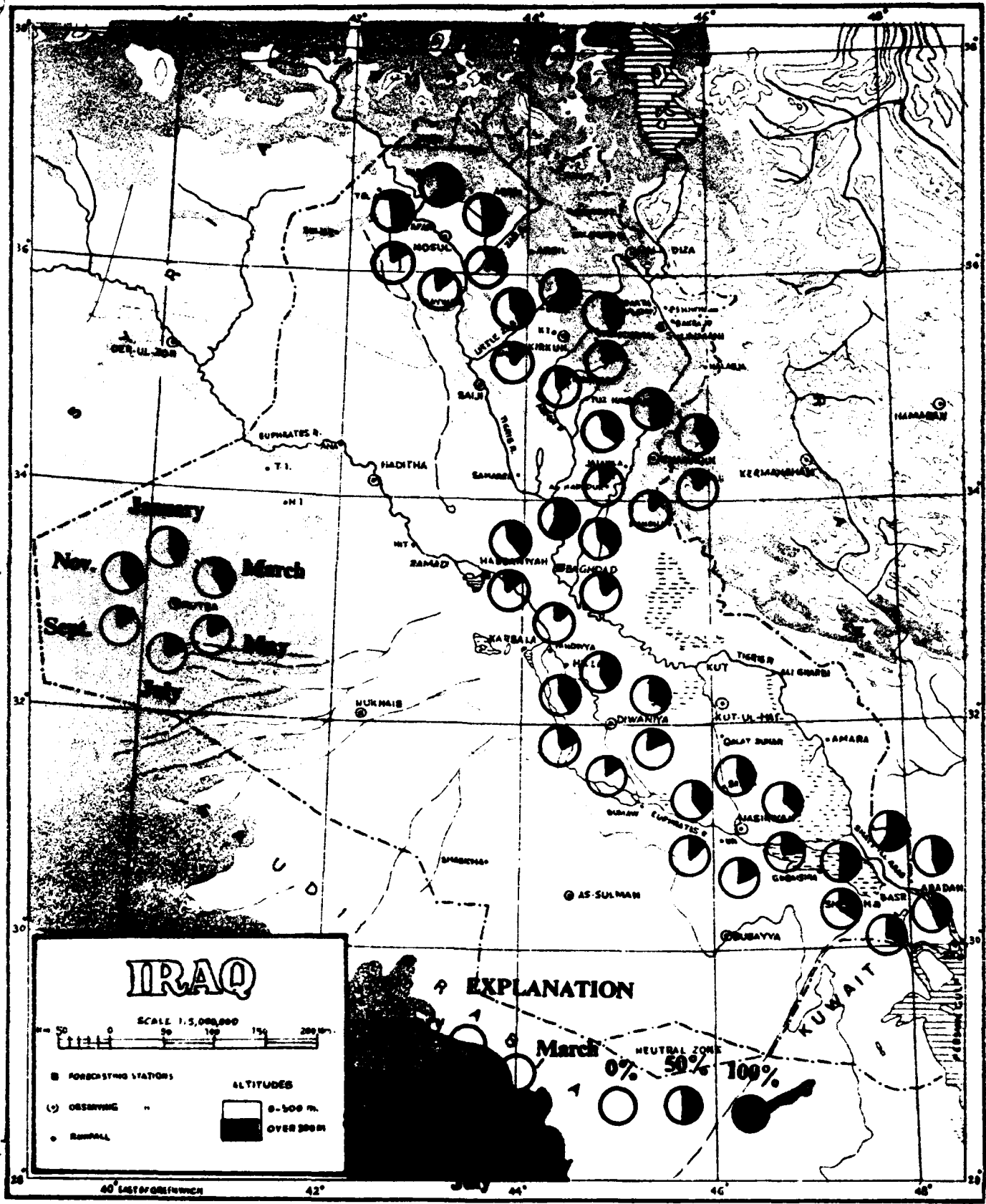
122

NOVEMBER



HUMIDITY

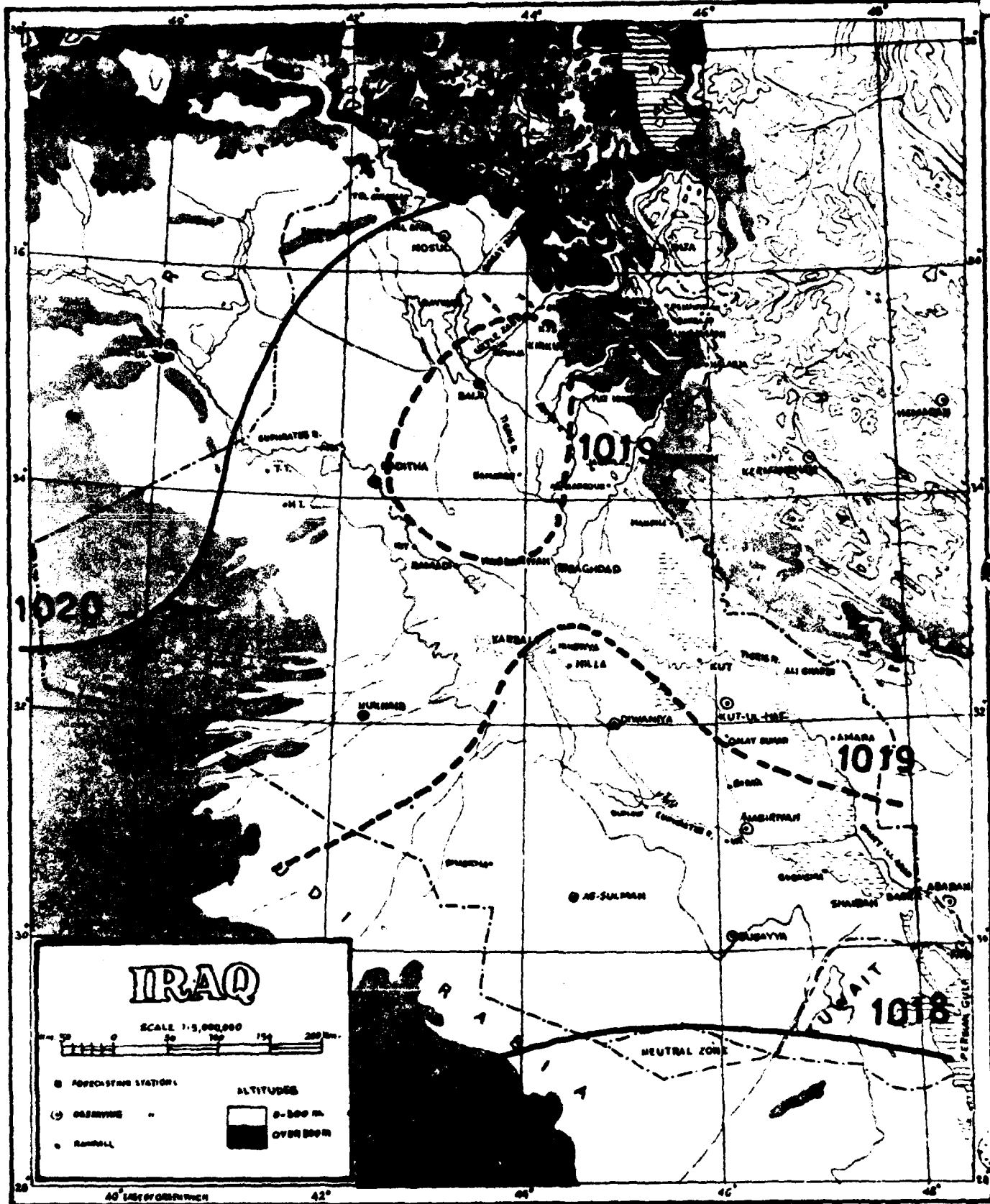
Mean Monthly Relative Humidity at 1200 GMT



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
 period of records see page 2/3

125

JANUARY



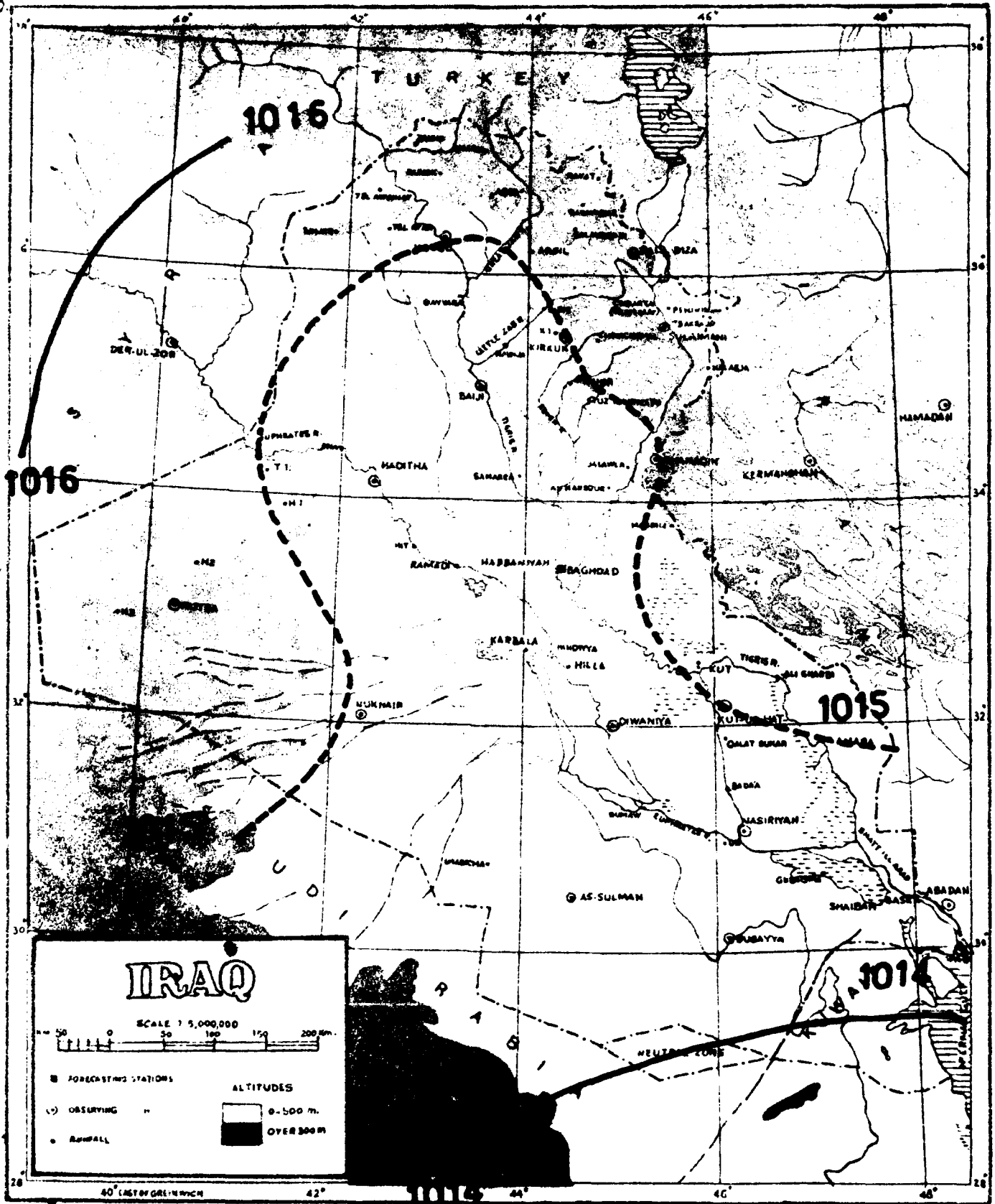
ATMOSPHERIC PRESSURE

126

Mean Monthly Sea Level Pressure

period of records see page 2/3

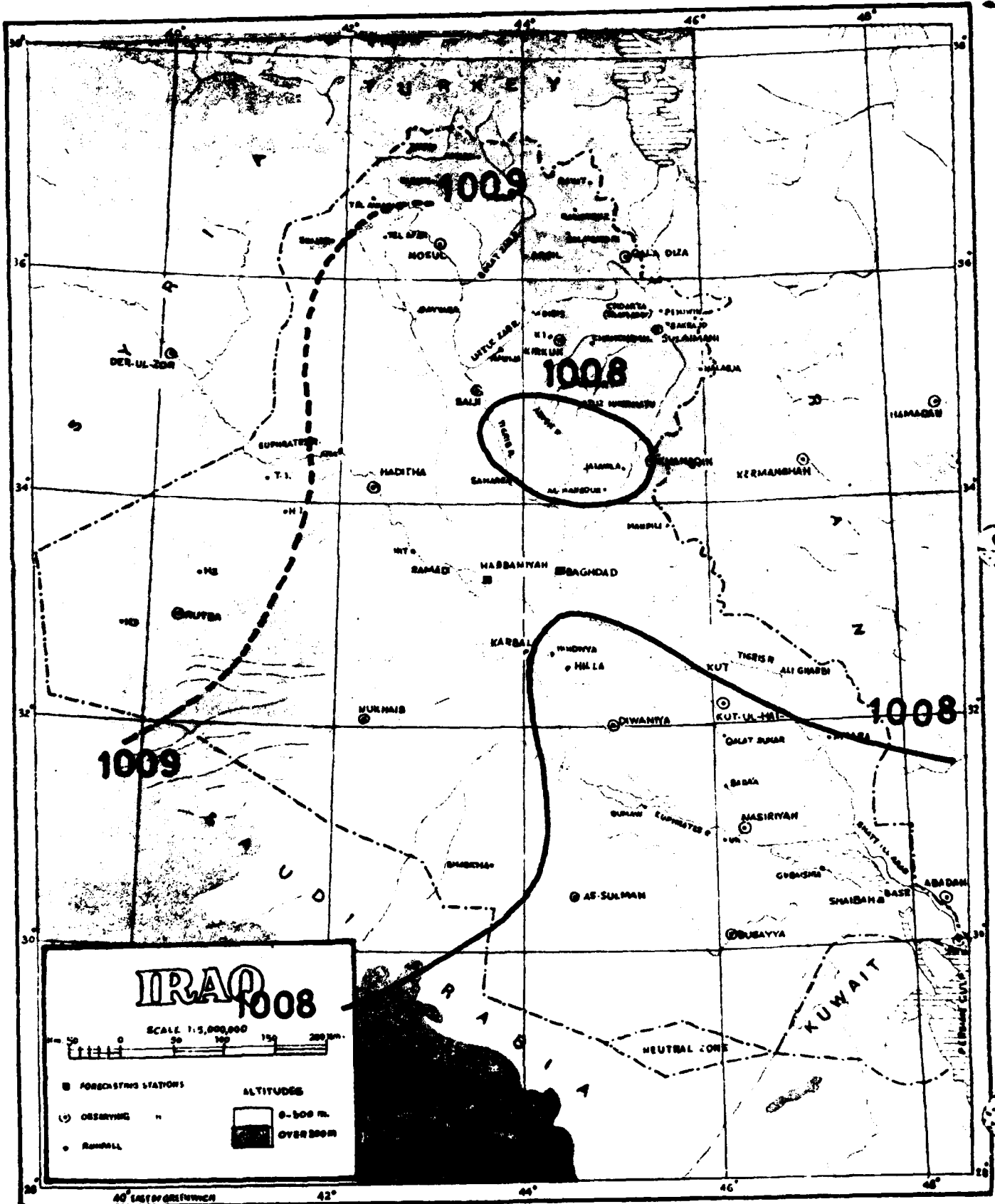
MARCH



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
 period of records see page 2/3

127

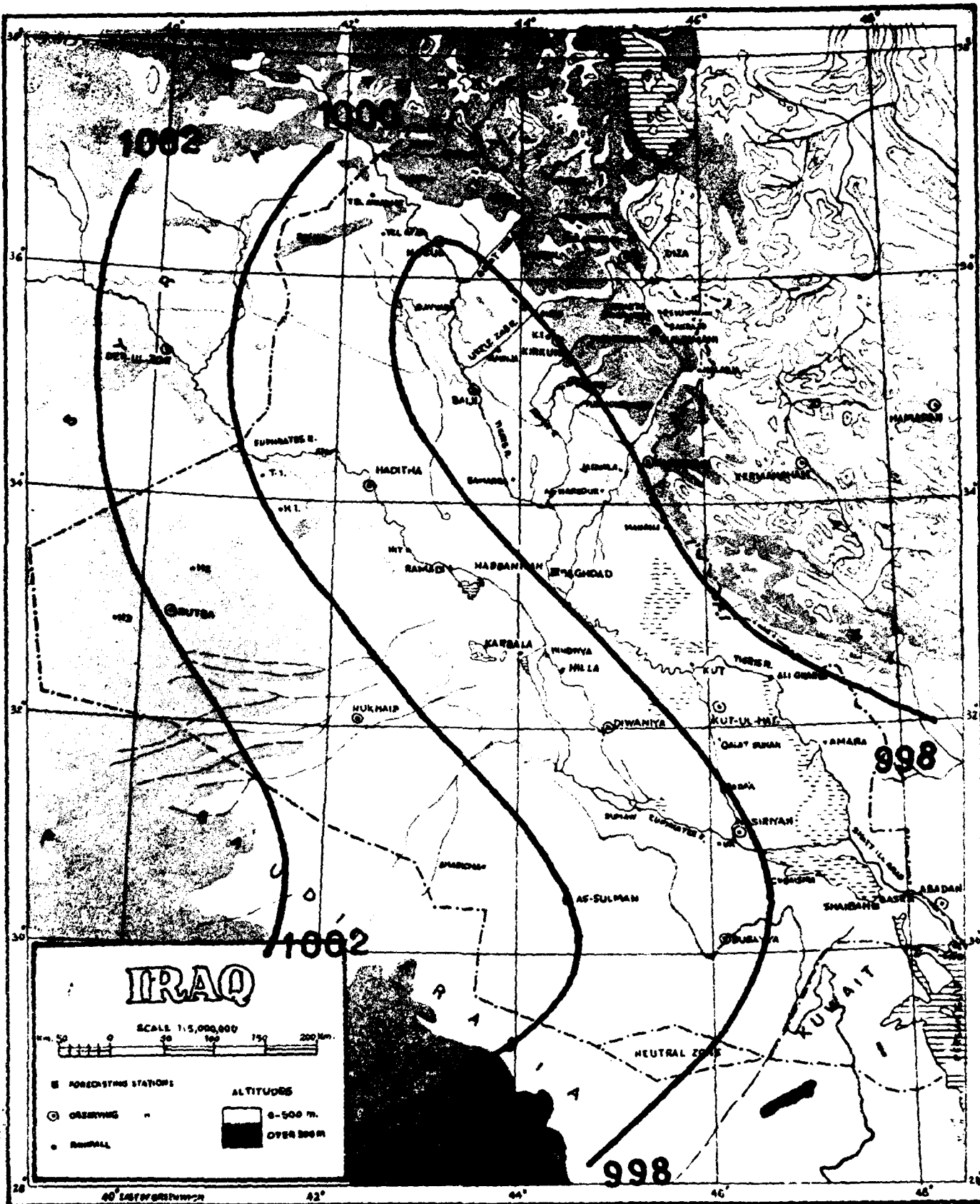
MAY



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
 period of records see page 2/3

128

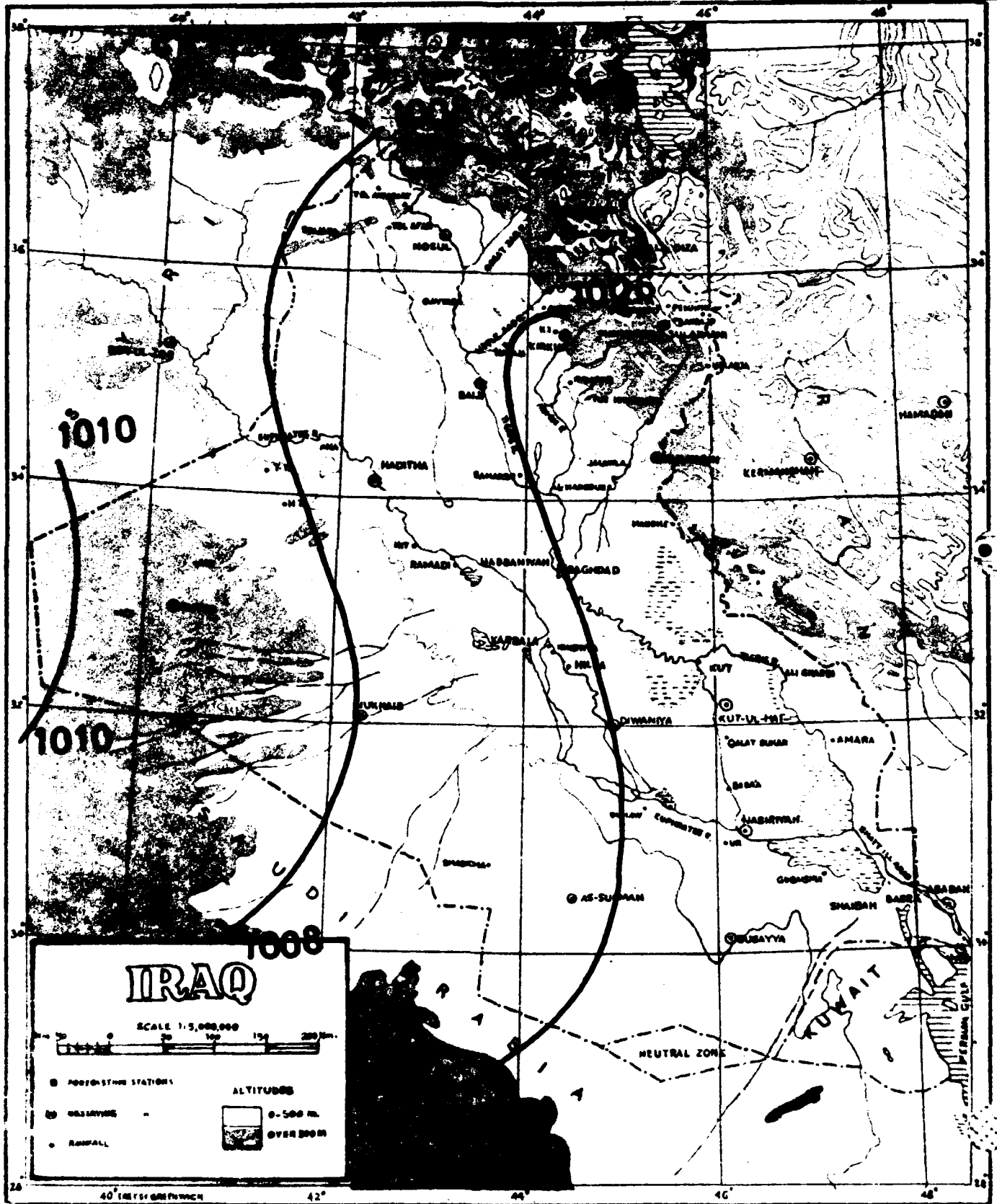
JULY



ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
 period of records see page 2/3

129

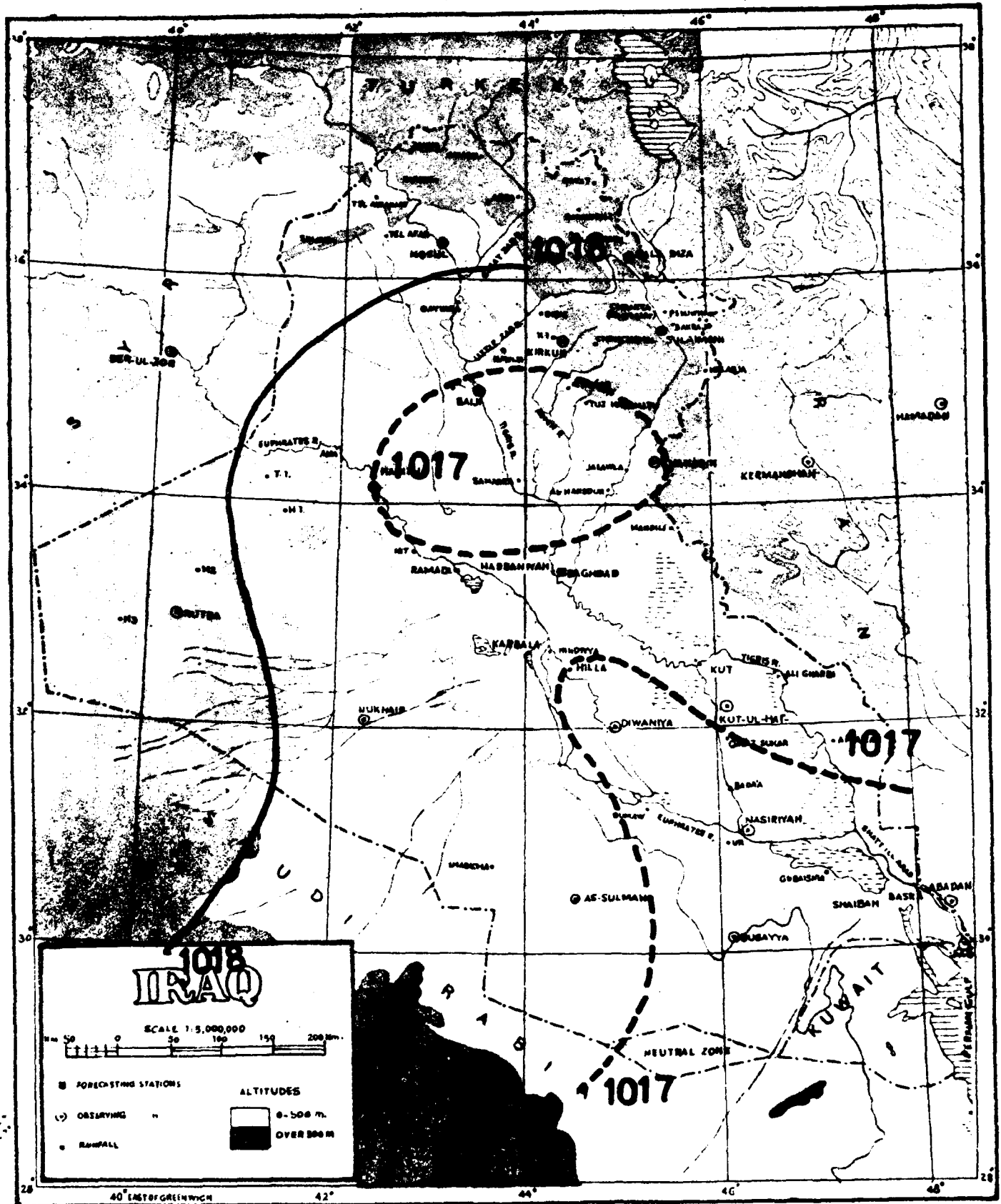
SEPTEMBER



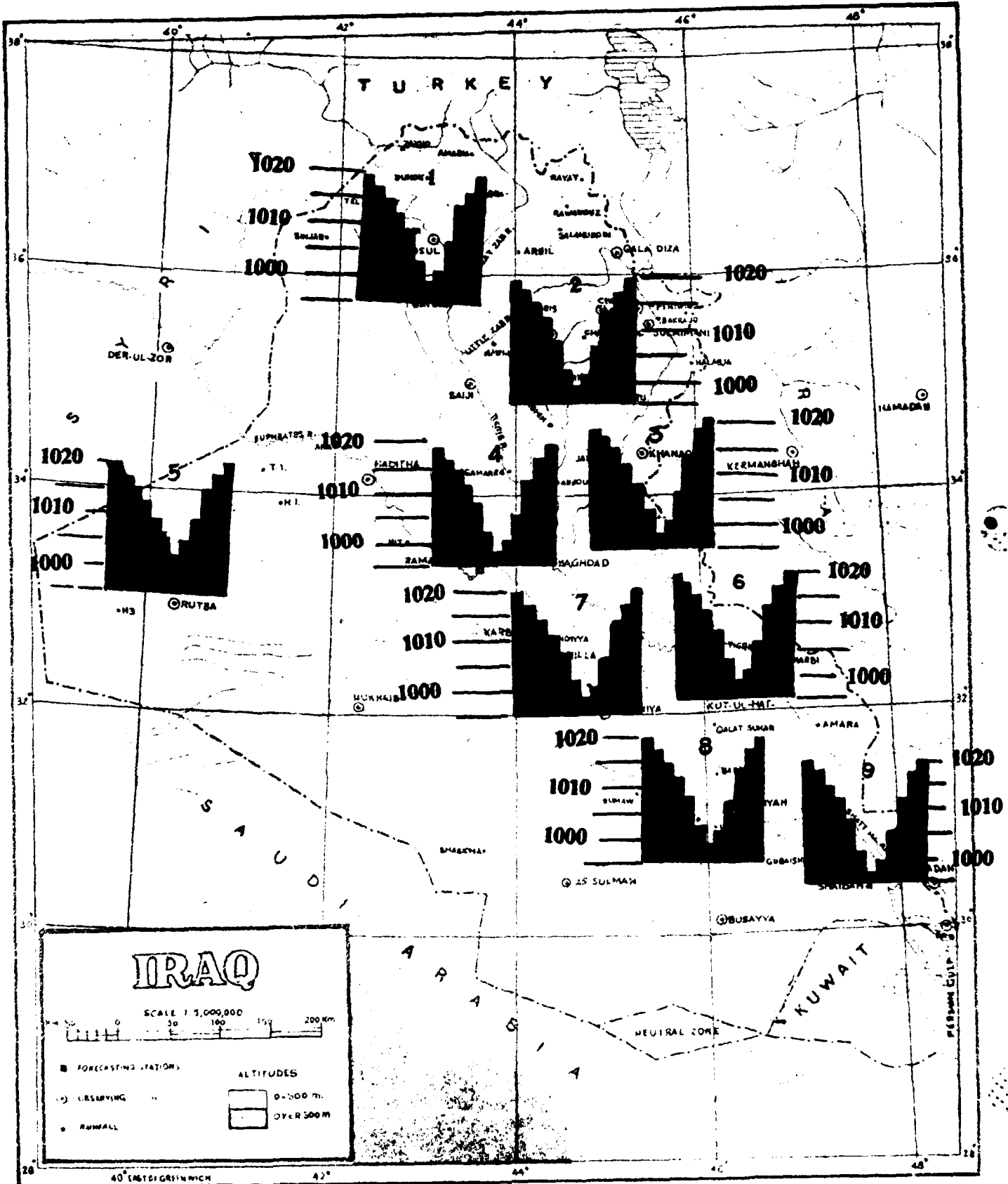
ATMOSPHERIC PRESSURE
 Mean Monthly Sea Level Pressure
 period of records see page 2/3

130

NOVEMBER



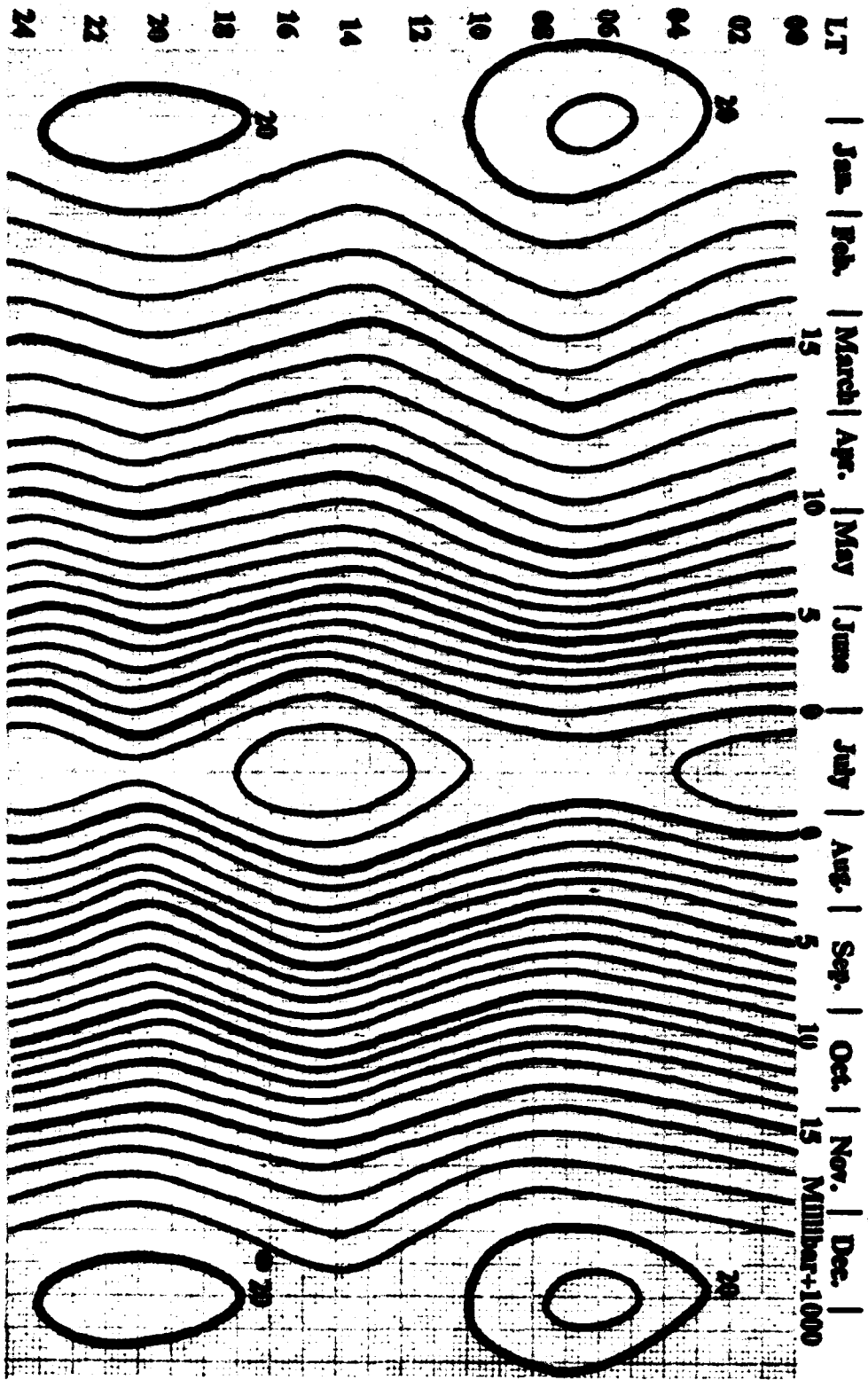
ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
 Each Column Represents One Month Starting with January (Left)
 period of records see page 2/3



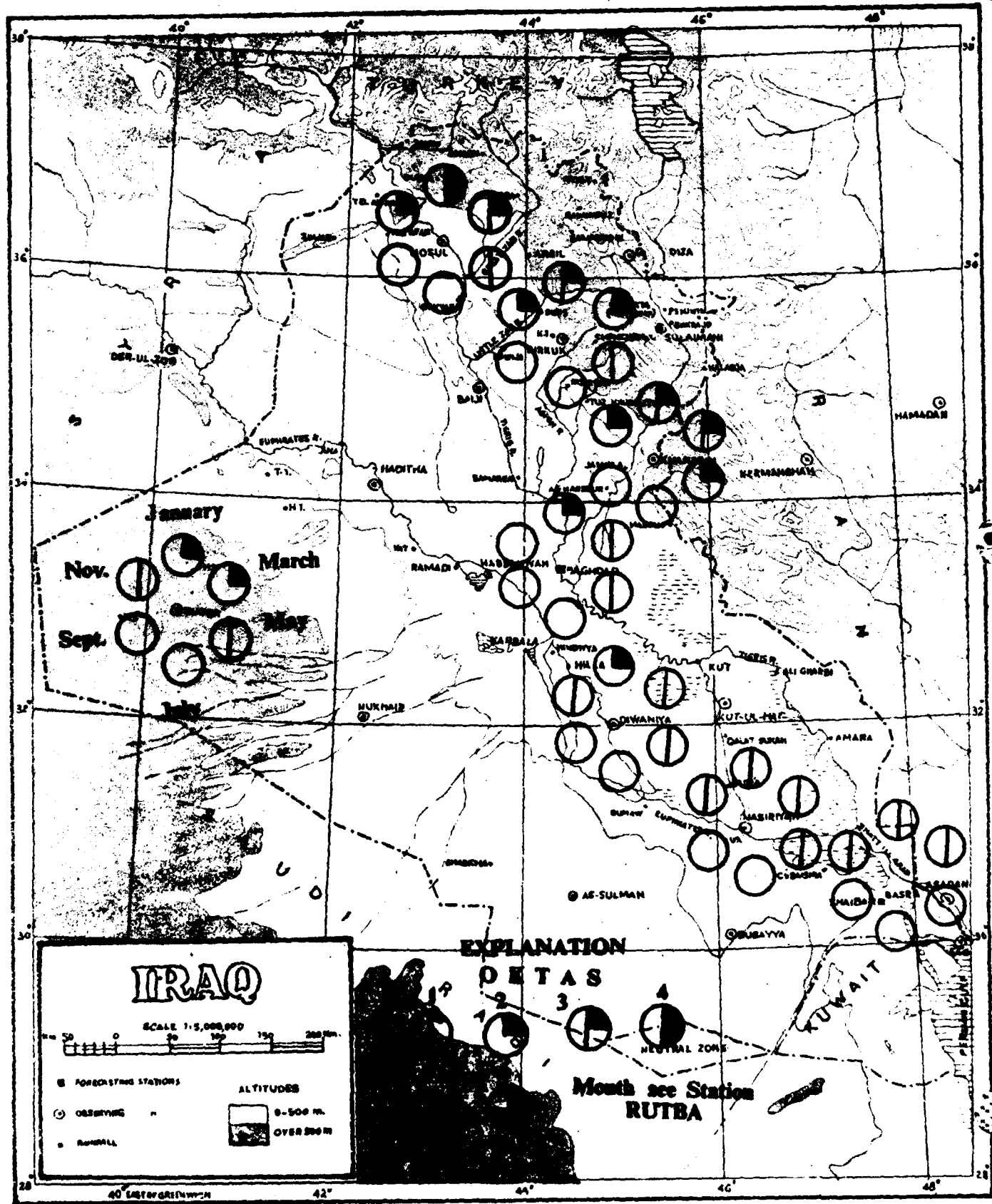
1. MOSUL 2. KIRKUK 3. KHANAQIN 4. BAGHDAD 5. RUTBAH 6. HAI 7. DIWANIYA
 8. NASIRIYA 9. BASRAH

SURVEY PRESS BAGHDAD

MEAN PRESSURE FOR BAGHDAD AIRPORT
Reduced to MSL



CLOUDINESS
Mean Monthly Amount of Low Clouds
at 0300 GMT (Base below 2500 m)
to the nearest Okta



IRAQ

SCALE 1:5,000,000

0 50 100 150 200 Km

FORECASTING STATIONS

OBSERVING STATIONS

RAINFALL

ALTITUDES

0-500 m

OVER 500 m

EXPLANATION

OKTAS

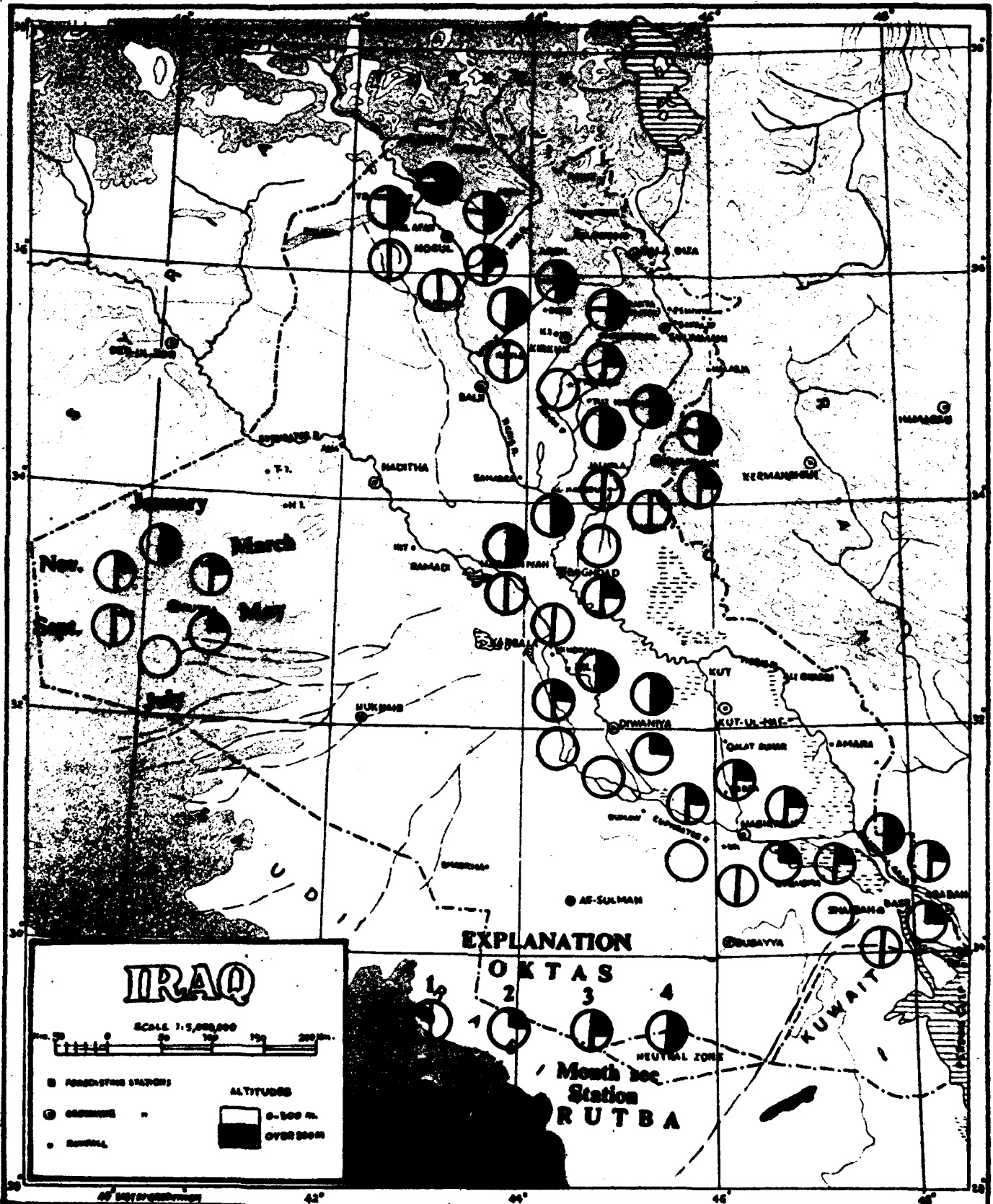
1 2 3 4

NEUTRAL ZONE

Month see Station
RUTBA

CLOUDINESS

Mean Monthly Amount of Total Clouds
at 0600 GMT.
to the nearest Oktas



IRAQ

SCALE 1:5,000,000

0 100 200 Miles

● FORECASTING STATIONS

○ OBSERVING STATIONS

○ BOUNDARY

ALTITUDES

0-500 ft.

OVER 5000 ft.

EXPLANATION

Oktas

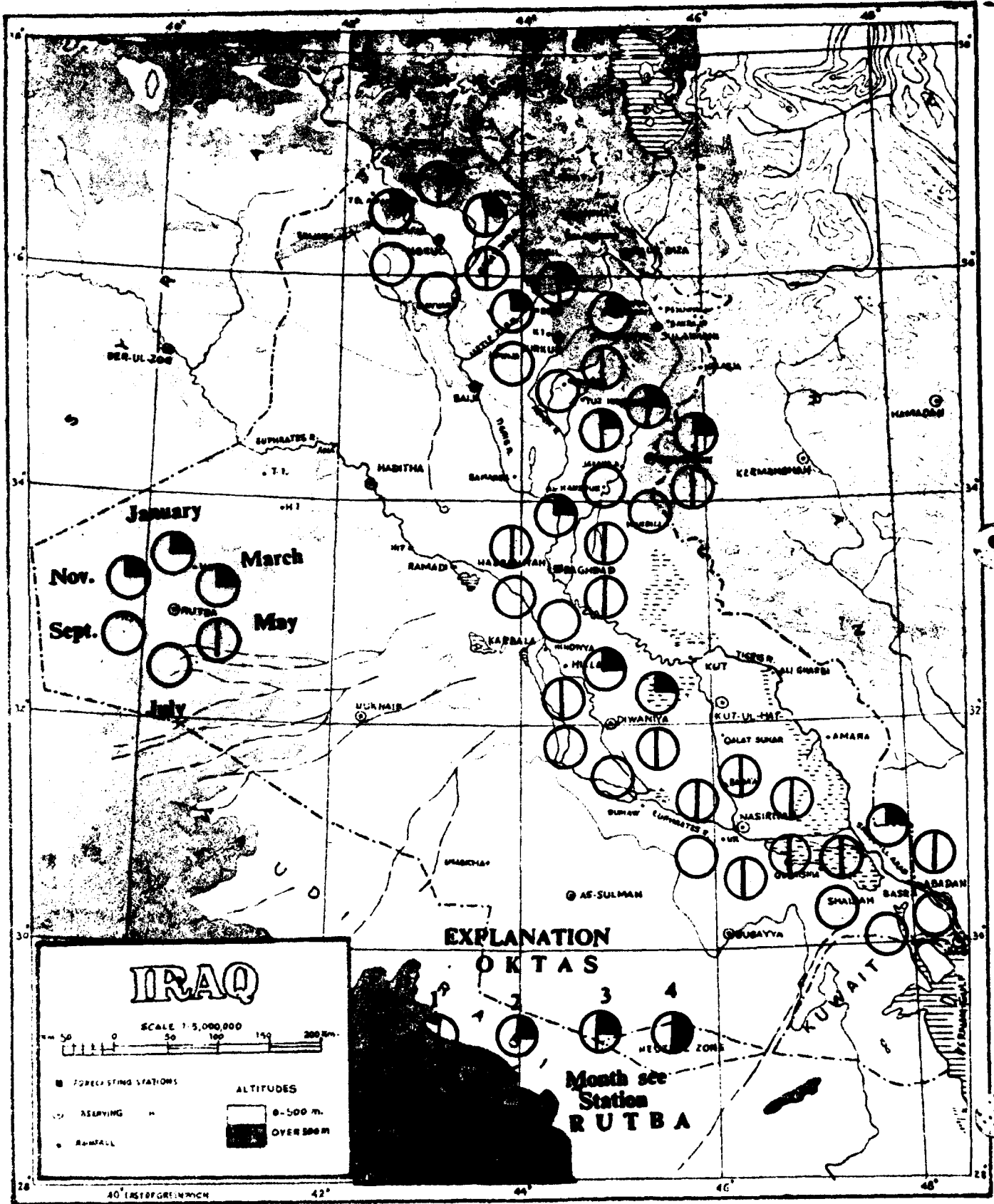
1 2 3 4

Month see Station

RUTBA

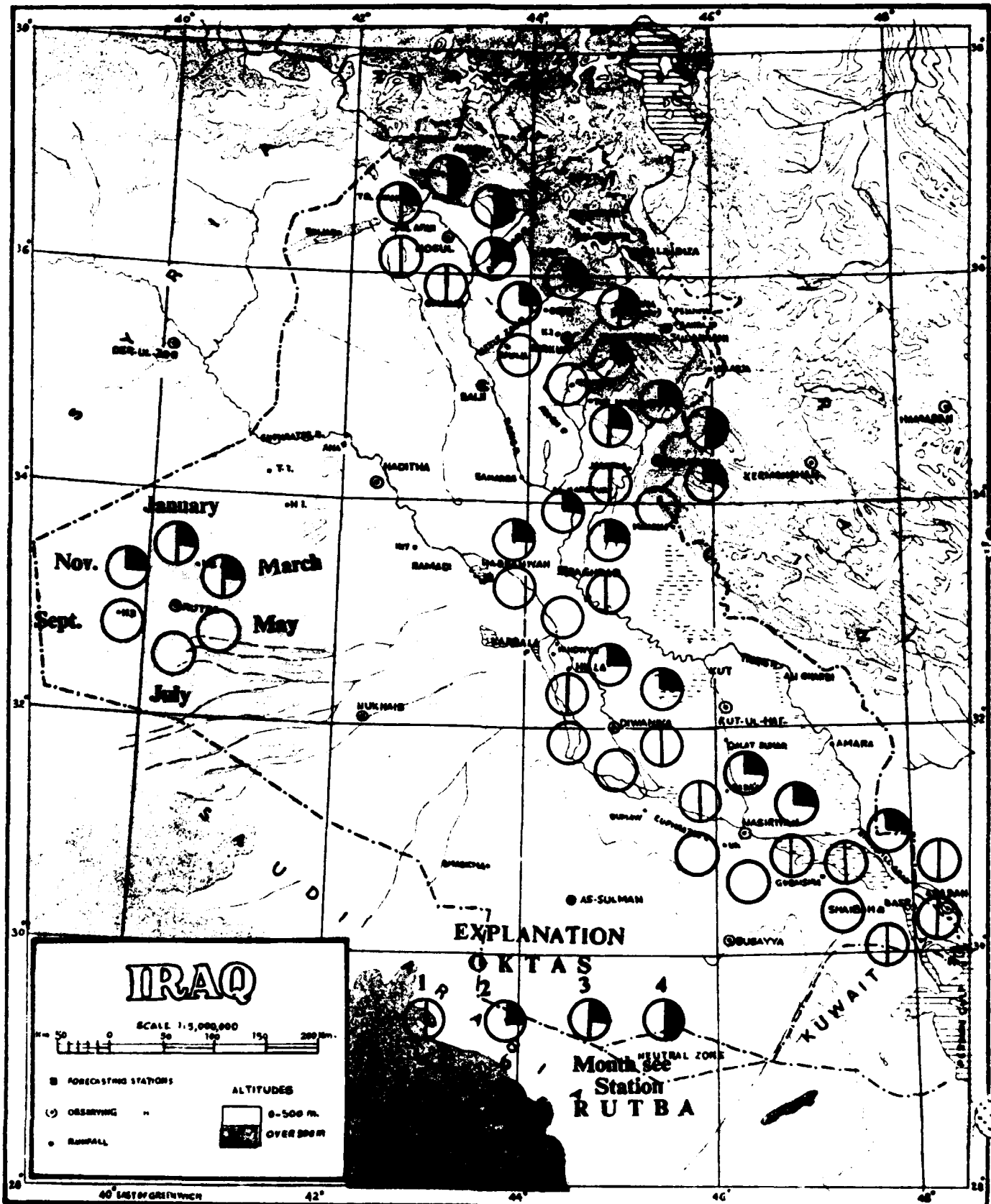
NEUTRAL ZONE

CLOUDINESS
 Mean Monthly Amount of Low Clouds
 at 0600 GMT (Base below 2500 m)
 to the nearest Okta



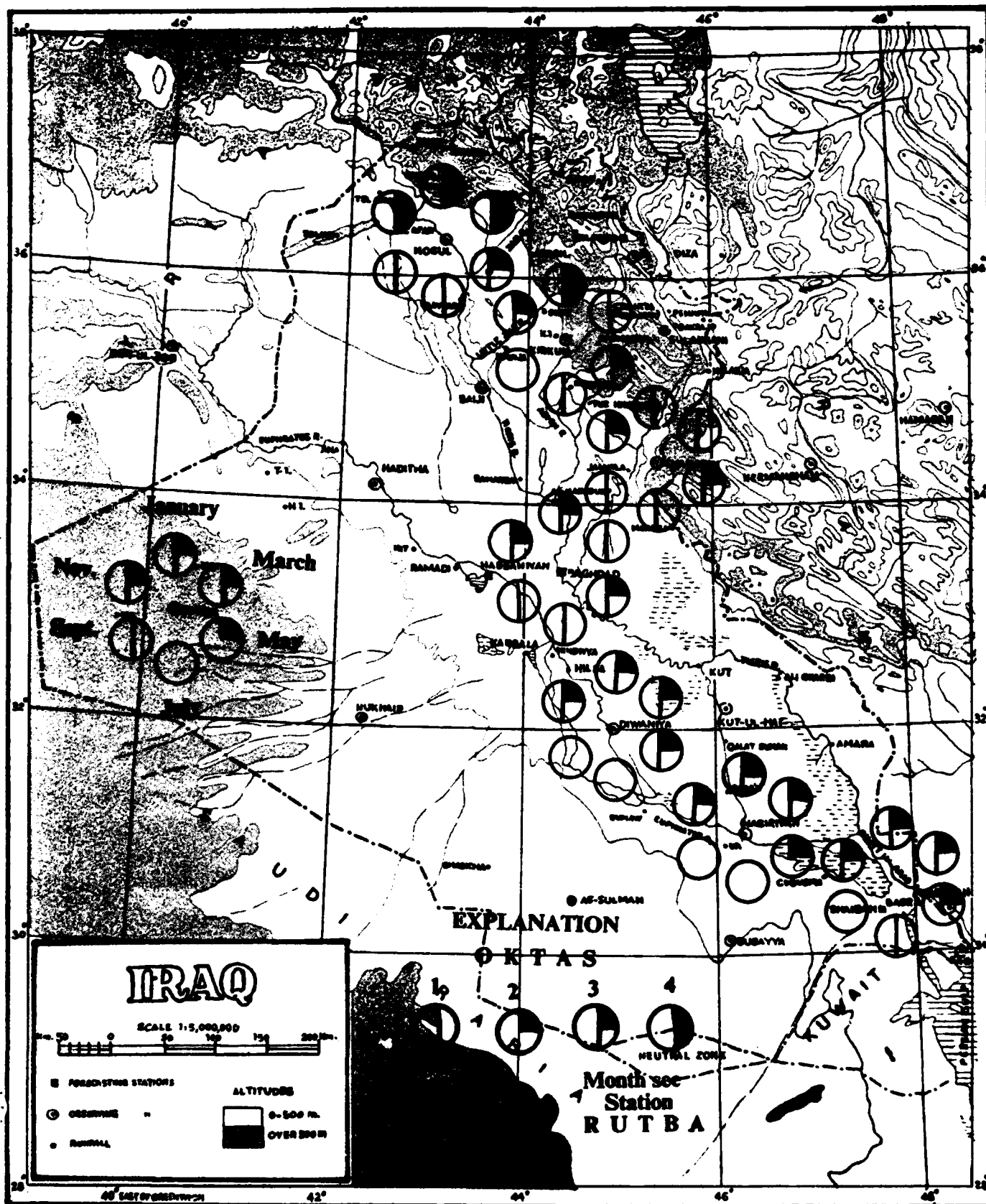
CLOUDINESS

Mean Monthly Amount of Low Clouds
at 1200 GMT (Base below 2500 m)
to the nearest Okta

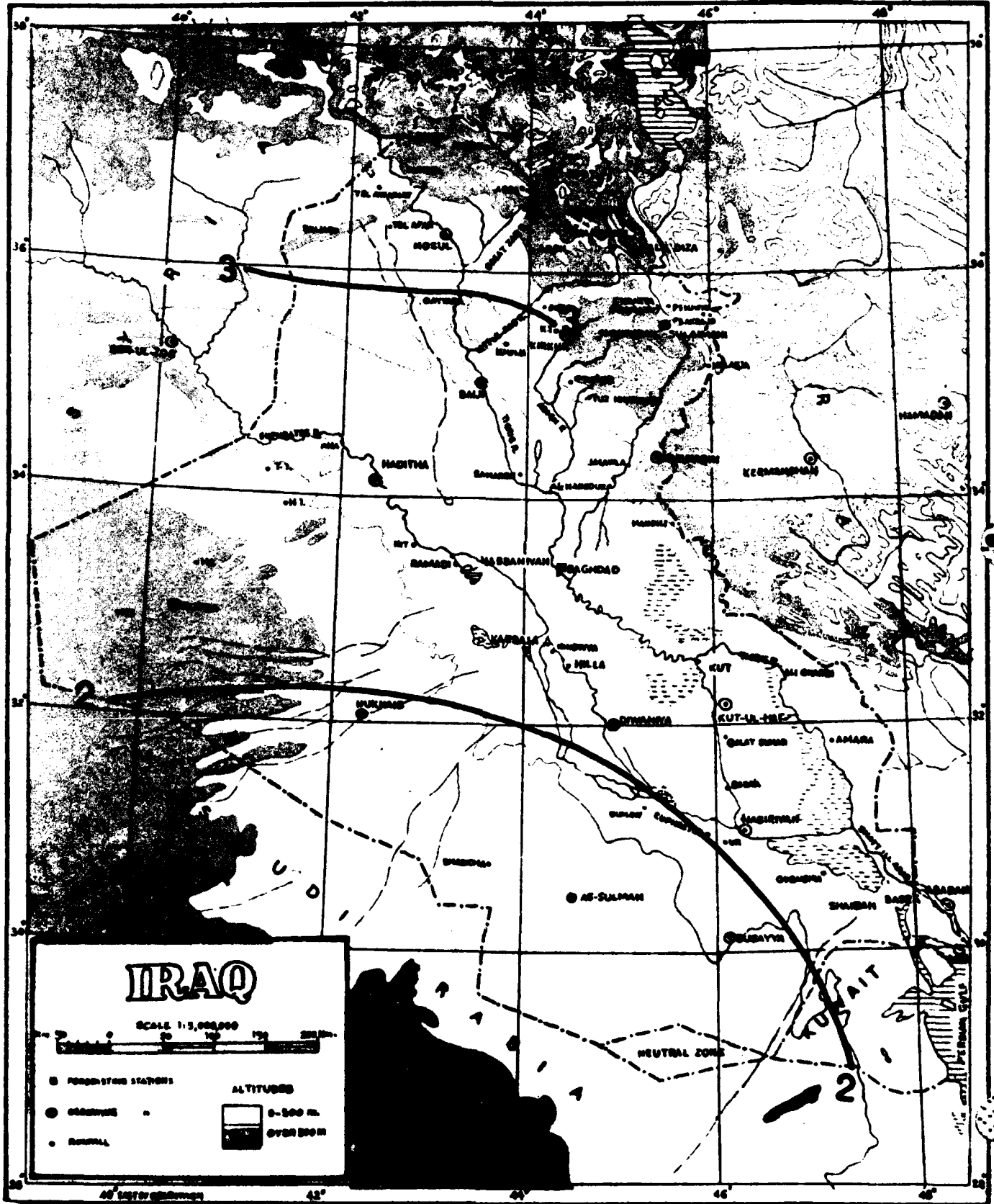


CLOUDINESS

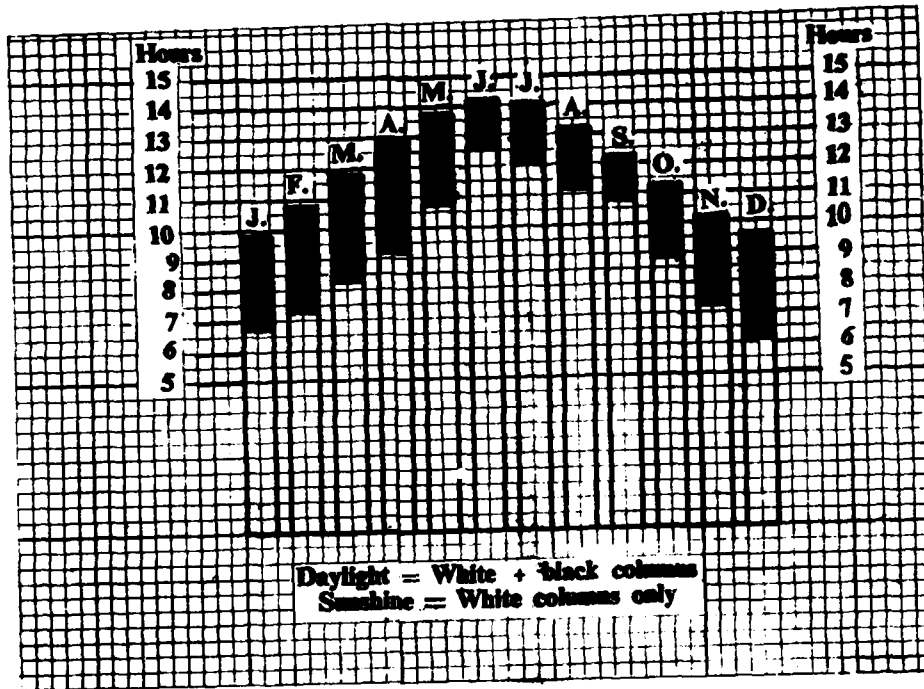
Mean Monthly Amount of Total Clouds at 0300 GMT to the nearest Oktas



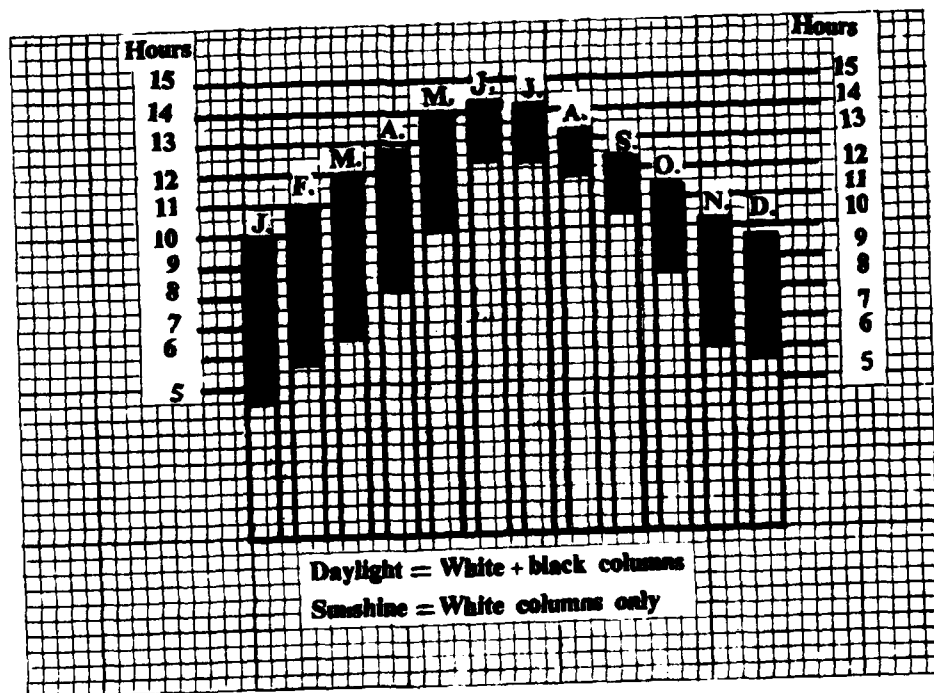
CLOUDINESS
Mean Annual Amount of Total Clouds
Oktas
 period of records see page 2/3



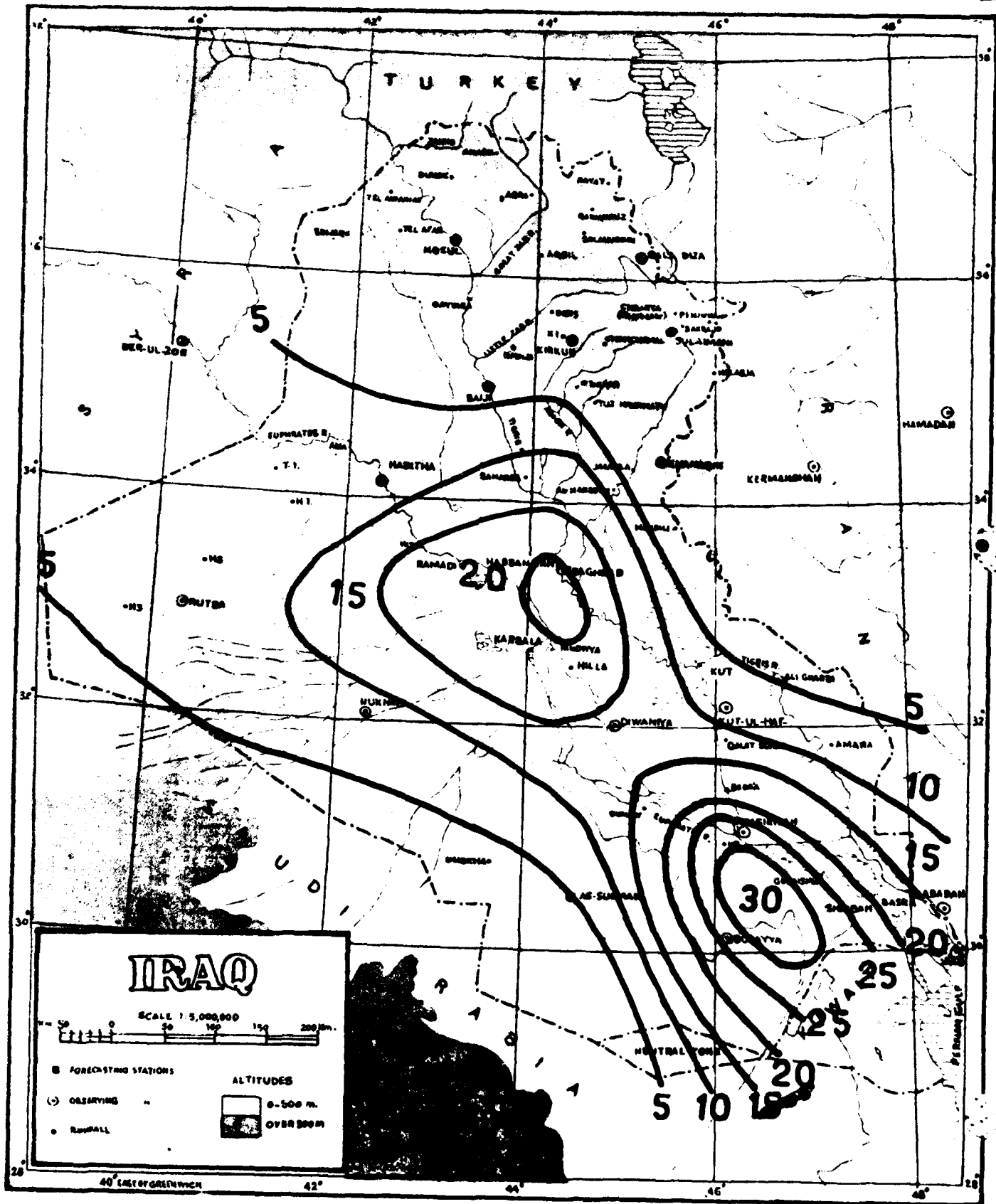
Mean Duration of Daylight and Mean Hours of Sunshine
 Observed for Each Month of the Year at Baghdad Airport
 (Period of observations 1937—1956)



Mean Duration of Daylight and Mean Hours of Sunshine
 Observed for Each Month of the Year at Mosul Airport
 (Period of observations 1938—1956)



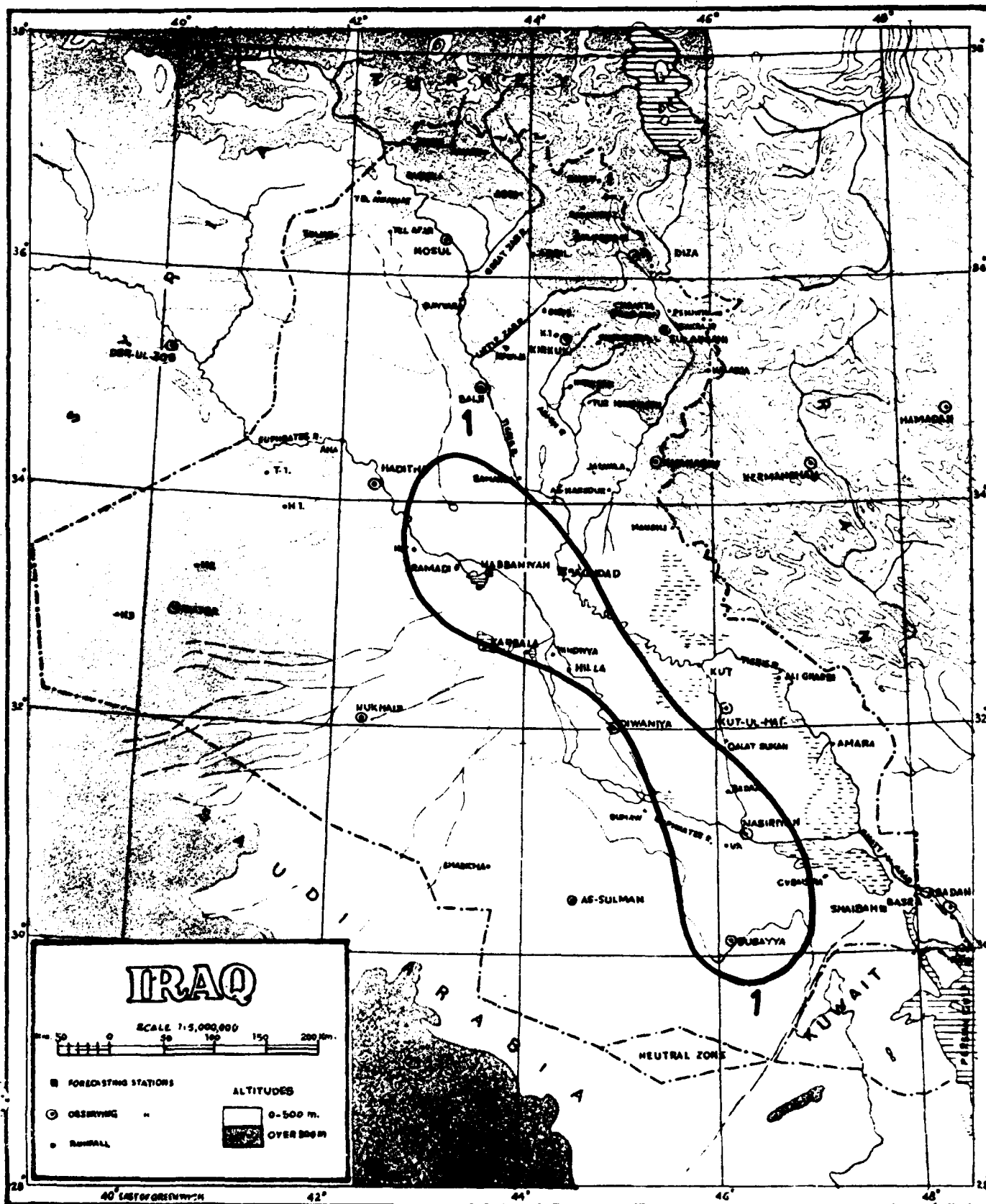
DUST
 (Visibility less than 1 Km)
 Mean Annual Number of Days With Dust
 period of records see page 2/3



DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

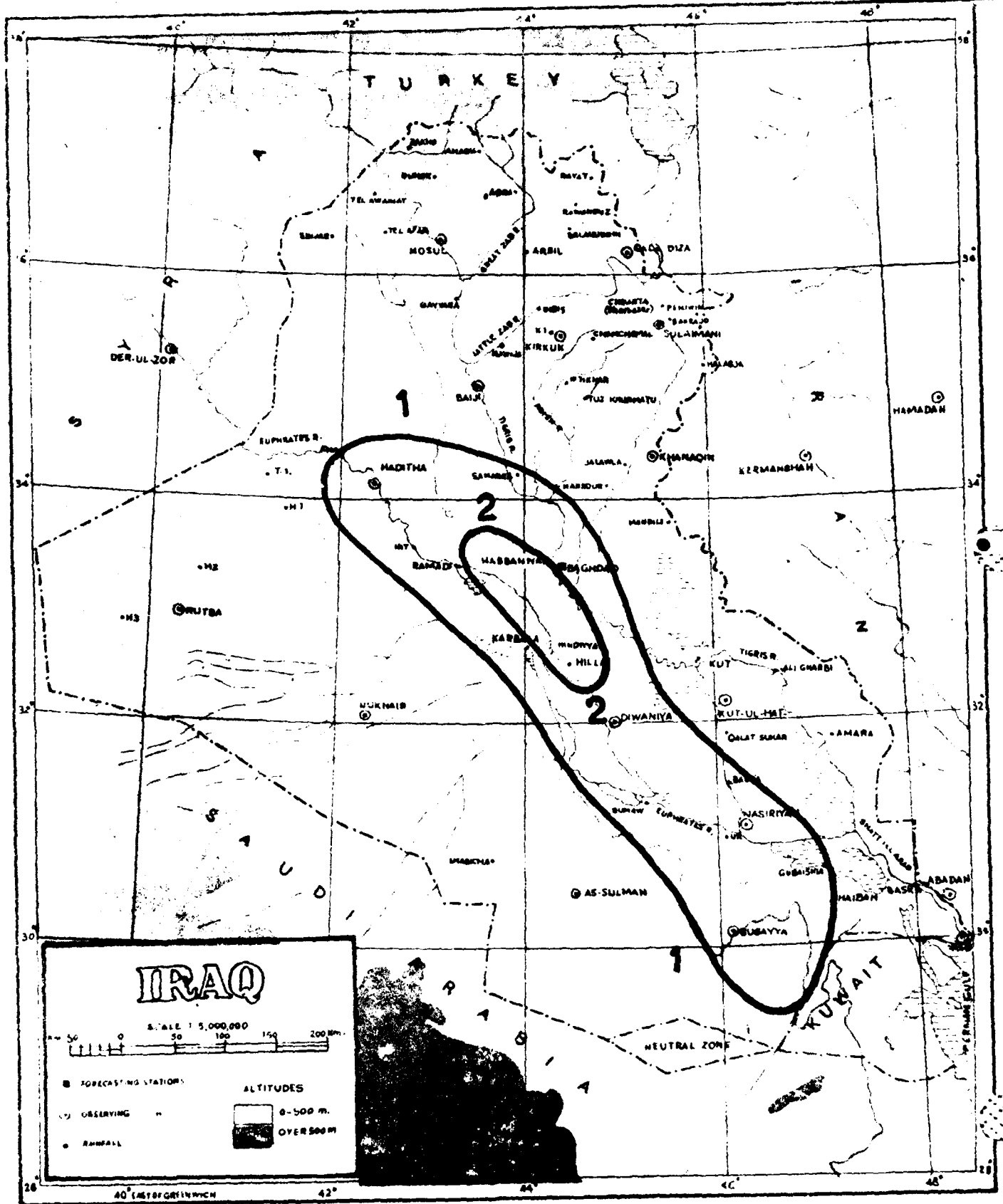
142

JANUARY

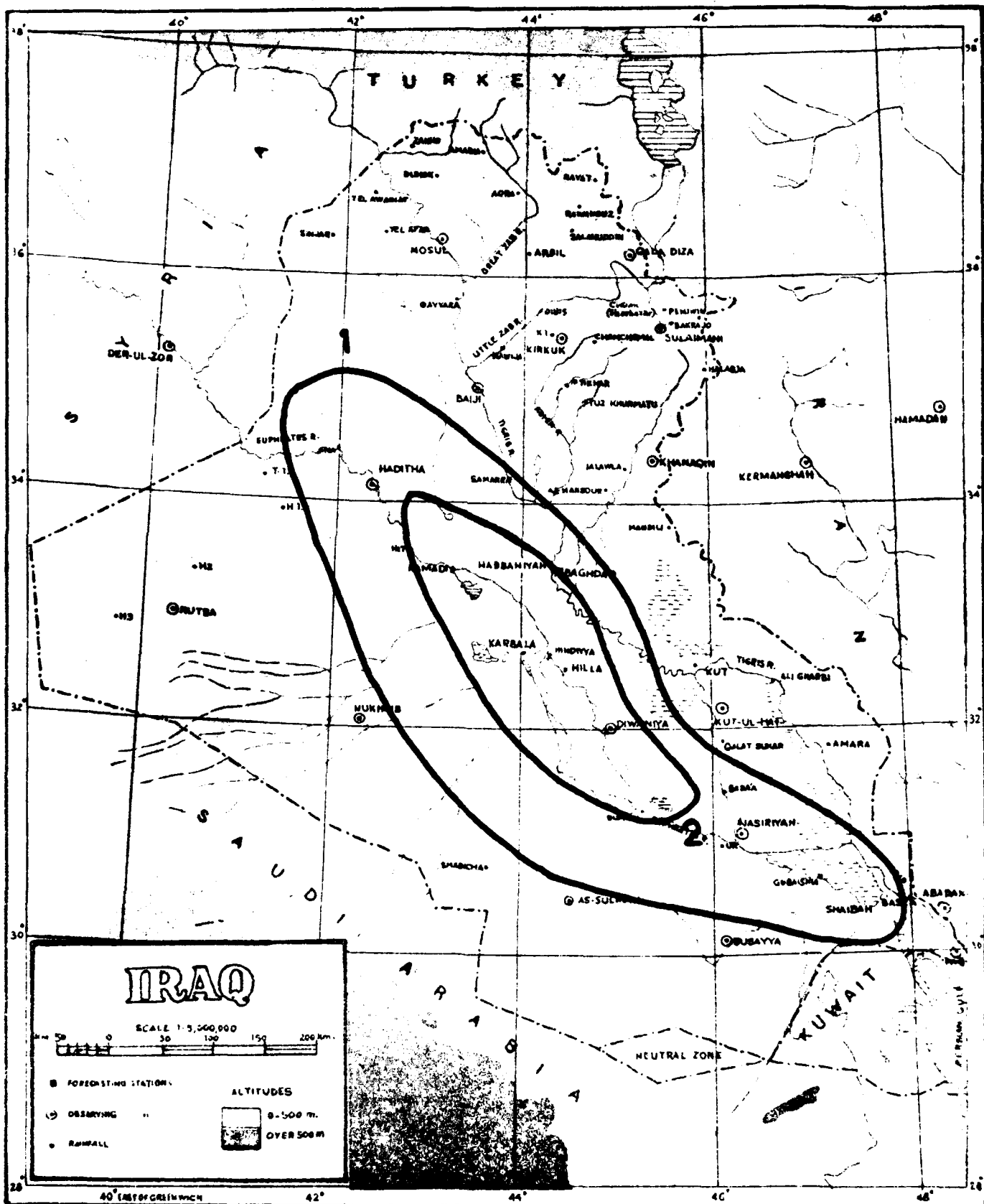


DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

FÉBRUARY

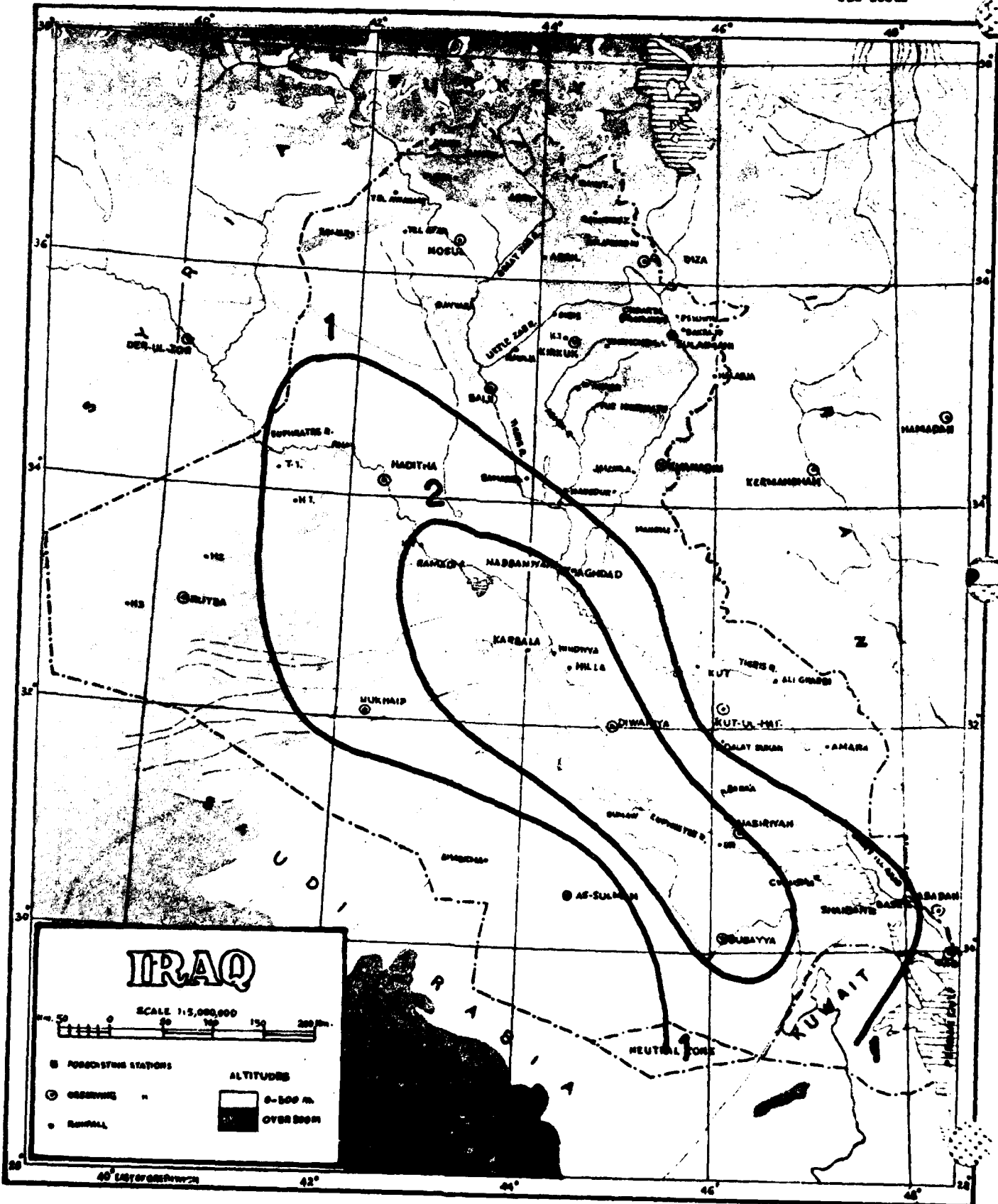


DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3



DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

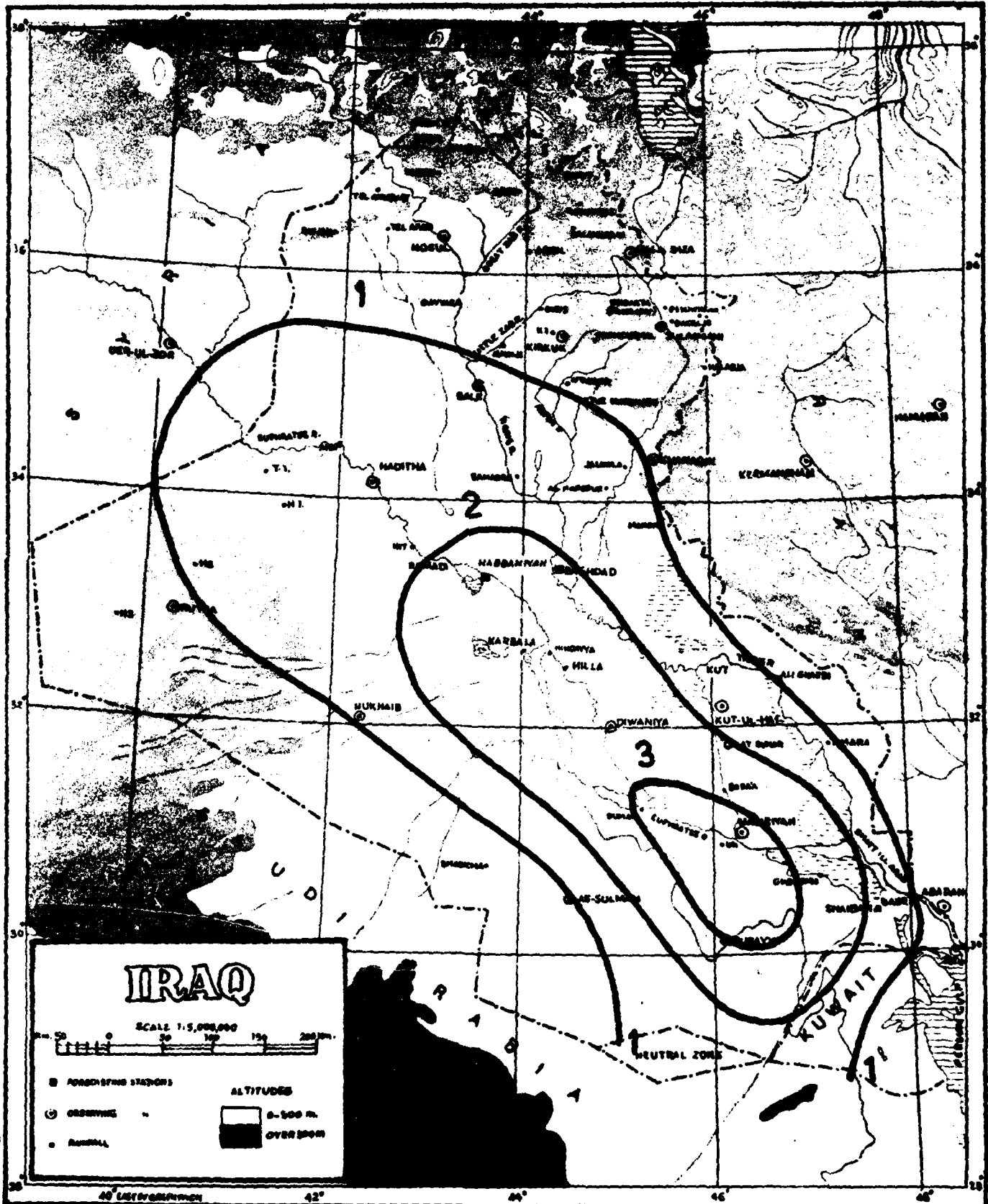
APRIL



DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

146

MAY



IRAQ

SCALE 1:5,000,000

0 50 100 150 200 Km.

APPROXIMATE STATIONS (square symbol)

OBSERVING (circle with dot symbol)

RAINFALL (circle with horizontal lines symbol)

ALTITUDES

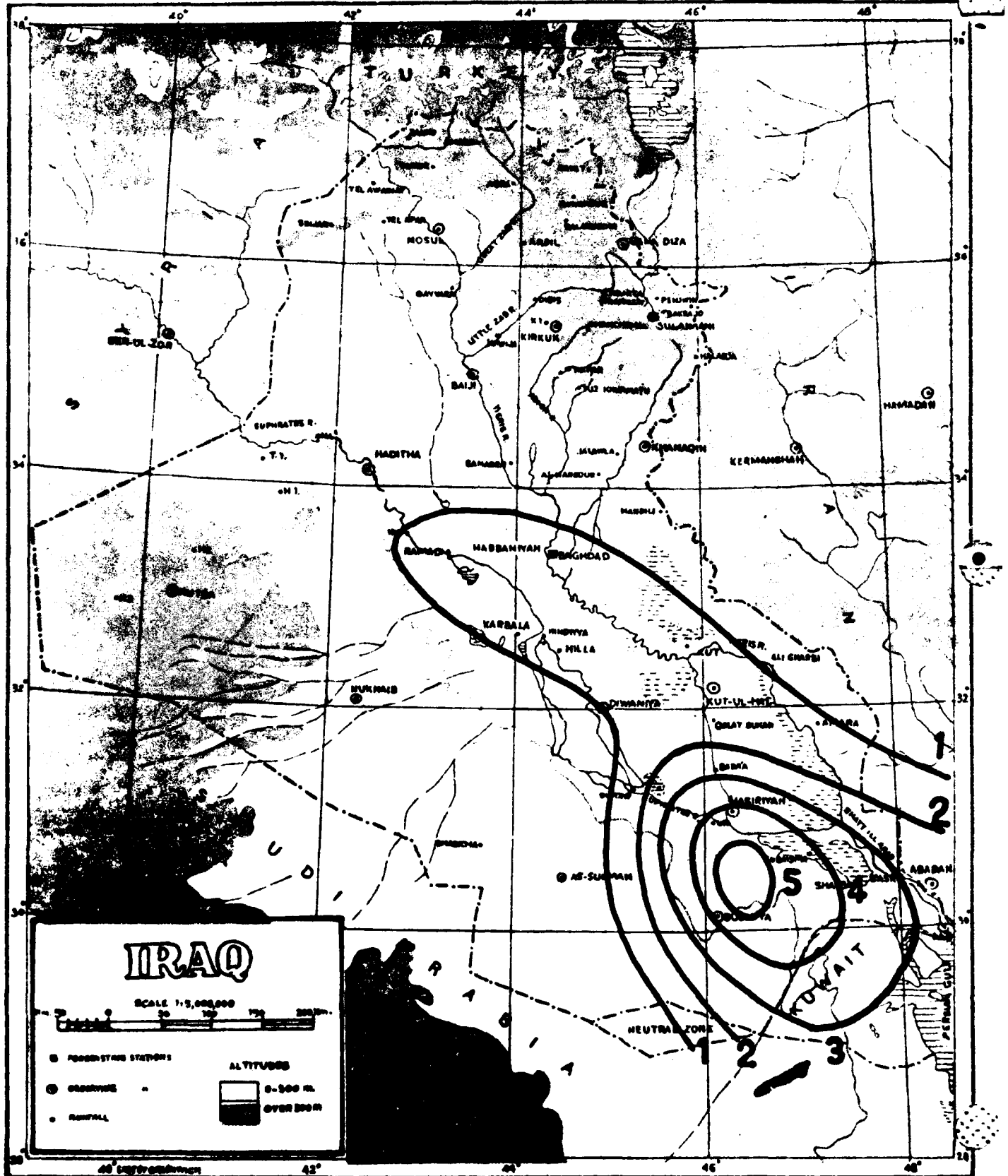
0-500 M. (white box)

OVER 500M (black box)

D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

147

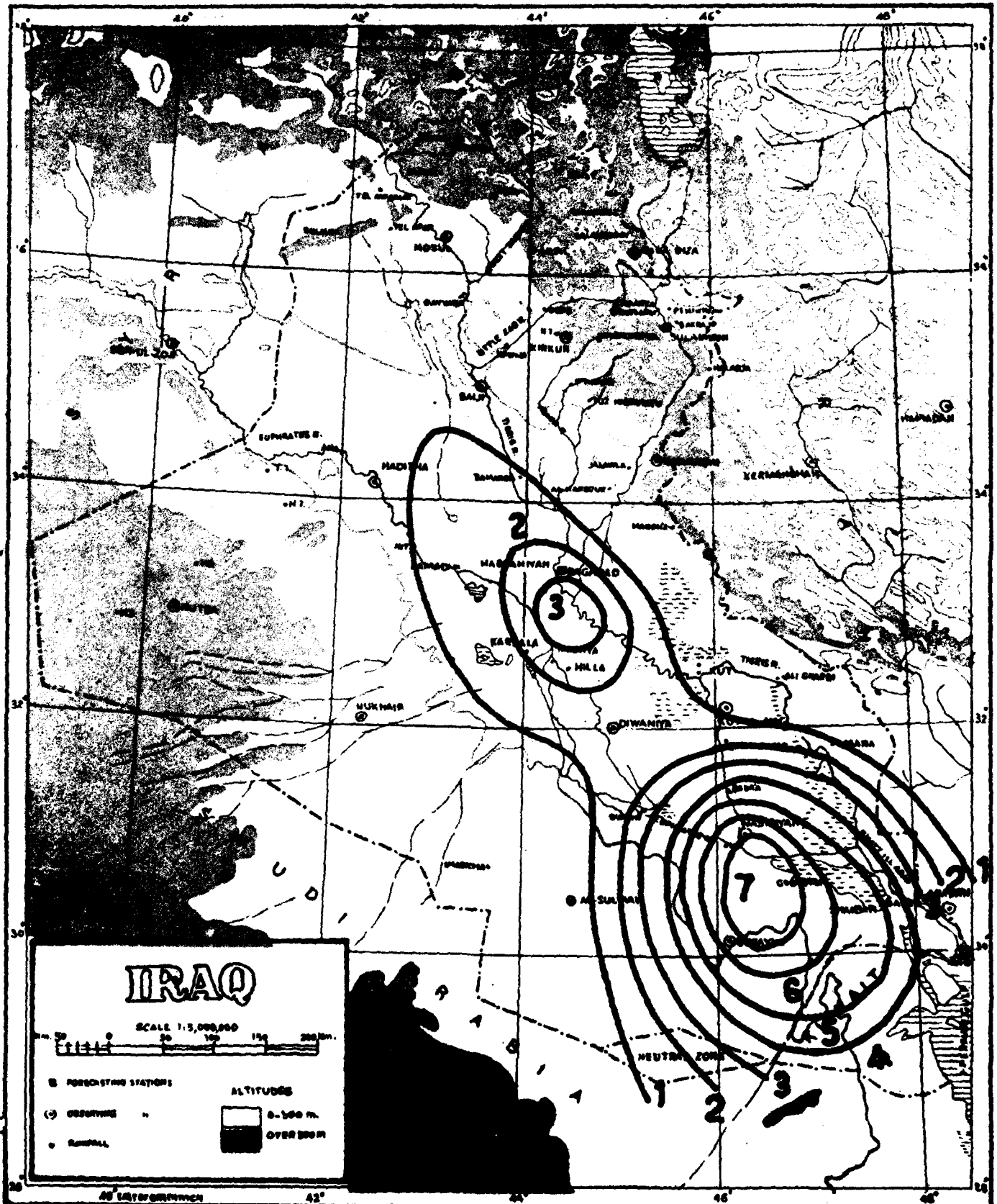
JUNE



DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

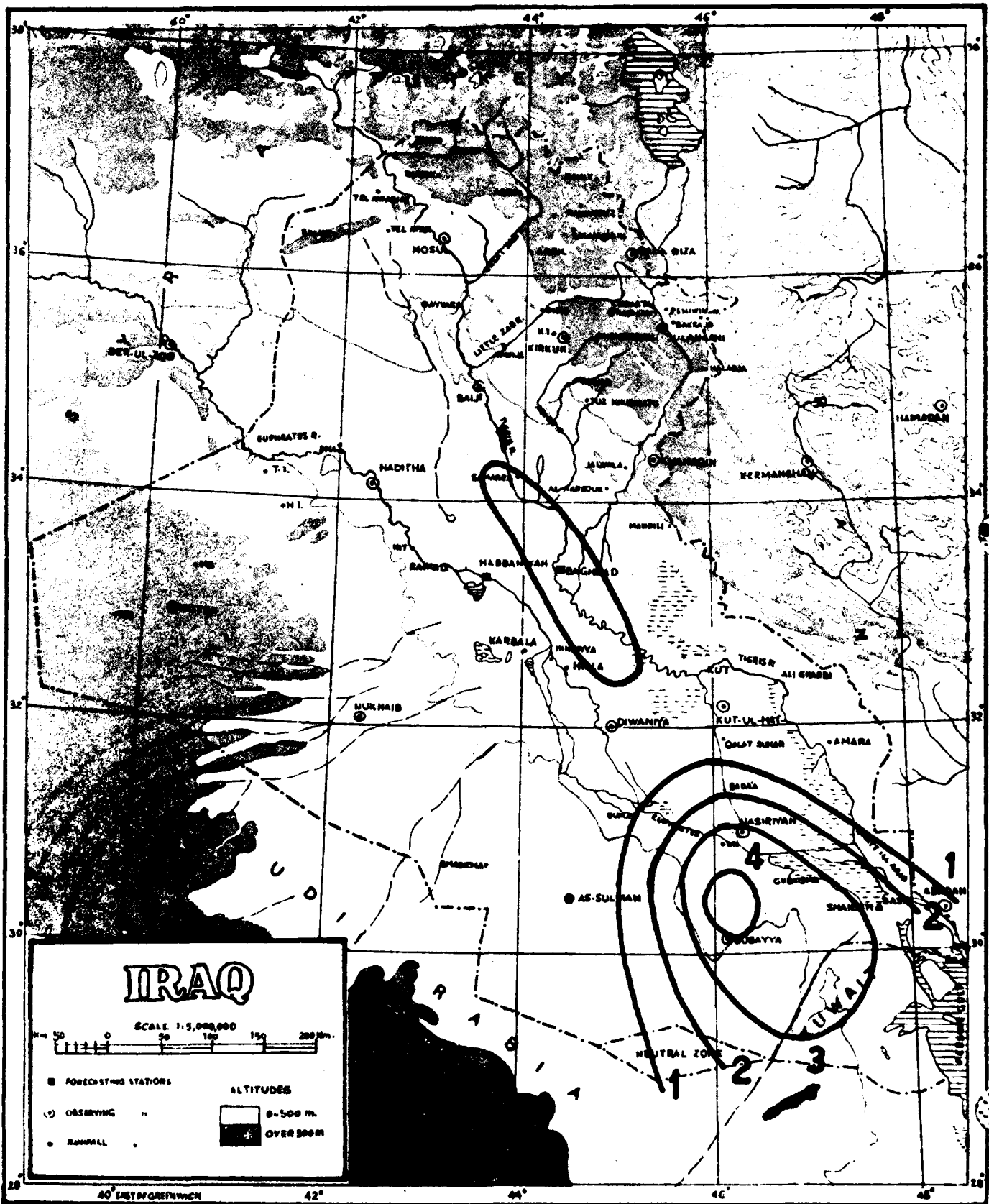
148

JULY



D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

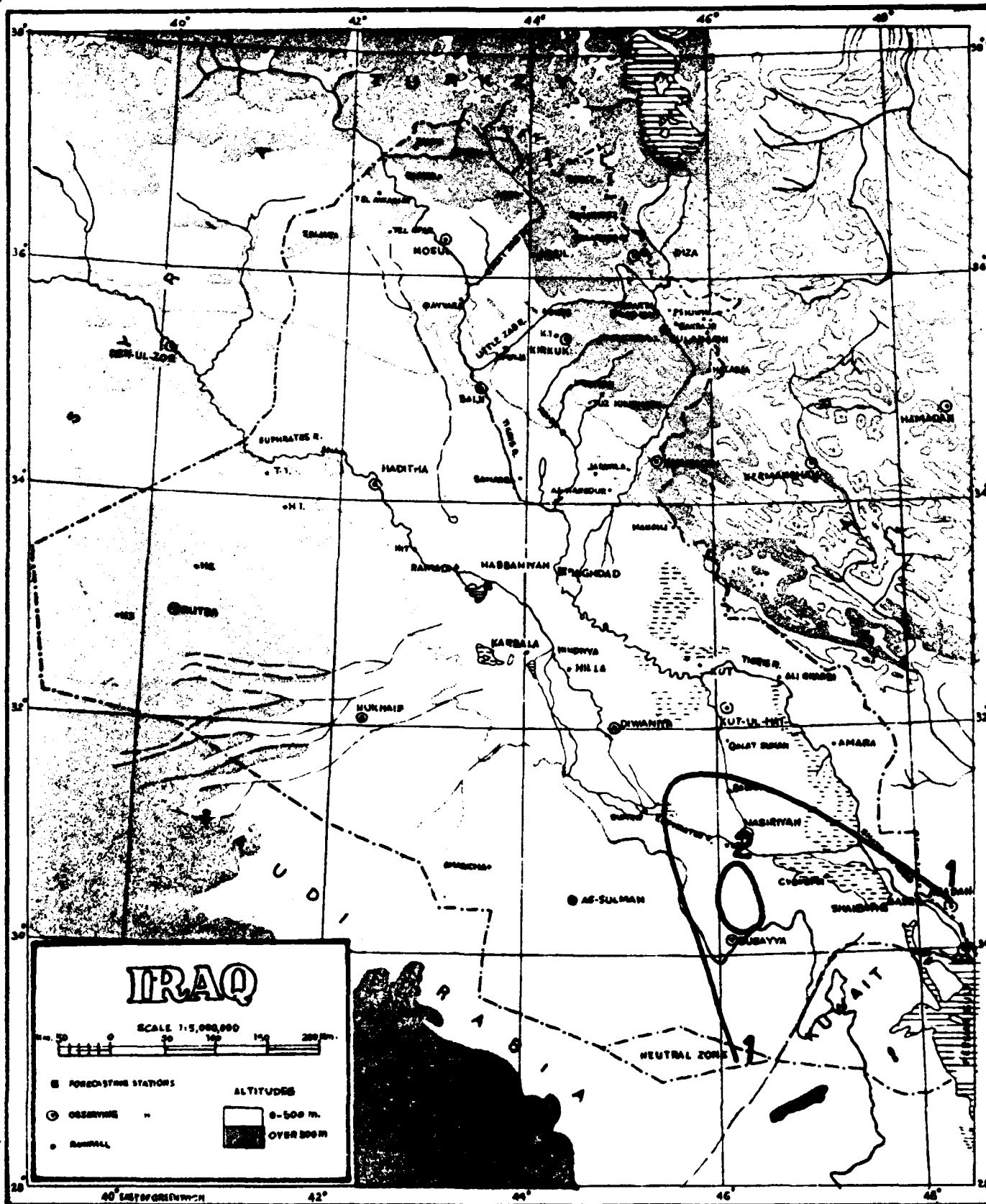
AUGUST



DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 period of records see page 2/3

150

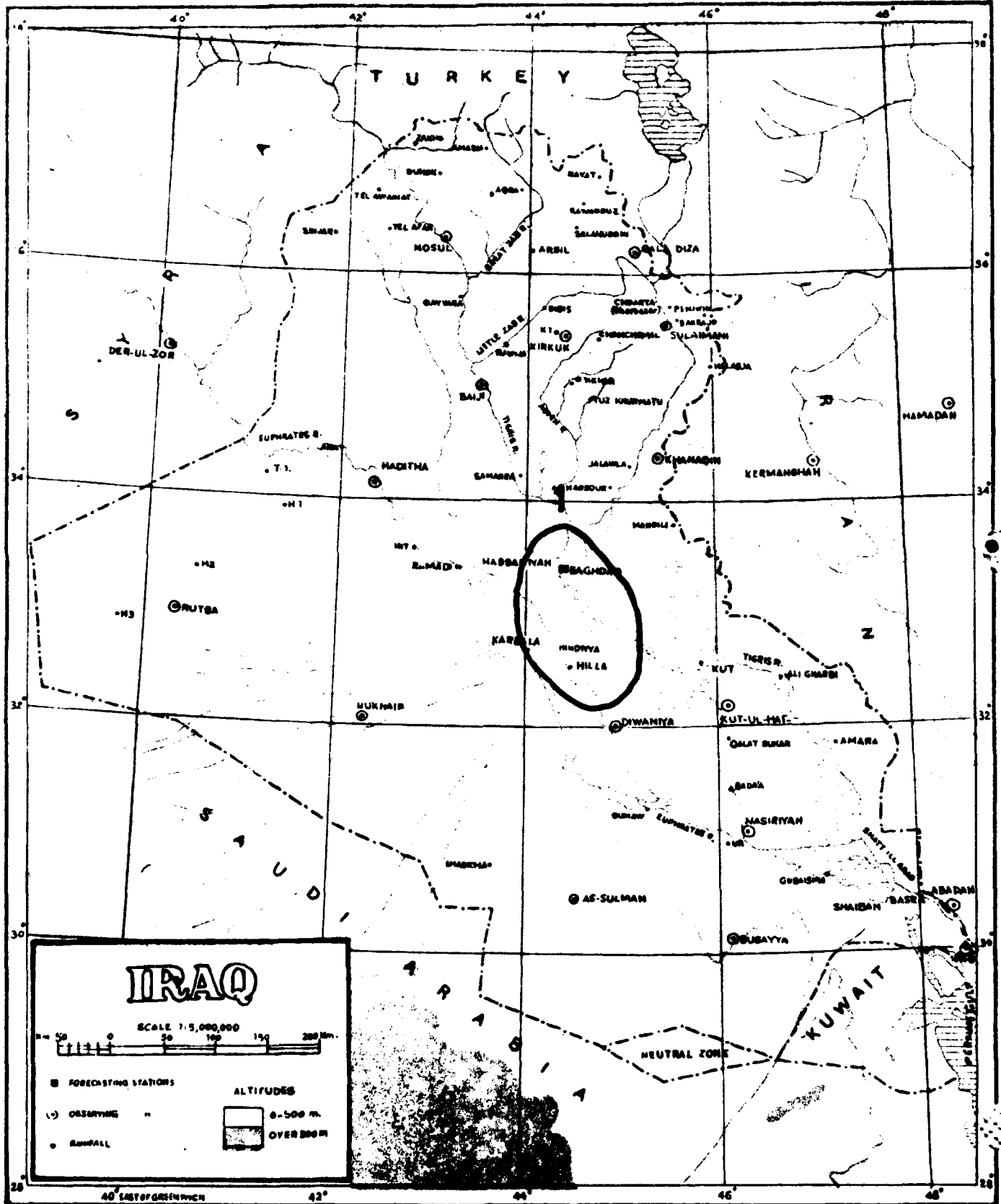
SEPTEMBER



D U S T
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 Period of records see page 2-3

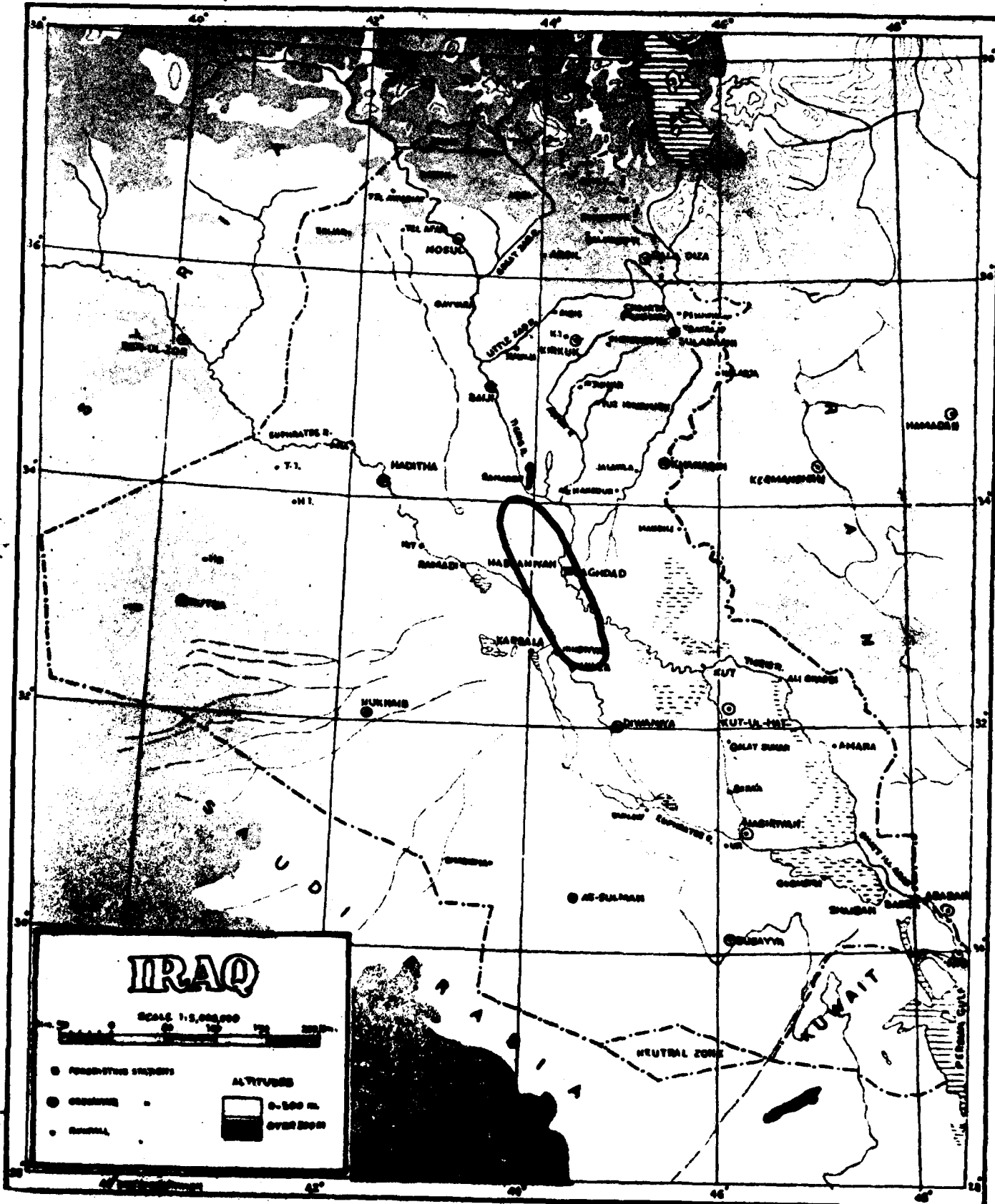
151

OCTOBER



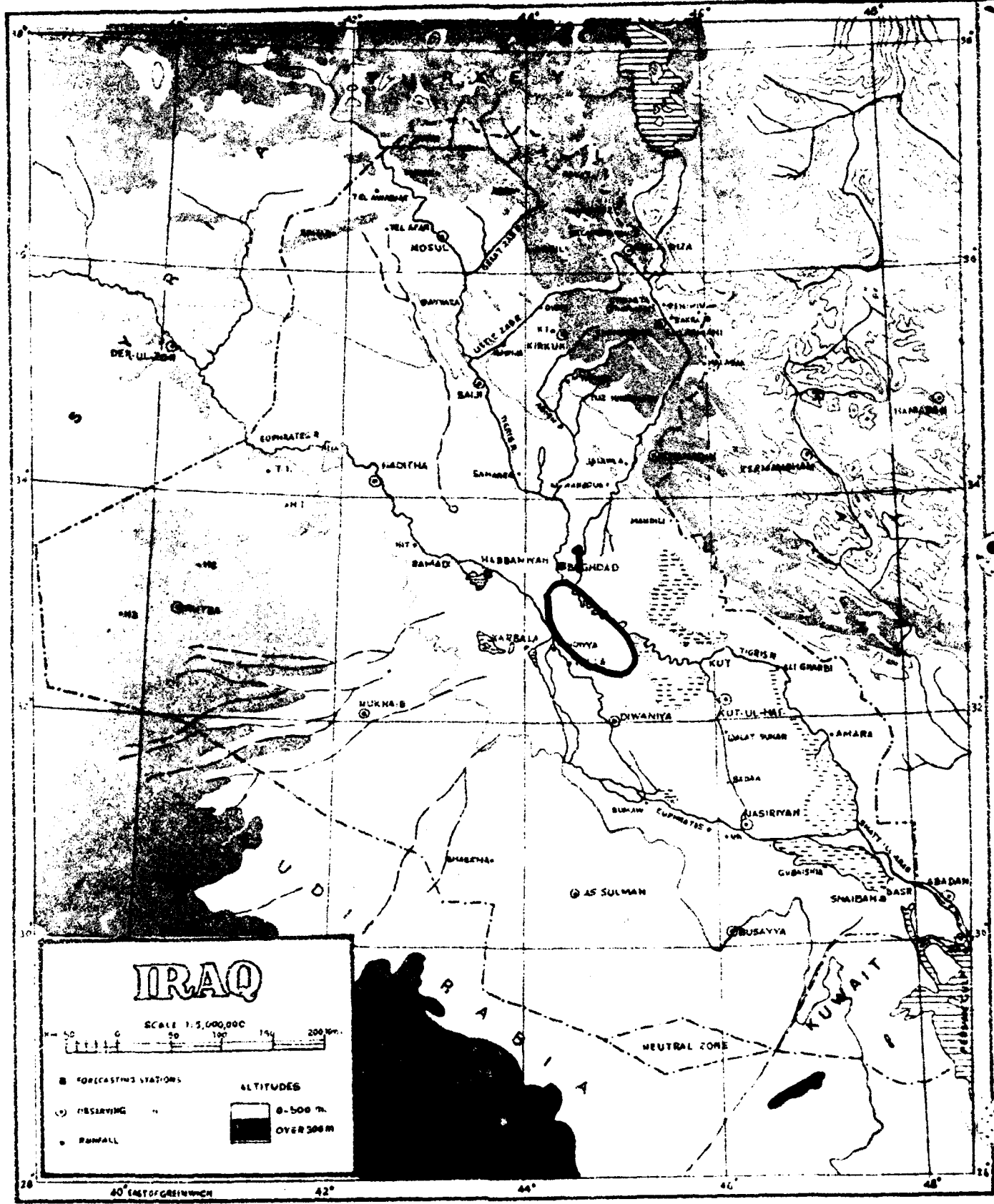
DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 Period of records see page 2-3

NOVEMBER



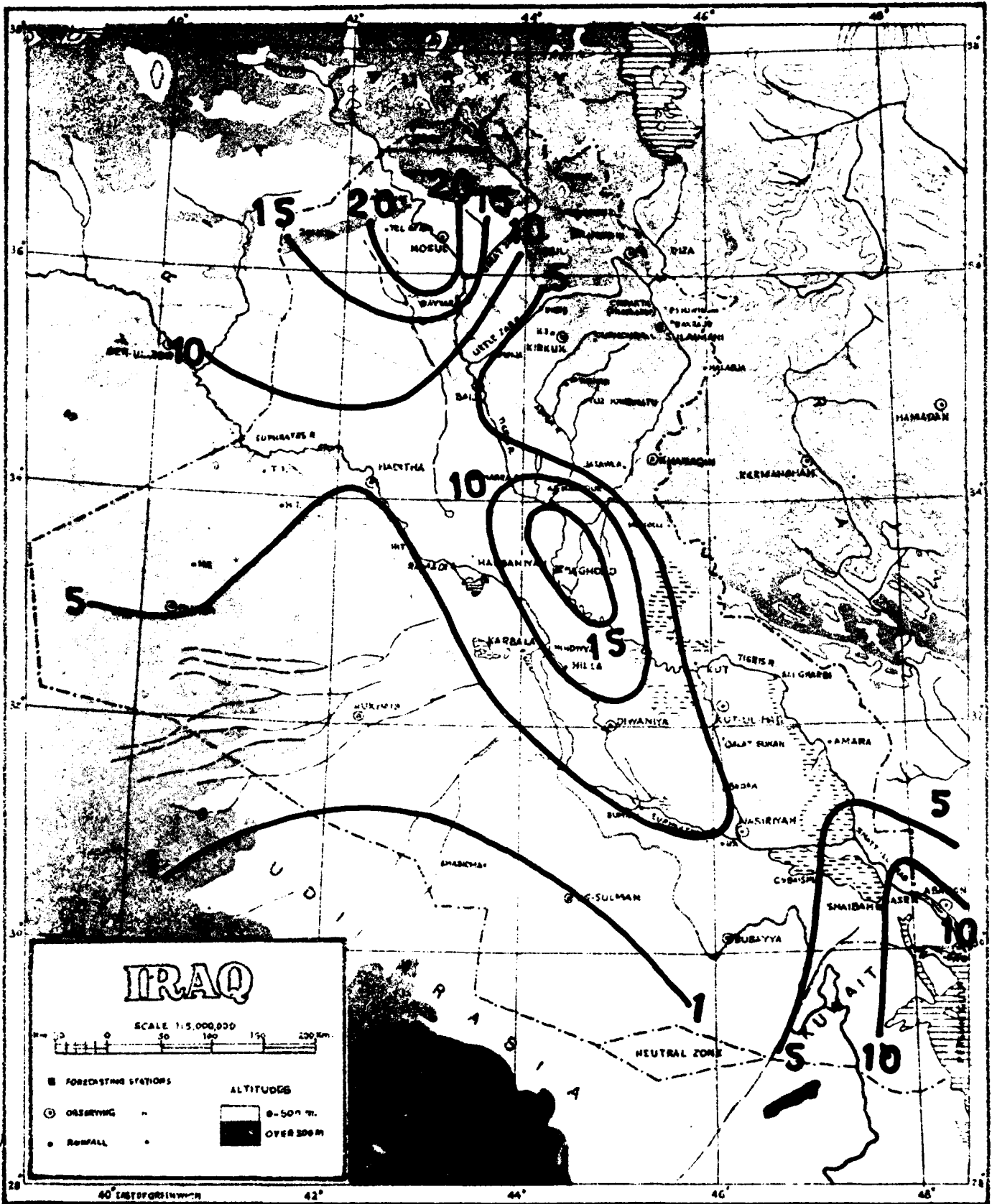
DUST
 (Visibility less than 1 Km)
 Mean Monthly Number of Days with Dust
 Period of records see page 2-3

DECEMBER



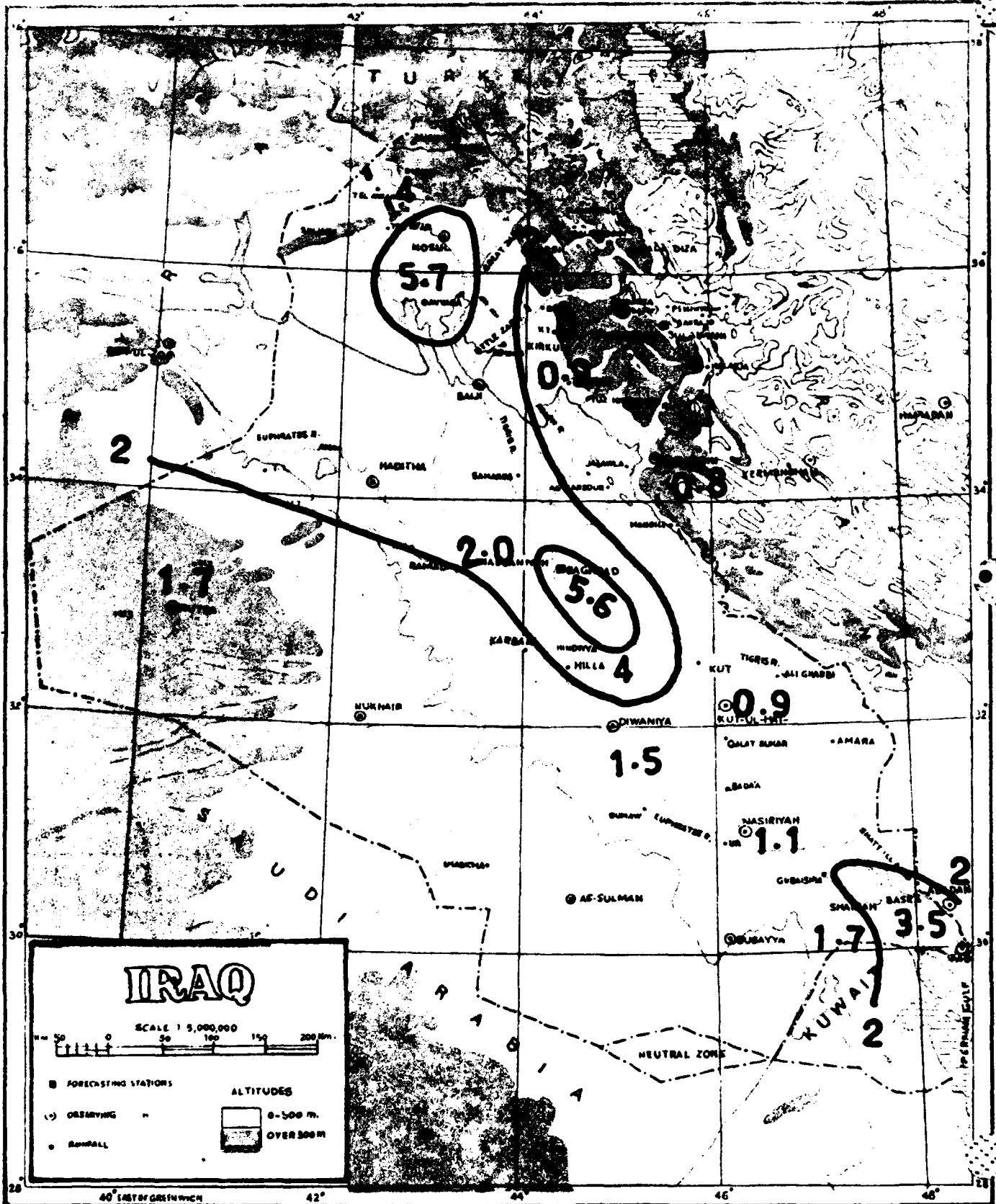
F O G

Mean Annual Number of Days with Fog Period of Records see Page 2-3



FOG
Mean Monthly Number of Days with Fog
 period of records see page 2/3

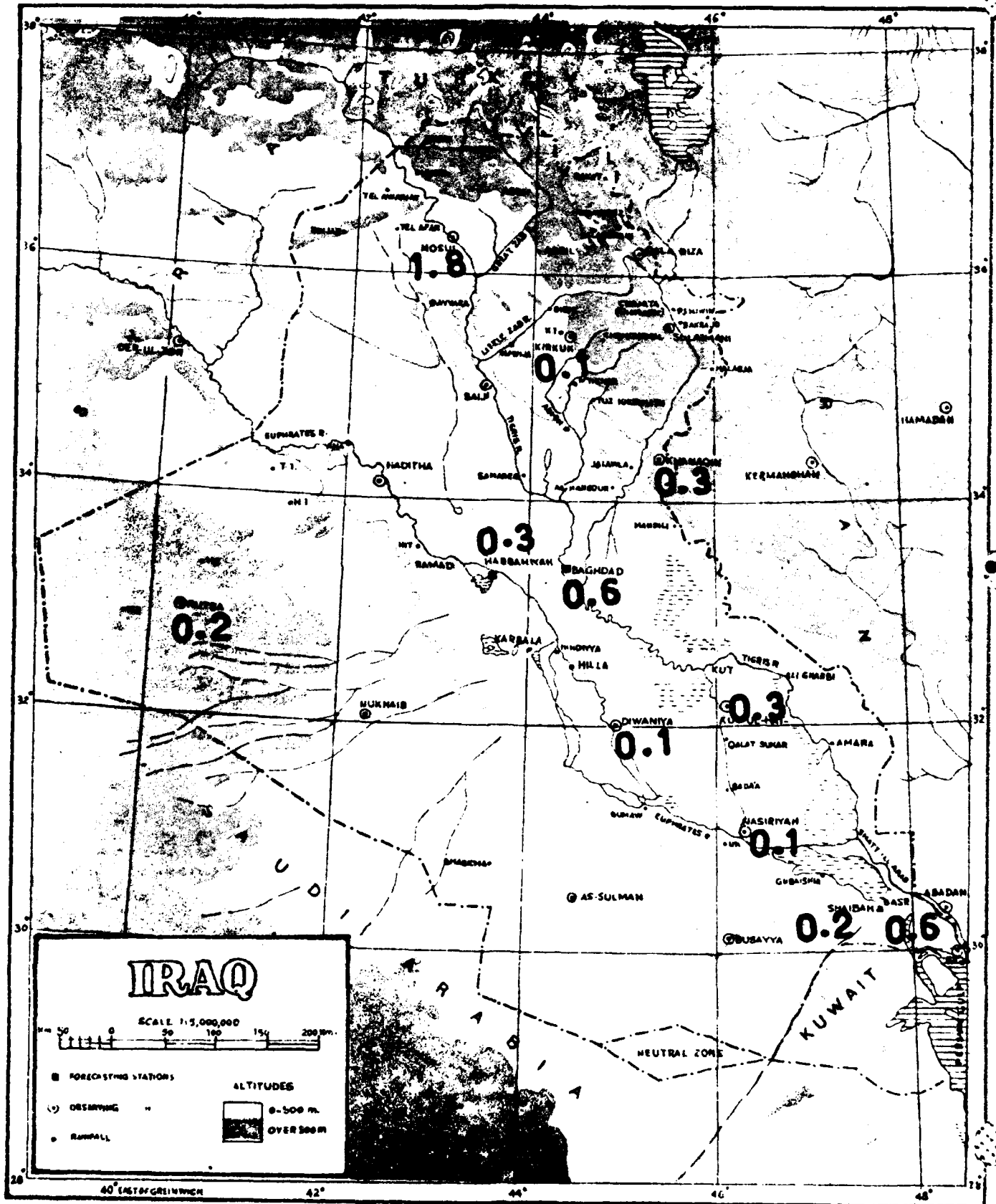
JANUARY



FOG
Mean Monthly Number of Days with Fog
 period of records see page 2/3

157

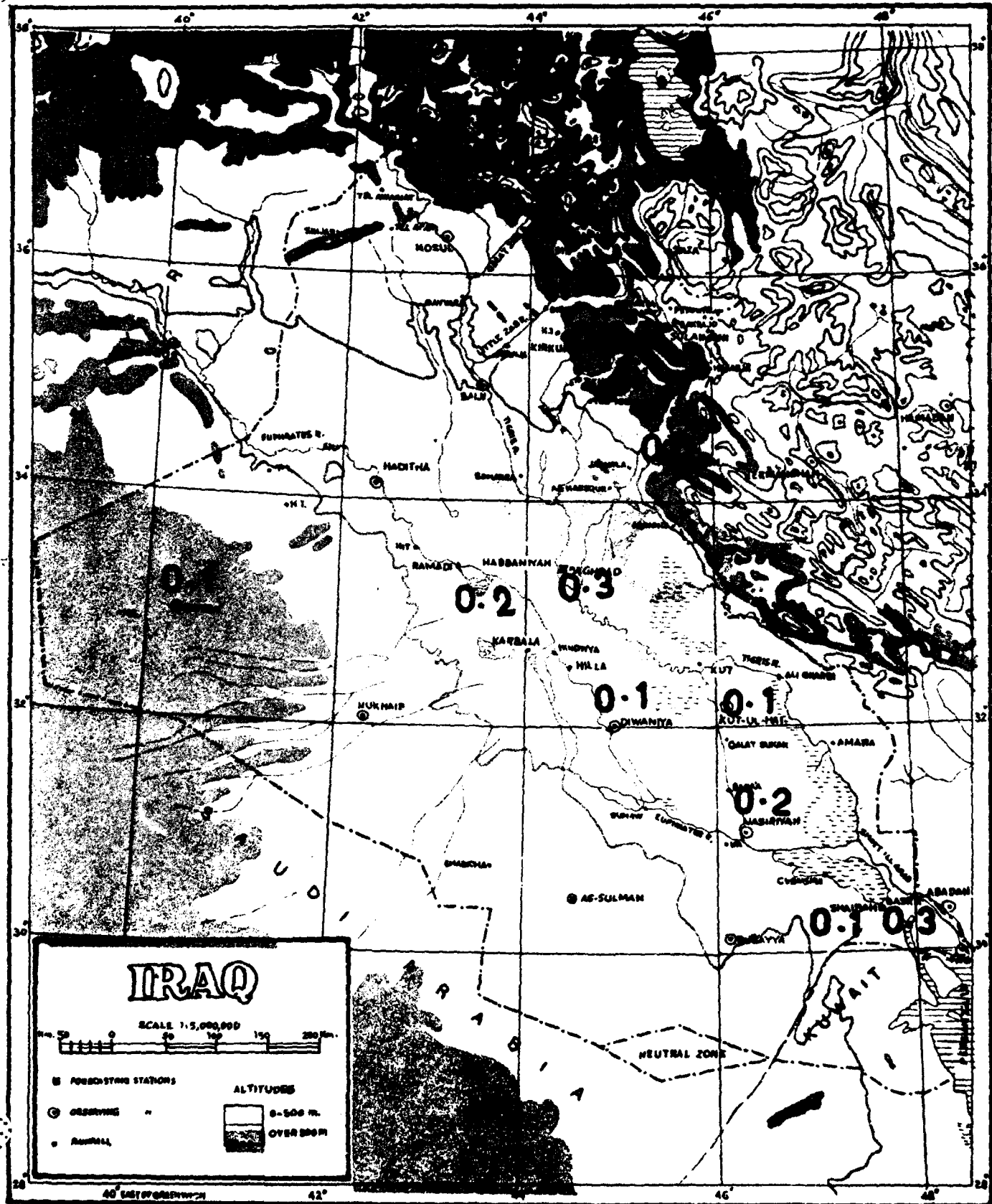
MARCH



F O G
Mean Monthly Number of Days with Fog
 period of records see page 2/3

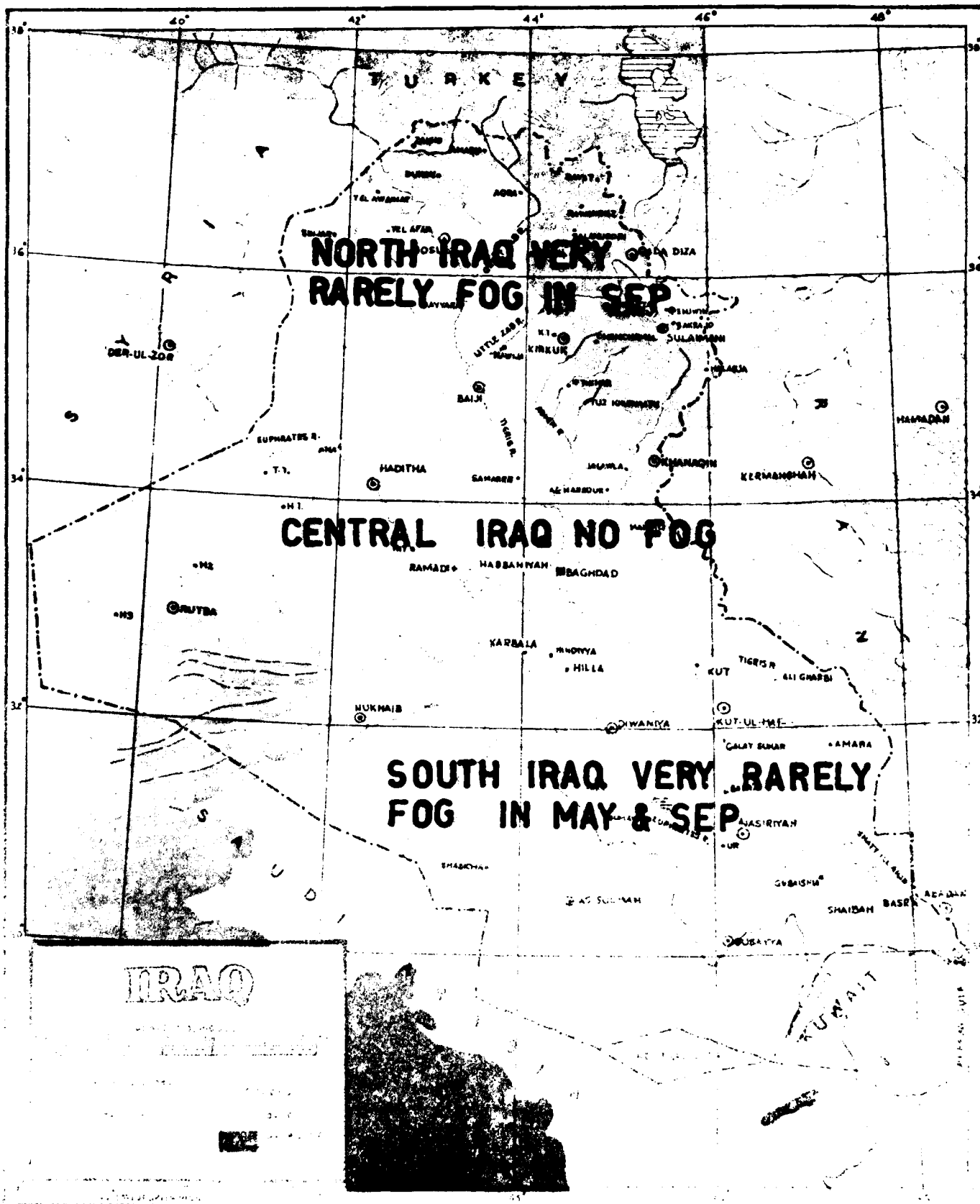
158

APRIL



FOG
Mean Monthly Number of Days with Fog
period of records see page 2/3

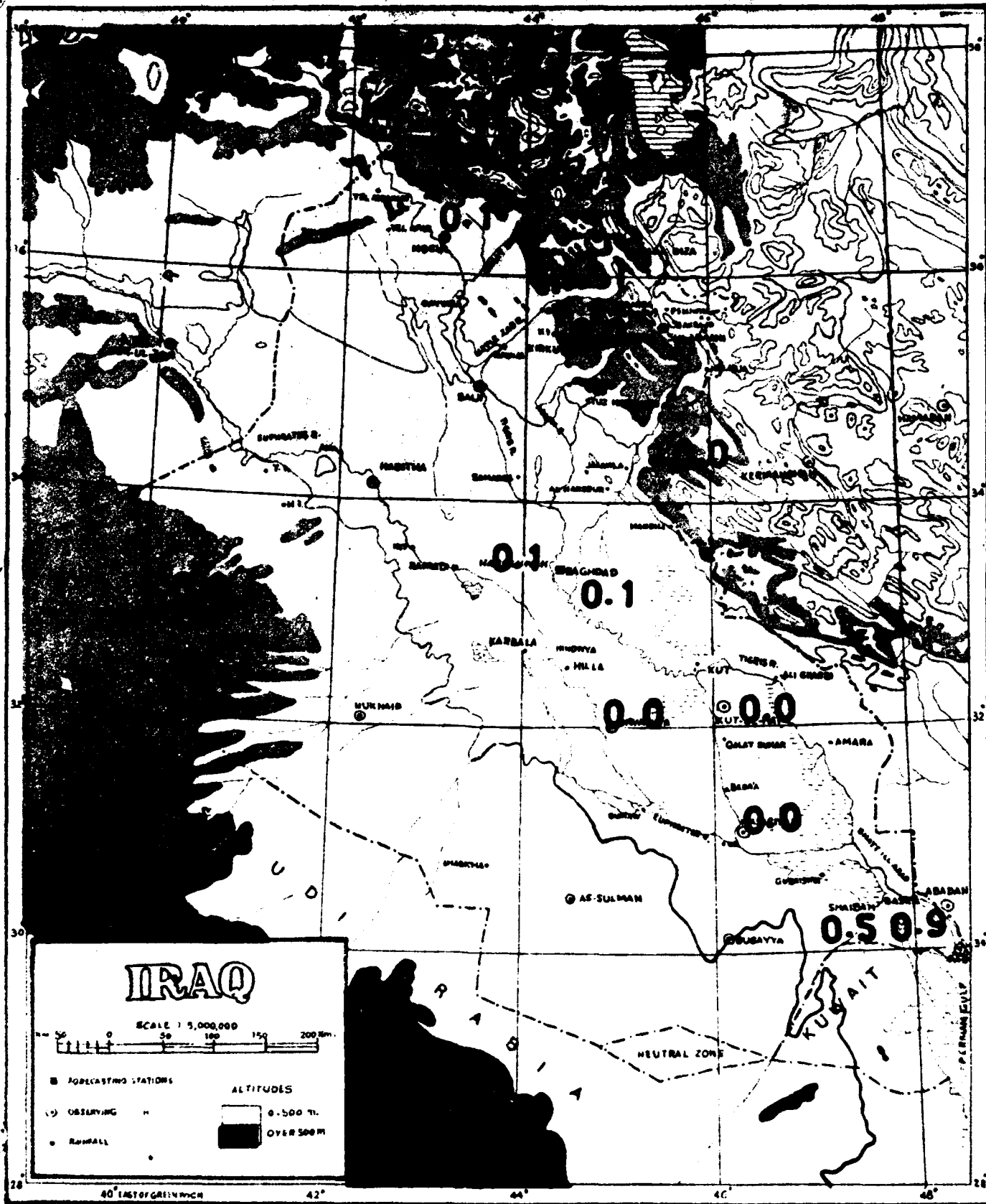
MAY AUG.
JUN. SEP.
JUL.



FOG
Mean Monthly Number of Days with Fog
 period of records see page 2/3

160

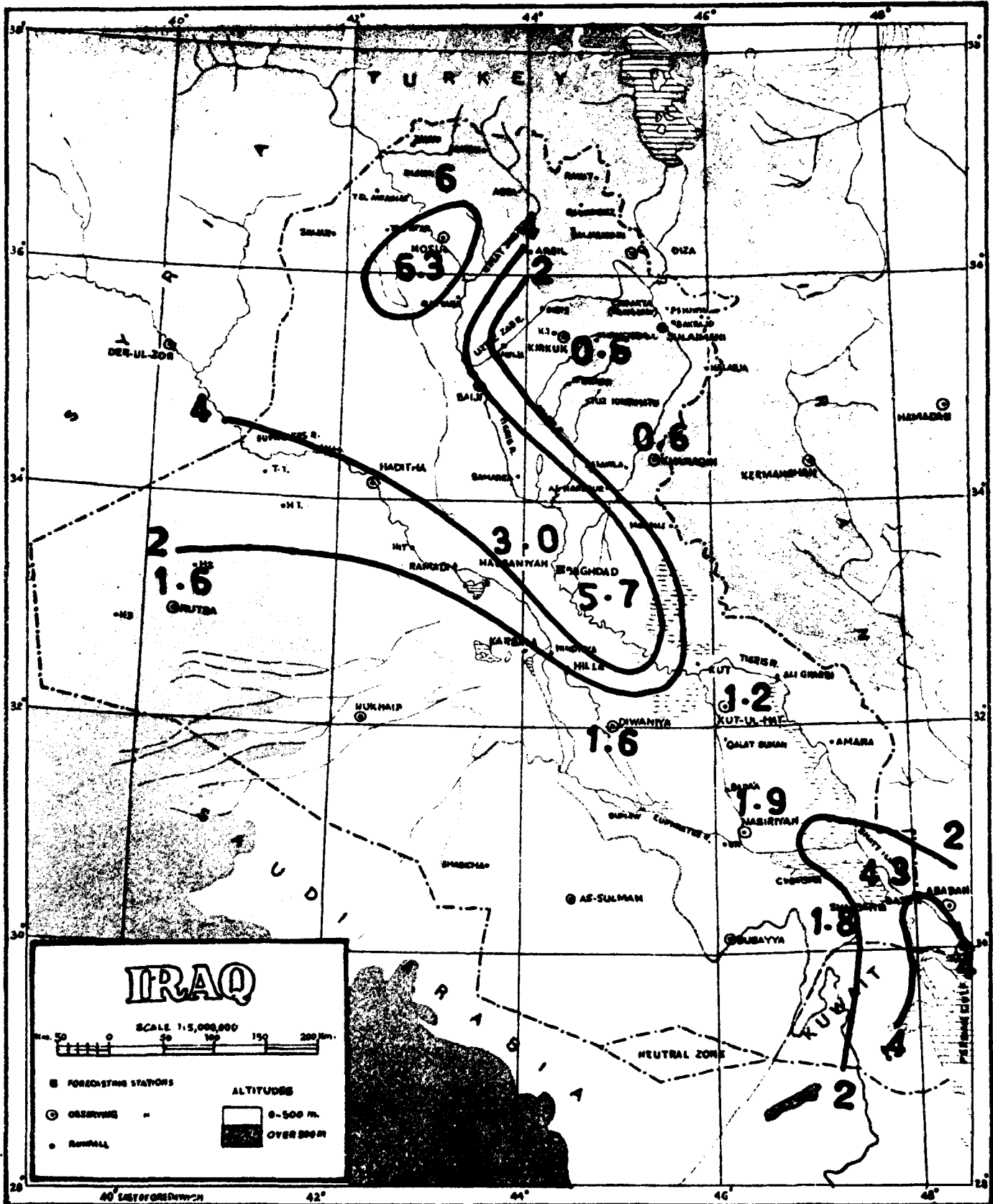
OCTOBER



FOG
 Mean Monthly Number of Days with Fog
 period of records see page 2/3

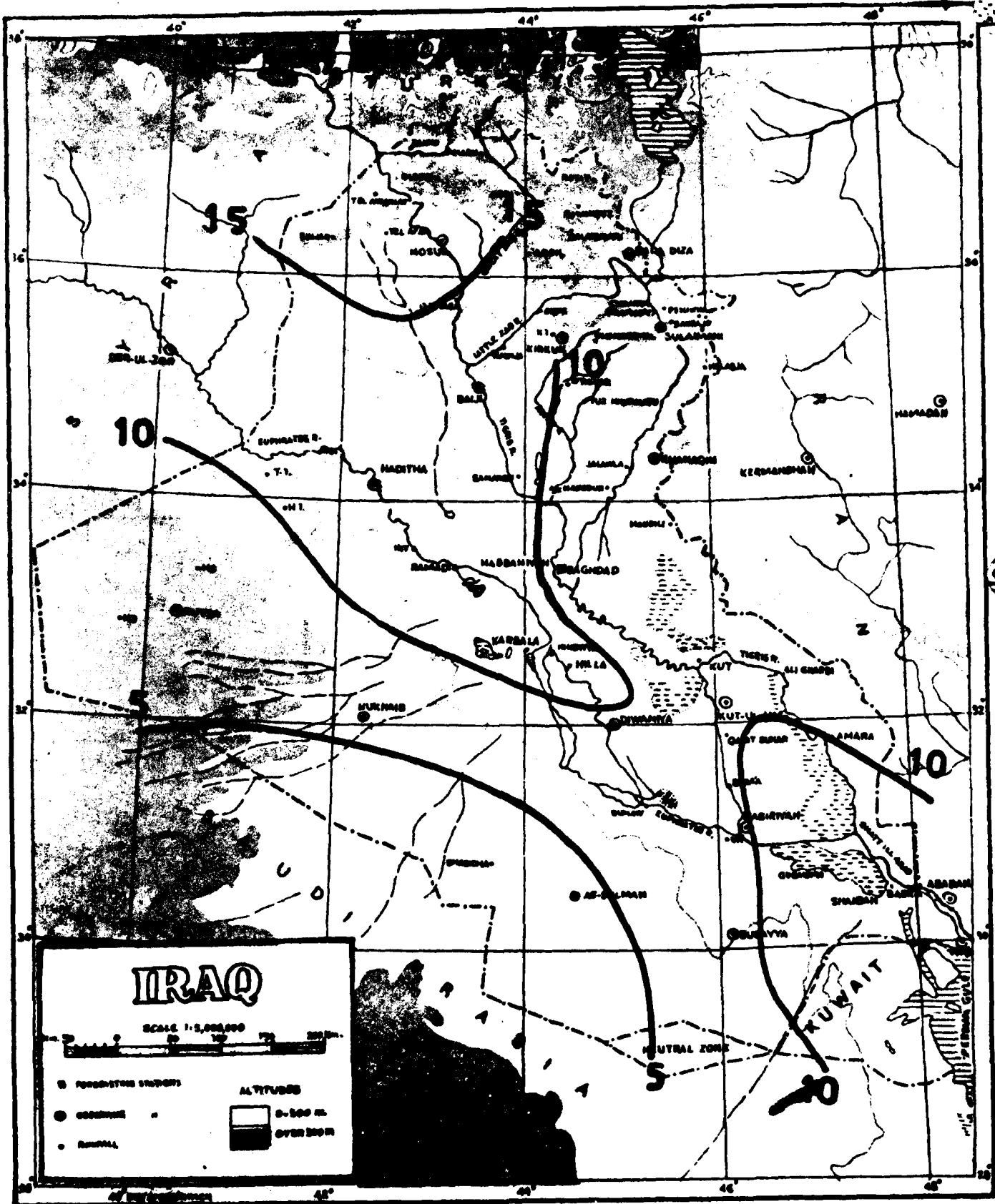
162

DECEMBER



THUNDERSTORM

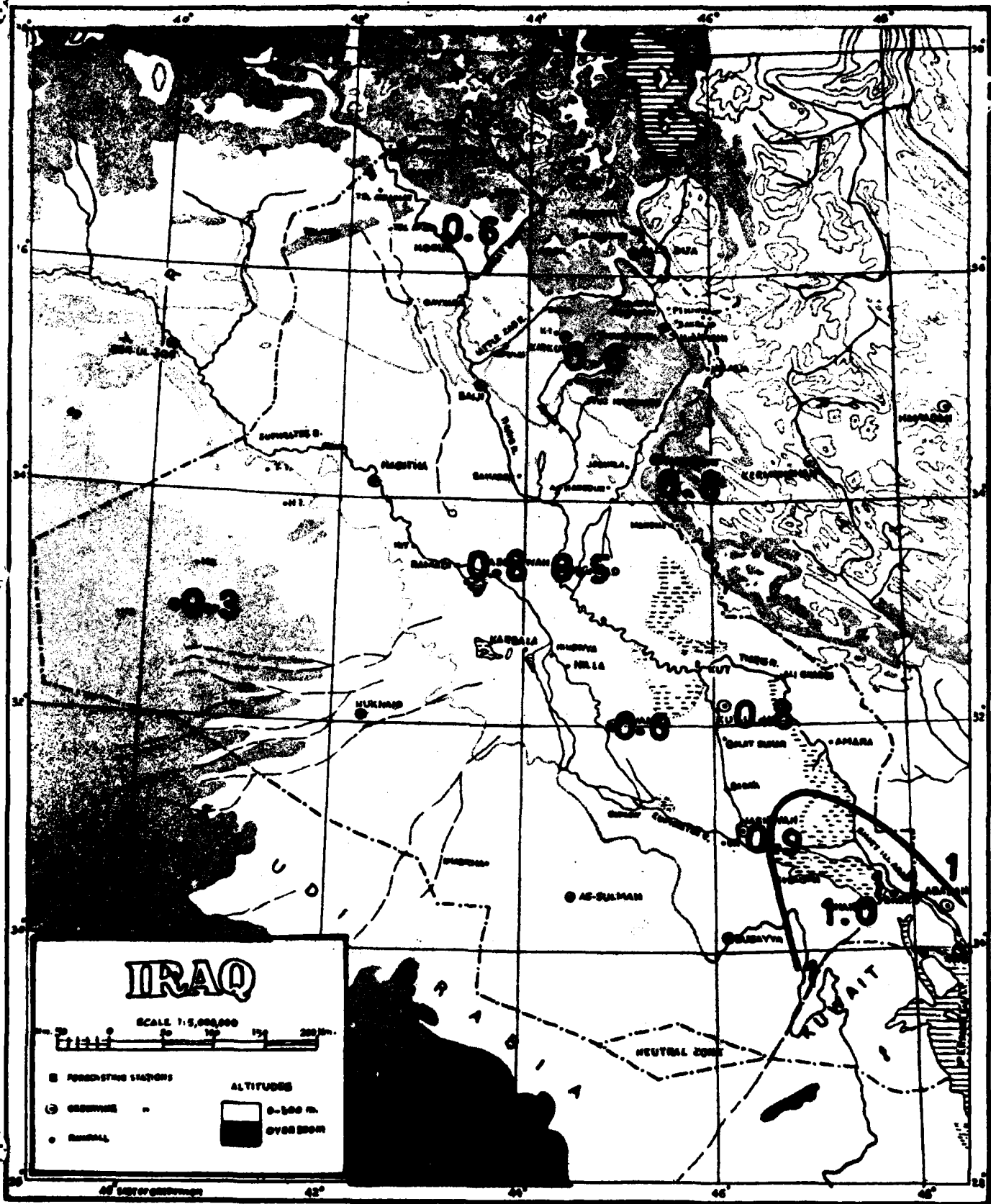
Mean Annual Number of Days with Thunderstorm
period of records see page 2/3



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorms
 period of records see page 2/3

164

JANUARY

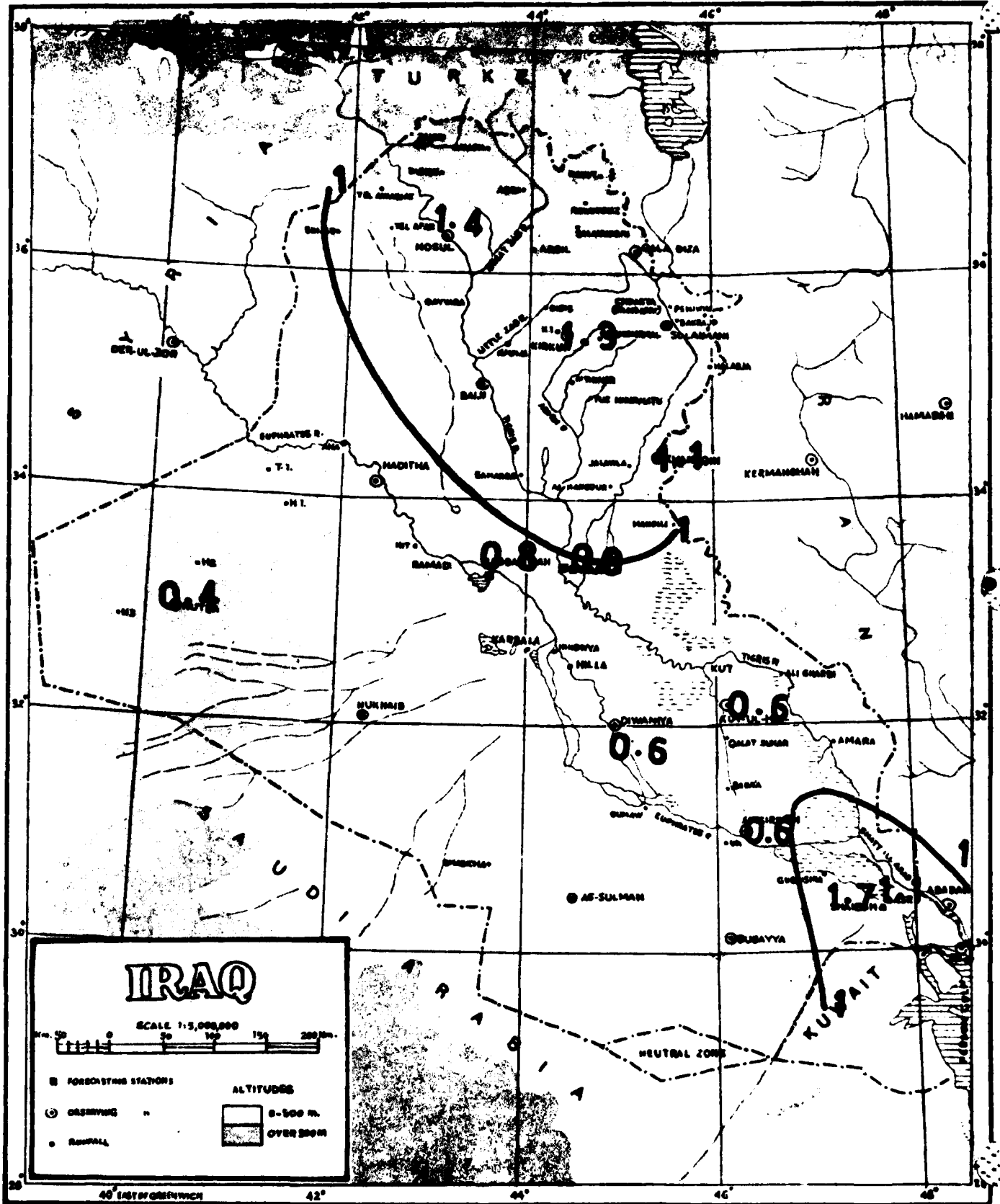


THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

165

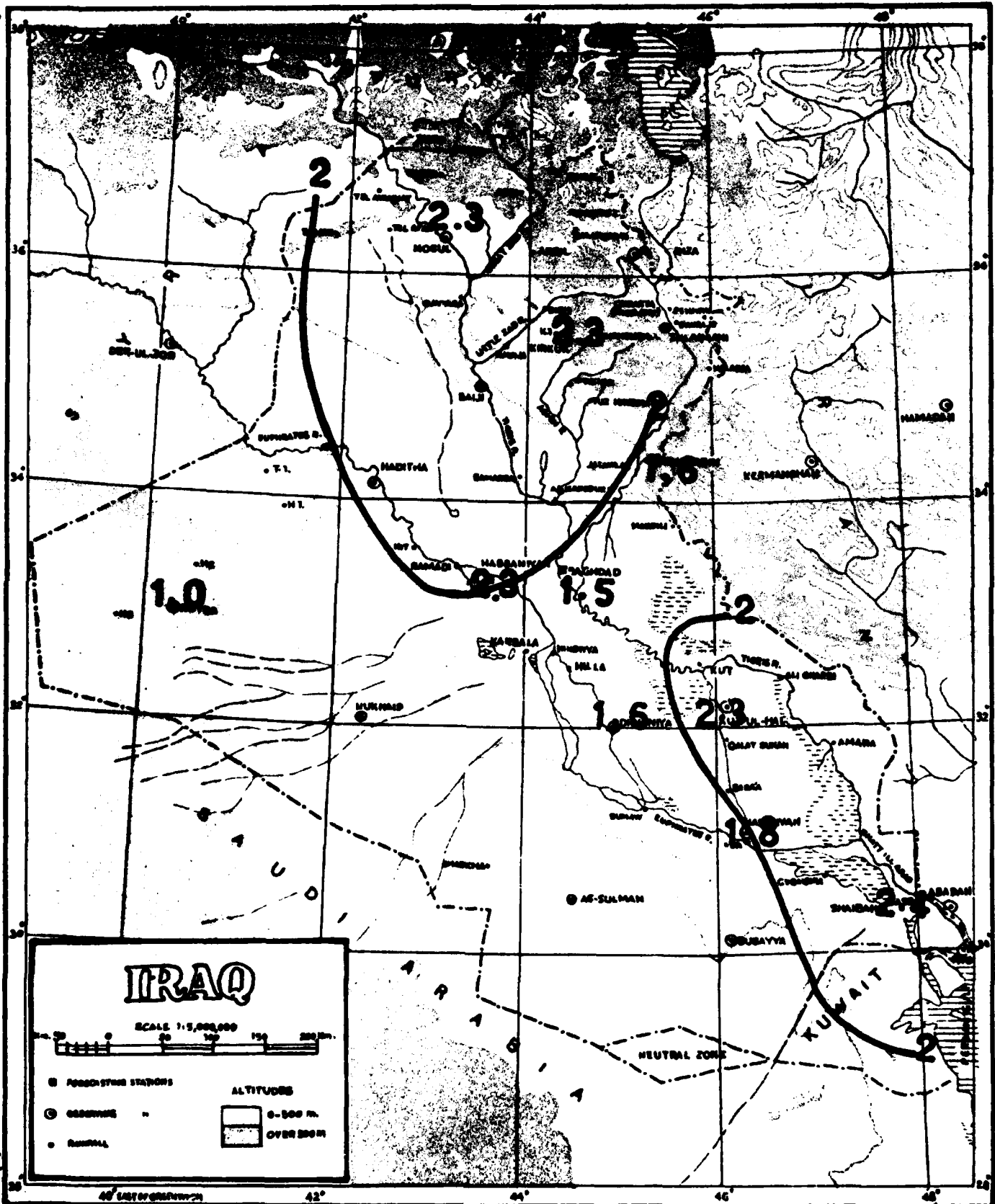
FEBRUARY



THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

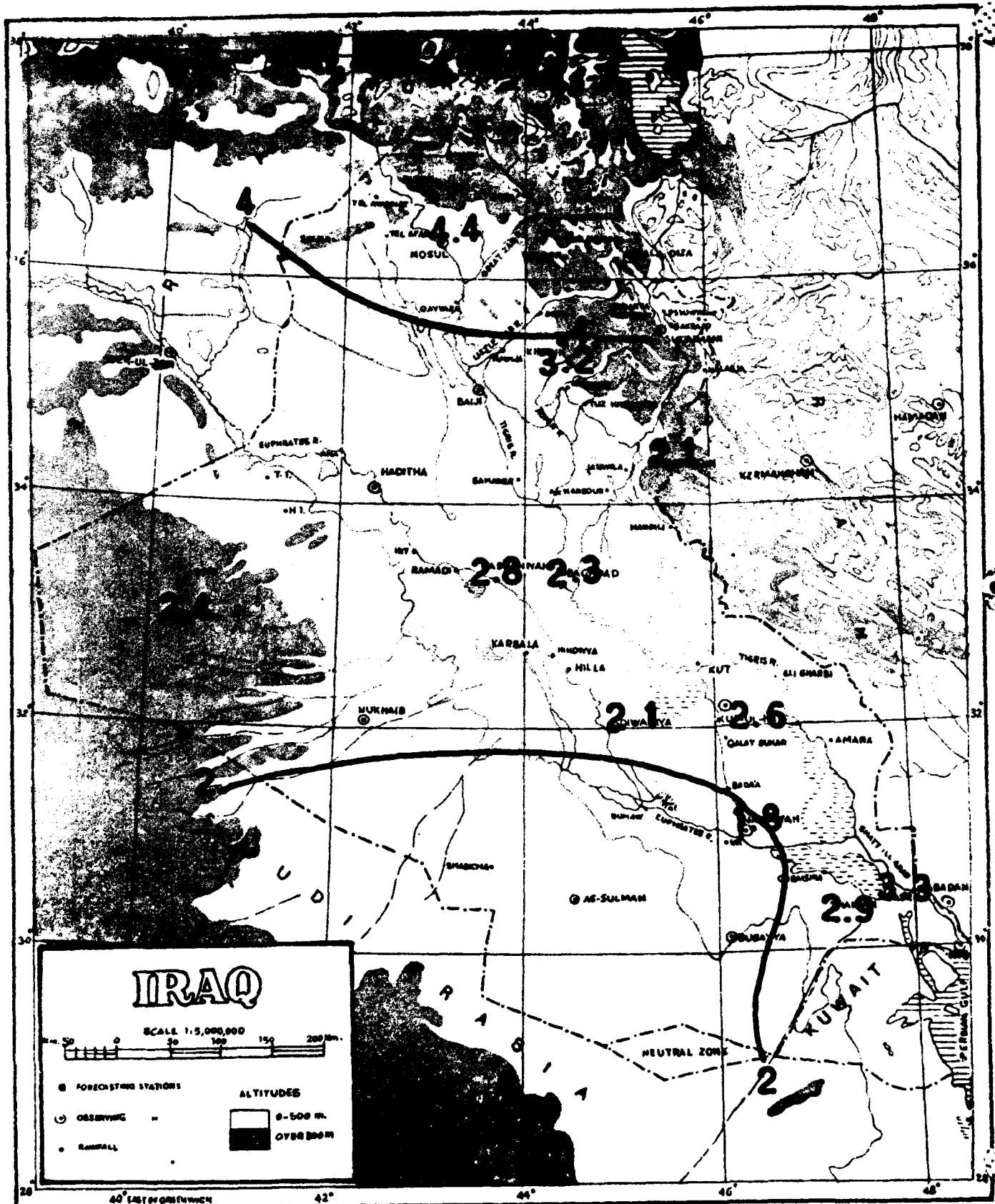
MARCH



THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

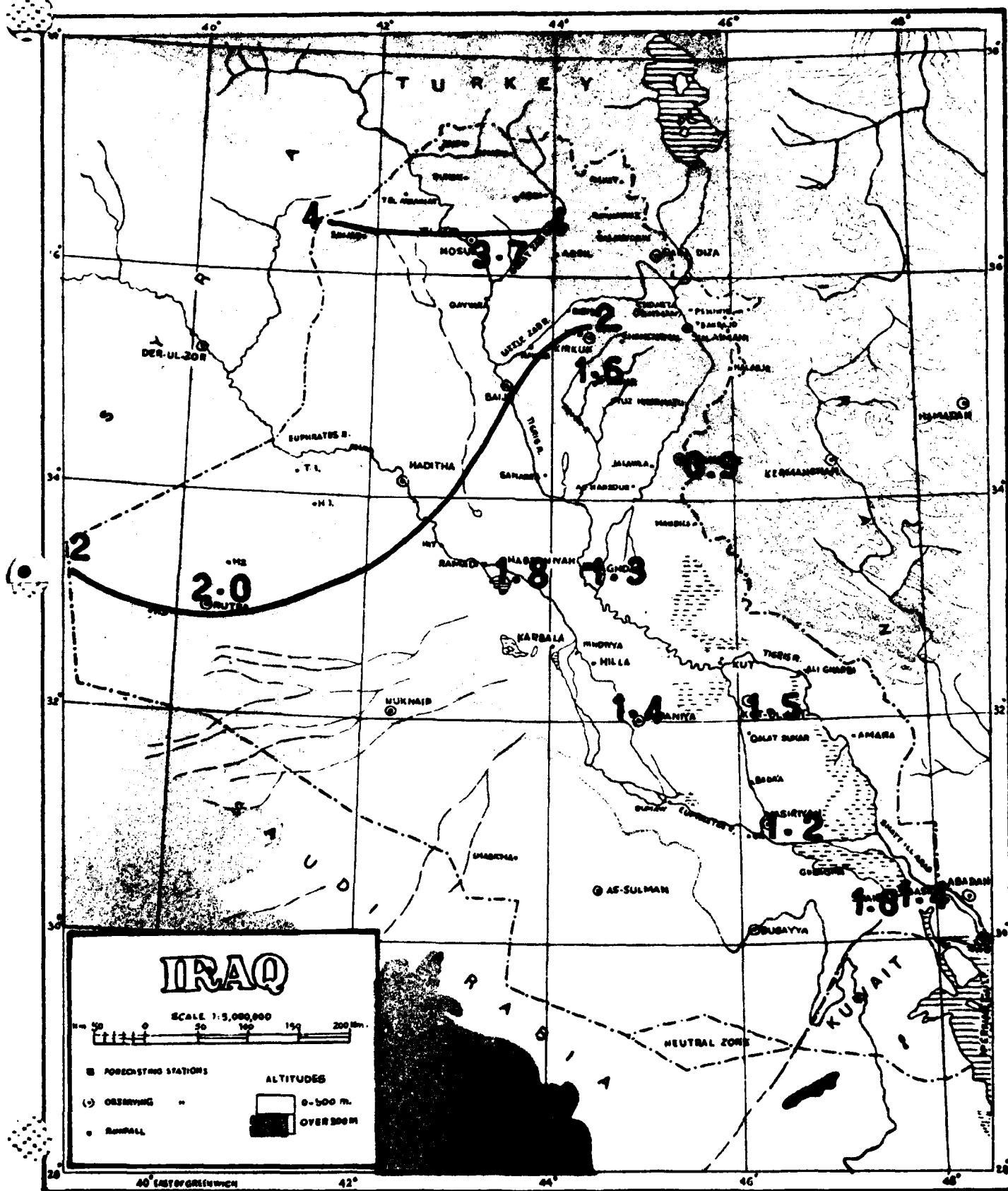
APRIL



THUNDERSTORM
 Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

168

MAY

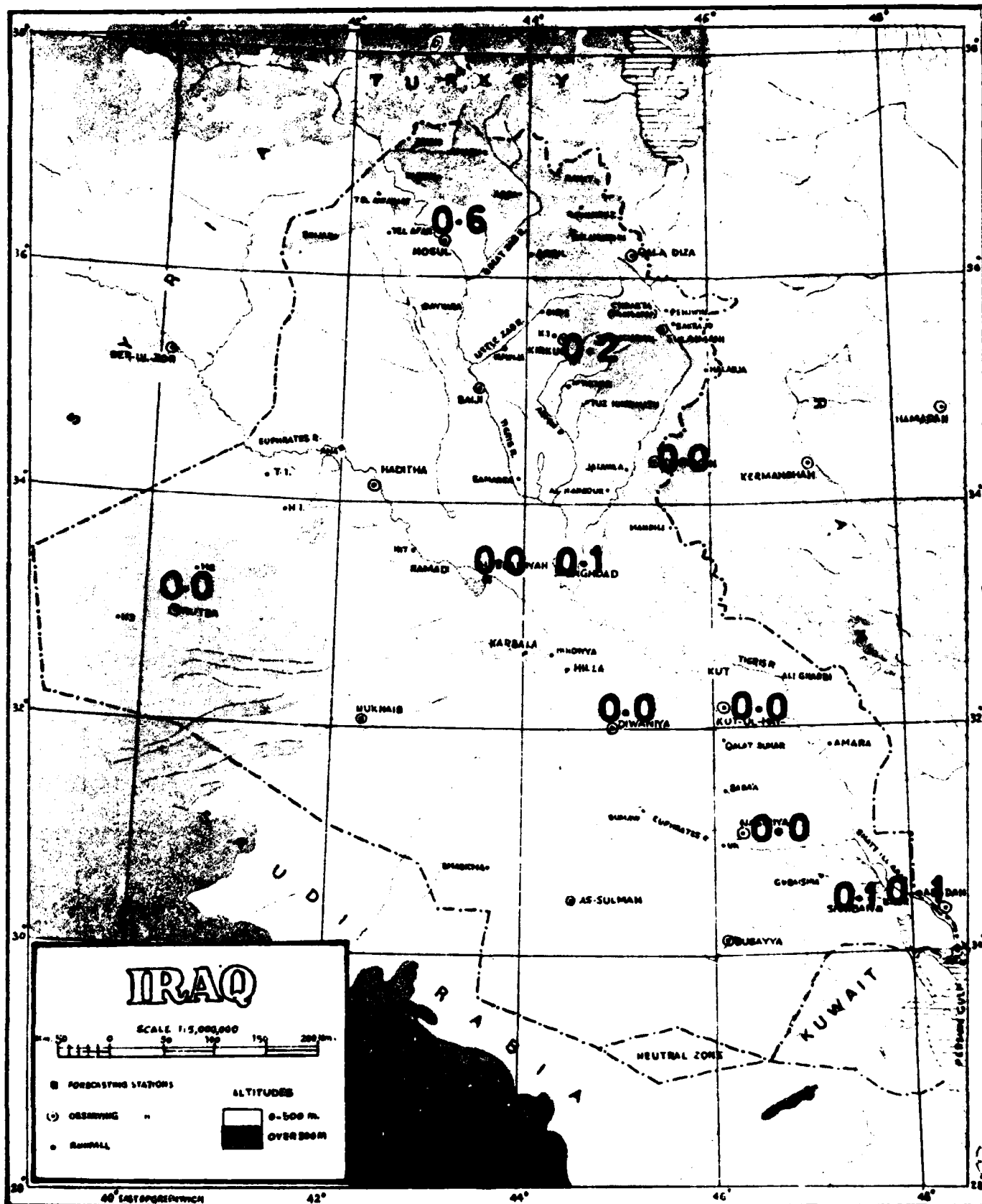


THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

169

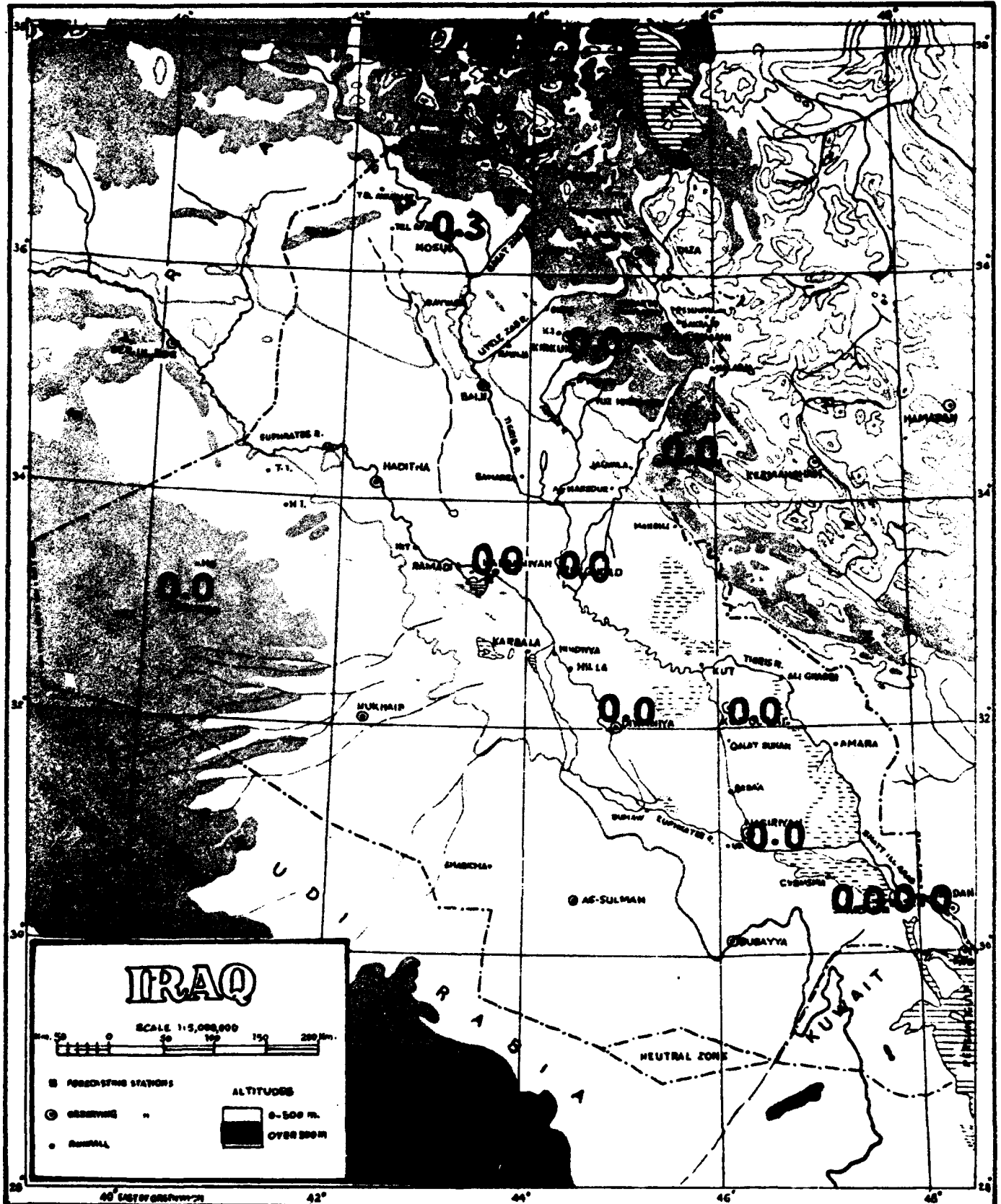
JUNE



THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

170

JULY

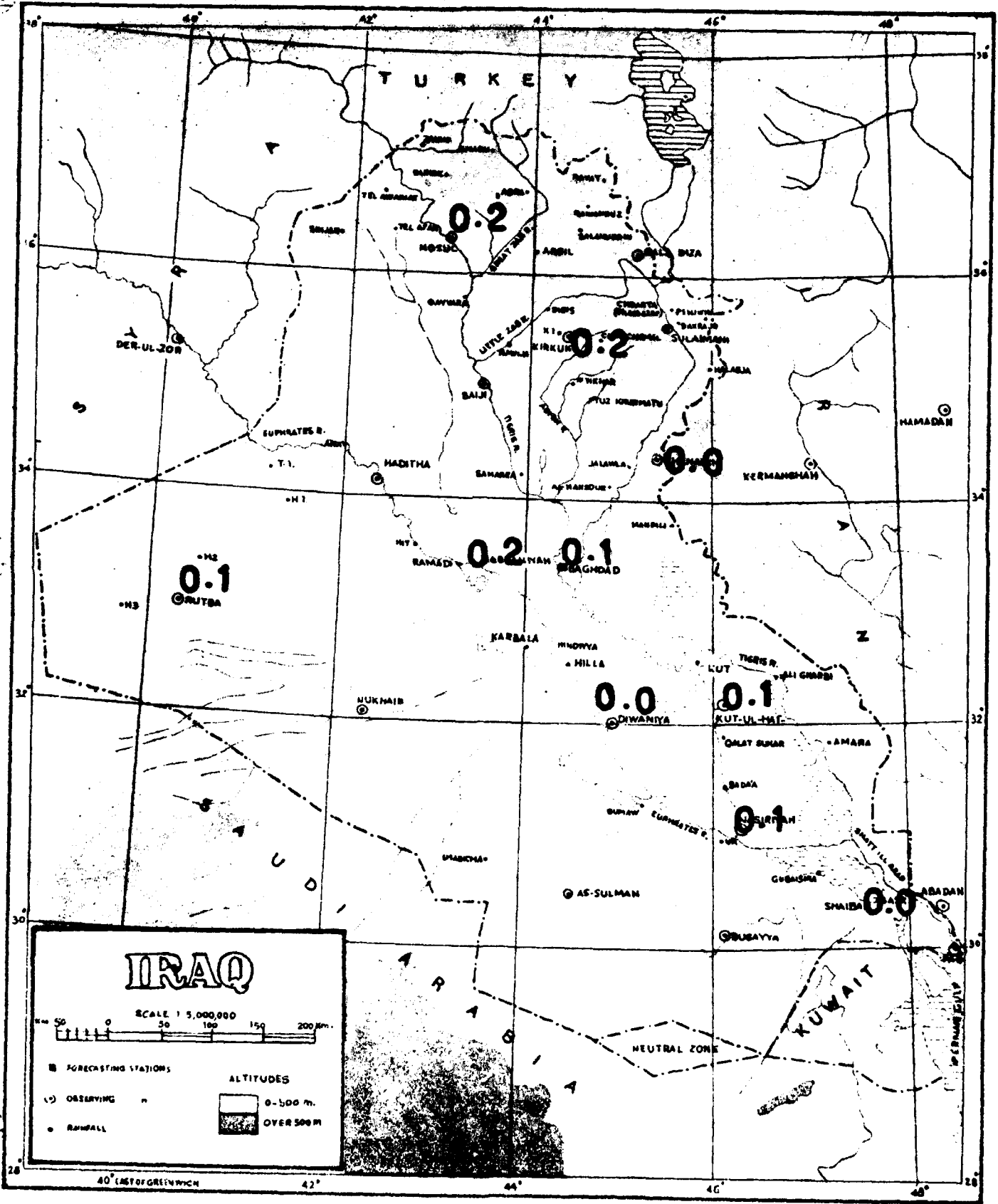


THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

172

SEPTEMBER

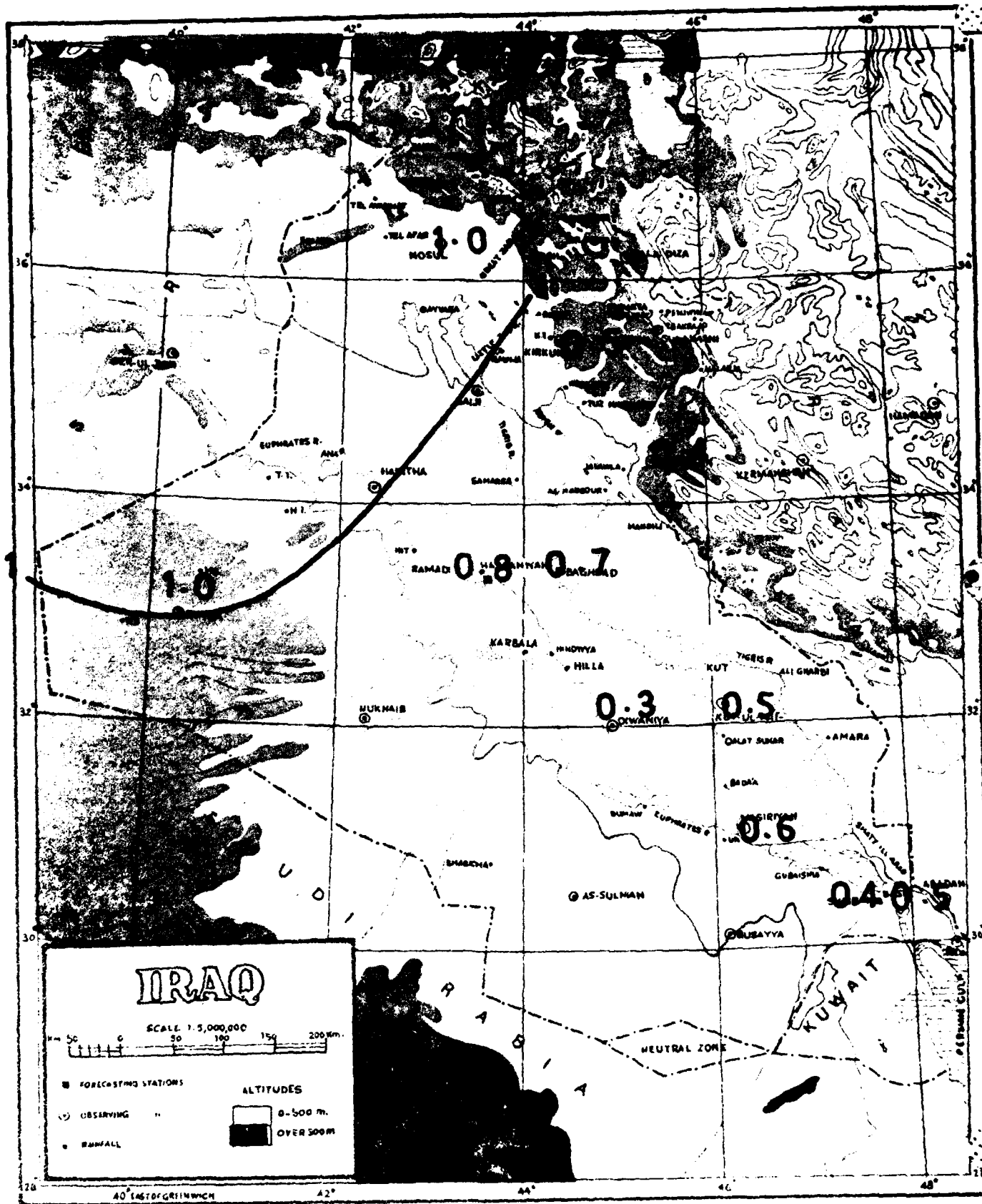


THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

173

OCTOBER

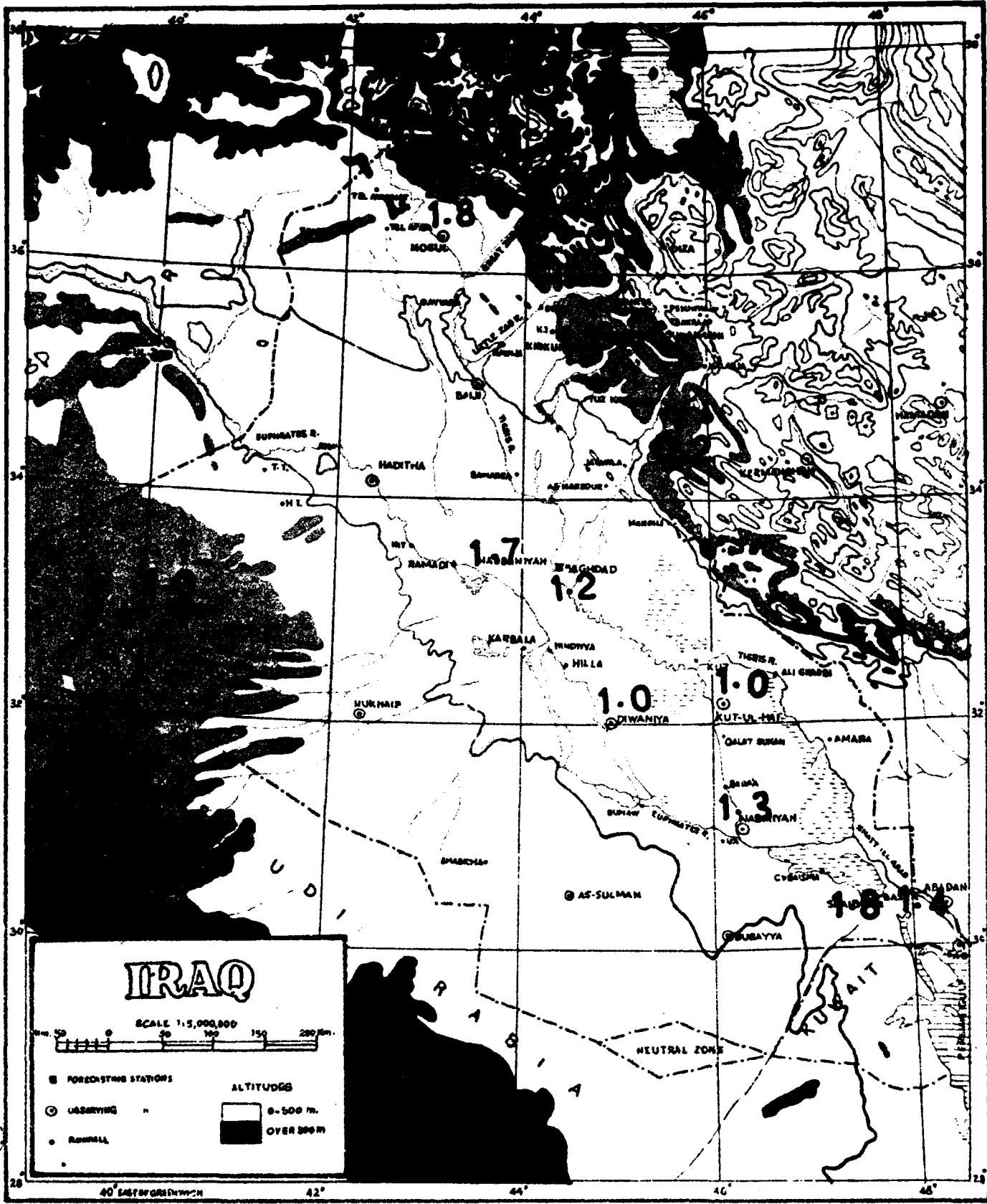


THUNDERSTORM

Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

174

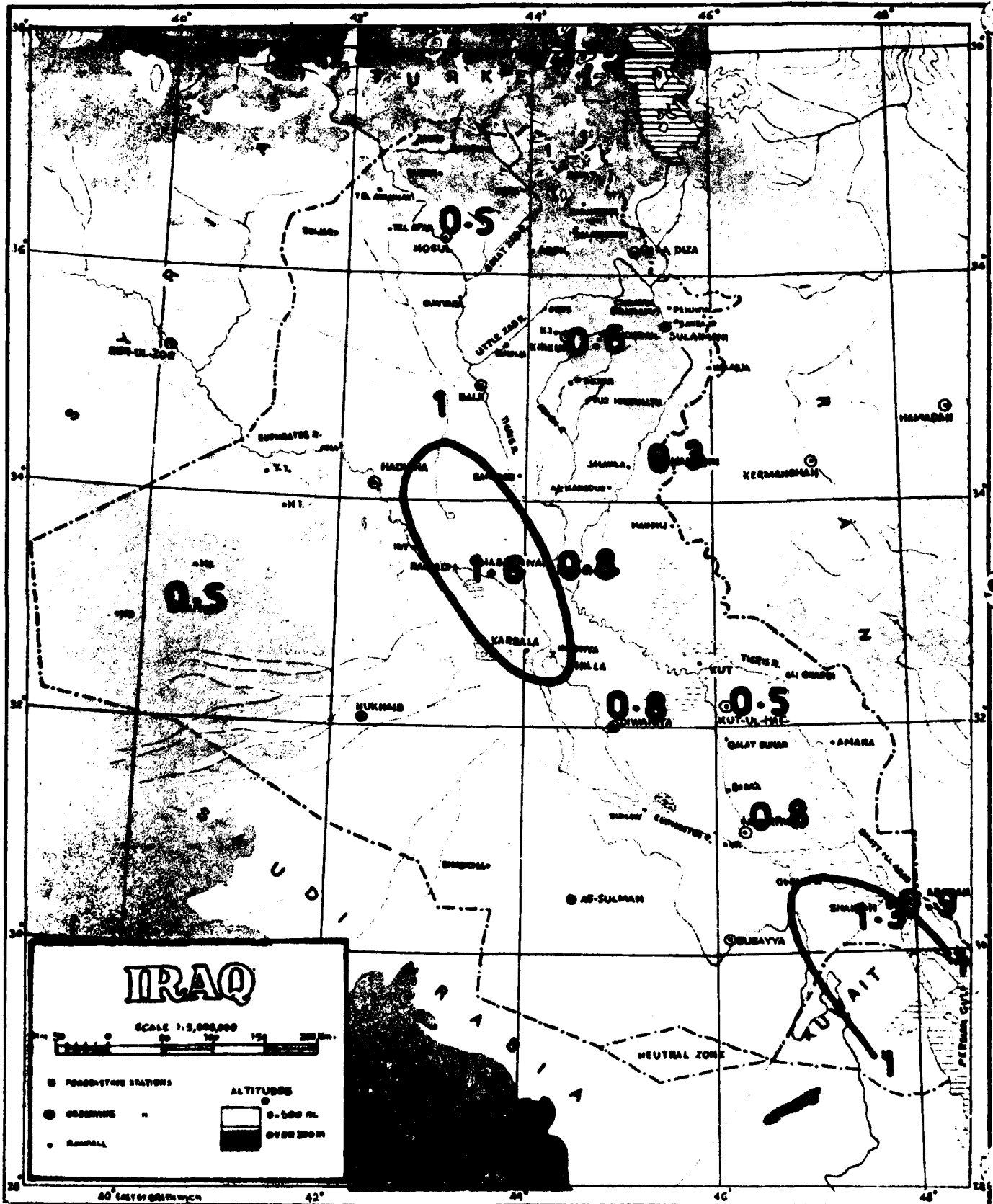
NOVEMBER



THUNDERSTORM
 Mean Monthly Number of Days with Thunderstorm
 period of records see page 2/3

175

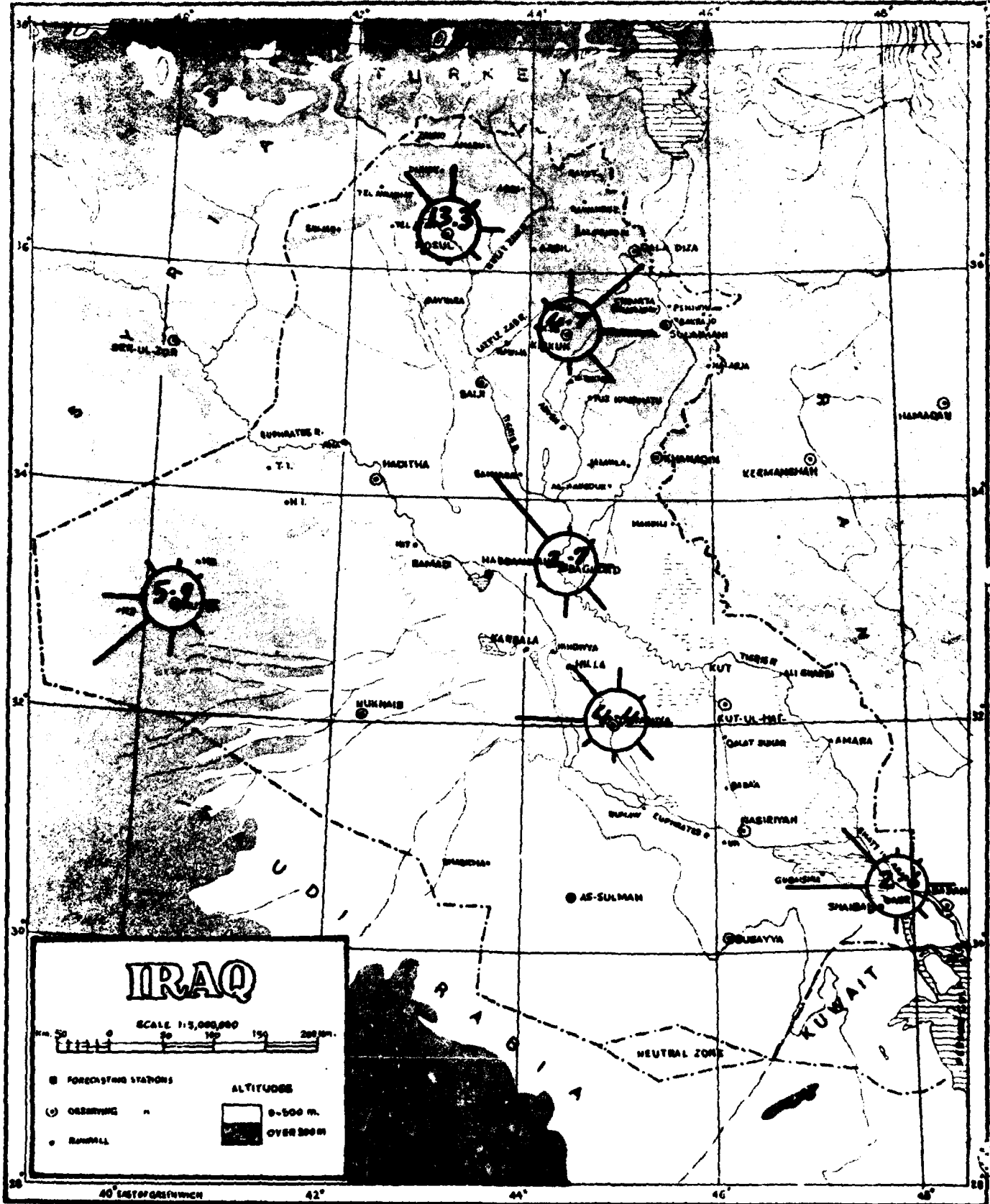
DECEMBER



Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

177

January 0600 GMT.

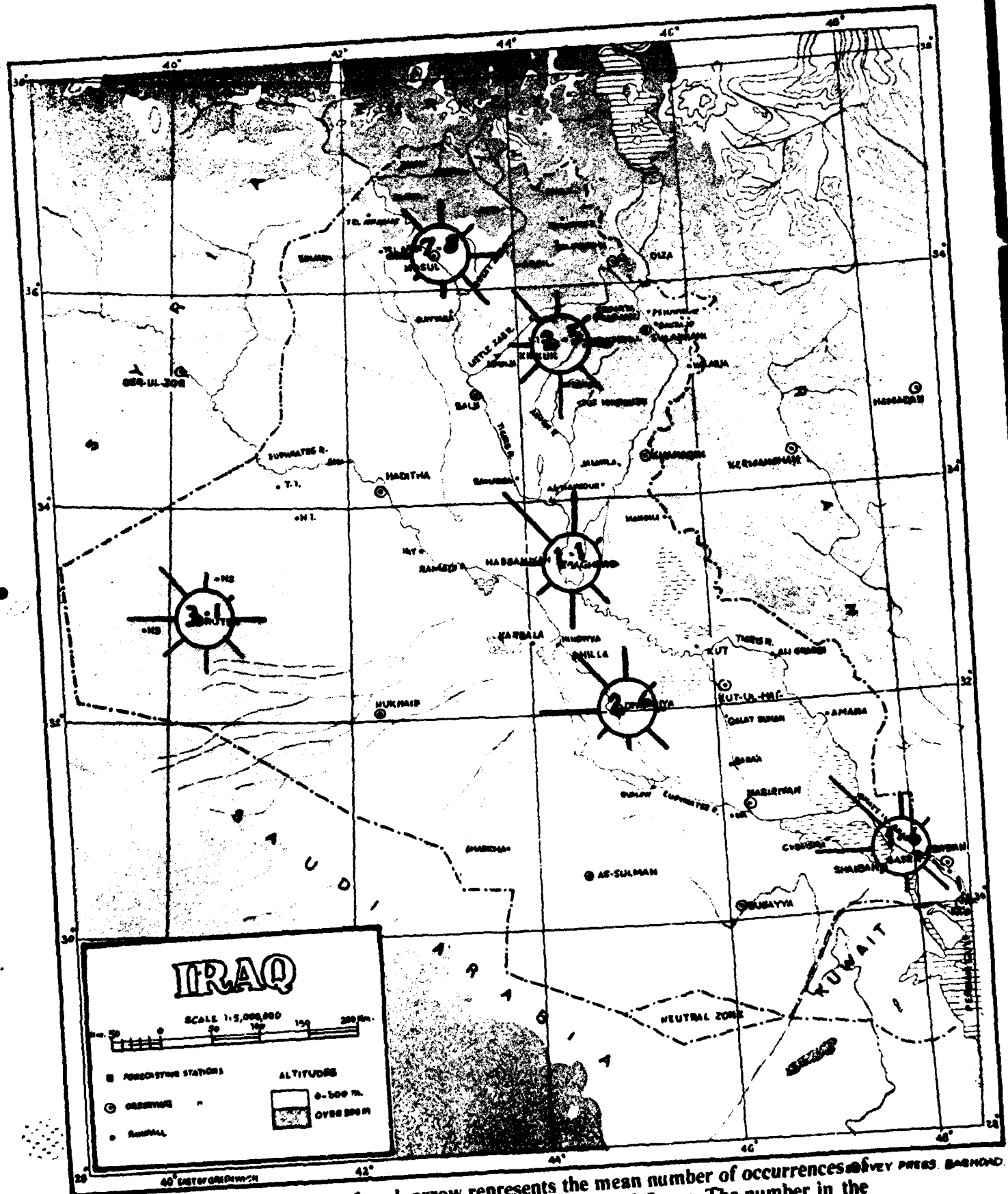


The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

WIND

Average frequency from Specified Directions
period of records see page 2/3

JANUARY 1200 GMT.

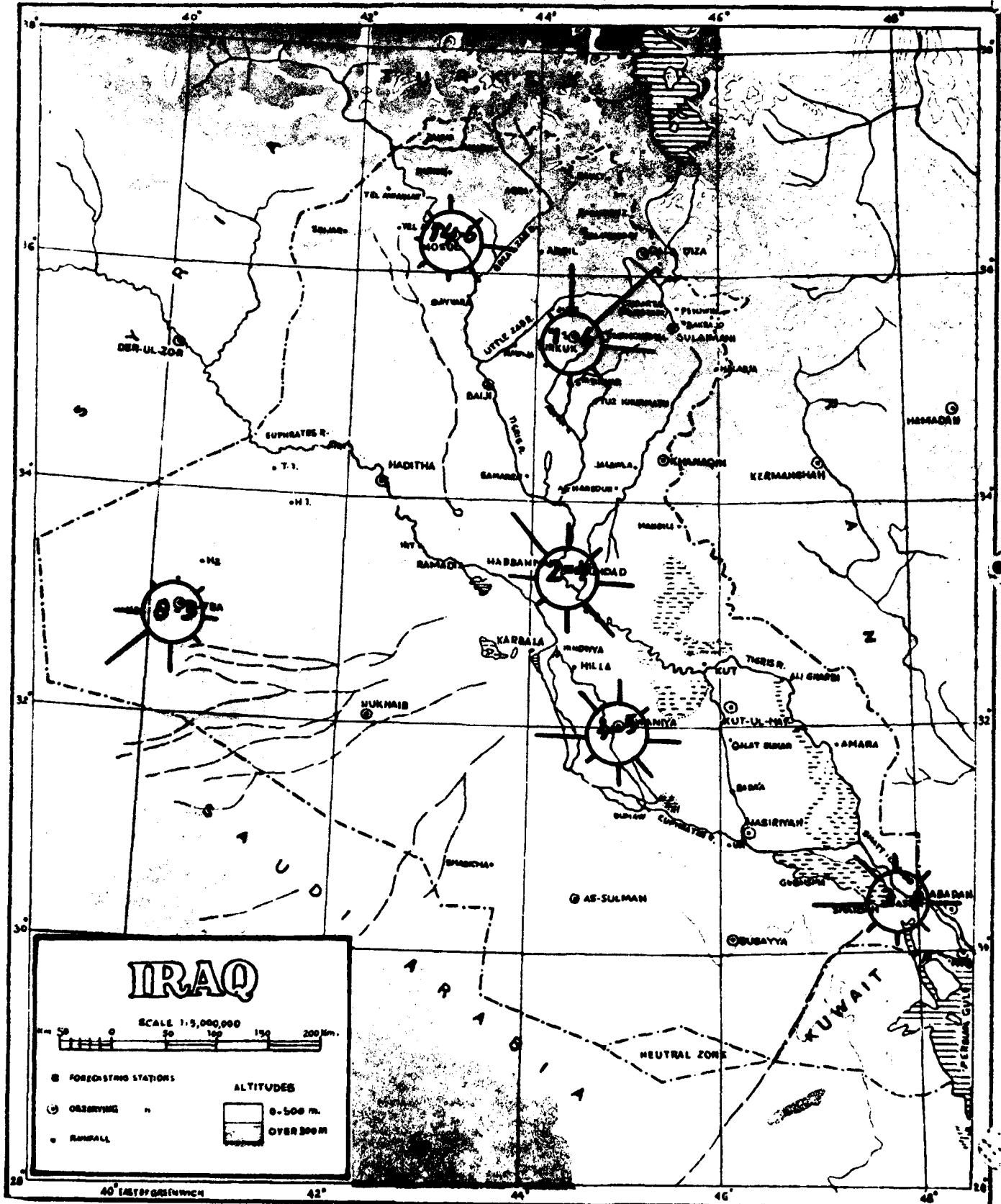


The length of each arrow represents the mean number of occurrences of wind from that particular direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

179

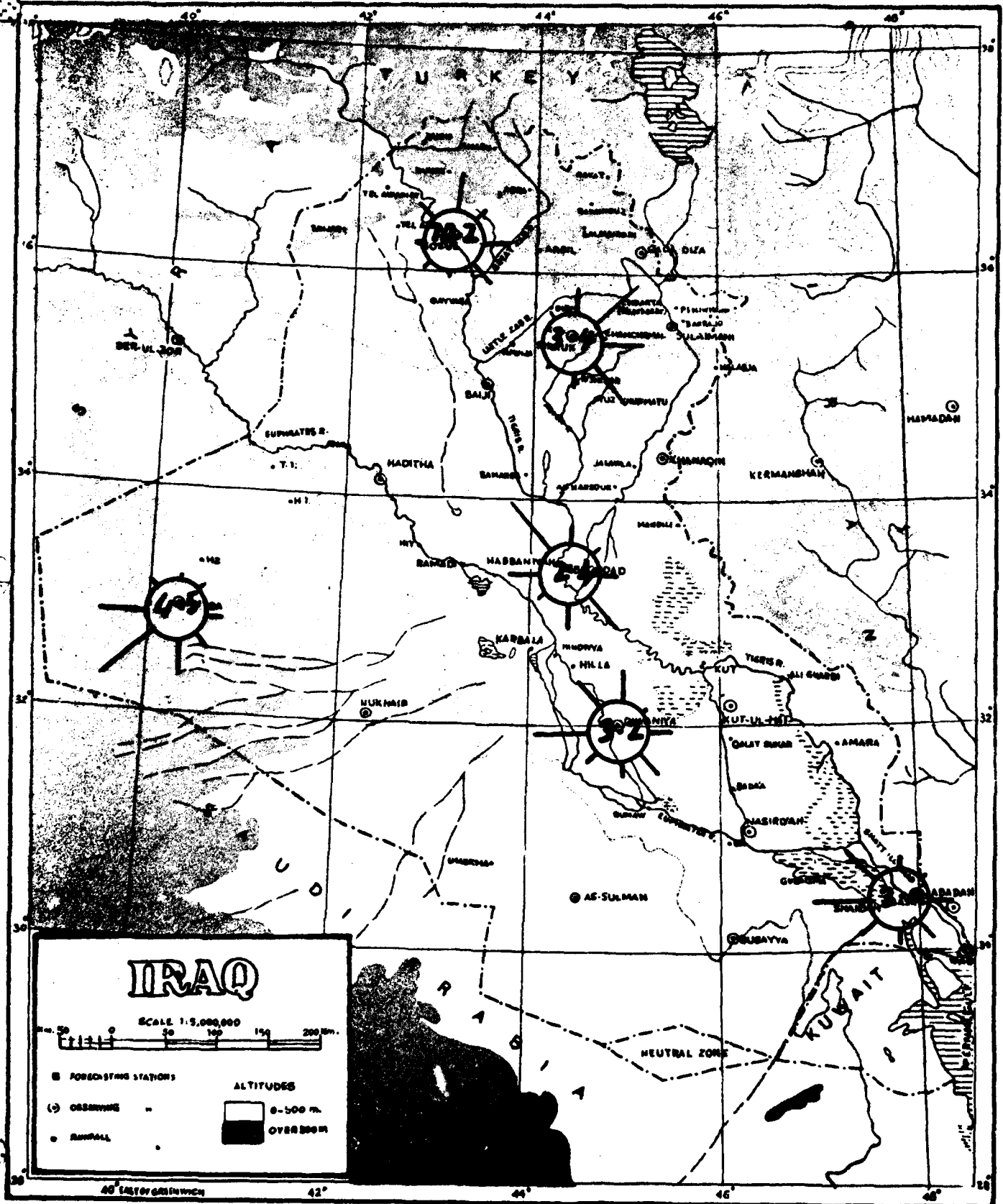
February 0300 GMT.



Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

180

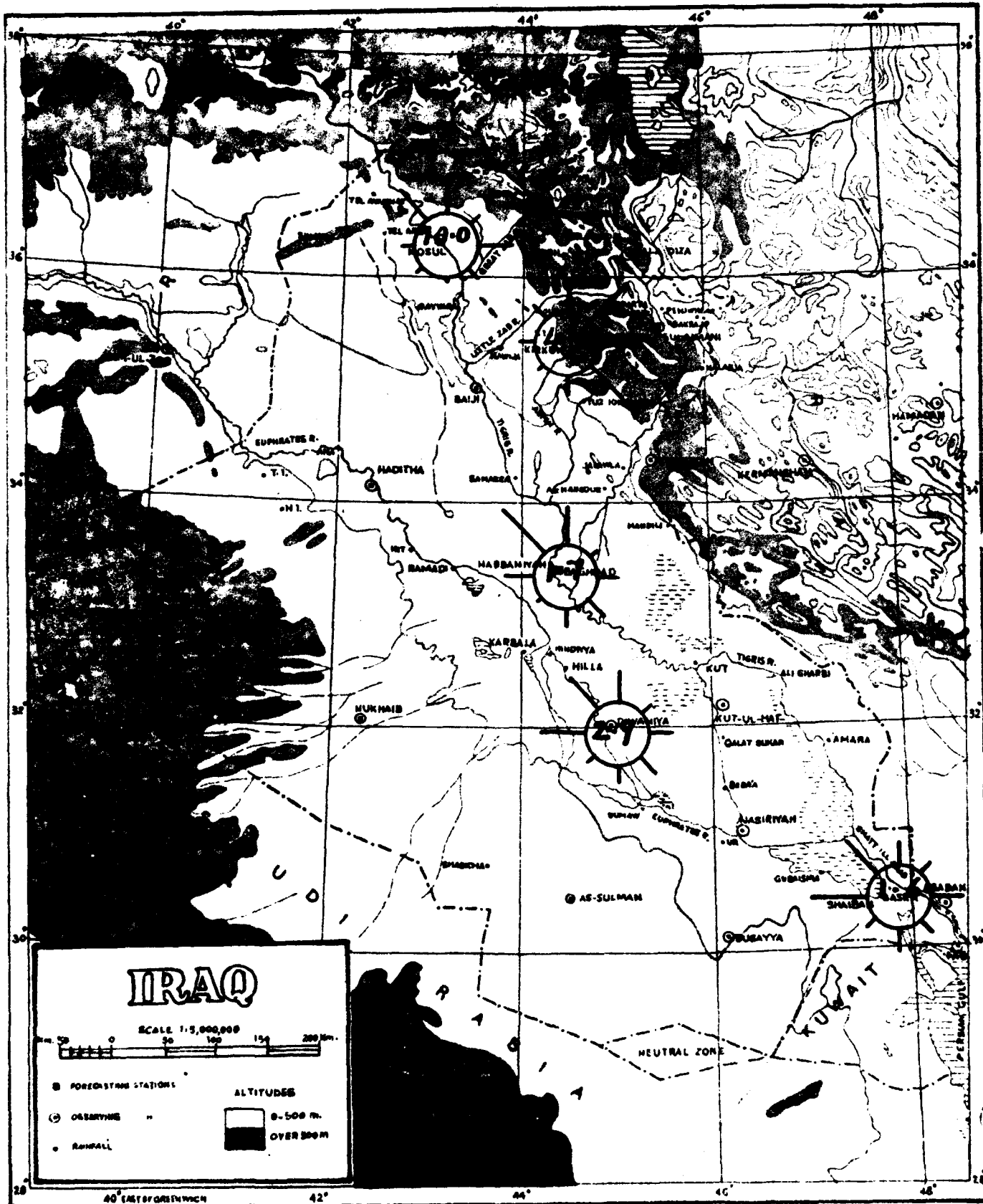
FEBRUARY 0600 GMT.



The length of each arrow represents the mean Number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows without wind.

WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

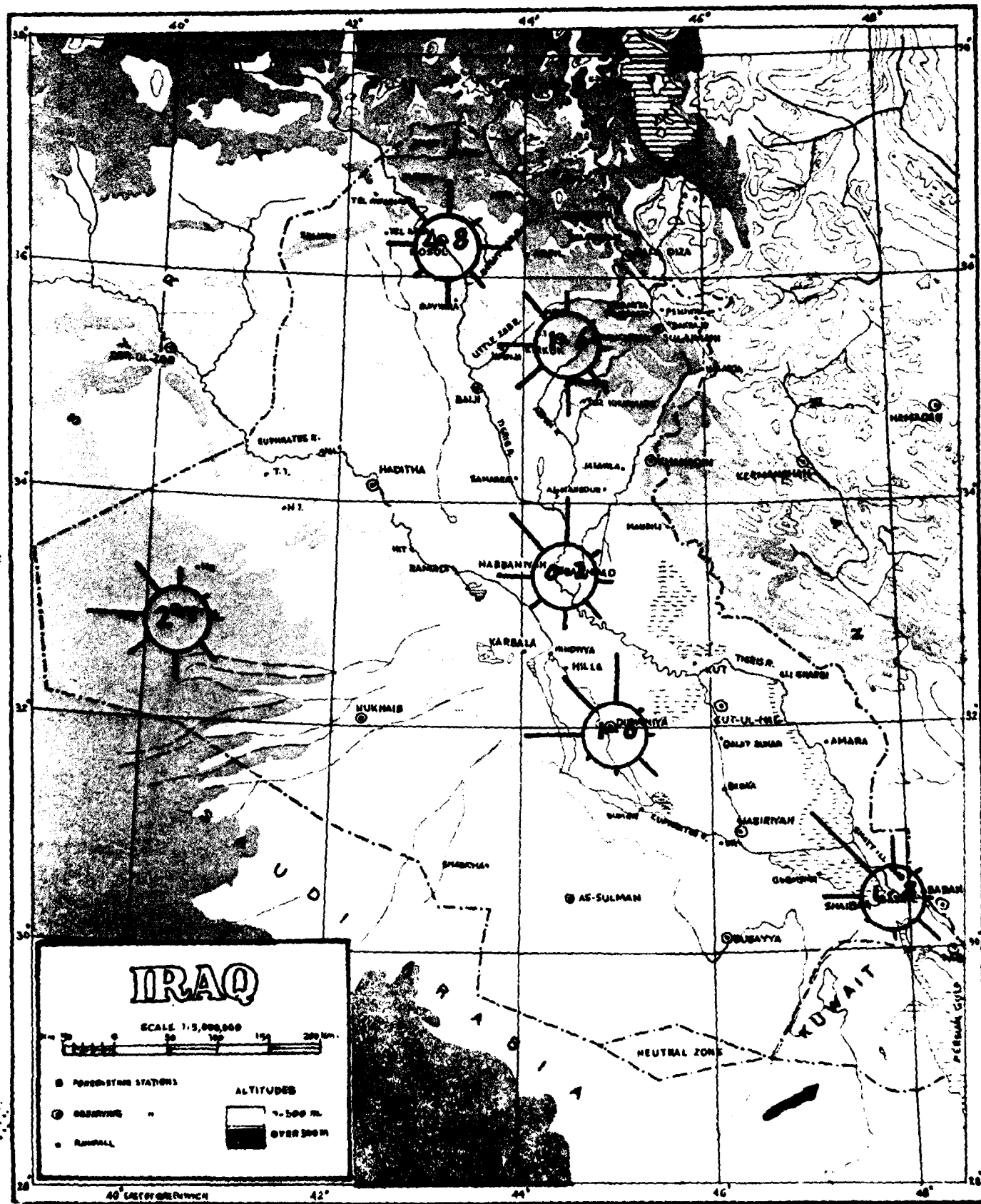
MARCH 0600 GMT.



WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

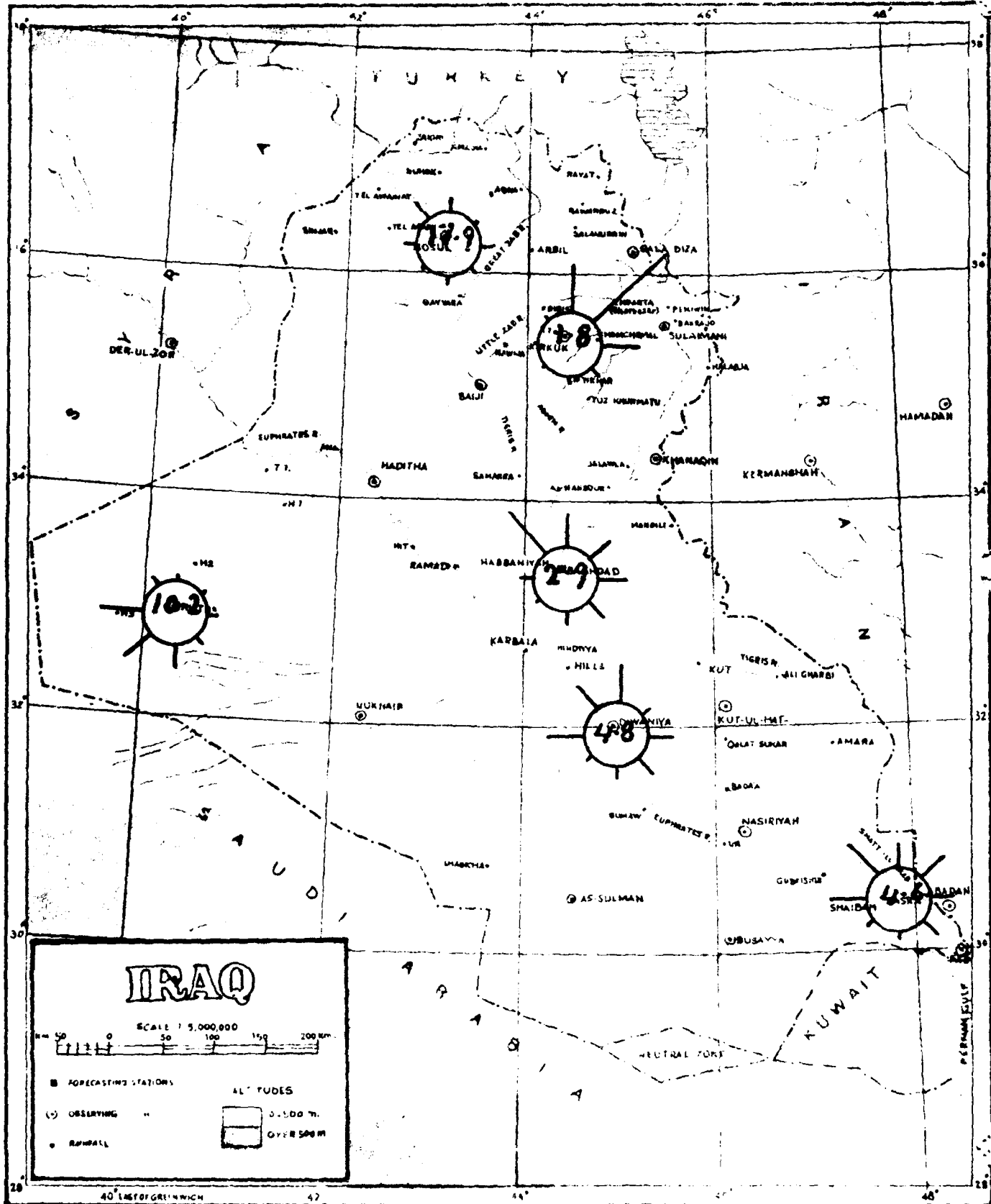
184

MARCH 1200 GMT.

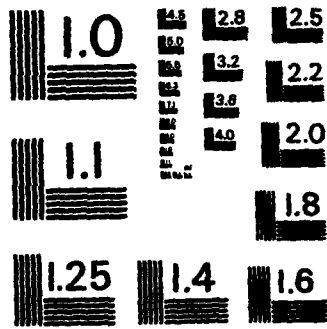


WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

APRIL 0300 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

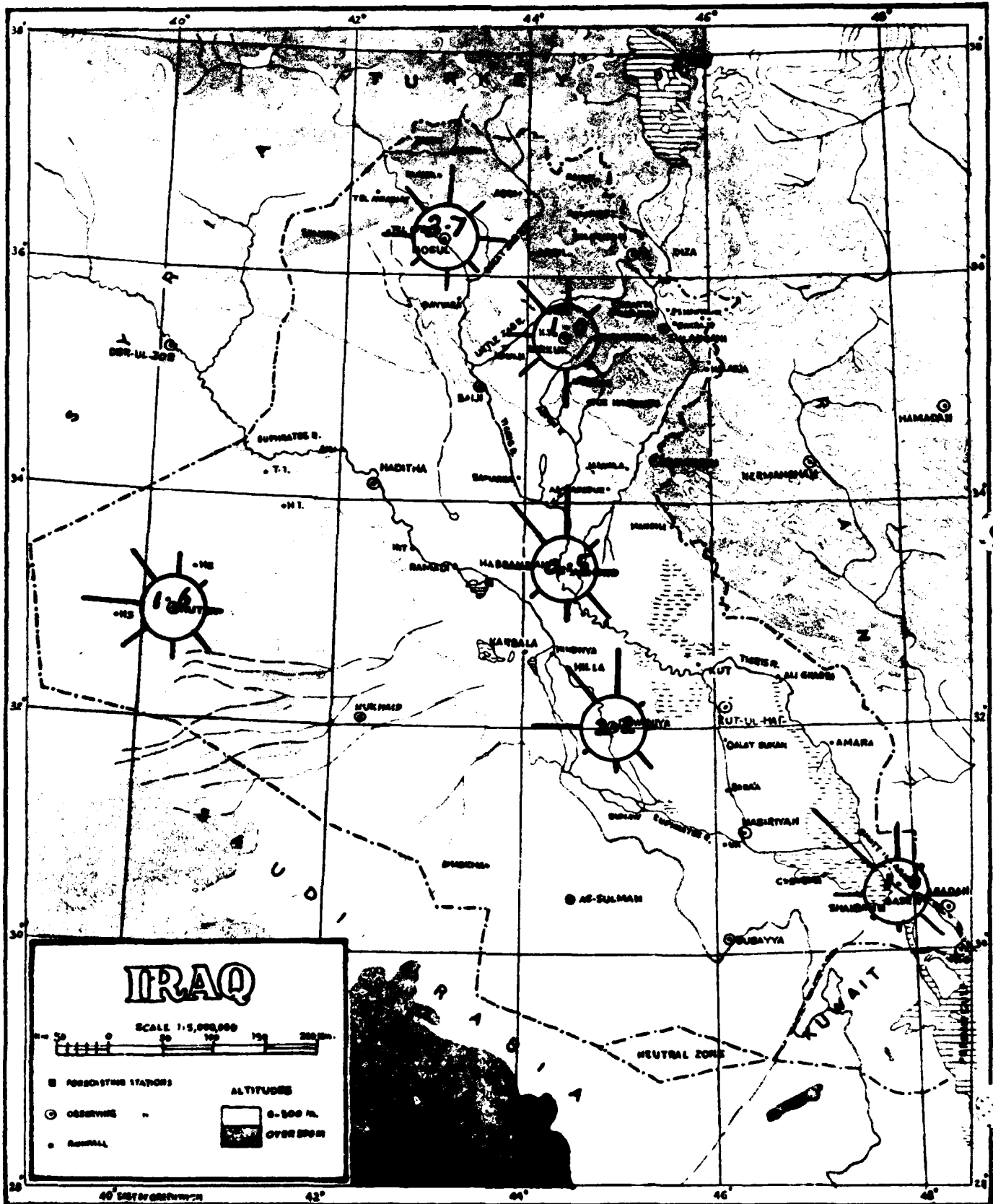


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

187

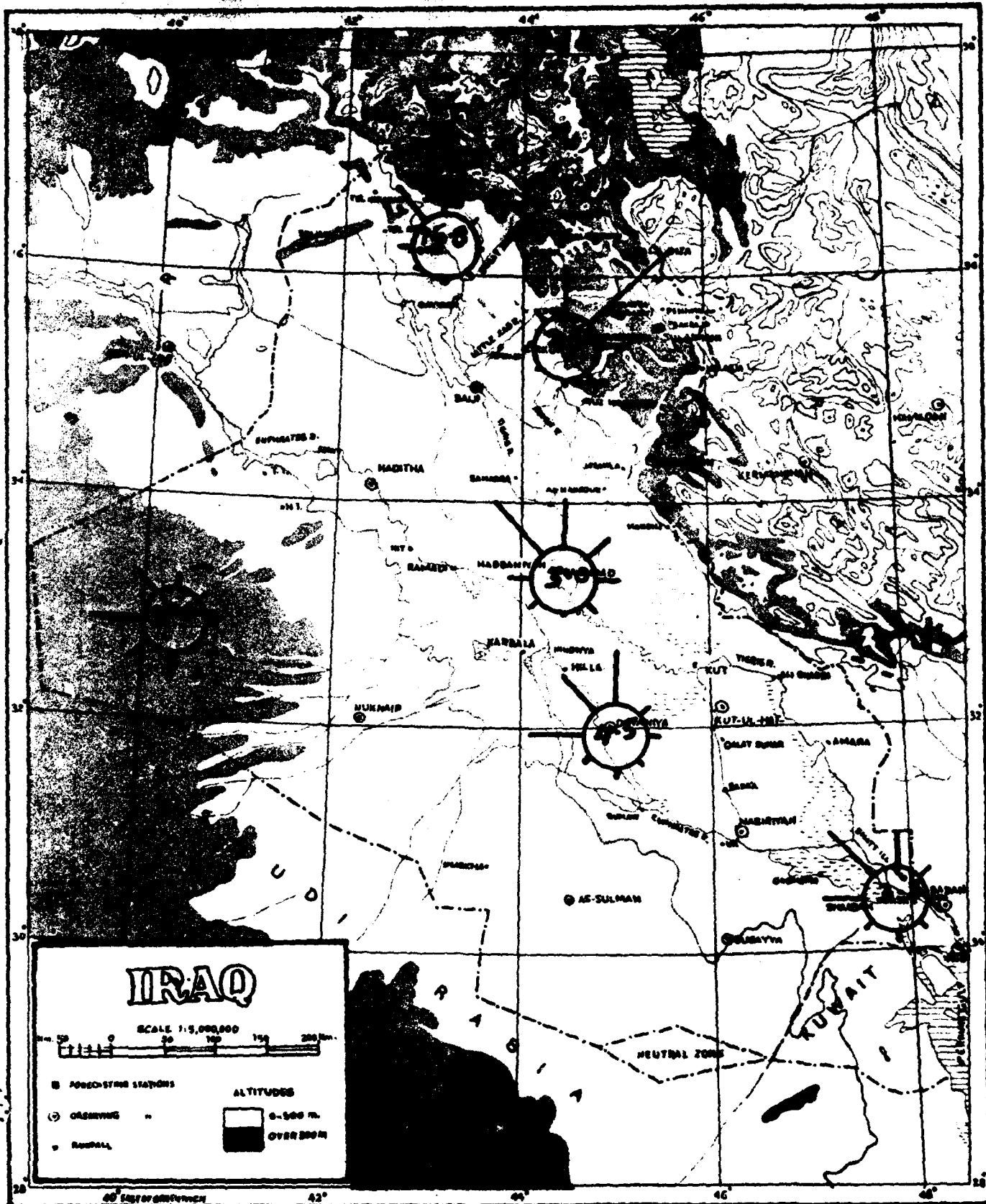
APRIL 1200 GMT



WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

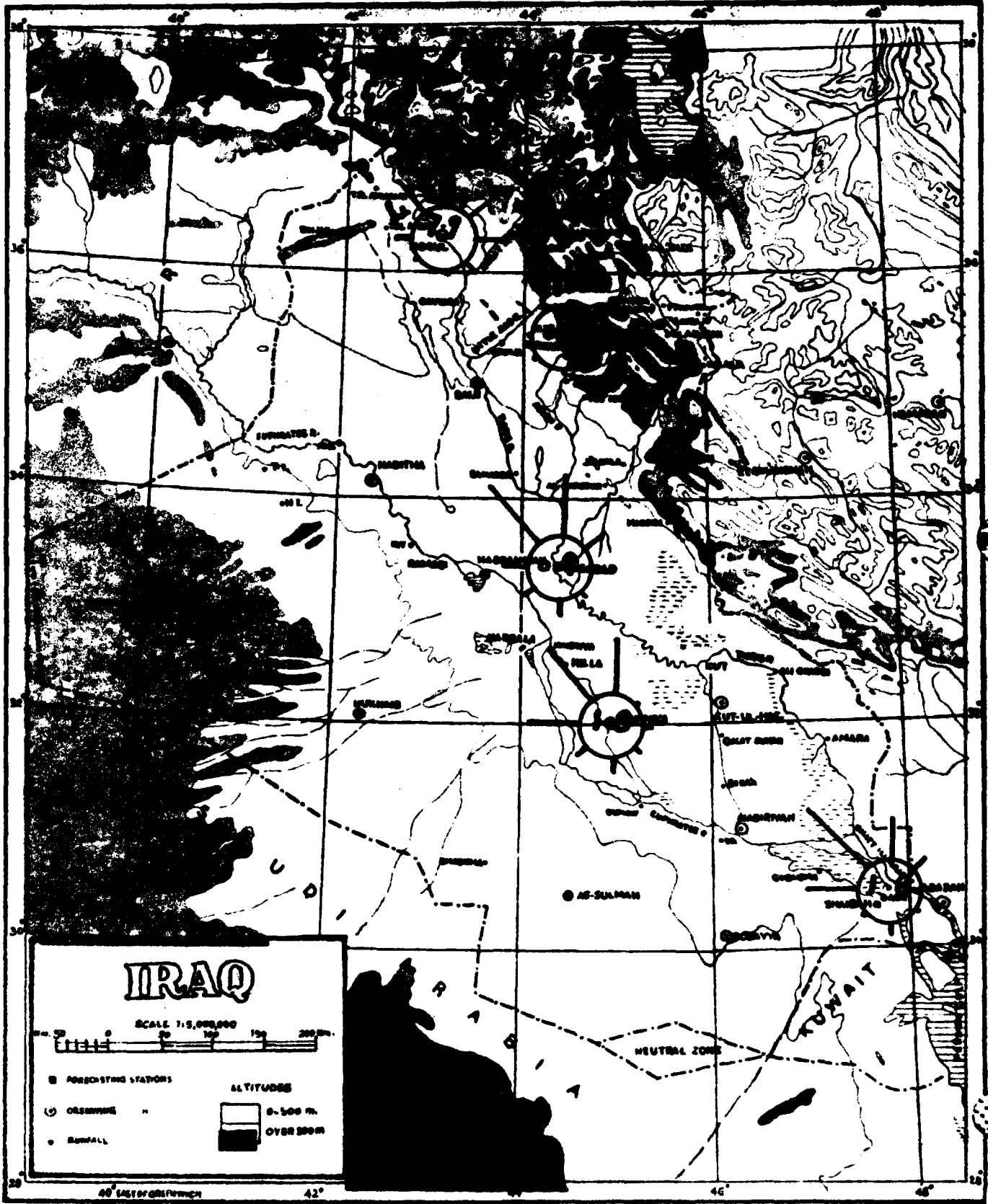
188

MAY 0300 GMT.



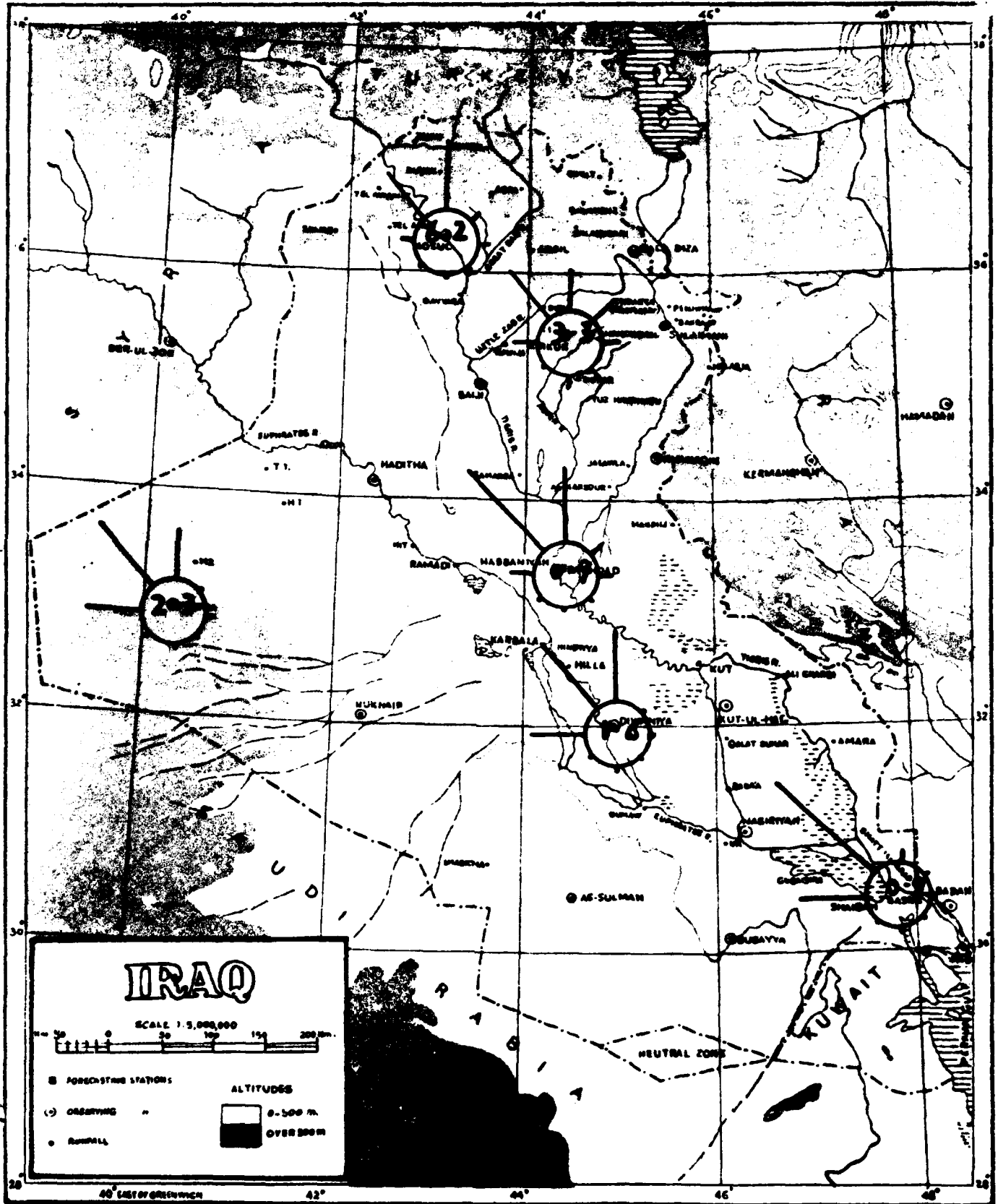
WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

MAY 0600 GMT.



WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2 3

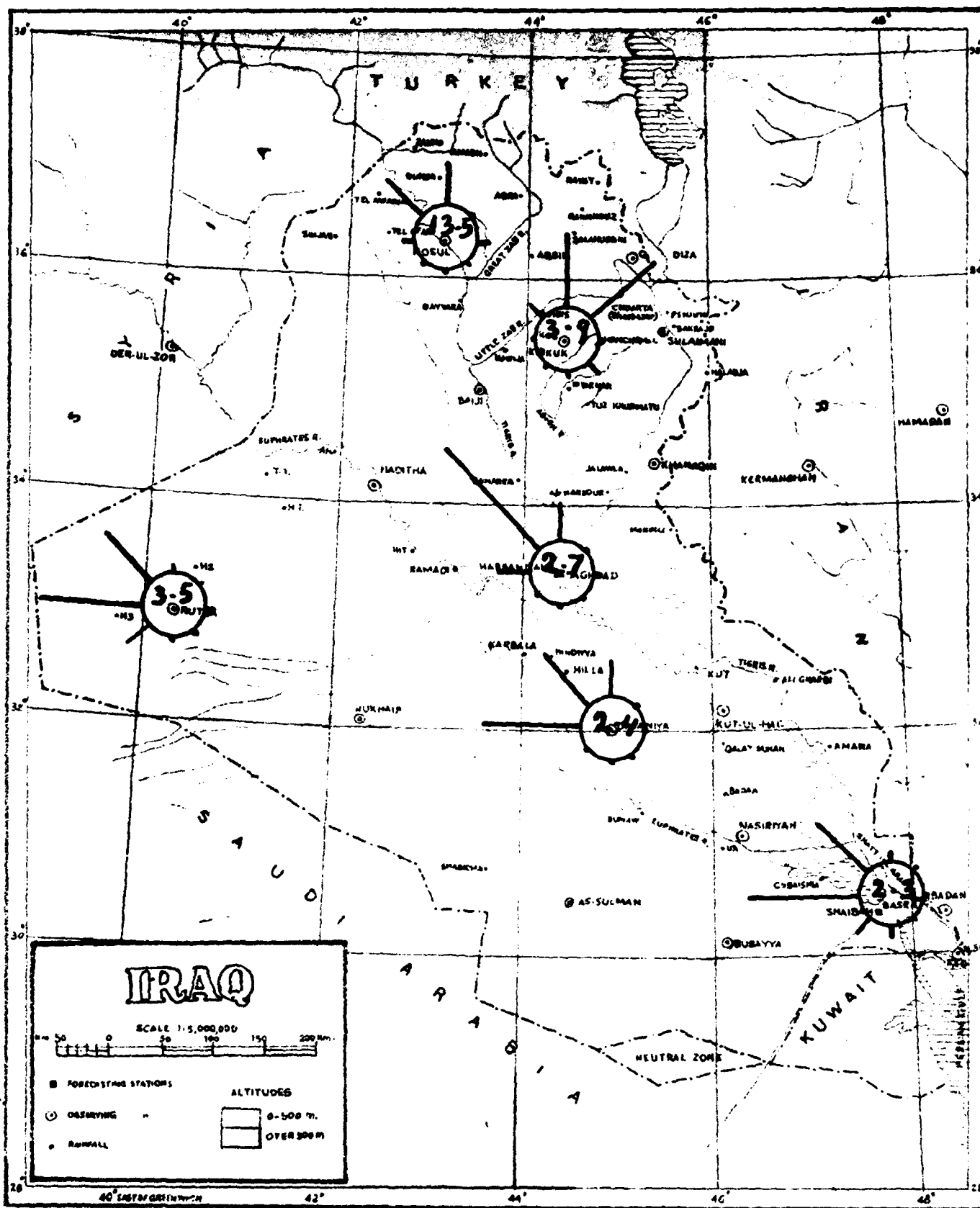
JUNE 0600 GMT.



WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

194

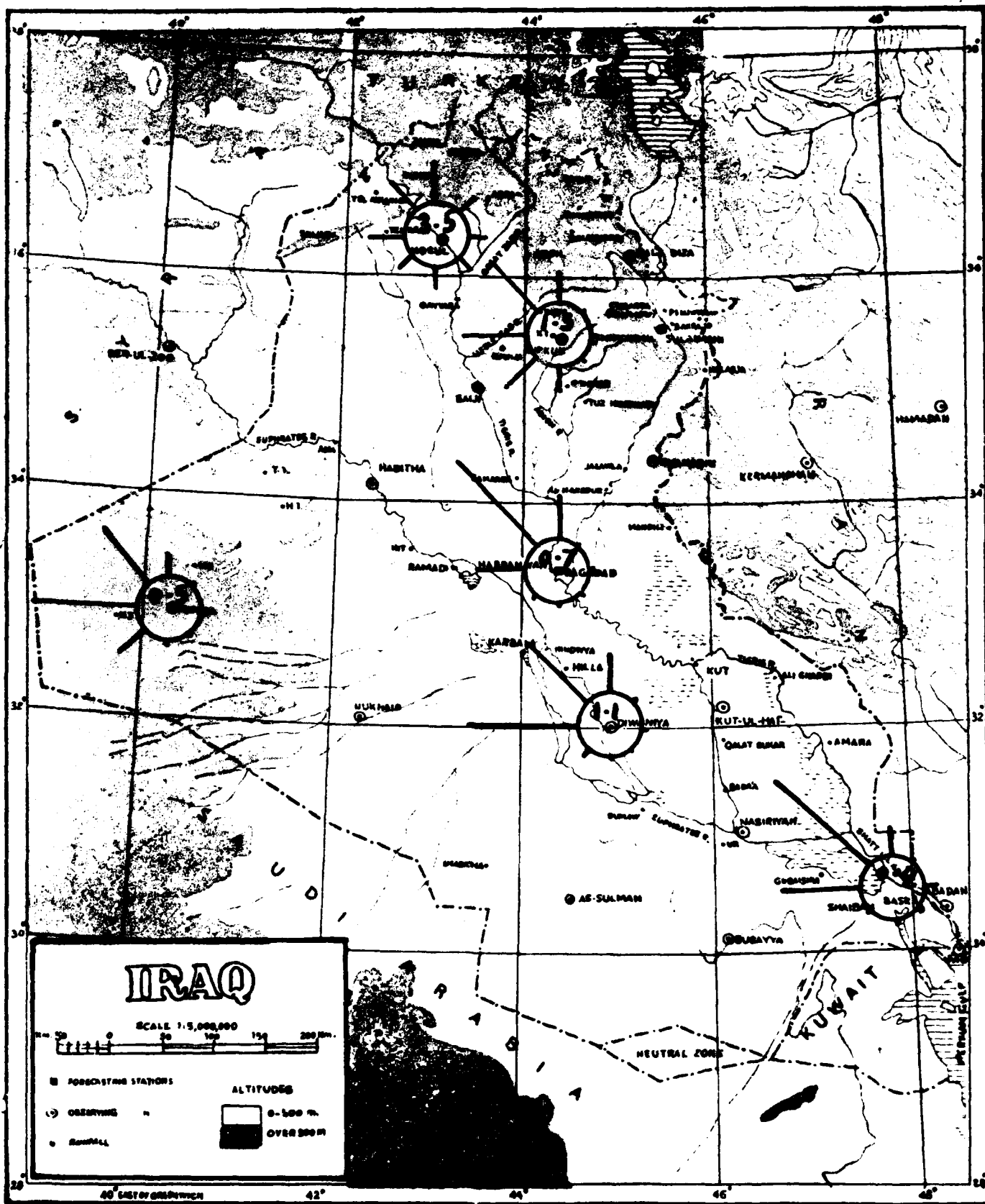
JULY 0300 GMT.



WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

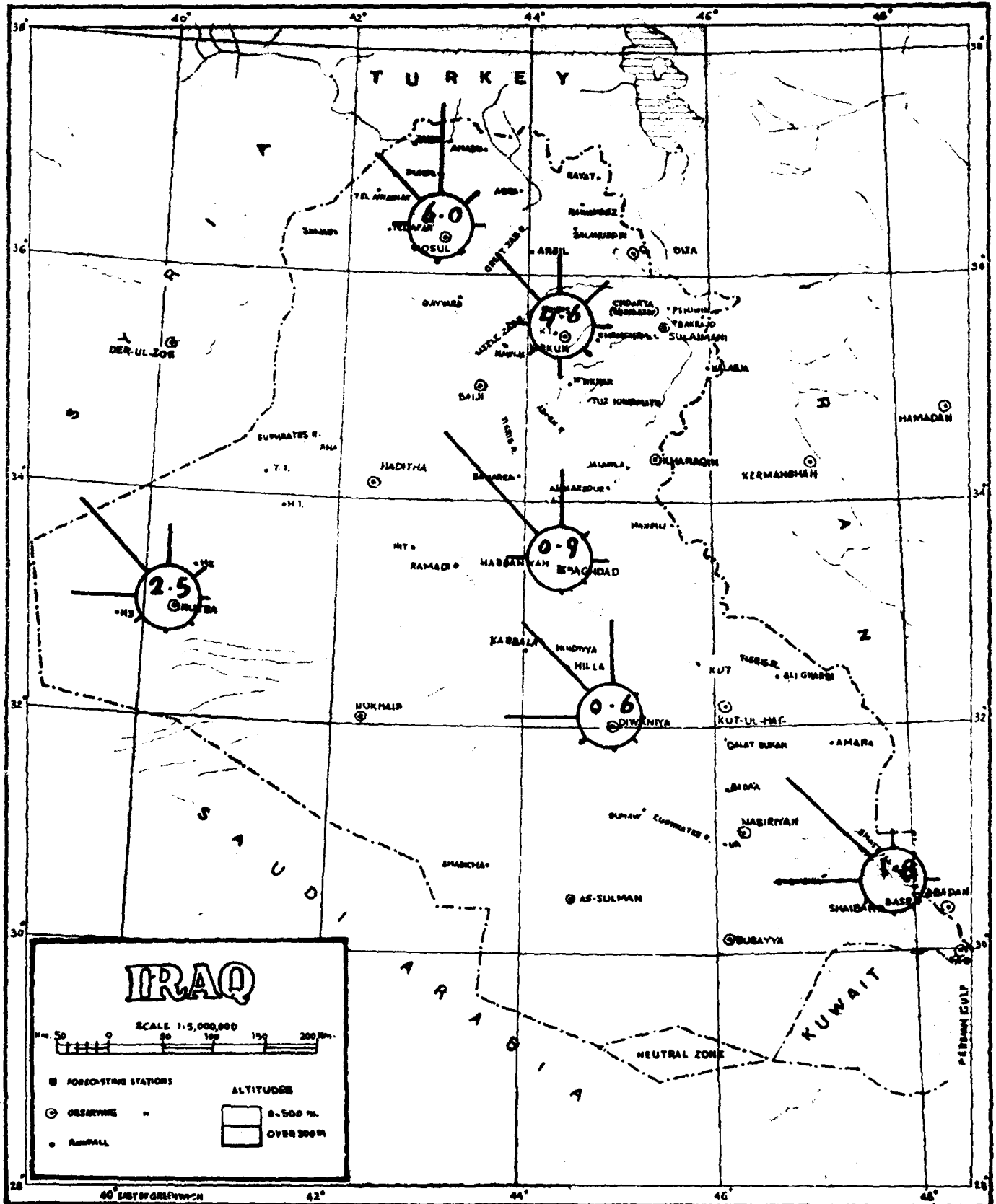
196

JULY 1200 GMT.



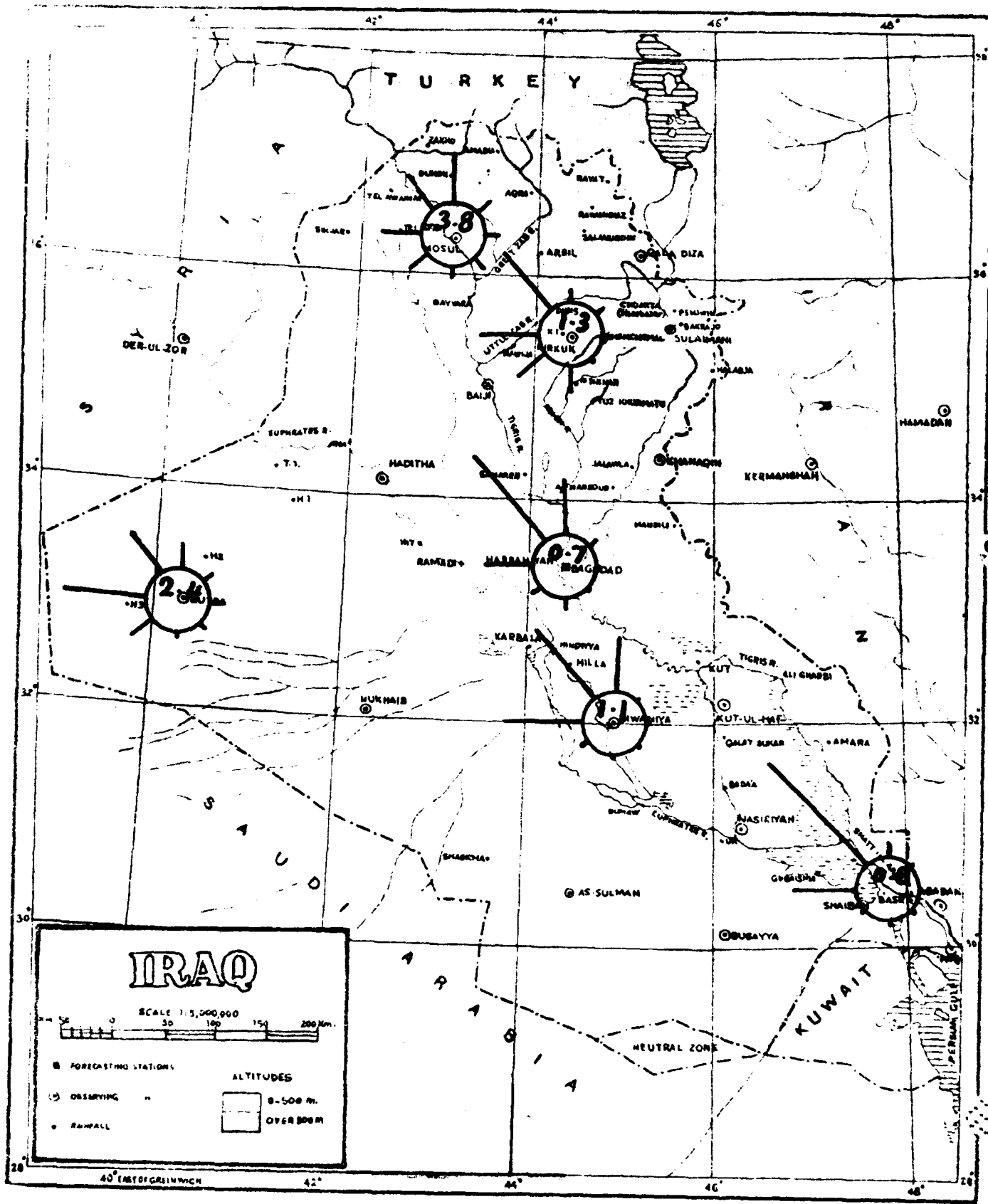
WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

AUGUST 0600 GMT



WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

AUGUST 1200 GMT

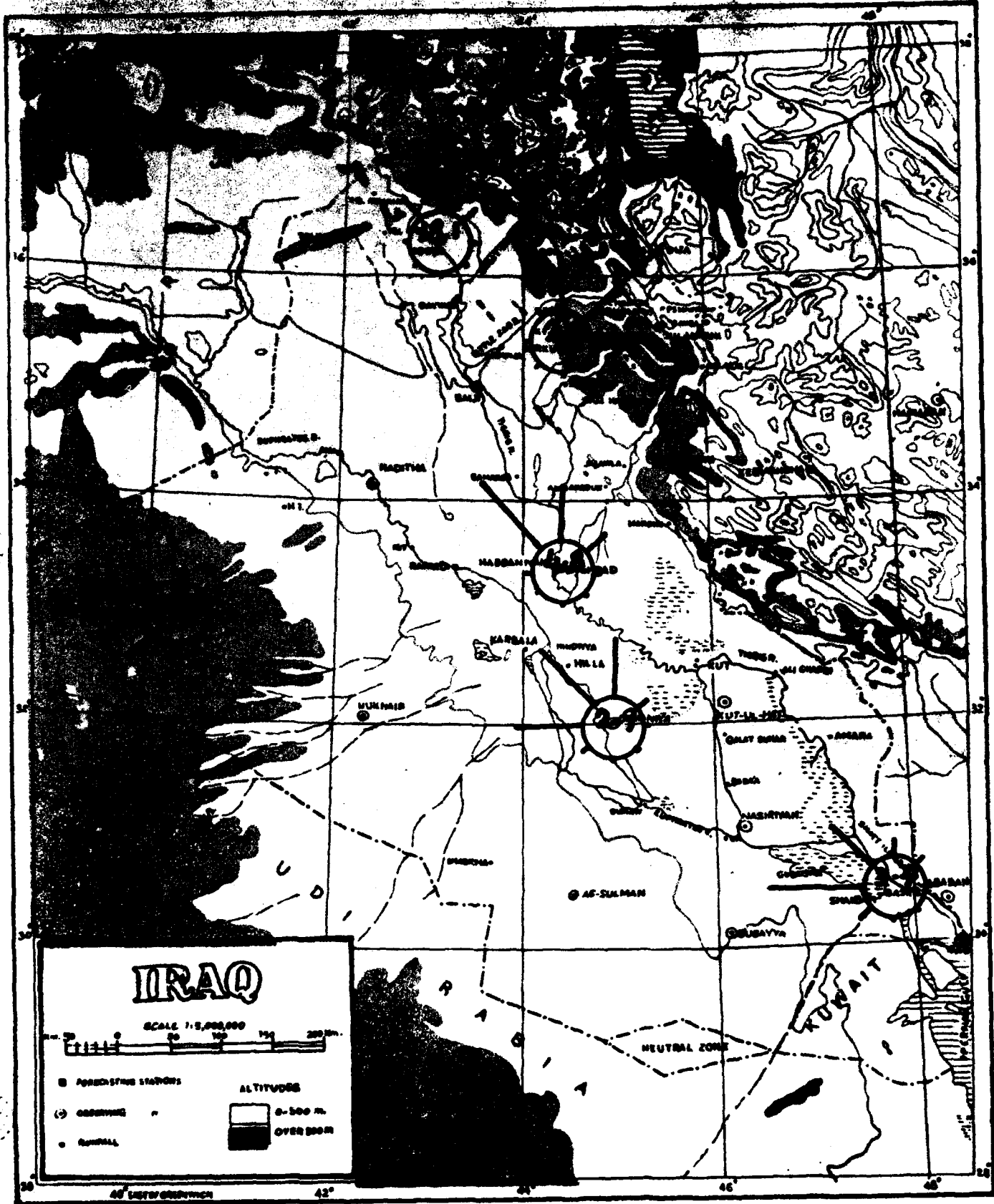


WIND

200

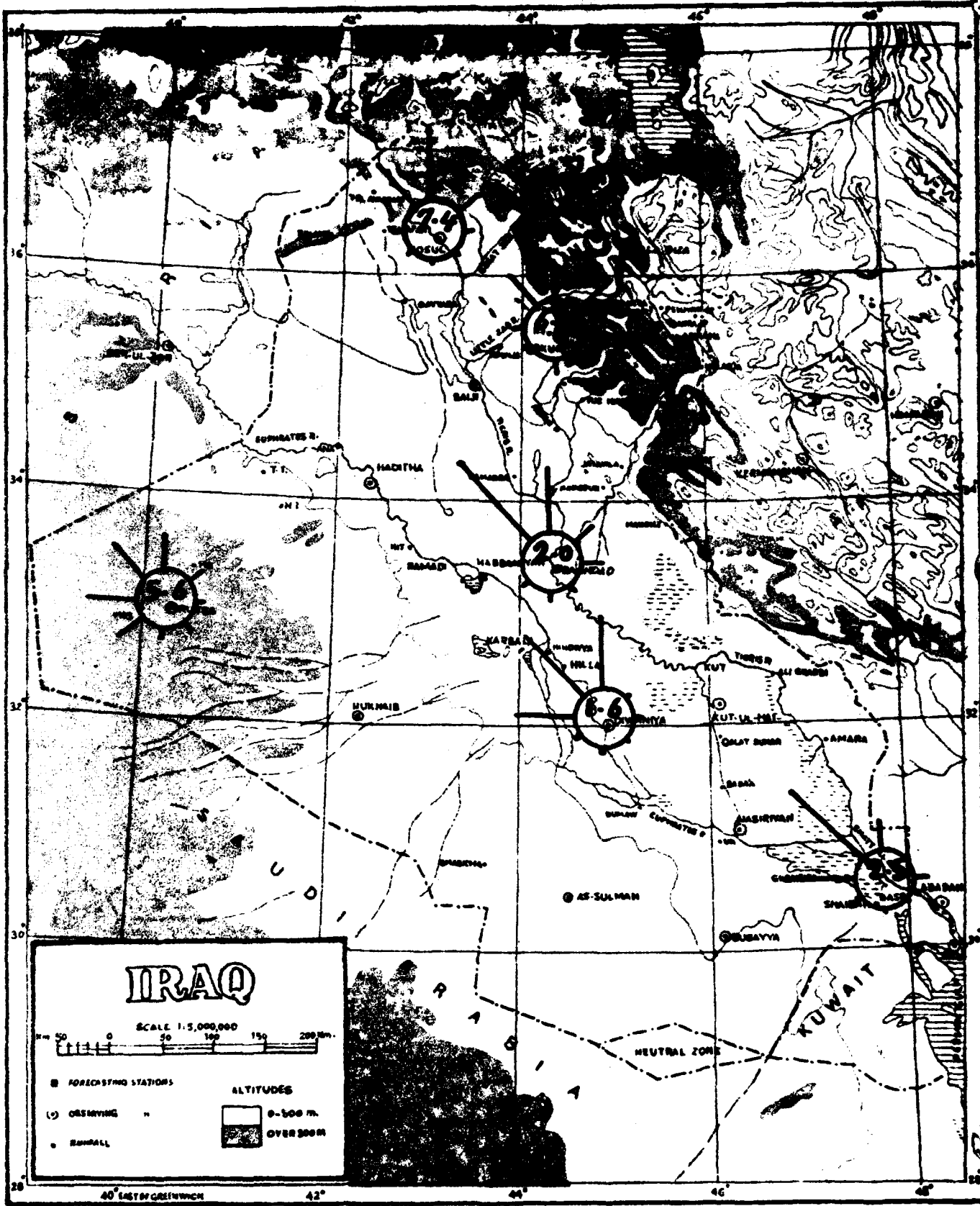
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

SEPTEMBER 0300 GMT



Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

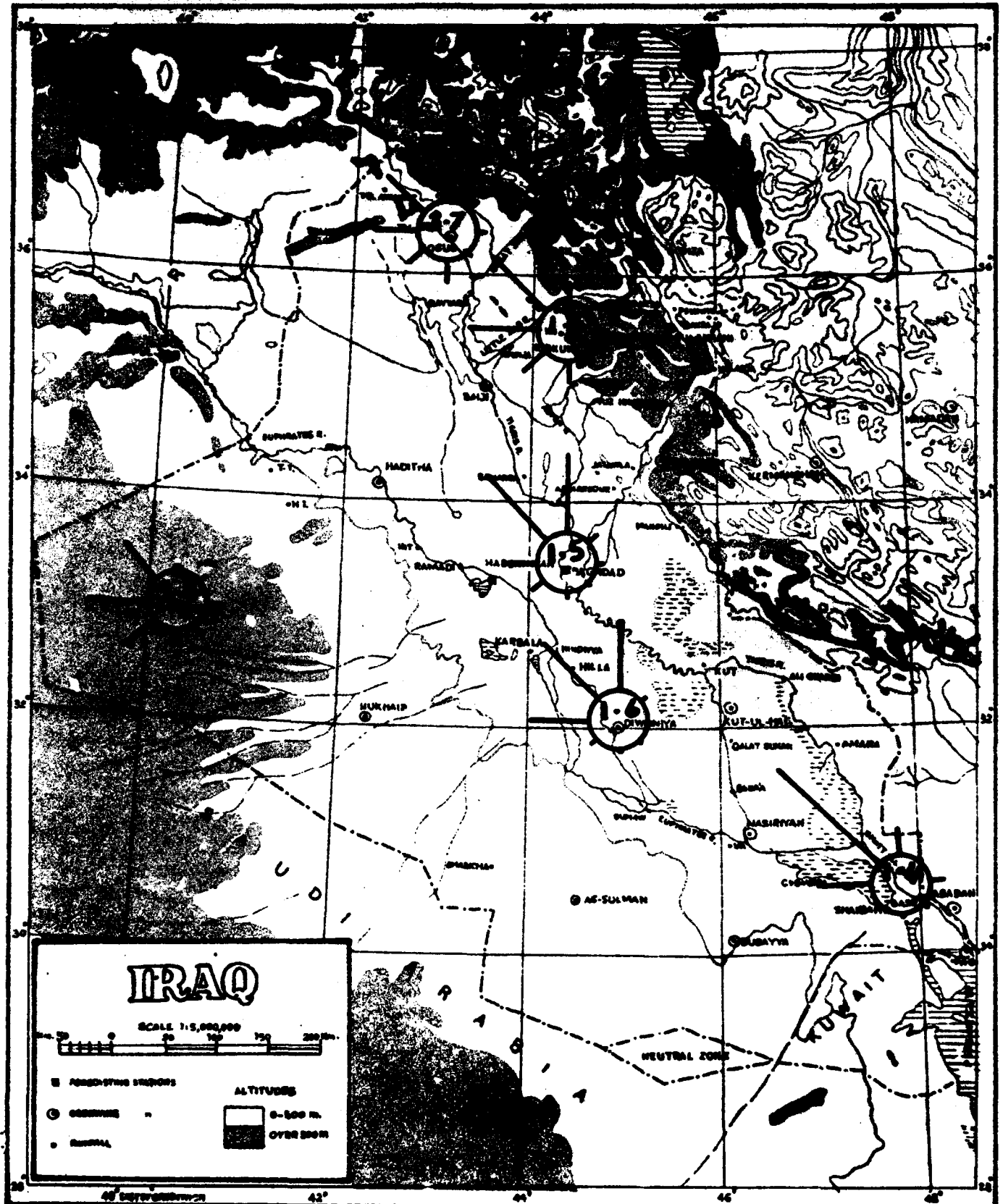
SEPTEMBER 0600 GMT.



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the cases without wind.

No. 1 N 19
Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

SEPTEMBER 1200 GMT

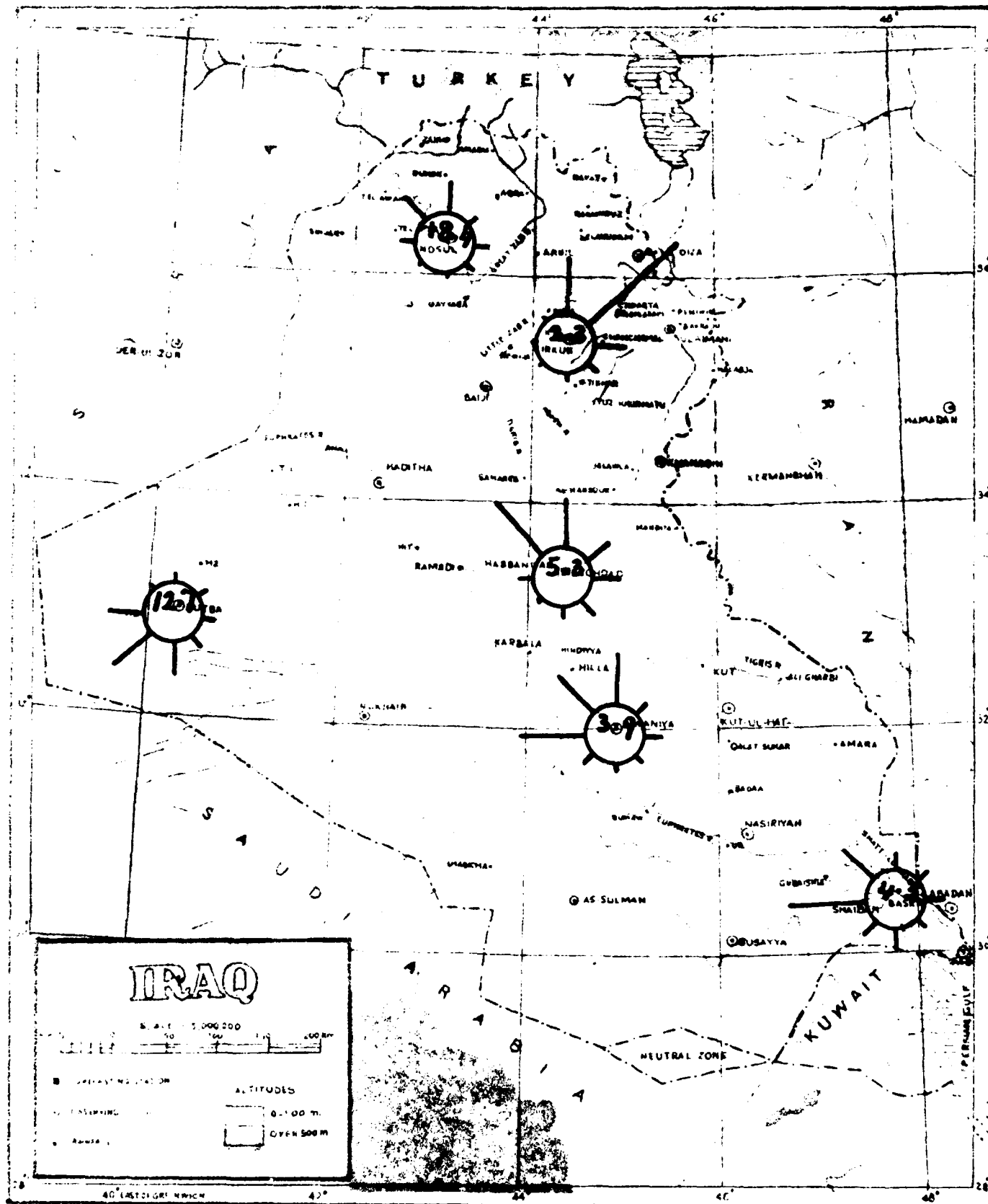


SURVEY PRESS, BAGHDAD.

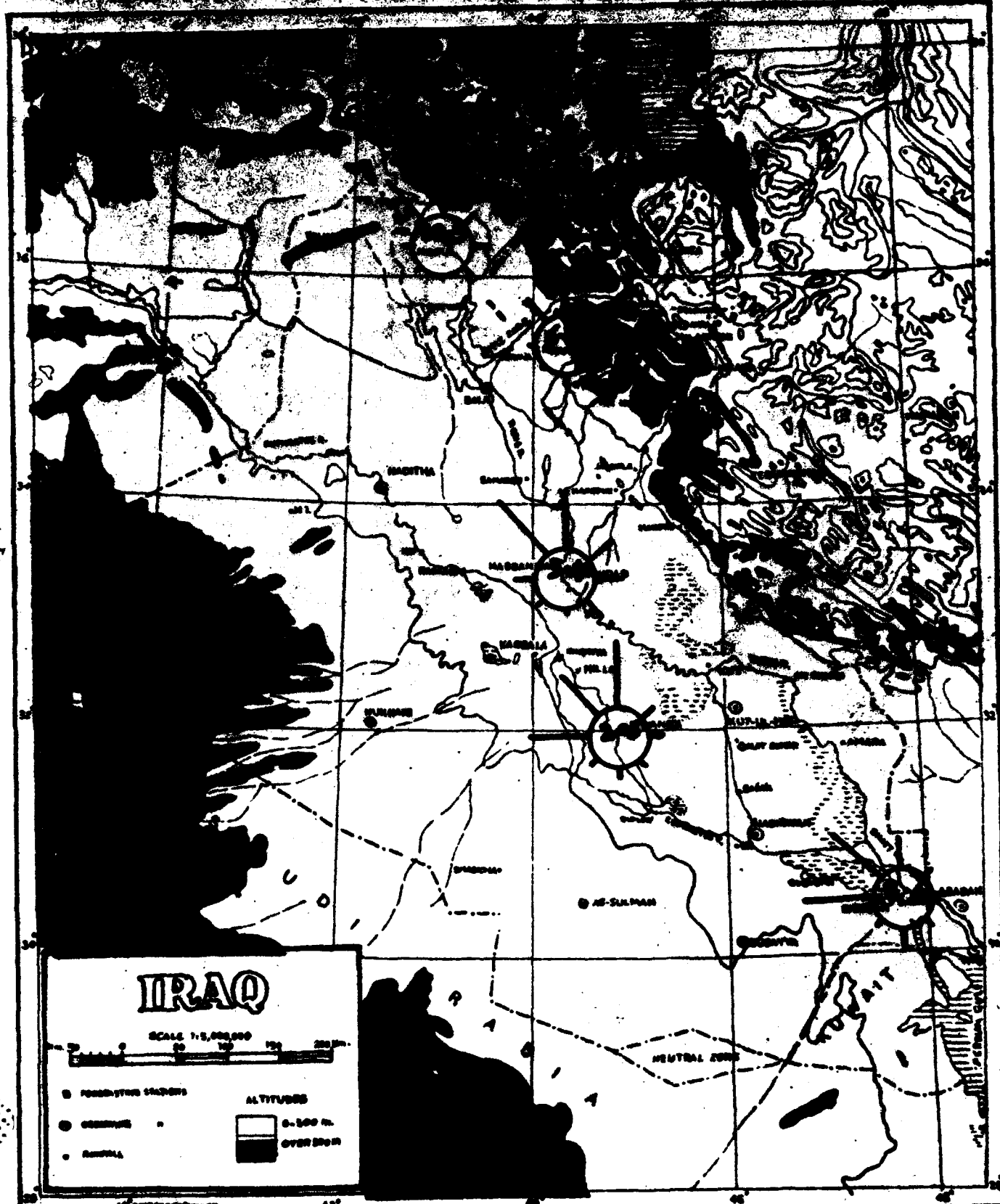
The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the centre shows the case without wind.

WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

OCTOBER 0300 GMT



OCTOBER 1950 G.M.T.



IRAQ

SCALE 1:5,000,000

0 100 200

● FORTIFICATION STATIONS

● OBSERVATION

● BARRIAGE

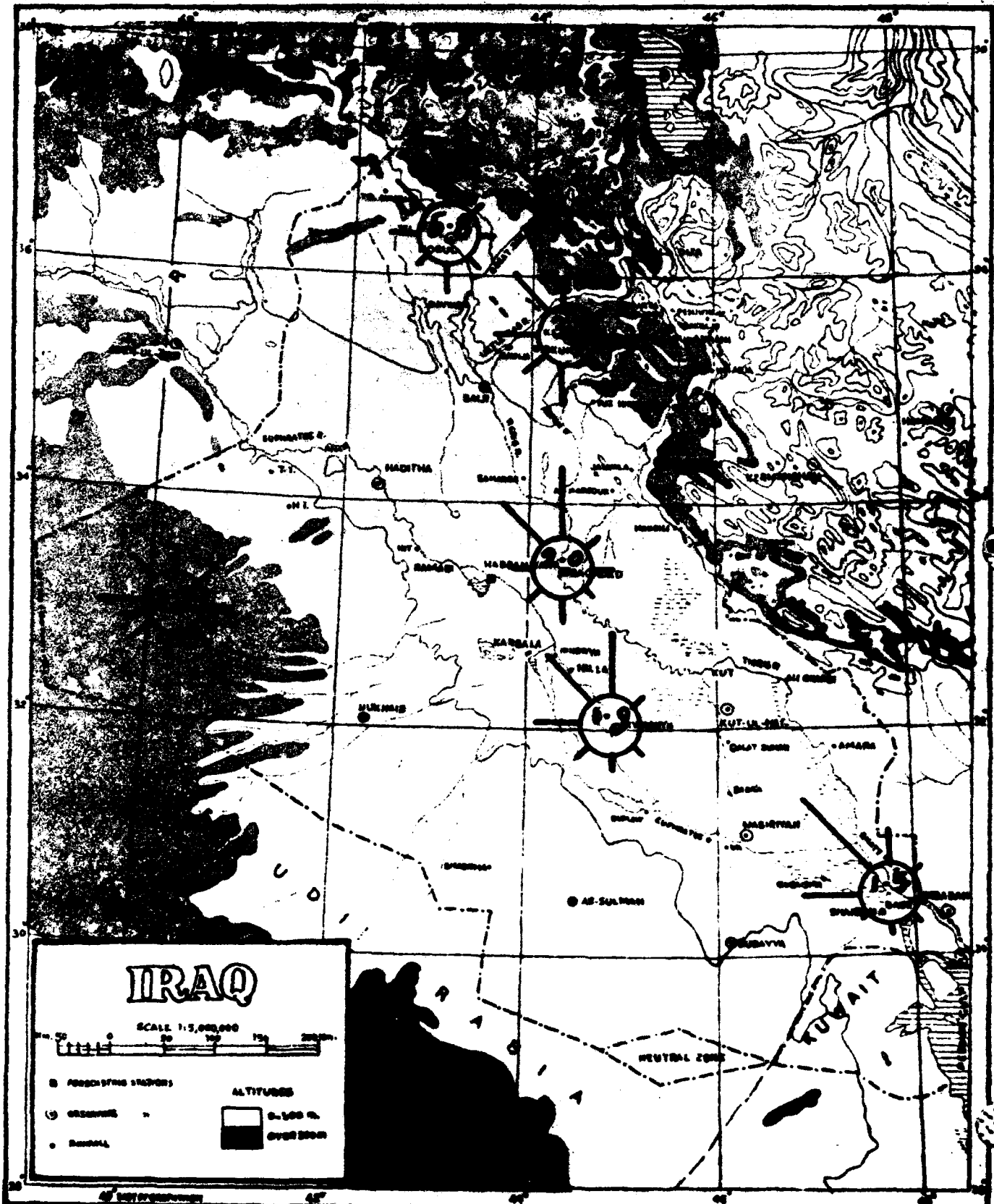
ALTIMETRES

0-500 ft.

OVER 500ft

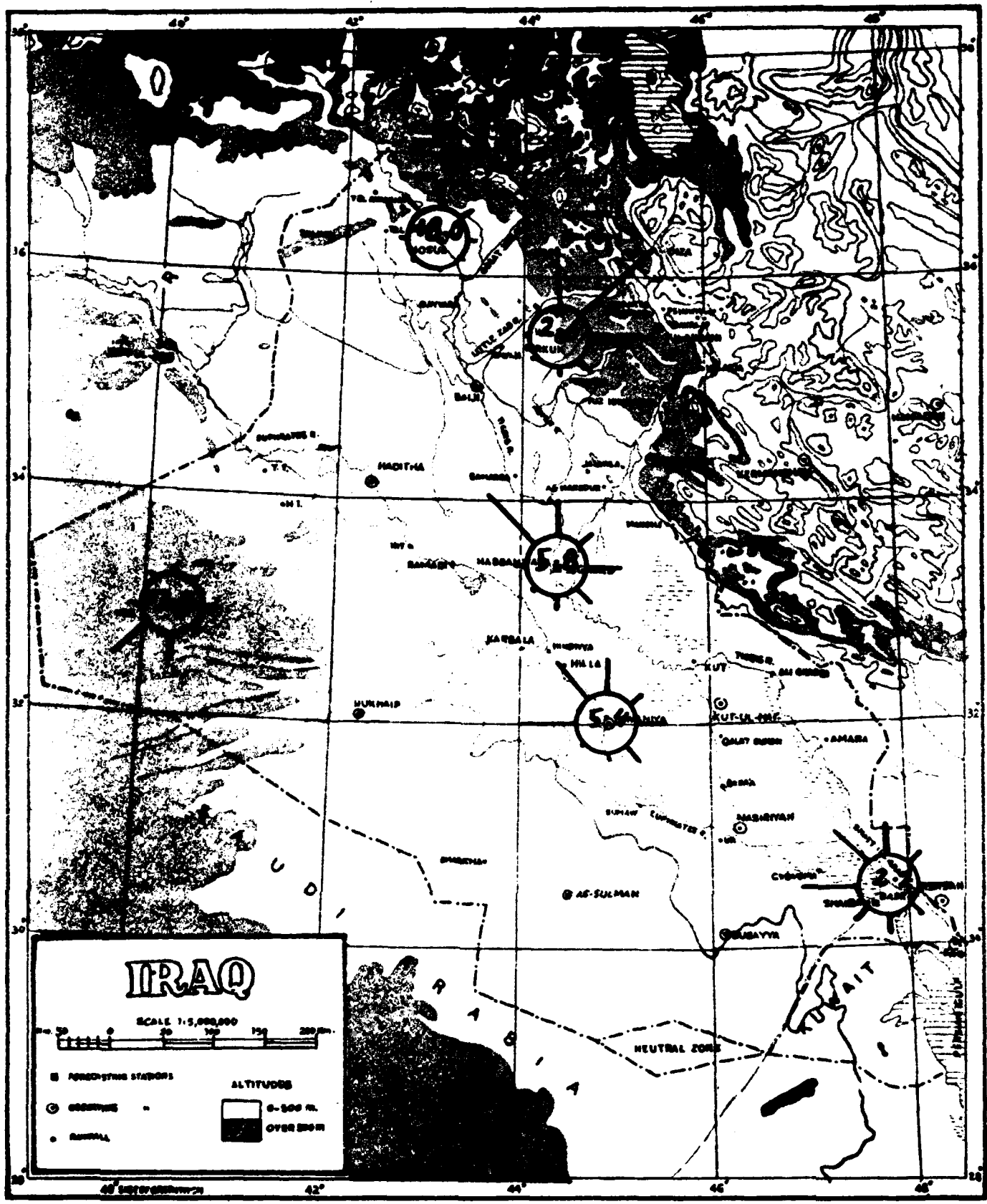
WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

OCTOBER 1200 GMT



WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

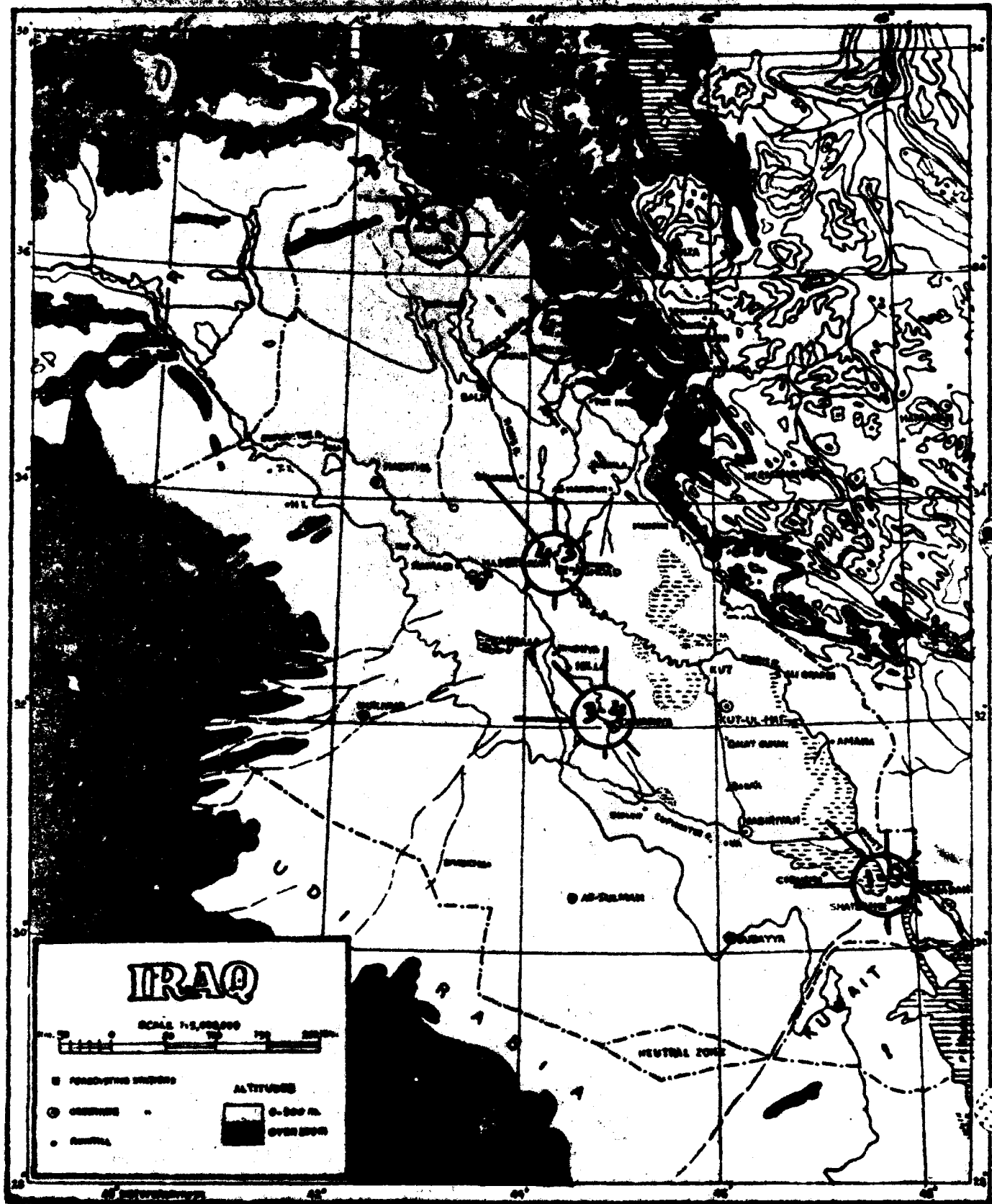
NOVEMBER 0300 GMT.



WE N D
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

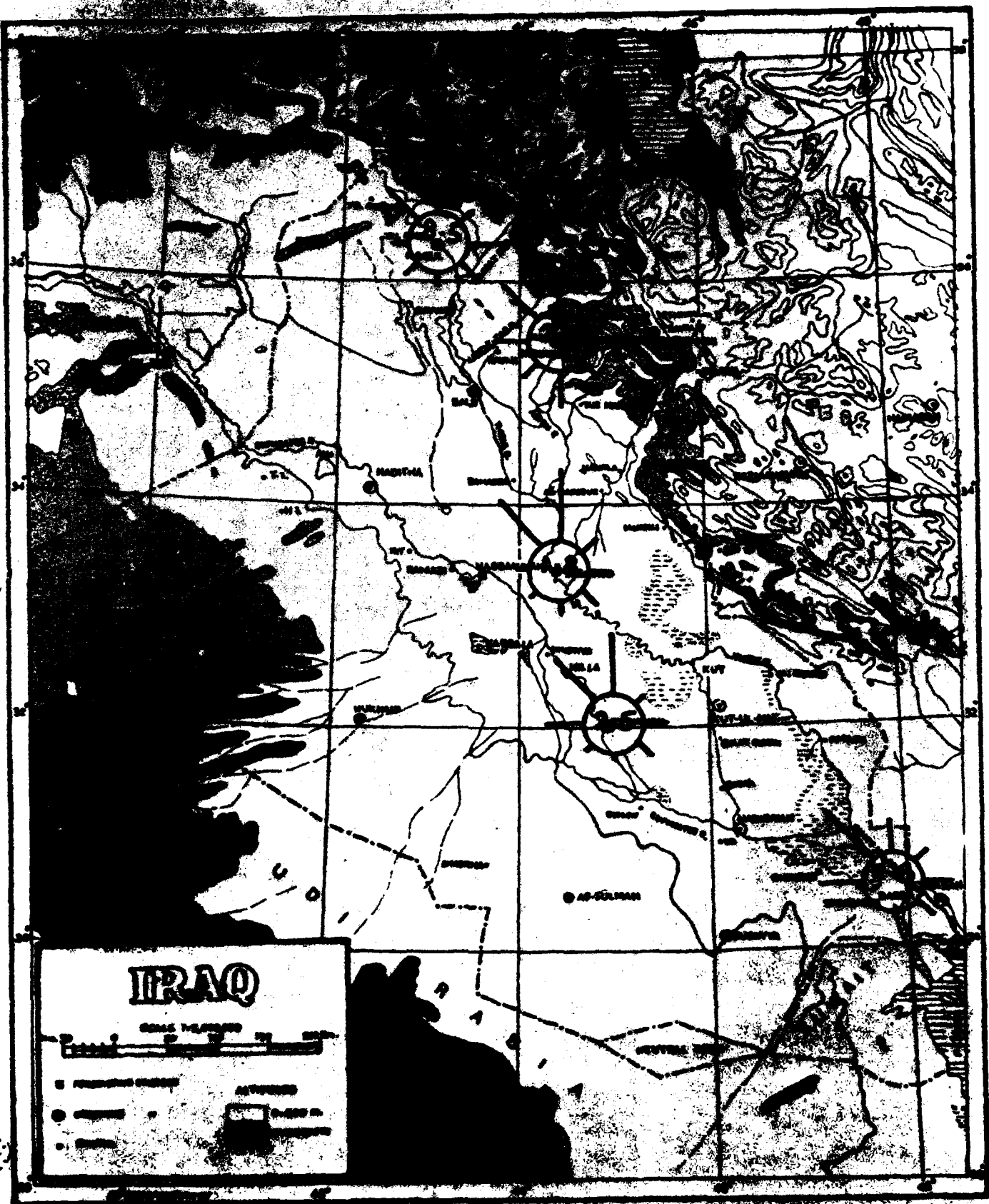
207

NOVEMBER 0600 GMT.



WIND
Average Frequency from Specified Direction
period of records see page 283

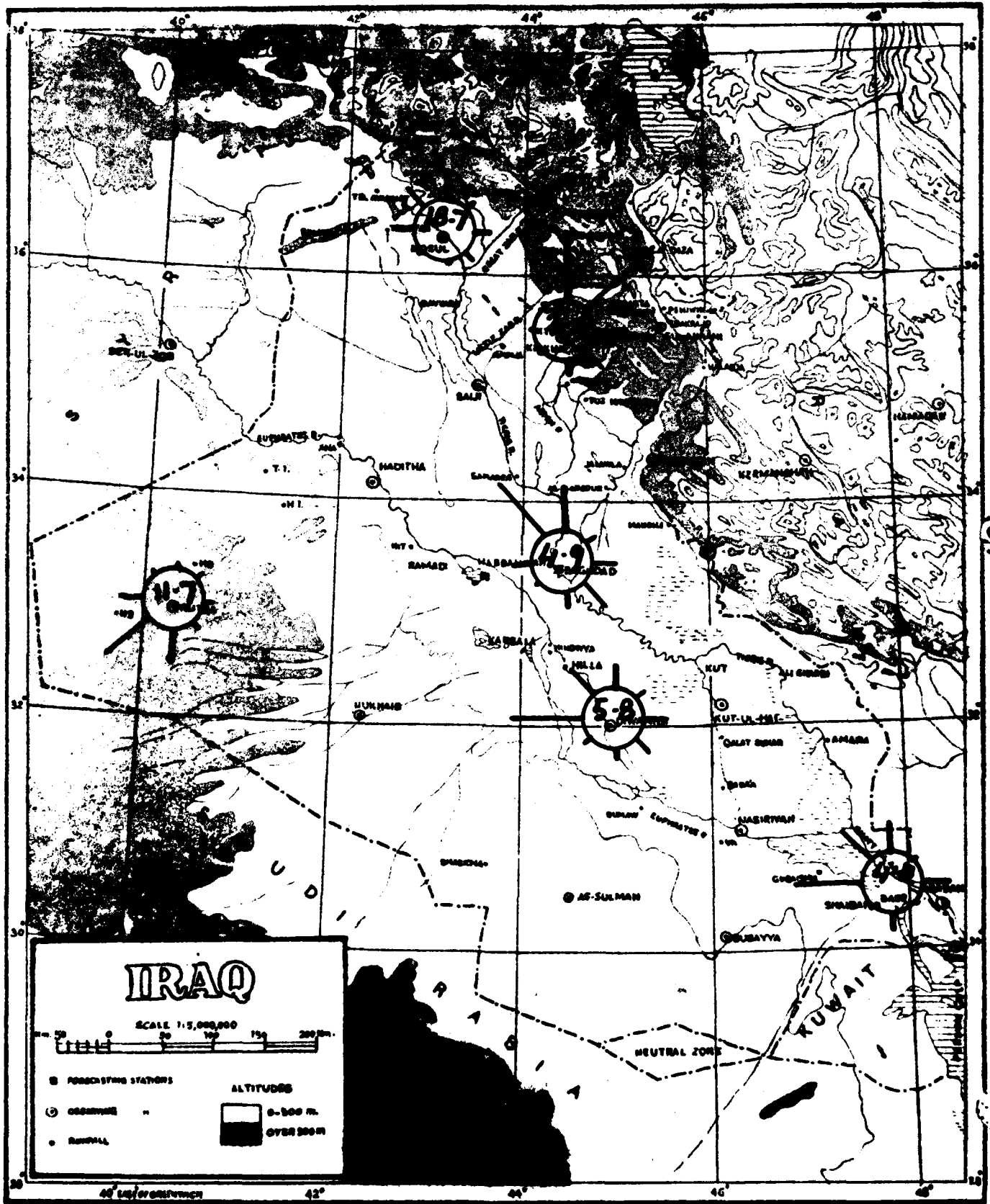
NOVEMBER 1200 GMT



The length of each arrow represents the mean number of occurrences of that particular wind direction. 1 case equal 1.5 mm. The number in the center shows the cases without wind.

WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

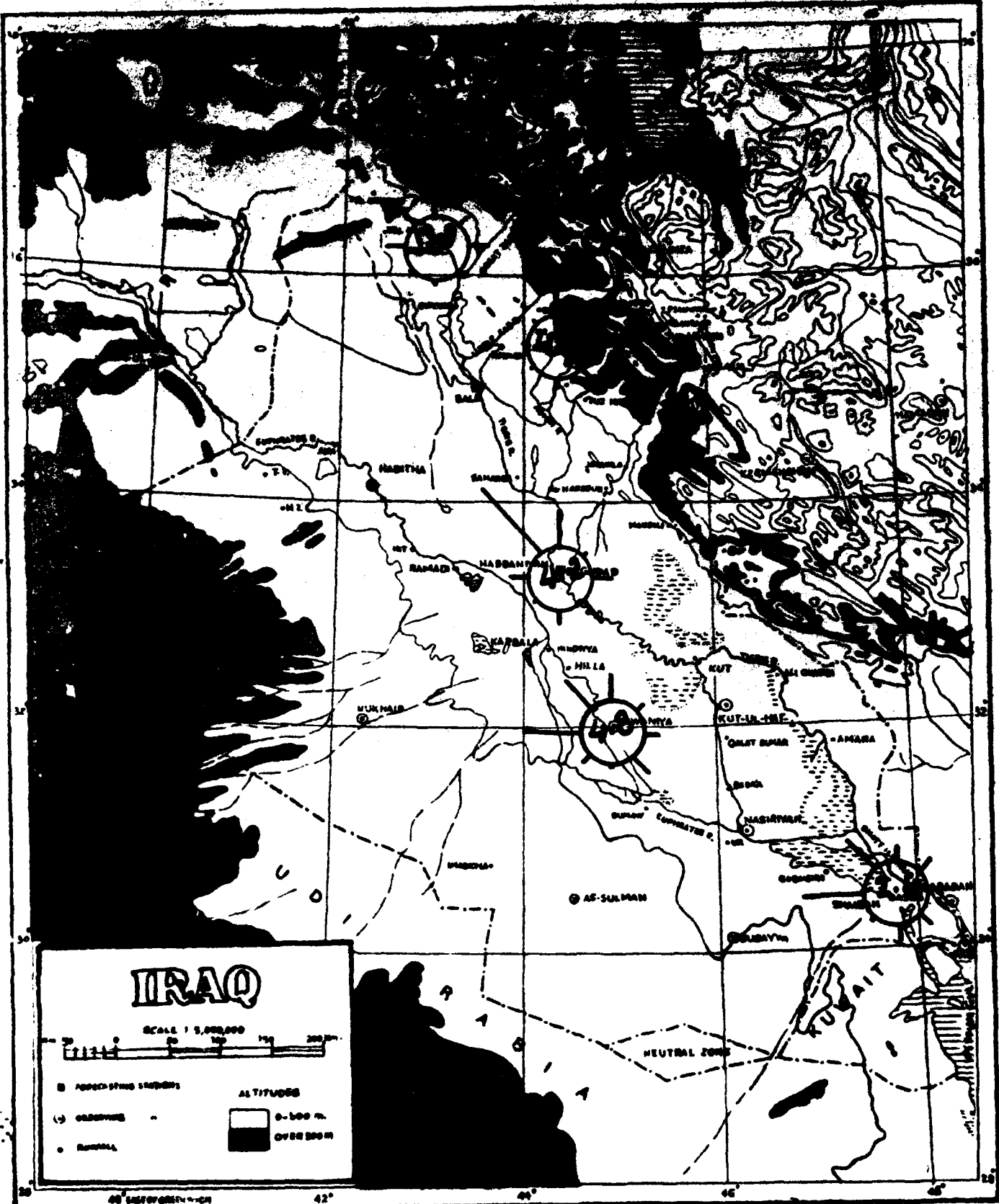
DECEMBER 0300 GMT.



WIND
 Average Frequency from Specified Directions
 for some selected stations
 period of records see page 2/3

210

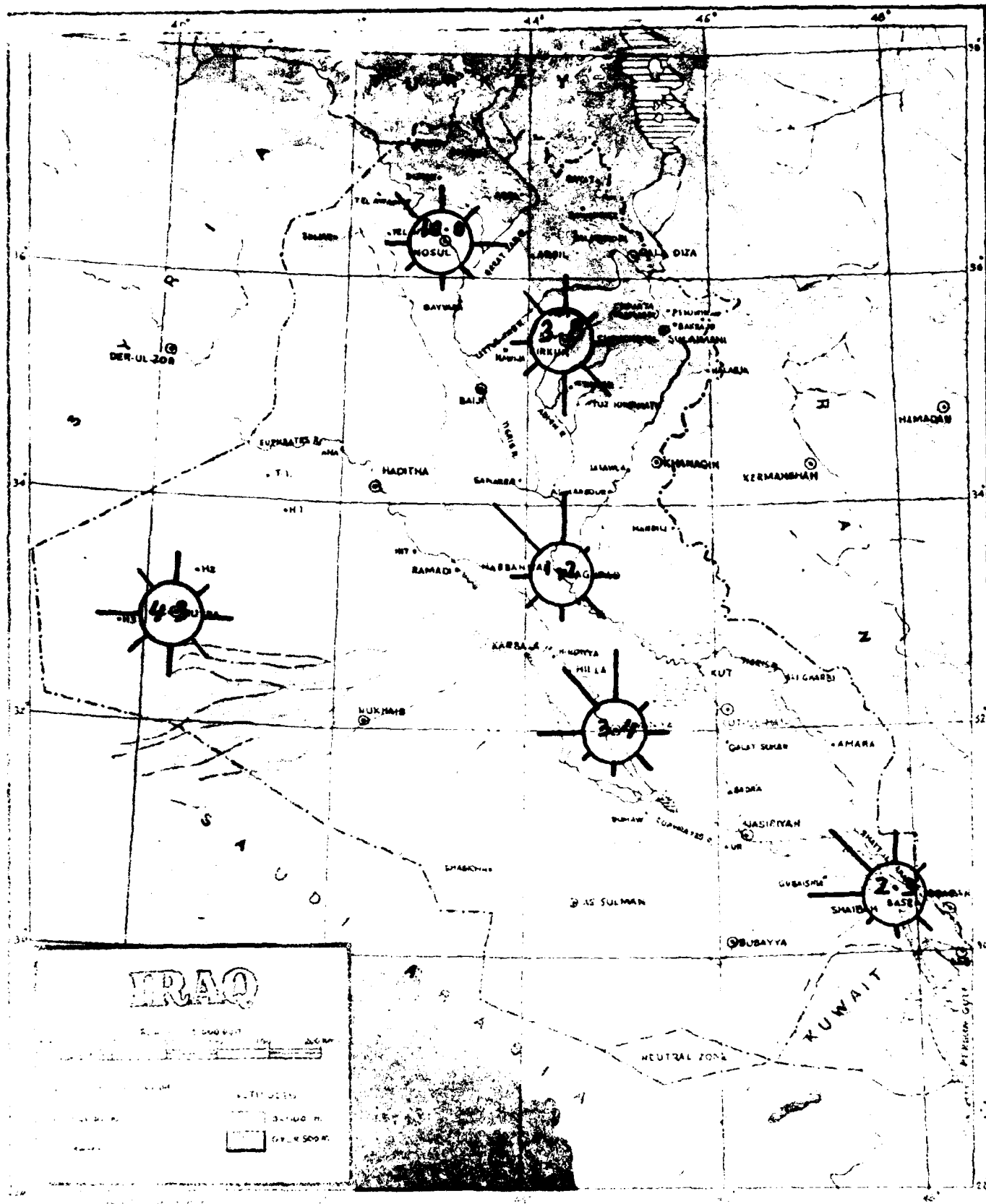
DECEMBER 0600 GMT.



WIND

Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

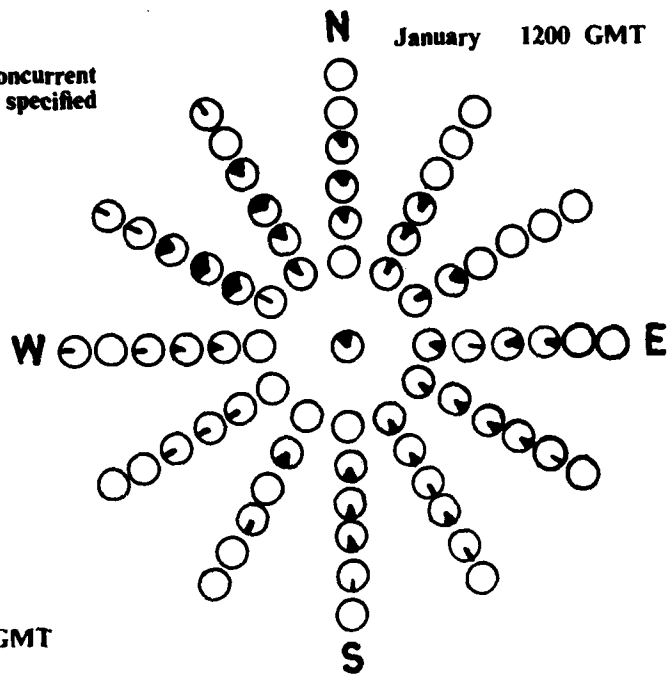
DECEMBER 1200 GMT.



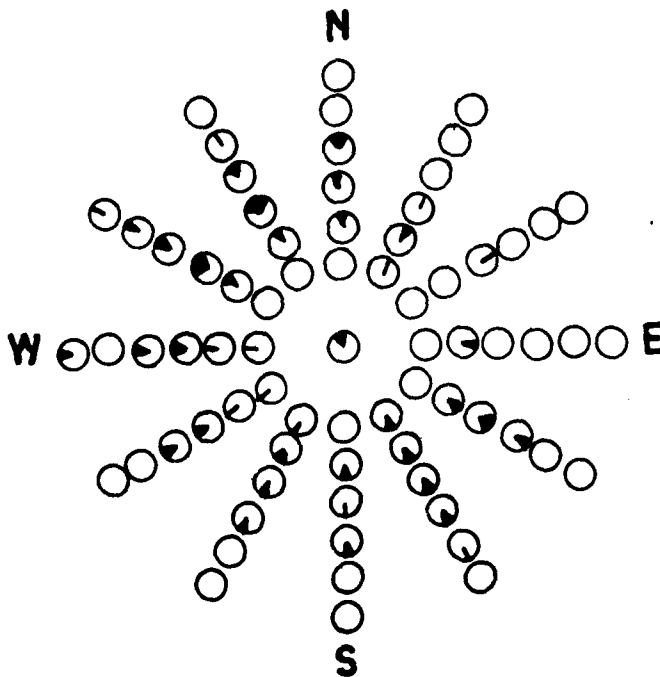
WIND DISTRIBUTION

at Baghdad Airport 1951—1955

Mean Number of occurrences of concurrent wind — speed and direction within specified ranges.

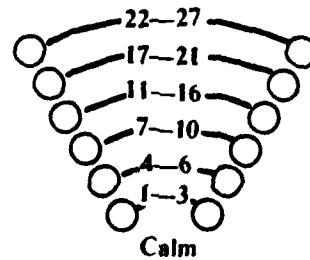


February 1200 GMT



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

Speed Ranges



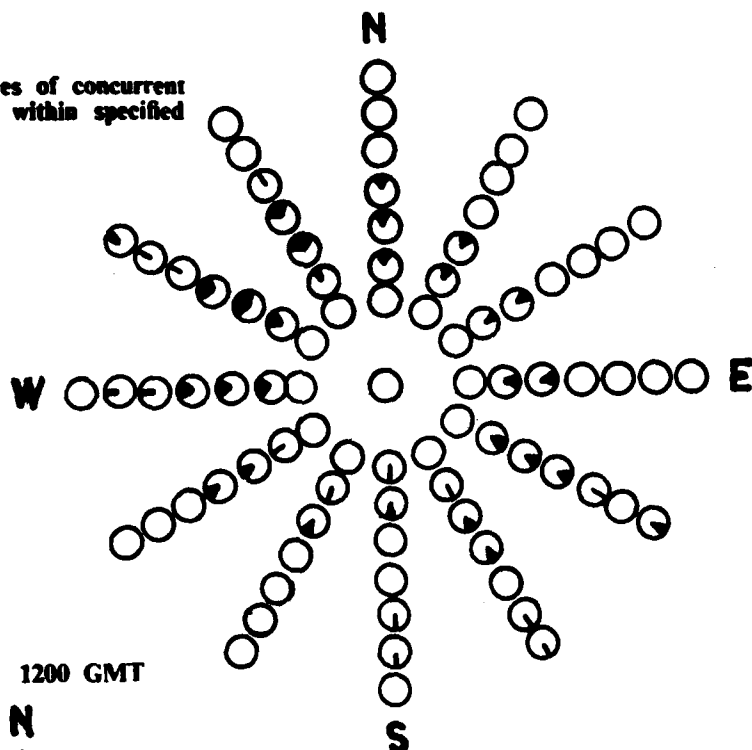
Wind Speed in Knots

WIND DISTRIBUTION

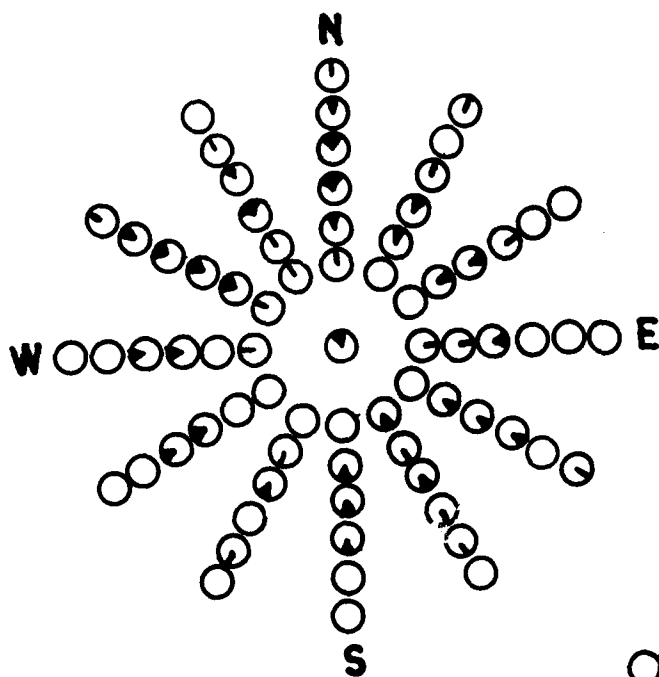
at Baghdad Airport 1951—1955

Mean Number of occurrences of concurrent wind — speed and direction within specified ranges.

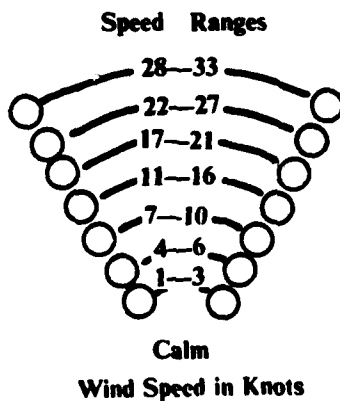
March 1200 GMT



April 1200 GMT



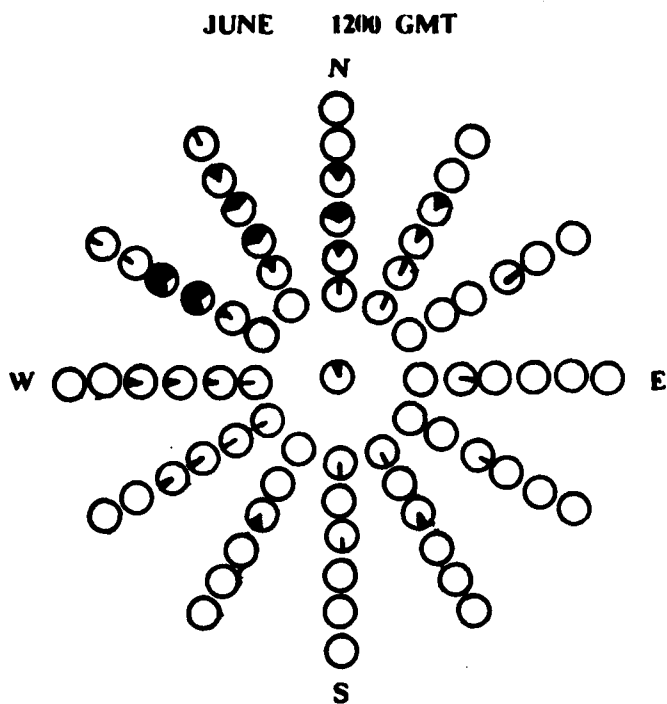
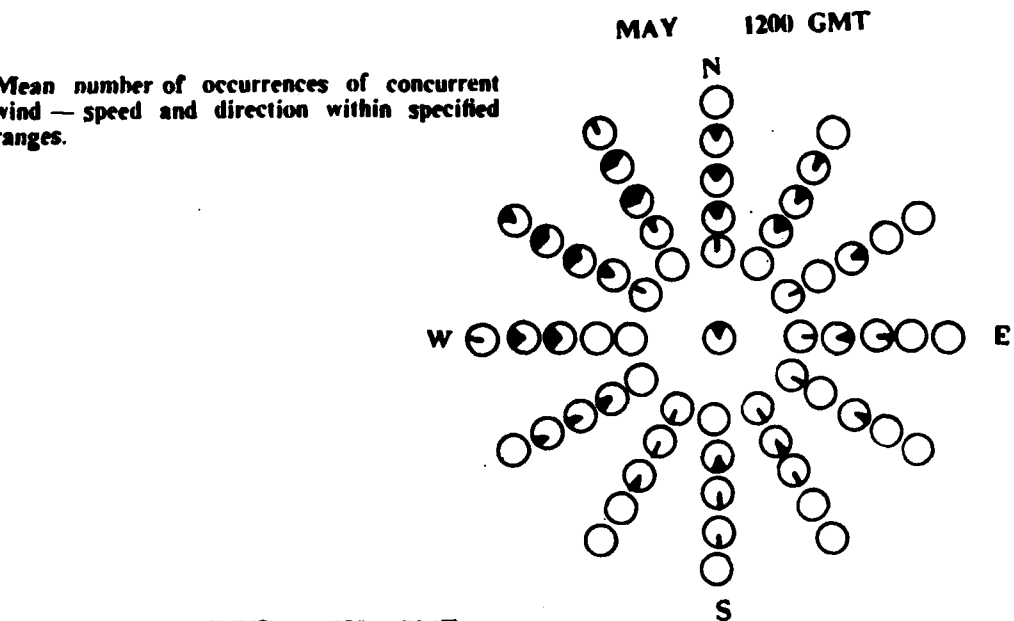
The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.



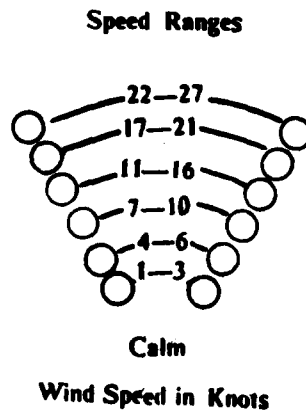
WIND DISTRIBUTION

at Baghdad Airport 1951—1955

Mean number of occurrences of concurrent wind — speed and direction within specified ranges.



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

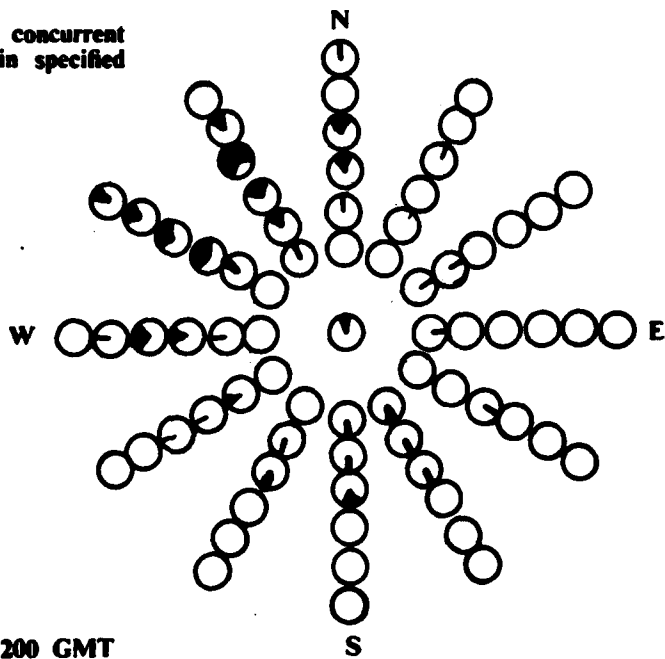


WIND DISTRIBUTION

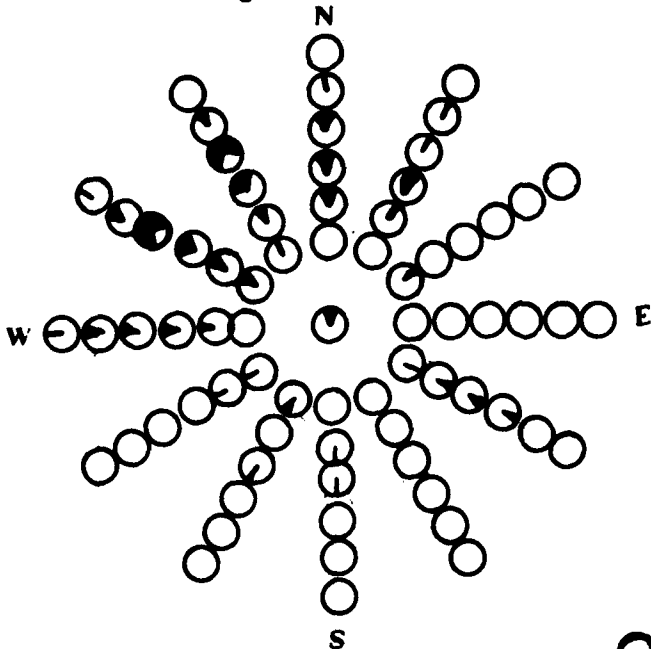
at Baghdad Airport 1951—1955

Mean number of occurrences of concurrent wind — speed and direction within specified ranges.

July 1200 GMT

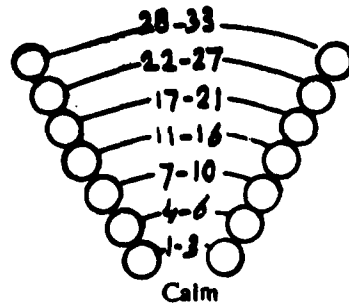


August 1200 GMT



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

Speed Ranges

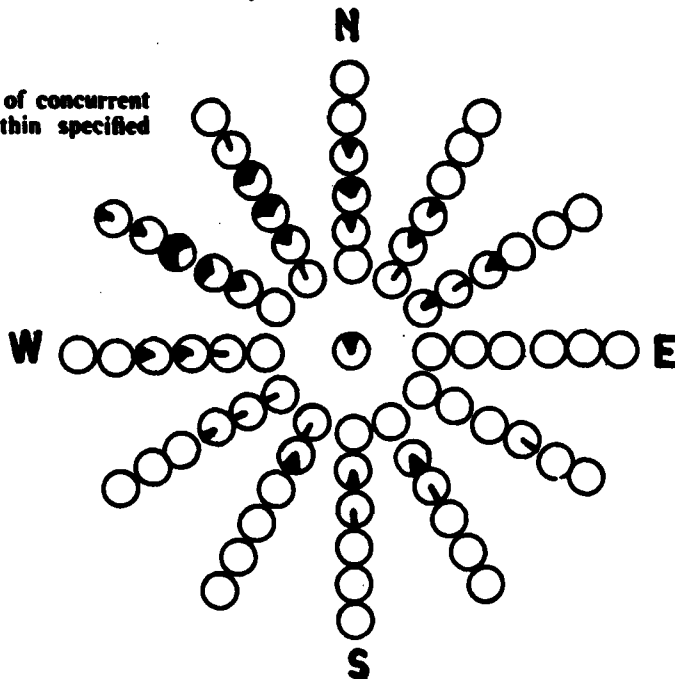


Wind Speed in Knots

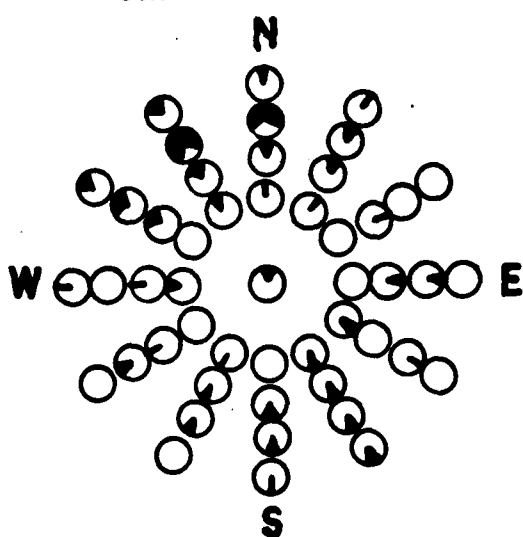
at Baghdad Airport 1951—1955

Mean number of occurrences of concurrent wind — speed and direction within specified ranges.

September 1200 GMT

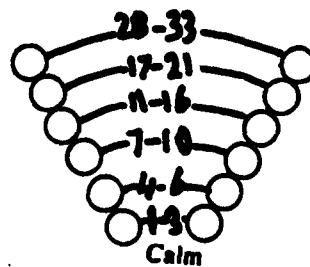


October 1200 GMT



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.

Speed Ranges



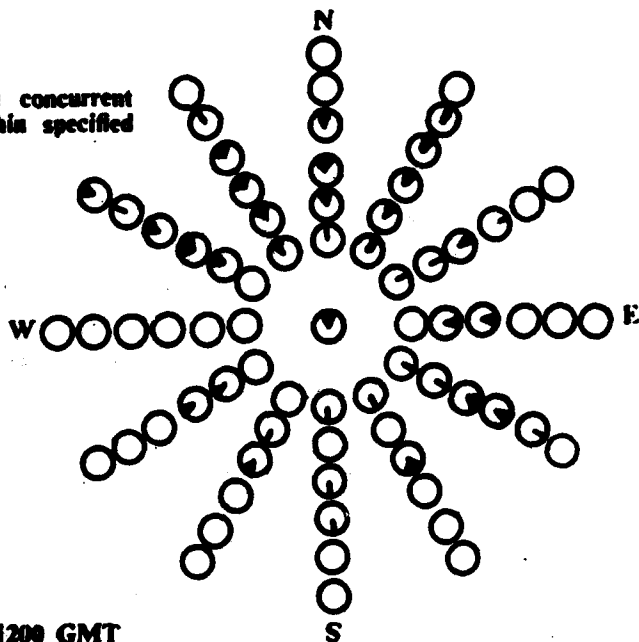
Wind Speed in Knots

WIND DISTRIBUTION

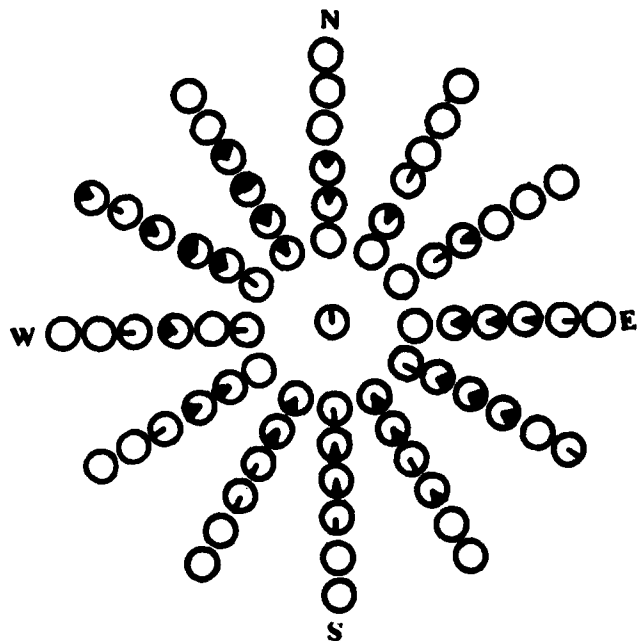
at Baghdad Airport 1951—1955

NOVEMBER 1200 GMT

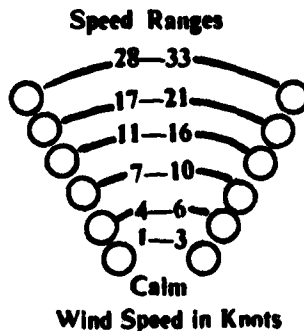
Mean number of occurrences of concurrent wind — speed and direction within specified ranges.



DECEMBER 1200 GMT



The black sectors represent the mean number of occurrences for the particular wind speed and direction interval given by the circle. A sector with an opening of 10 degrees represents a value of 0.2, a sector of 20 degrees 0.4 etc. The sectors in the centre indicate the cases without wind.



END

FILMED

11-85

DTIC