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National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

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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 course, 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 Data 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.

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<th>Height above MSL in meters</th>
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**Precipitation only**

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MAP OF IRAQ

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
Sinjar—Baghdad—Basrah

Cross Section along 33° 30' North
PRECIPITATION
Location of Rain—Gauges
See notes: Period of Records

IRAQ

SCALE: 1:5,000,000

10 50 100 150 200 KM

100 200 300 M

S: Recording Station
L: Gauge Location
M: Level 0-100 M
O: Over 100 M

TURKEY
KURDISHISTAN
PERSIAN GULF
KUWAIT
SHAM
TAHRA
KOHAN
ZUARI
KARKAMIS
HABABAN
HABIL
HABIB
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PRECIPITATION
Mean Monthly Amount of Precipitation

JUNE
JULY
AUGUST
SEPTEMBER

TURKEY

GENERALLY NOT WITHOUT PRECIPITATION BUT AMOUNT NEGligible

IRAQ
IRAQ

SCALE 1:5,000,000

PRECIPITATION
Mean Monthly Amount of Precipitation

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

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS

ALTIMETER

OVER 500 M

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

JANUARY

IRAQ

SCALE 1:5,000,000

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

IRAQ

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

JUL
AUG
SEP

TURKEY

DER UL ZOR

GENERALY BELOW 0.3

MOSTLY 0.1 OR 0.0

FOR EACH OF THE ABOVE
MONTHS.

IRAQ

SCALE 1 5,000,000

FORECASTING STATION

ALTITUDES

0-500 M.

OVER 500 M.

SURVEY PRESS BAGHDAD
Precipitation
Mean Annual Number of Days with Snow Fall
Period of records see page 23

FOR MOUNTAINS
0.9
RELIABLE DATA NOT AVAILABLE

IN THE PLANE
MOSTLY IMMEDIATELY

0.5
MELTING

IRAQ

SCALE 1:1,000,000

ALTIMETRY

STATIONS

0-200 M
0-500 M
OVER 500 M

TURKEY

KUWAIT
The 50 cases with the highest intensity during the period Nov. 1938 — May 1957.

Each point represents one case, giving the intensity in mm/min, the duration of the rain in minutes and the total amount of precipitation per case.
TEMPERATURE
Mean Annual Temperature
Period of records see page 2/3
TEMPERATURE
Mean Monthly Temperature
period of records see page 23

SEPTEMBER

IRAQ
SCALE 1:5,000,000

ALTITUDES

M = 50

°-500 m.

OVER 500 M.
TEMPERATURE
Mean Monthly Maximum (°C)
period of records see page 2/3

IRAQ

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

MARCH

IRAQ

SCALE: 1:5,000,000

FORECASTING STATIONS

ALTITUDES

0-500 m.
OVER 3000 m.

SURVEY PRESS BAGHDAD
TEMPERATURE
Mean Monthly Maximum (°C)
period of records see page 23

IRAQ

SCALE 1:5,000,000

ALTITUDES

-Forecasting Stations |
- Irrigation |
- Wastewater

IRELAND

40°E (GREENWICH) 42°E 44°E

MAY
TEMPERATURE
Mean Monthly Maximum °F
period of records see page 36

IRAQ

SURVEY PRESS BAGHDAD
TEMPERATURE
Mean Monthly Maximum (°C)
period of records see page 23

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

SEPTEMBER

IRAQ

SCALE: 1:5,000,000

- Forecasting Stations
- Observing
- Rainfall

ALTITUDES

- 0 - 500 m
- Over 500 m

SURVEY PRESS BAGHDAD
TEMPERATURE
Mean Monthly Minimum (°C)
period of records see page 23

JANUARY

IRAQ

SCALE: 1:2,000,000

- Meteorological Station
- Observation
- Residential

0 - 500 M
0 - 1500 M
Over 1500 M
TEMPERATURE
Mean Monthly Minimum (°C)
period of records see page 2/3

MARCH

IRAQ

SCALE 1:5,000,000

B - FORECASTING STATION
O - OBSERVING
* - RAINFALL

ALTIMETRY
0-500 M.
OVER 500 M.
TEMPERATURE
Mean Monthly Minimum (°C*)
period of records see page 2/3

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

IRAQ

DECEMBER
TEMPERATURE
Mean Annual Number of Days with Minimum Temperature 0 C° or Less
period of records see page 23
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 1/3
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
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 0°C or Less
period of records see page 2/3

JANUARY

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS
ALTITUDES
0-500 m.  OVER 500 m.

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

FEbruary

IRAQ

SCALE: 1:5,000,000

- Forecasting Stations
- Altitudes
  - 0-500 m
  - Over 500 m

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

IRAQ

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

NOVEMBER

IRAQ

SCALE: 1:5,000,000

FORECASTING STATIONS
OBSERVING
• RAINWALL

ALTITUDES
6-500 M.
OVER 500 M.

SURVEY PRESS, BAGHDAD
TEMPERATURE
Mean Monthly Number of Days with Minimum Temperature 0°C or Less
period of records see page 2/3

DECEMBER

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS

ALTIMETRES

N 0-500 M

OVER 500 M

SURVEY PRESS BAHRAIN
TEMPERATURE
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

OCTOBER

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS
0 1 2

ALTITUDES
0-500 M. OVER 500 M.

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

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

FEBRUARY

IRAQ
SCALE 1:5,000,000

ALTITUDES

0-1,000 m
1,000-5,000 m
OVER 5,000 m
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25°C or More
period of records see page 23
MARCH

IRAQ

FORECASTING STATIONS
1. 0-500 m.
2. OVER 500 m.

SCALE: 1:5,000,000
EAST GREENWICH 42°
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 °C or More
period of records see page 2/3

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

SEPTEMBER

IRAQ

SCALE: 1:3,500,000
0  100  200 km

ALTITUDES

0-500 m  500-1,000 m  OVER 1,000 m
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

OCTOBER

IRAQ

ALTIMETRIC CHANGES

scale 1:5,000,000

ALTITUDES

0-500 M

OVER 500 M
TEMPERATURE
Mean Monthly Number of Days with Maximum Temperature 25 C° or More
period of records see page 2/3

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

DECEMBER

[Map of Iraq with annotations and geographical information]

IRAQ
SCALE 1:5,000,000

ALTIMETRY

OVER 500 ft.

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

APRIL

IRAQ

SCALE 1:5,000,000

STATIONS
ALTITUDES
0-500 M.
OVER 500 M.

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

MAY

IRAQ

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

OCTOBER

IRAQ

SURVEY PRESS BAGHDAD
TEMPERATURE
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

JUNE

IRAQ
SCALE 1:5,000,000

FORECASTING STATIONS

CASSINGING

ALTIMETRES

5,000 m.

OVER 500m

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

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

MAY

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS
ALTIMETRY
0-500 m.
OVER 500M

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

JUNE

IRAQ

SCALE 1:5,000,000

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

AUGUST

IRAQ

SCALE: 1,000,000

FORECASTING STATIONS

ALTITUDES

0-500 M.

OVER 500 M.

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

SEPTEMBER

IRAQ

SCALE: 1 : 5,000,000

0 50 100 150 200 km

FORECASTING STATIONS
ALTITUDES
0-500 m
OVER 500 m

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

OCTOBER
TEMPERATURE
Mean Monthly Maximum and Mean Monthly Minimum (Celsius°)
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3

IRAQ
SCALE 1:5,000,000

ALTIMETRY STATIONS
ALTITUDES
0-500 M.
OVER 500 M.

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

January

APRIL

GMT
21
18
15
12
09
06
03
00

Mean Number of occurrences

Degrees C°
ISOPLETHS OF THE MEAN TEMPERATURE AT BAGHDAD AIRPORT [°C]
MONTHLY TEMPERATURE RANGES
FOR SELECTED HOURS AT BAGHDAD AIRPORT
[00, 03, 06, ETC. GMT]
PERIOD OF RECORDS 1951-1955

EXPLANATION
A = 0000 GMT  E = 1200 GMT
B = 0300 GMT  F = 1500 GMT
C = 0600 GMT  G = 180 GMT
D = 0900 GMT  H = 2100 GMT
HUMIDITY
Mean Annual Mixing Ratio (gm/kg)
period of records see page 2/3
HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

MAY

IRAQ

SCALE: 1:1,000,000

FORECASTING STATIONS

OBSERVING

Rainfall

ALTITUDES

0-500 M.

OVER 500 M.
HUMIDITY
Mean Monthly Mixing Ratio (gm/kg)
period of records see page 2/3

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

NOVEMBER
HUMIDITY
Mean Monthly Relative Humidity at 0300 GMT

IRAQ

EXPLANATION

FORECASTING STATIONS

ALTIMETERY

0-500 m.
OVER 500 M.

SURVEY PRESS BAGHDAD.
ATMOSPHERIC PRESSURE
Mean Monthly Sea Level Pressure
Each Column Represents One Month Starting with January (Left)
period of records see page 2/3
MEAN PRESSURE FOR BAGHDAD AIRPORT
Reduced to MSL

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

IRAQ

EXPLANATION

Month see Station RUTBA

SURVEY PRESS BAGHDAD.
CLOUDINESS
Mean Monthly Amount of Total Clouds
at 0600 GMT.
to the nearest Okta
CLOUDINESS
Mean Monthly Amount of Low Clouds
at 0600 GMT (Base below 2500 m)
to the nearest Octa

EXPLANATION
1. Forecaotng Station
2. Observing Site
3. Over 500 m
4. Over 300 m

Month see Station RUTBA

Survey Press Baghdad
CLOUDINESS
Mean Monthly Amount of Total Clouds
at 1200 GMT
to the nearest Okta

IRAQ

EXPLANATION

19

3

4

5

6

Month see Station RUTBA
CLOUDINESS
Mean Monthly Amount of Low Clouds
at 1200 GMT (Base below 2500 m)
to the nearest Okta

IRAQ

EXPLANATION

Month see Station RUTBA

SURVEY PRESS BAGHDADE
CLOUDINESS
Mean Monthly Amount of Total Clouds
at 0300 GMT
to the nearest Okta

EXPLANATION

IRAQ
SCALE: 1:5,000,000

FORECASTING STATIONS
OBSERVING
RAINFALL

ALTITUDES
0-500 M.
OVER 500 M.

Month see Station RUTBA

SURVEY PRESS BAGHDAD
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)

Daylight = White + black columns
Sunshine = White columns only

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

Daylight = White + black columns
Sunshine = White columns only
Mean Annual Number of Days With Dust

period of records see page 23
DUST
(Visibility less than 1 Km)
Mean Monthly Number of Days with Dust
period of records see page 2/3

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

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

MARCH
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

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

JUNE

IRAQ

SCALE 1:5,000,000

ALTIMETRIC STATIONS
1. OBSERVING
2. RAINFALL
3. OVER 500 ft

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

JULY
DUST
(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

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

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

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

JANUARY

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS

ALTITUDES

- UNDER 500 M.
- OVER 500 M.

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

FEBRUARY

IRAQ
SCALE: 1:5,000,000

* FORECASTING STATIONS
O OBSERVING
• REPORTED

ALTITUDES

0-500 M
OVER 500 M

40° EAST OF GREENWICH

156
F O G
Mean Monthly Number of Days with Fog
period of records see page 2/3

MARCH
F O G
Mean Monthly Number of Days with Fog
period of records see page 23

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

NORTH IRAQ: VERY RARELY FOG IN SEP.

CENTRAL IRAQ: NO FOG

SOUTH IRAQ: VERY RARELY FOG IN MAY & SEP.
FOG
Mean Monthly Number of Days with Fog
period of records see page 2/3

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

NOVEMBER

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS

ALTIMETER

ALTITUDES

OVER 500 M

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

JANUARY

IRAQ

SCALE 1: 5,000,000

FORECASTING STATIONS
ALTITUDES

OBSERVING
6-500 m.

Rainfall

OVER 500 M.

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

FEBRUARY

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS
ALTIMETRY
0-500 M.
OVER 500 M.

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

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS
O OBSERVING

ALTITUDES
0-500 m.
OVER 500 m.

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

JUNE

IRAQ

SCALE 1:5,000,000

SPECIAL STATIONS
ALTIMETRY

0-500 m.
OVER 500 M.

SURVEY PRESS, BAGHDAD
THUNDERSTORM
Mean Monthly Number of Days with Thunderstorm
period of records see page 2/3

JULY

IRAQ

SCALE 1:3,000,000

FORECASTING STATION
OBSERVING
• RAINFALL

ALTITUDES
0-500 m
500-1000 m
OVER 1000 m

SURVEY PRESS, BAGHDAD.
THUNDERSTORM
Mean Monthly Number of Days With Thunderstorm
period of records see page 2/3

IRAQ

SCALE 1:5,000,000

Surveillance Stations

Altitudes

ARABIA

NEUTRAL ZONE

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

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

OCTOBER

IRAQ

SCALE 1:5,000,000

FORECASTING STATIONS

ALTITUDES

0-500 M.

OVER 500 M.
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.
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WIND
Average Frequency from Specified Directions
for some selected stations
period of records see page 2/3

OCTOBER 0300 GMT

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

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Wind Speed in Knots
- 28—33
- 22—27
- 17—21
- 11—16
- 7—10
- 4—6
- 1—3

Calm
WIND DISTRIBUTION
at Baghdad Airport 1951—1955

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

MAY 1200 GMT

JUNE 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

Calm

Wind Speed in Knots
Mean number of occurrences of concurrent wind—speed and direction within specified ranges.

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