

MEDEDELINGEN EN VERHANDELINGEN

77

G. VERPLOEGH

**ON THE ANNUAL VARIATION
OF CLIMATIC ELEMENTS
OF THE INDIAN OCEAN**

**PART II
CHARTS**

1960

F 6,— (Part I en II)

ON THE ANNUAL VARIATION OF CLIMATIC
ELEMENTS OF THE INDIAN OCEAN

KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT
MEDEDELINGEN EN VERHANDELINGEN

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ON THE ANNUAL VARIATION
OF CLIMATIC ELEMENTS
OF THE INDIAN OCEAN

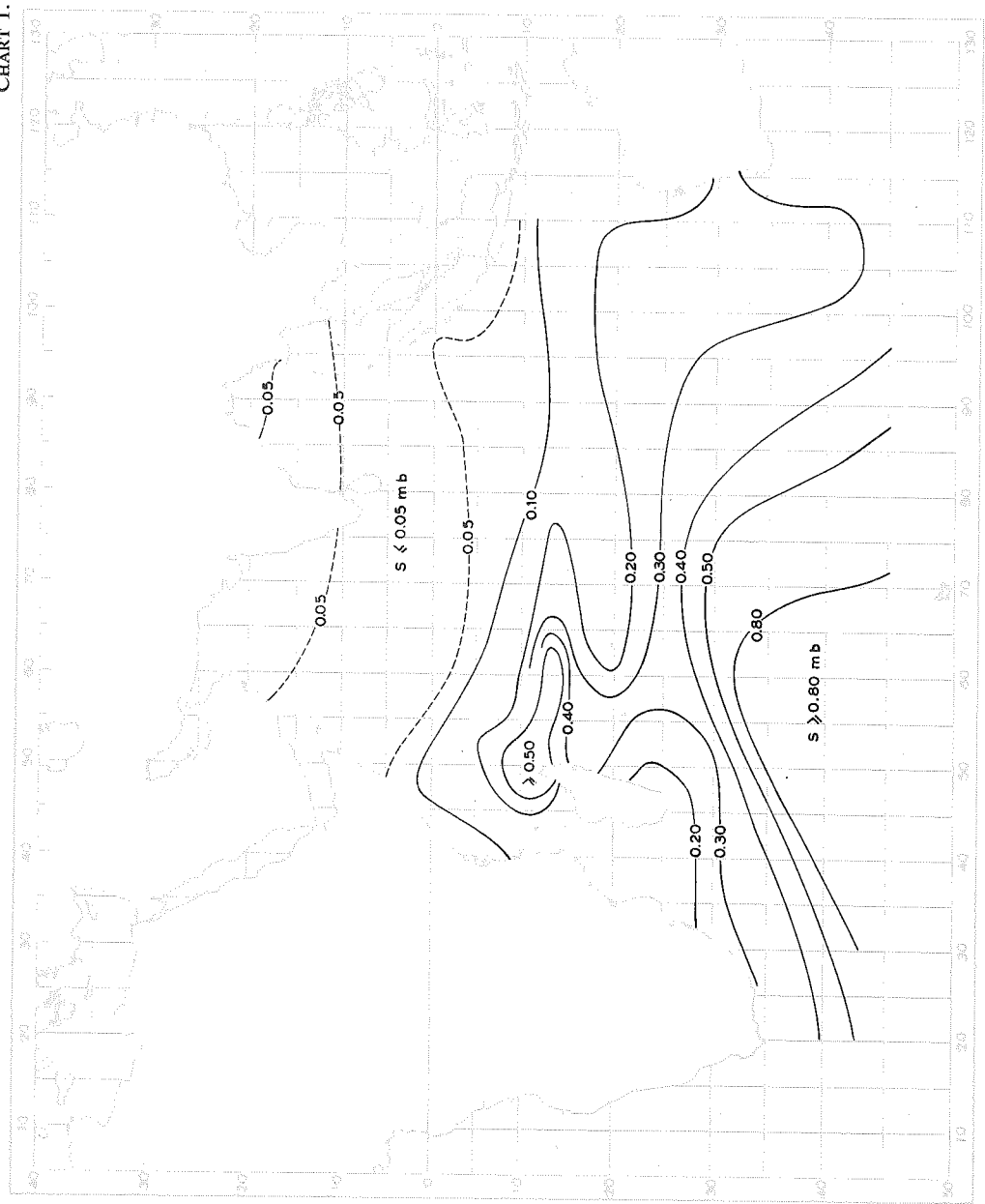
G. VERPLOEGH

PART II
CHARTS

1960

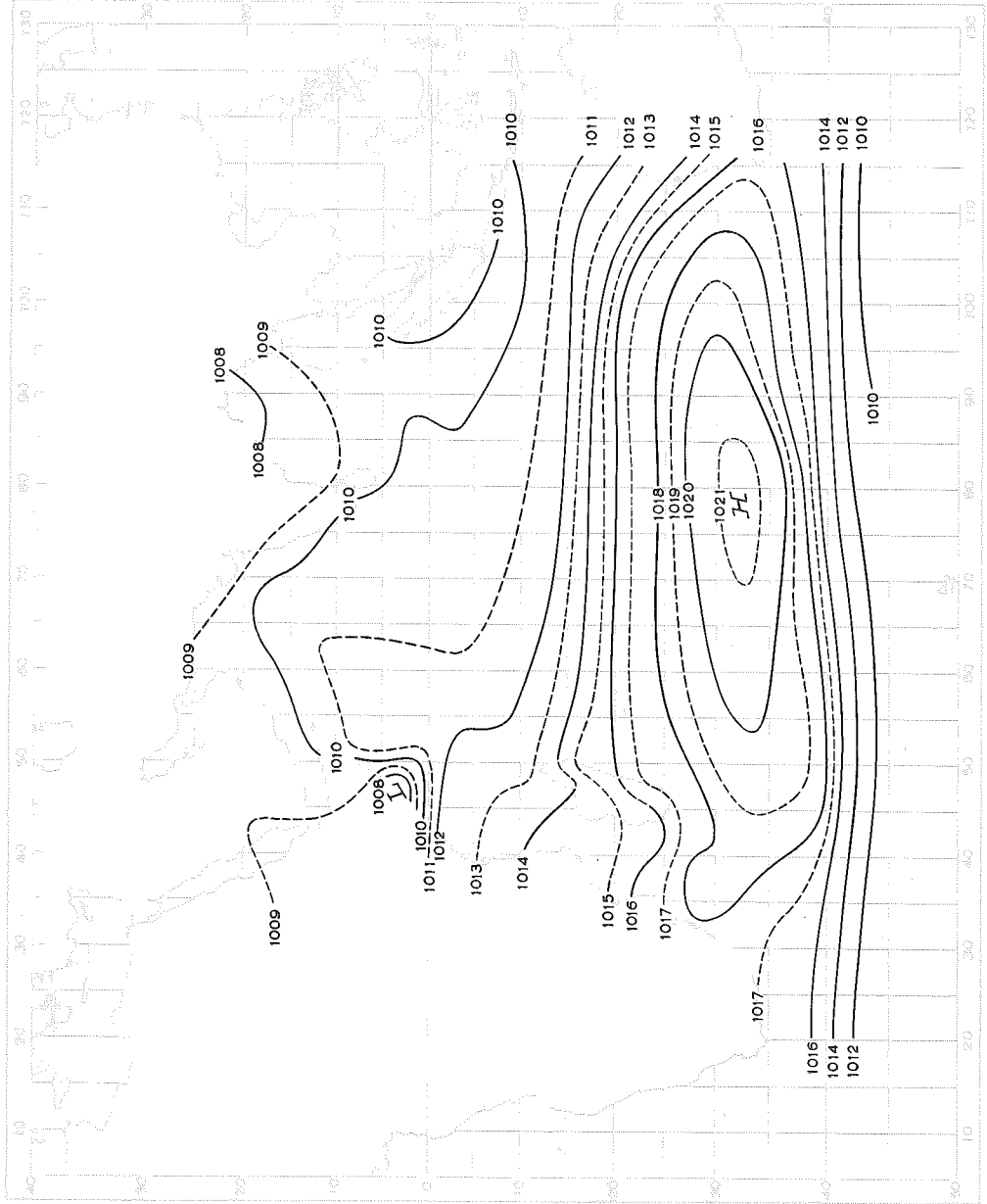
STAATSDRUKKERIJ- EN UITGEVERIJBEDRIJF / 'S-GRAVENHAGE

CHART I.



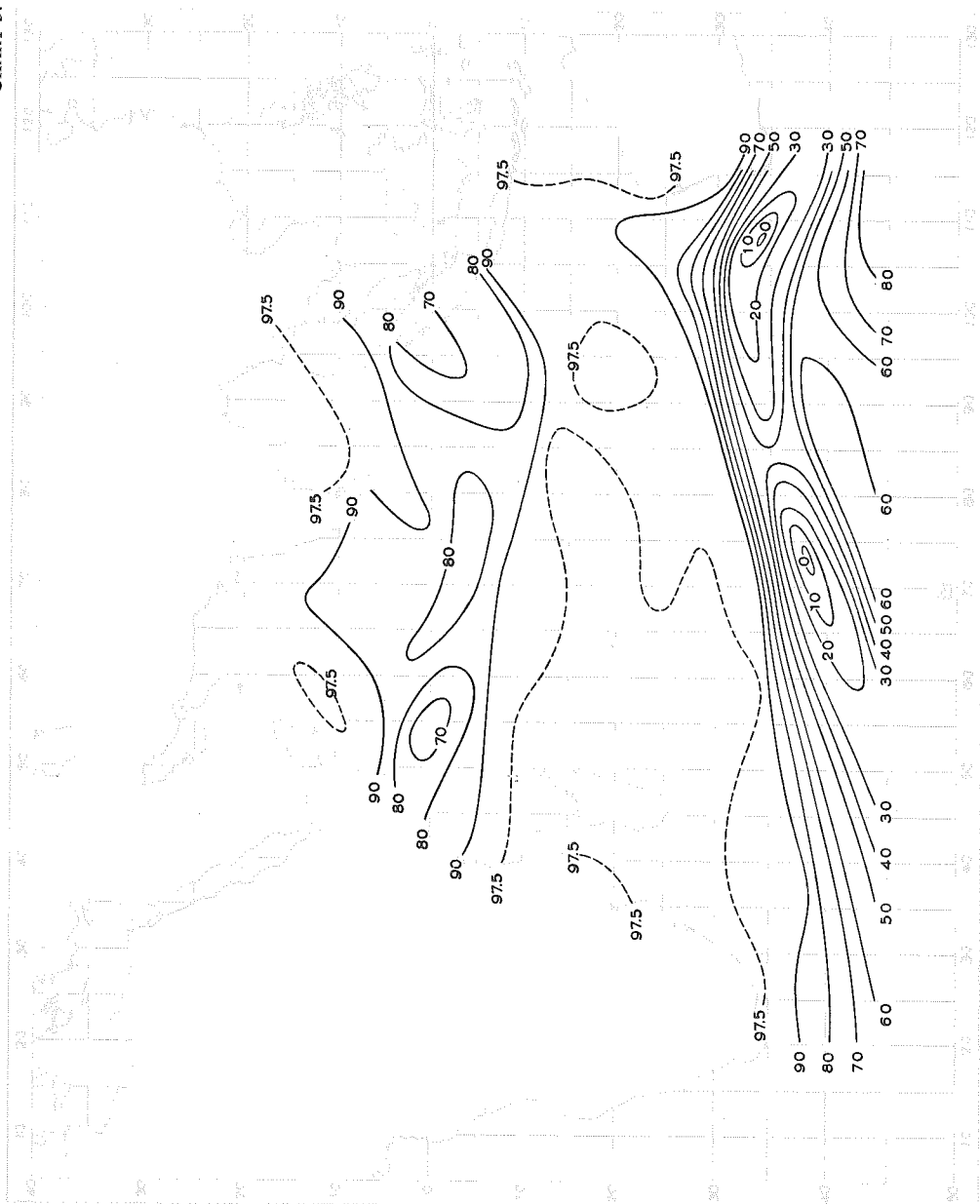
Standard deviation of the mean air pressure.

CHART 2.



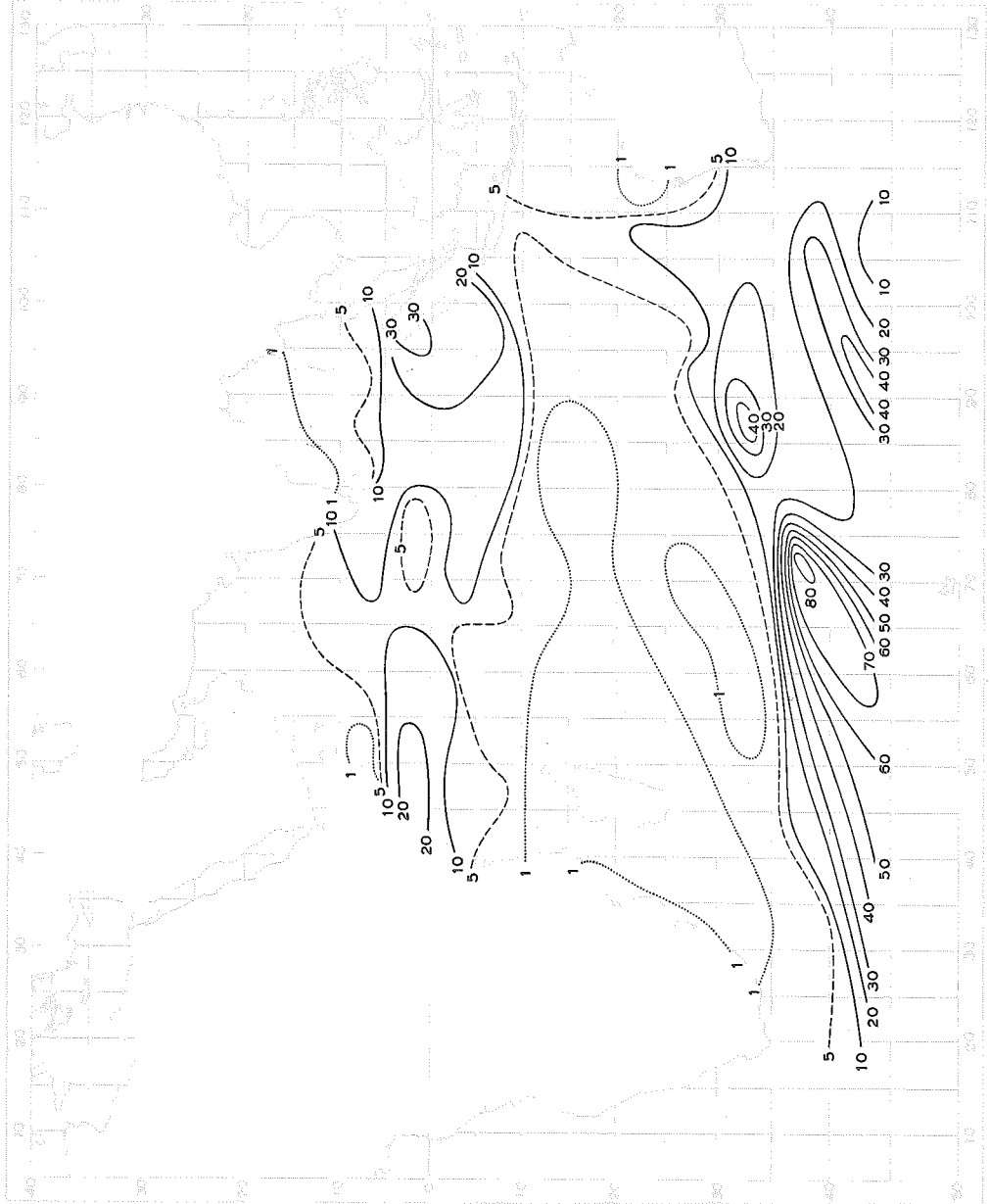
Annual mean air pressure.

CHART 3.



Relative intensity of the first harmonic component (a_1) to the whole of the annual pressure variation, in per cent.

CHART 4.



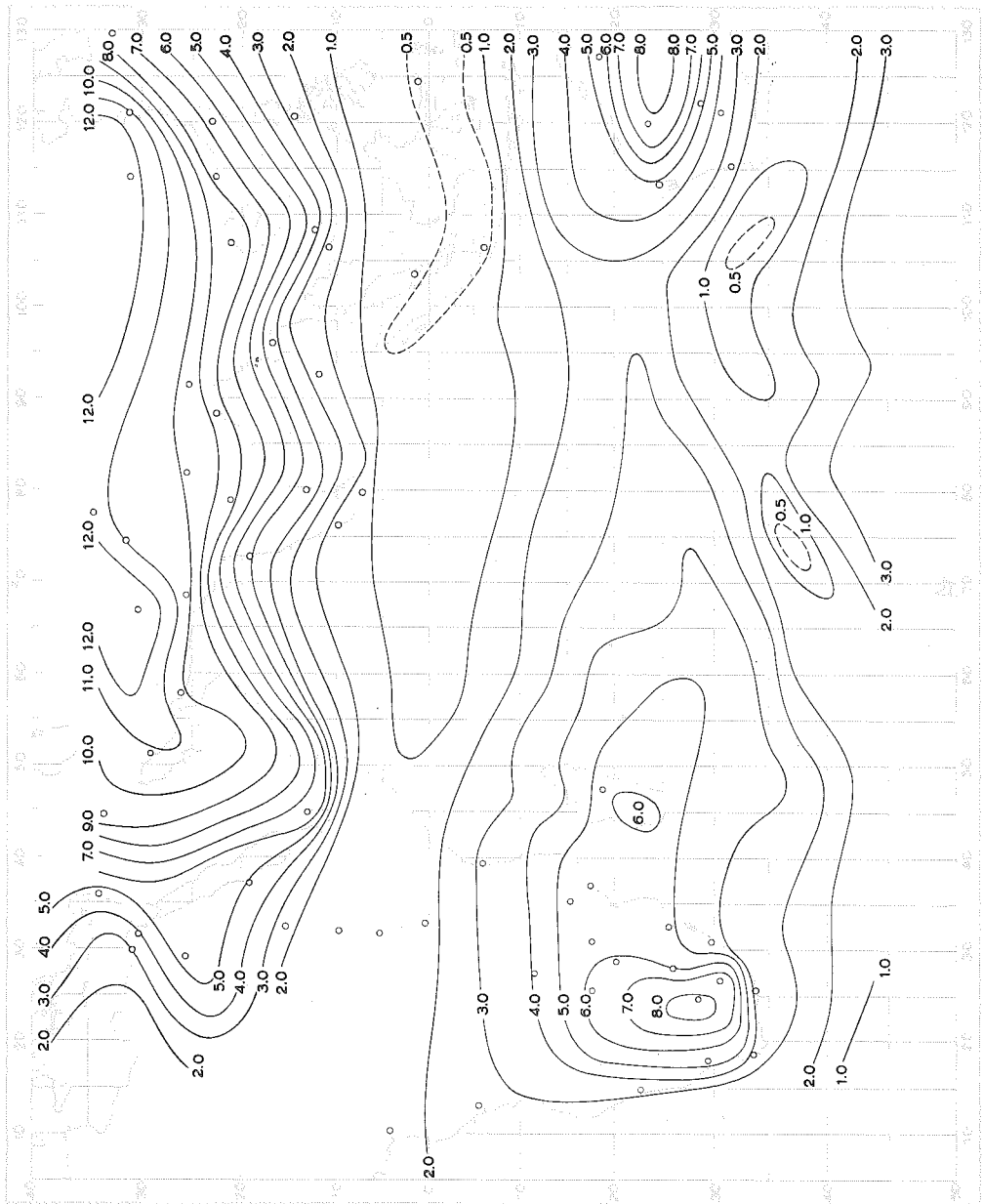
Relative intensity of the second harmonic component (a_2) to the whole of the annual pressure variation, in per cent.

CHART 5.



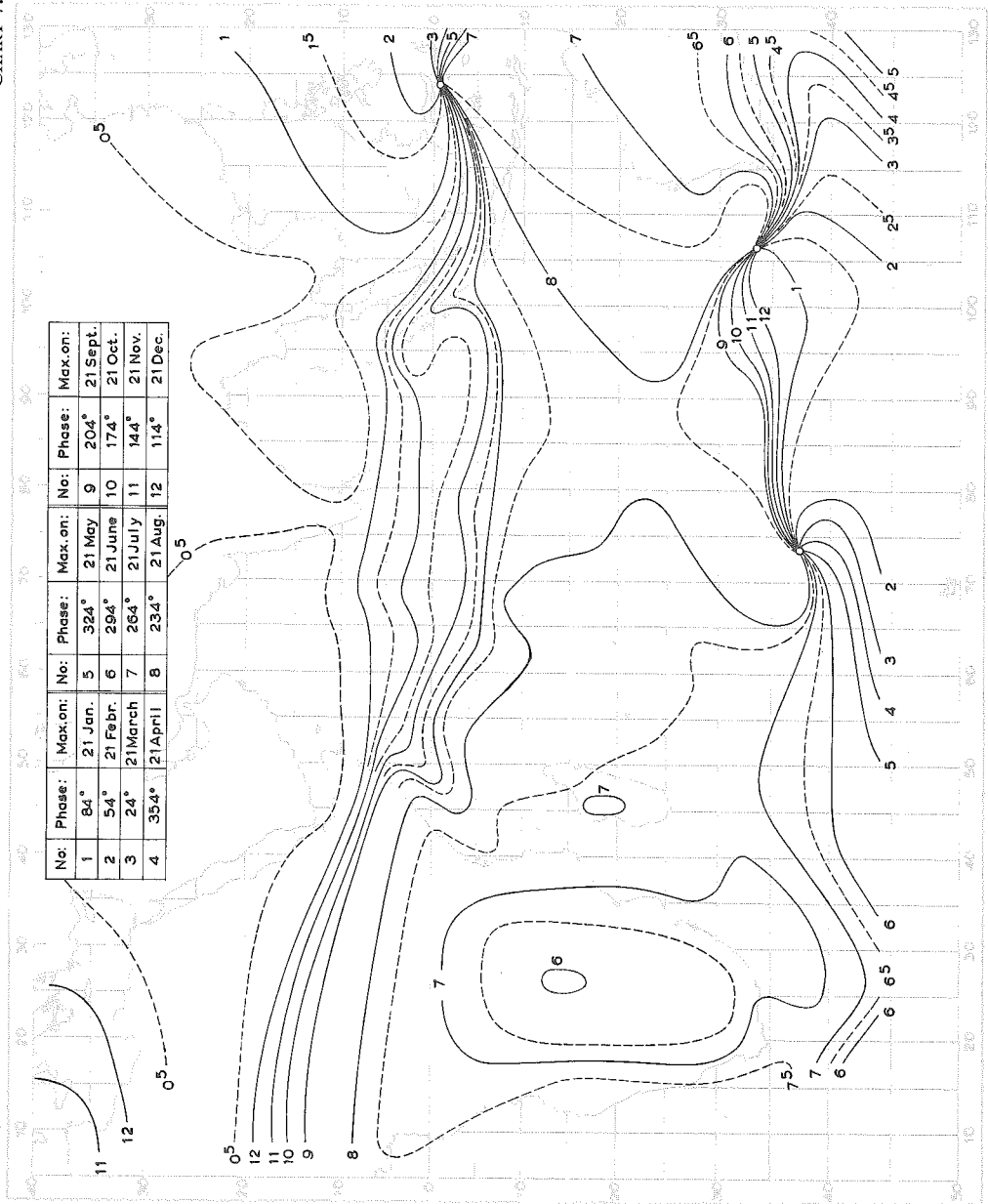
Relative intensity of the sum of the harmonic components of higher order than the second, to the whole of the annual pressure variation, in per cent.

CHART 6.



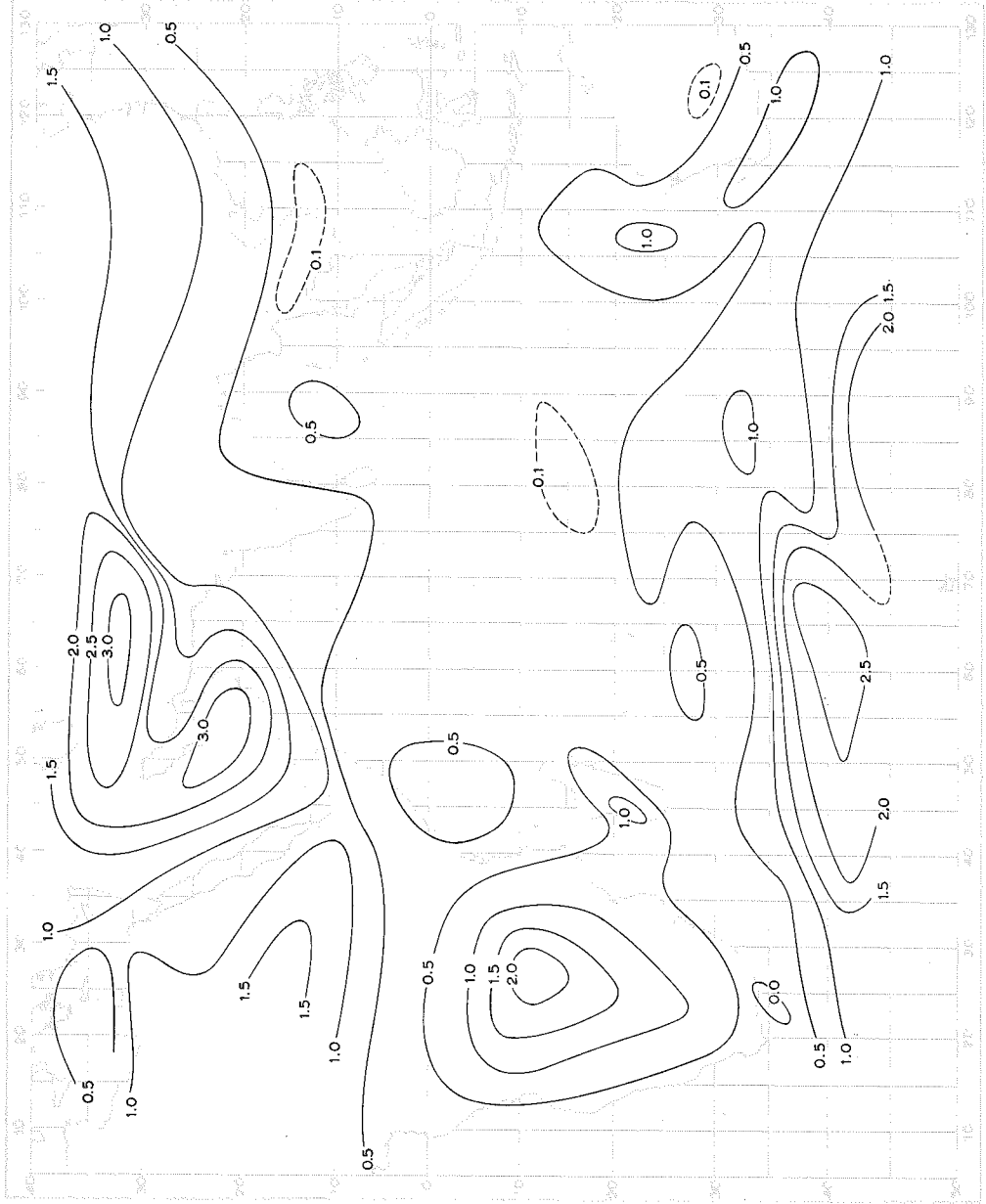
Amplitude (a_1) of the annual harmonic pressure variation. The land stations used for this analysis are indicated (see E. Wahl, Veröff. Met. Inst. Un. Berlin, 1942).

CHART 7.



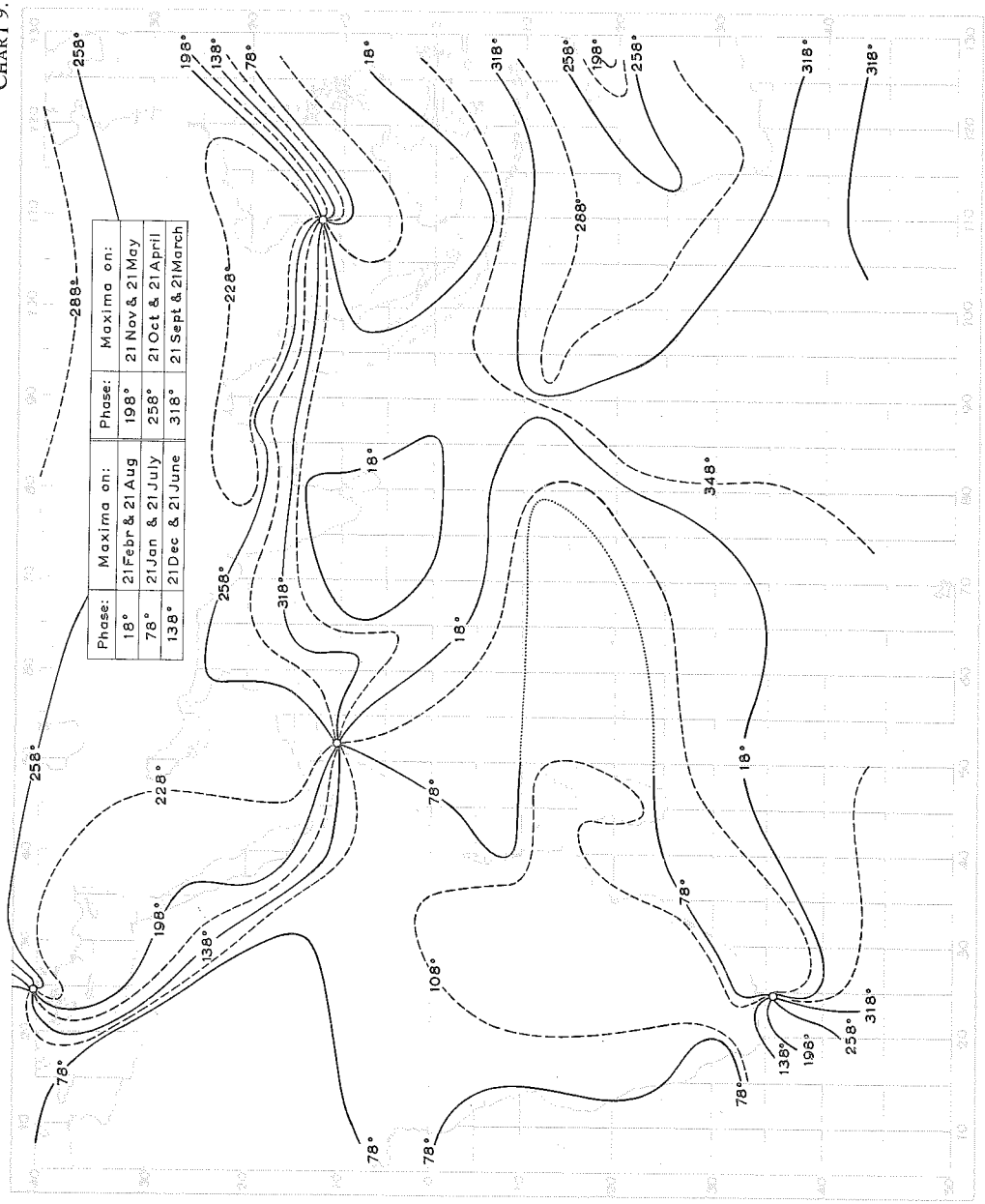
Phase (φ_1) of the annual harmonic pressure variation.

CHART 8.



Amplitude (a_2) of the semi-annual harmonic pressure variation.

CHART 9.



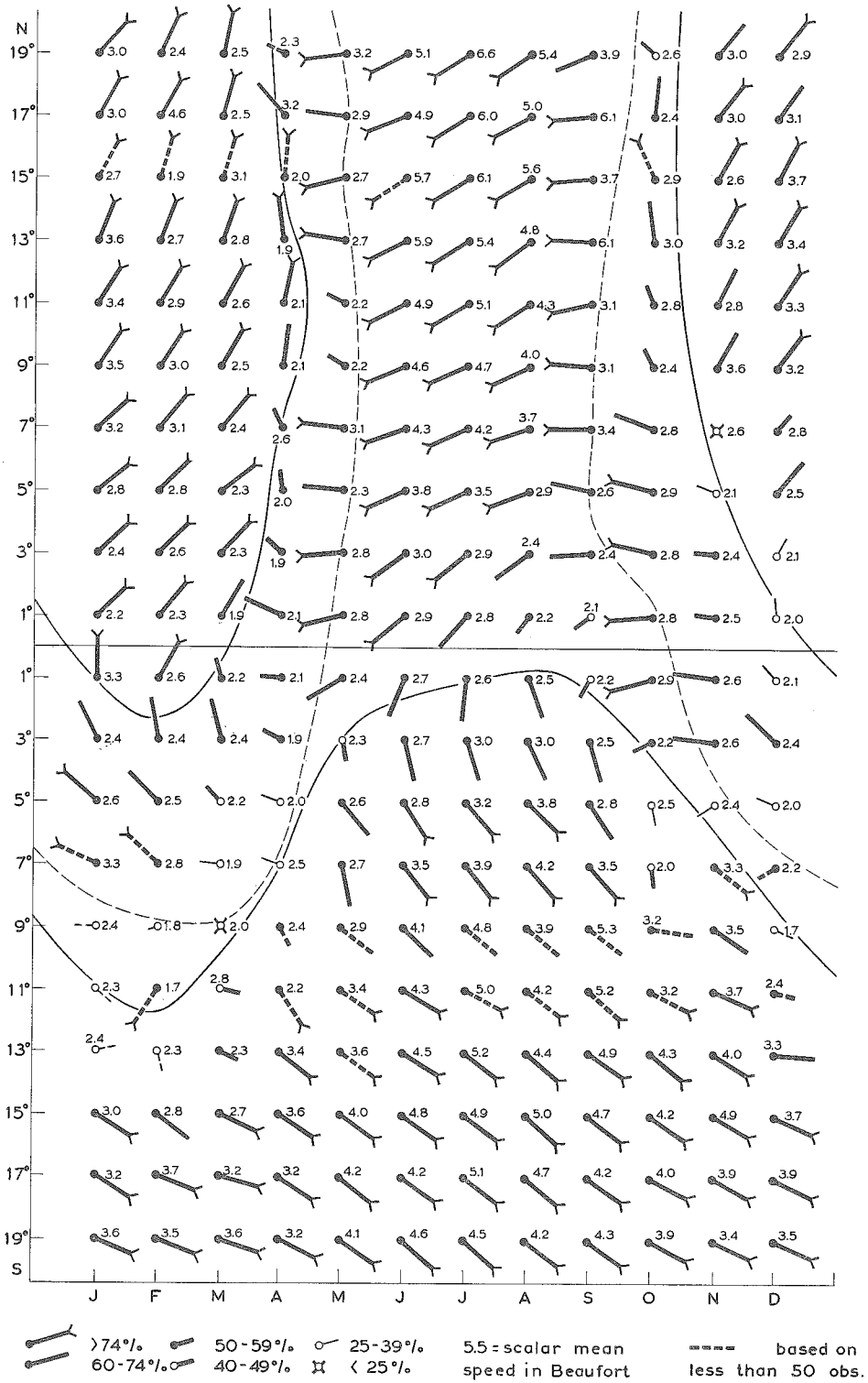
Phase (φ_2) of the semi-annual harmonic pressure variation.

CHART 10.



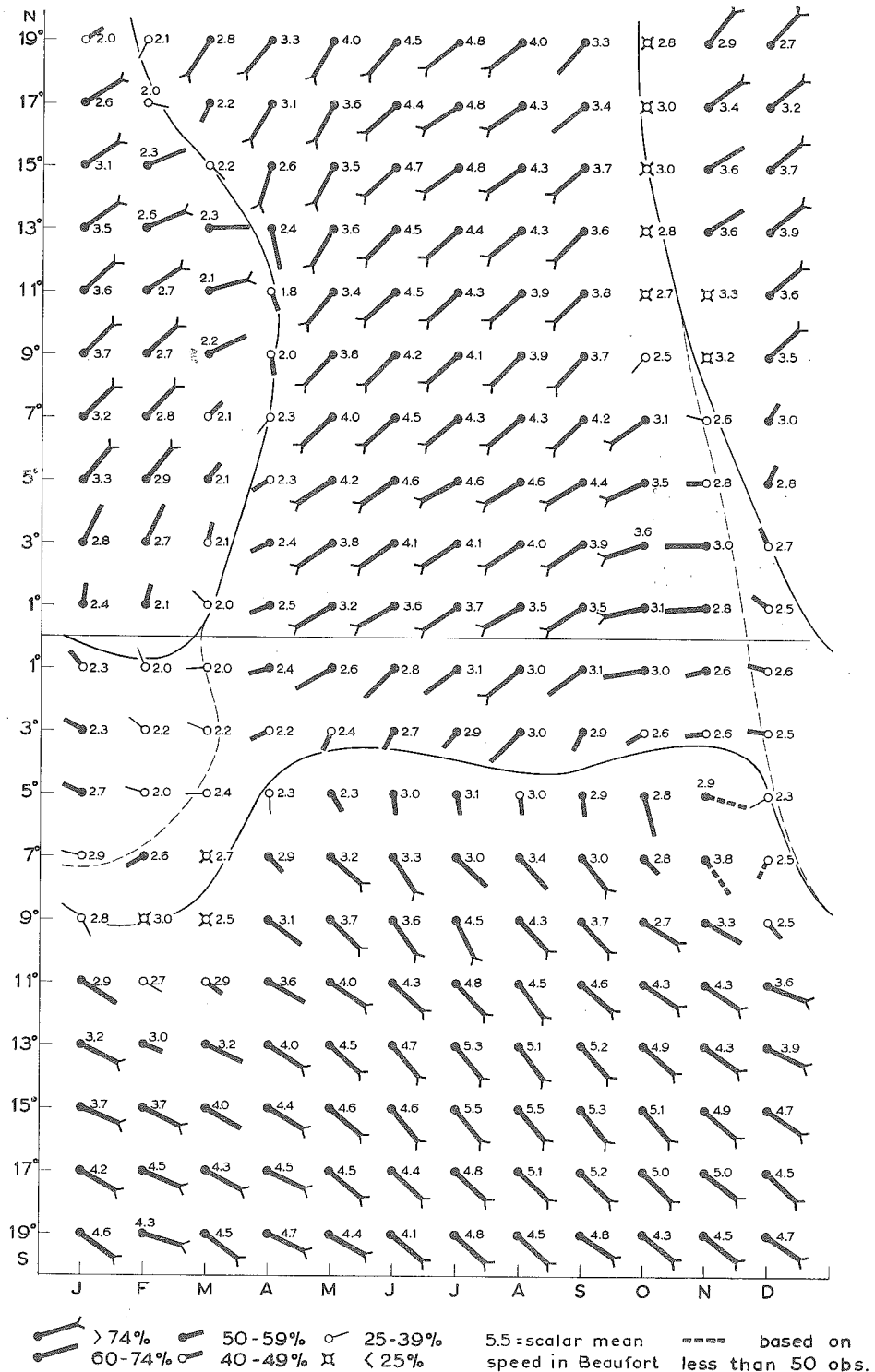
Position of meridional strips for which diagrams of winds and sea currents have been constructed.

CHART 11.



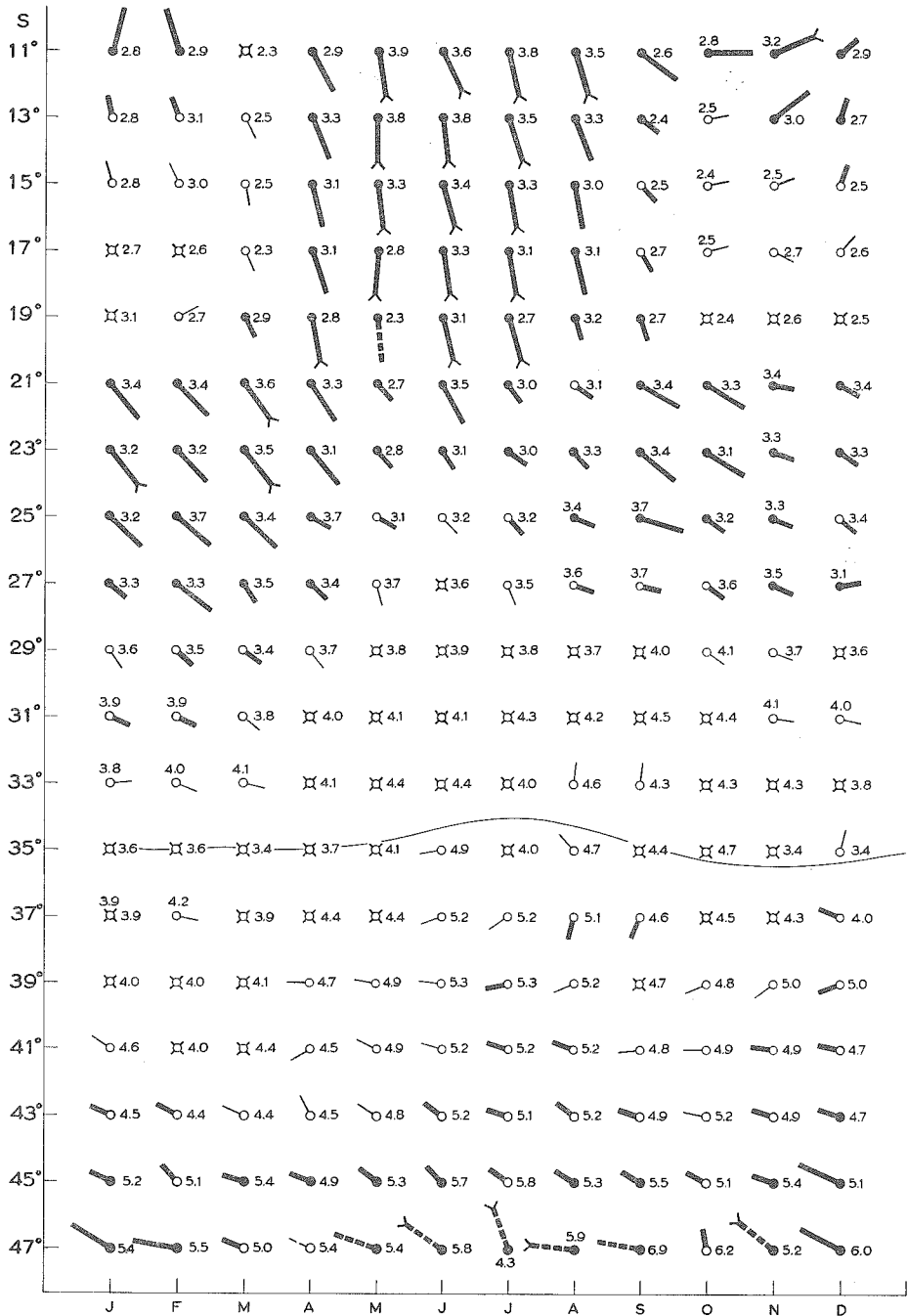
Direction and constancy of mean wind vector and scalar mean wind force in the meridional strip between 62°—68° E.L. Total number of observations: 164.025.

CHART 12.



Direction and constancy of mean wind vector and scalar mean wind force in the meridional strip between 82°—88° E.L. Total number of observations: 194,142.

CHART 13.

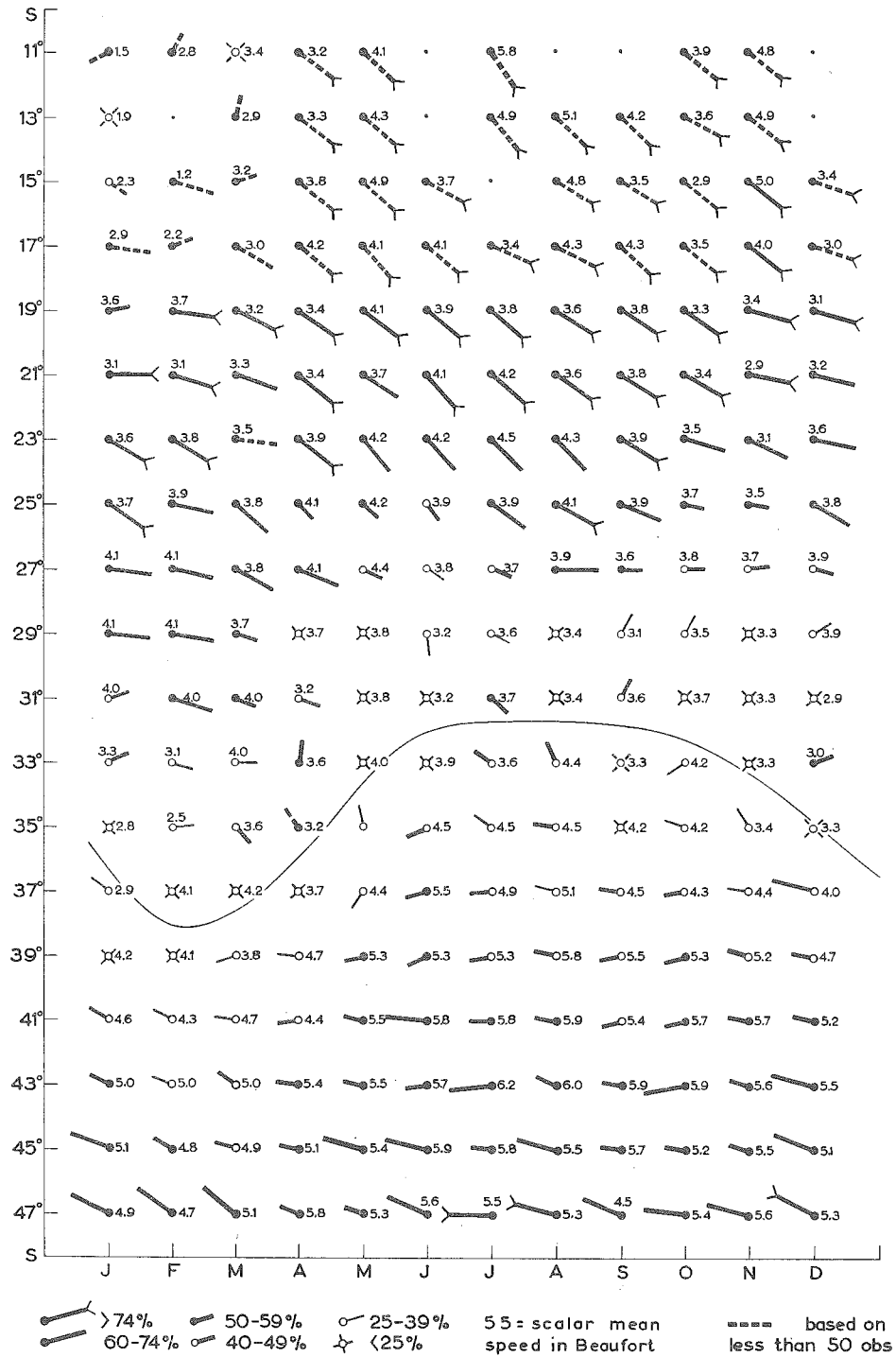


>74%
 50-59%
 25-39%
 5.5=scalar mean
 based on speed in Beaufort
 less than 50 obs.

60-74%
 40-49%
 < 25%

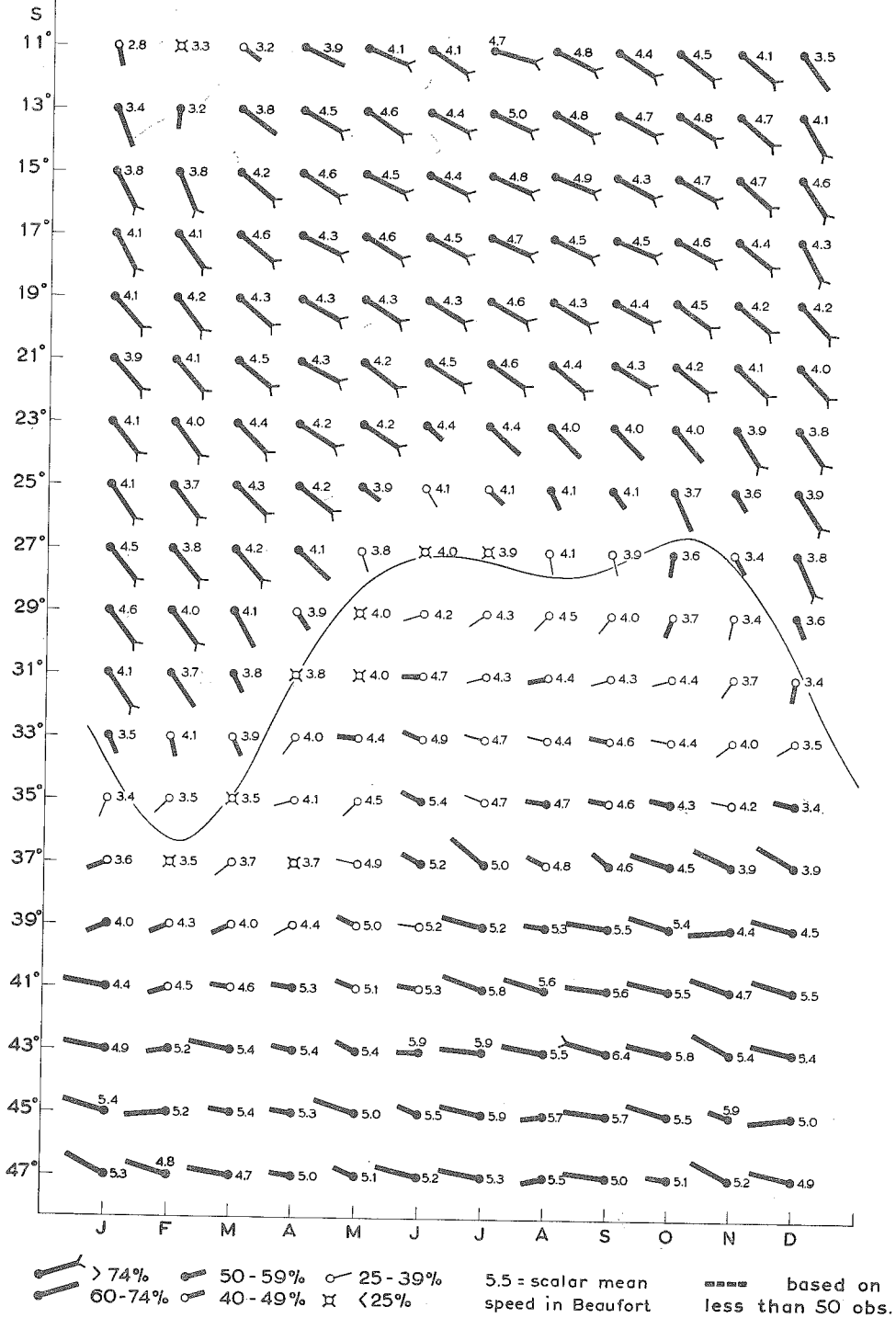
Direction and constancy of mean wind vector and scalar mean wind force in the meridional strip between 34°-40° E.L. south of latitude 20 S and between 40°-44° E.L. from latitude 10 S to 20 S. Total number of observations: 97,518.

CHART 14.



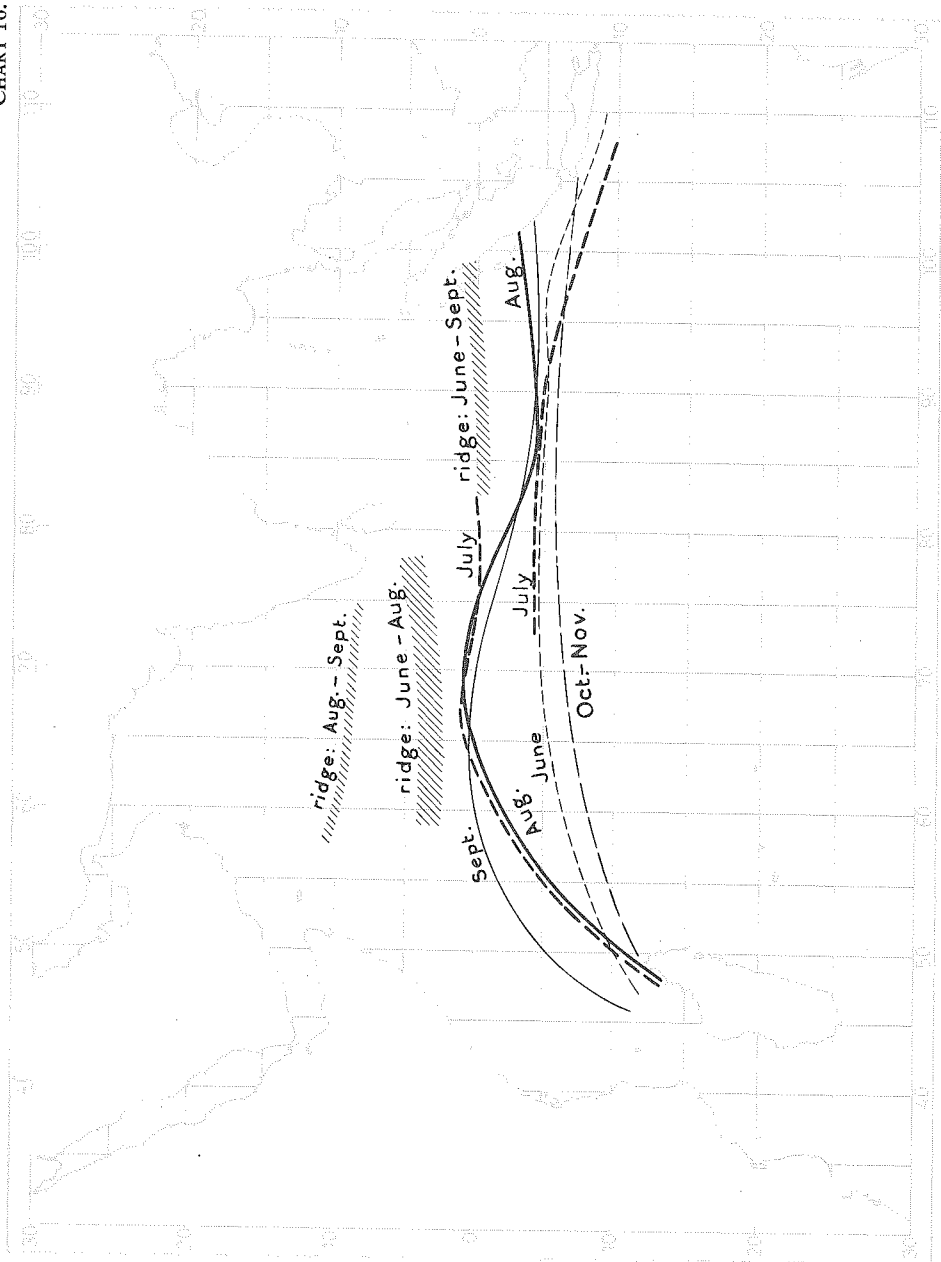
Direction and constancy of mean wind vector and scalar mean wind force in the meridional strip between 54°—60° E.L. Total number of observations: 61,680.

CHART 15.



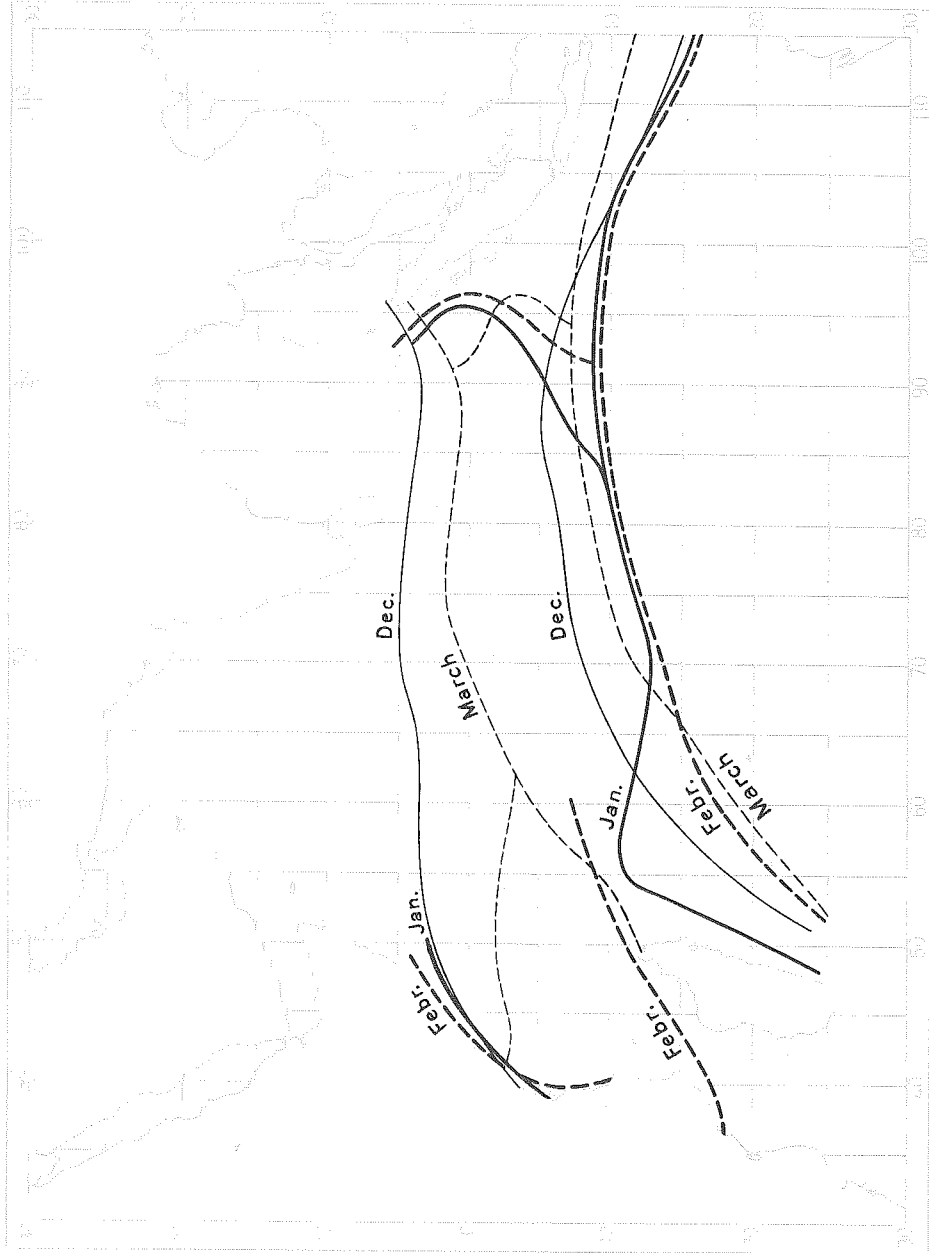
Direction and constancy of mean wind vector and scalar mean wind force in the meridional strip between 100°—106° E.L. Total number of observations: 107,926.

CHART 16.



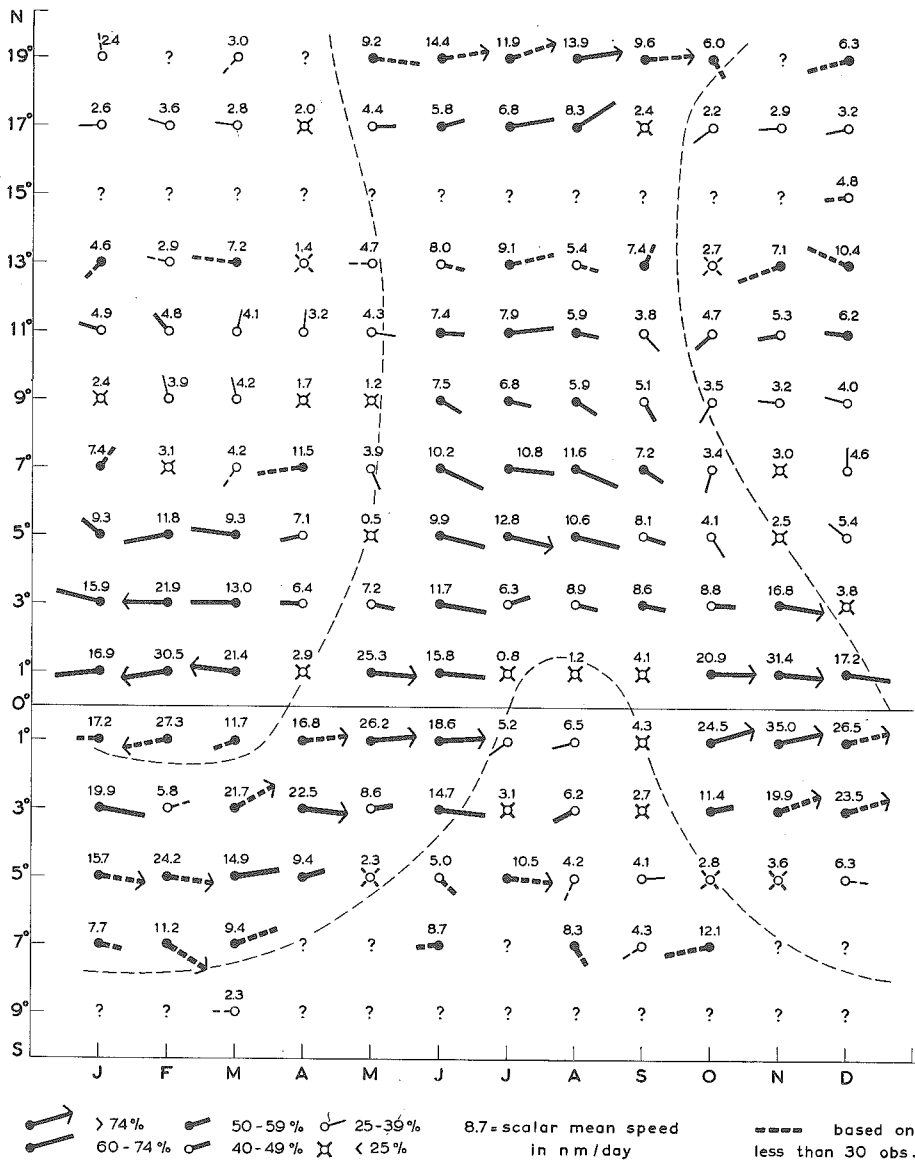
Average positions of the equatorial troughs of low pressure and weak ridges of high pressure in the months June to November.

CHART 17.



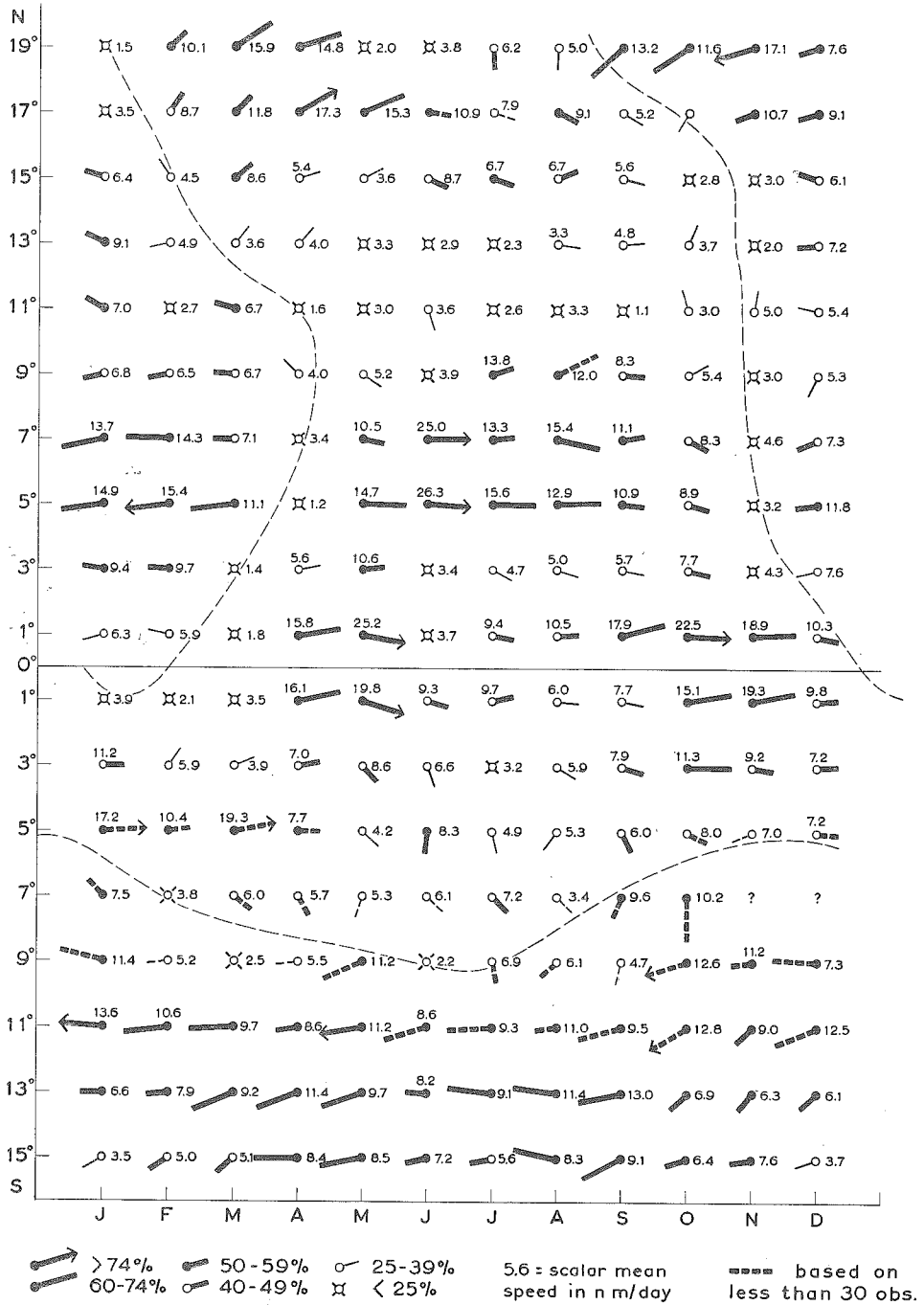
Average positions of the equatorial troughs of low pressure in the months December to March.

CHART 18.



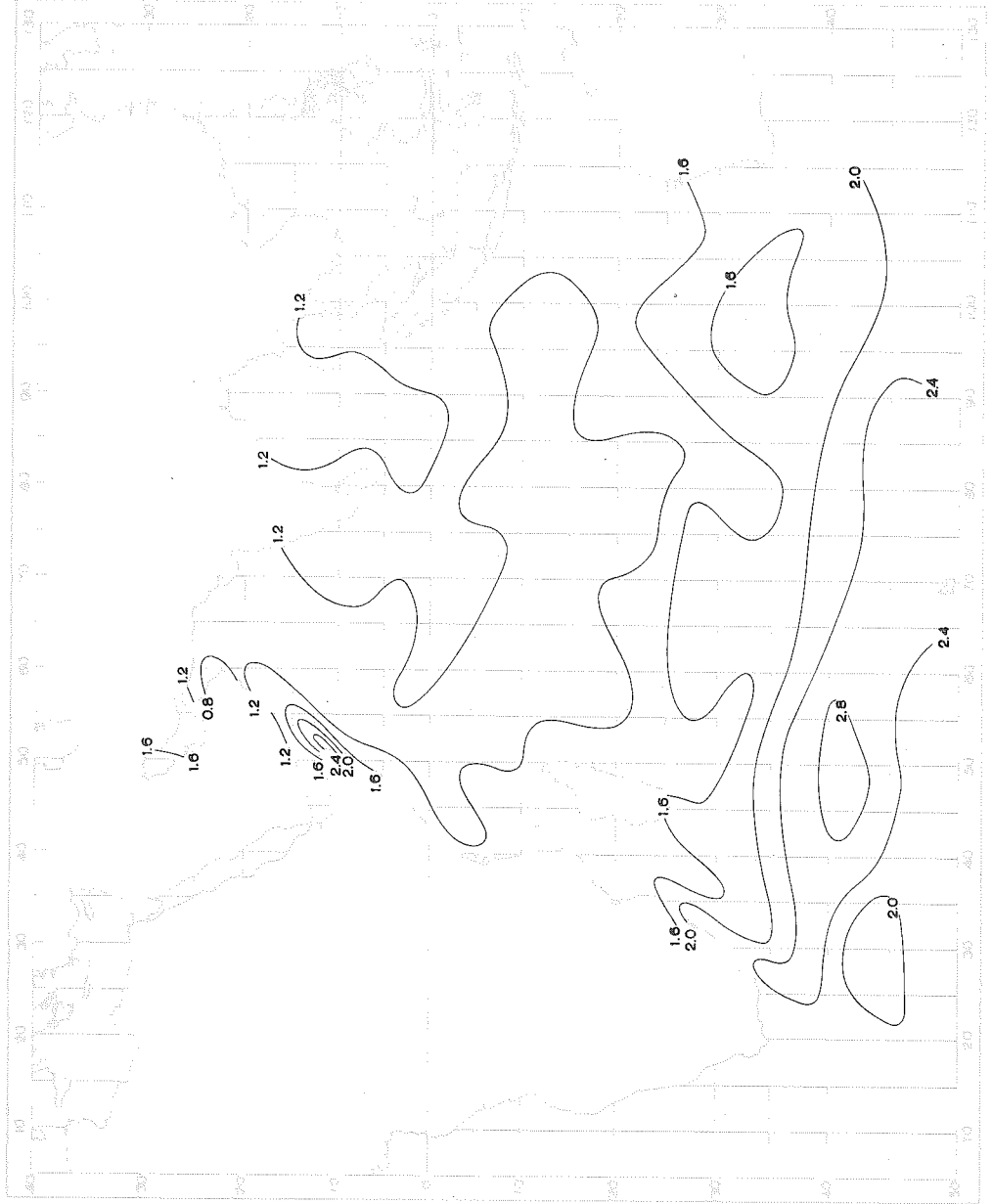
Direction and constancy of mean sea current vector and scalar mean current velocity (naut. miles per day) in meridional strip between 62°-68° E.L. Total number of observations: 30253.

CHART 19.



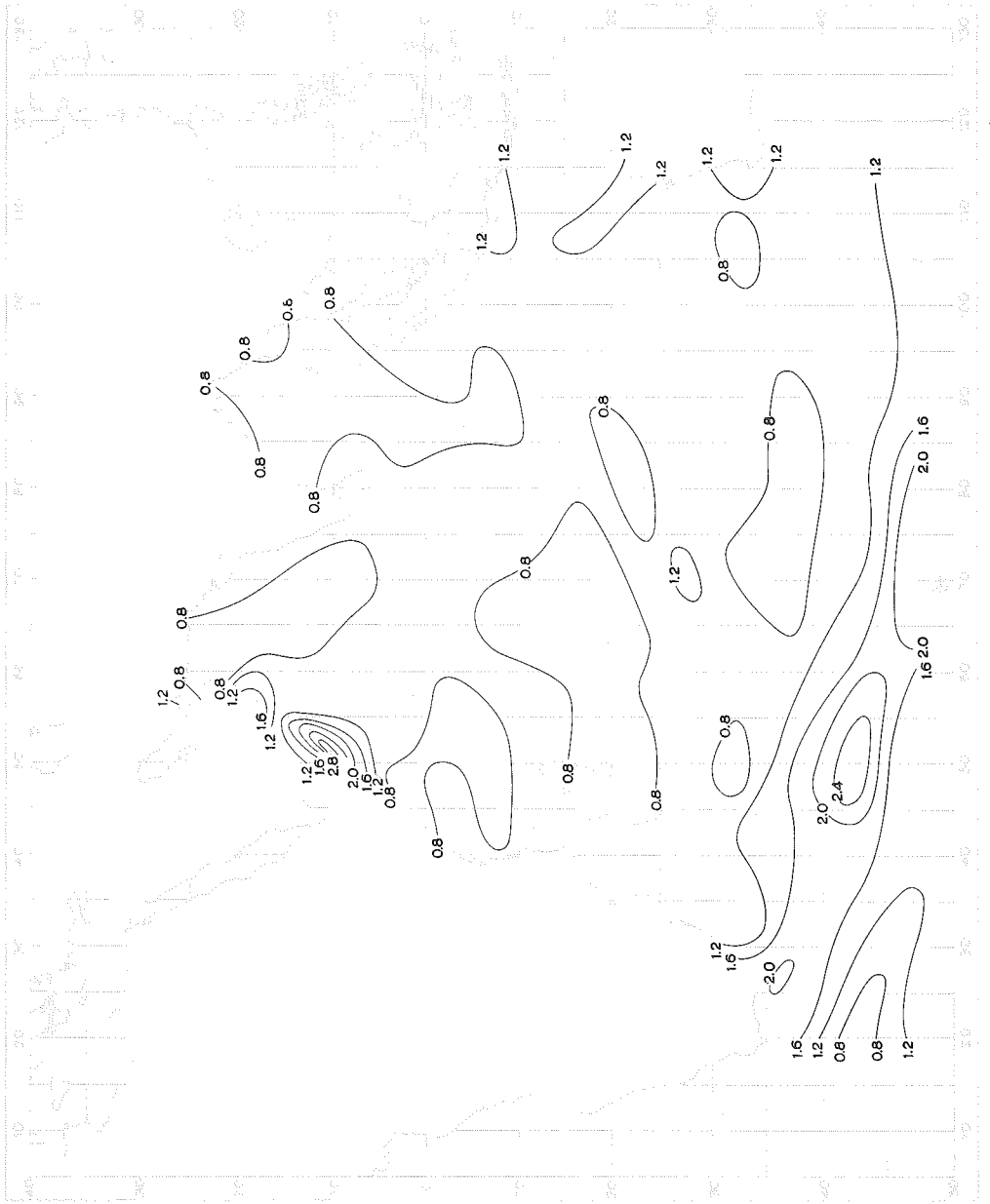
Direction and constancy of mean sea current vector and scalar mean current velocity (naut. miles per day) in meridional strip between 82°-88° E.L. Total number of observations: 31596.

CHART 20.



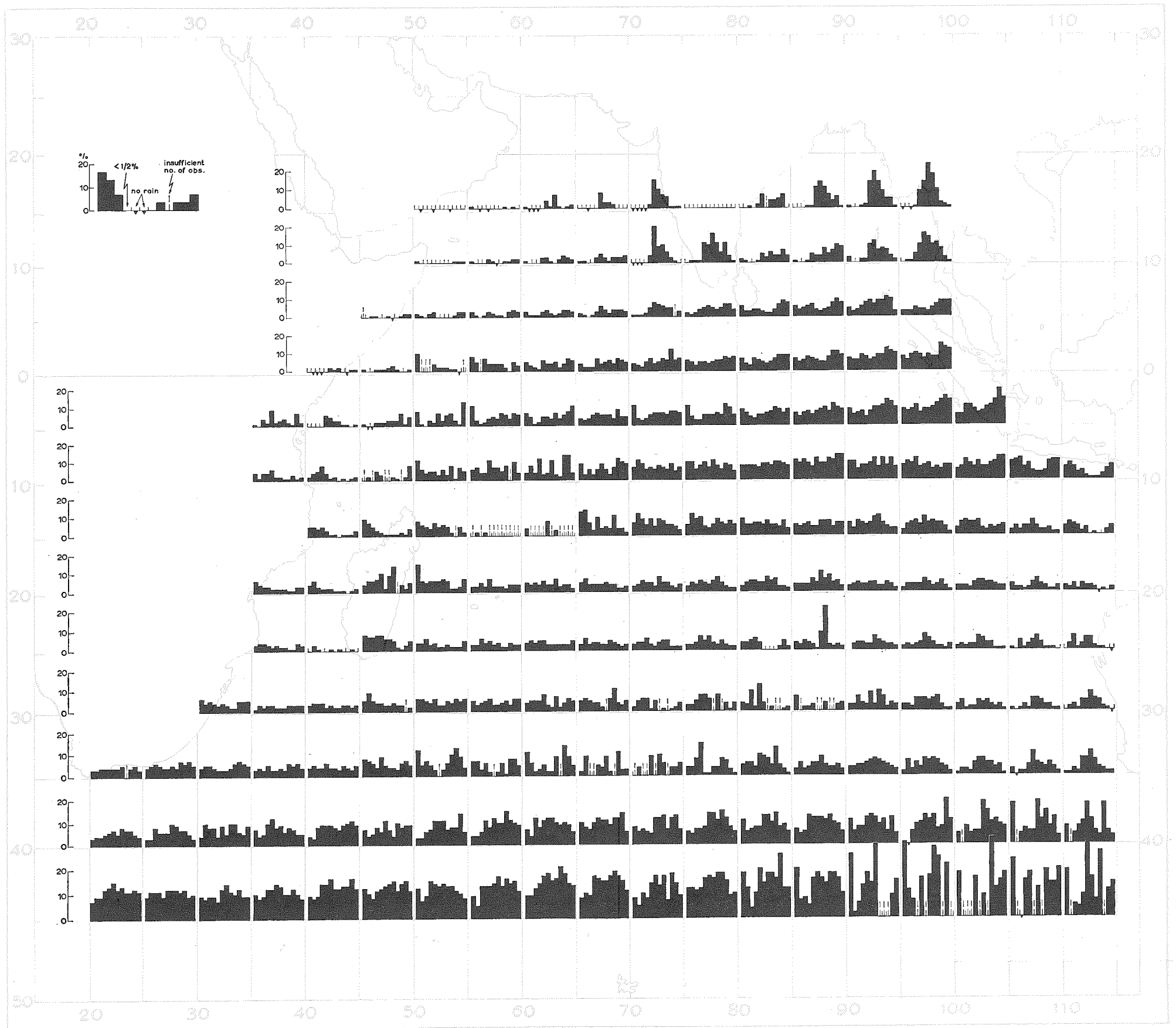
Standard deviation of air temperature (°C) — August.

CHART 21.



Standard deviation of sea surface temperature (°C) — August.

CHART 22.



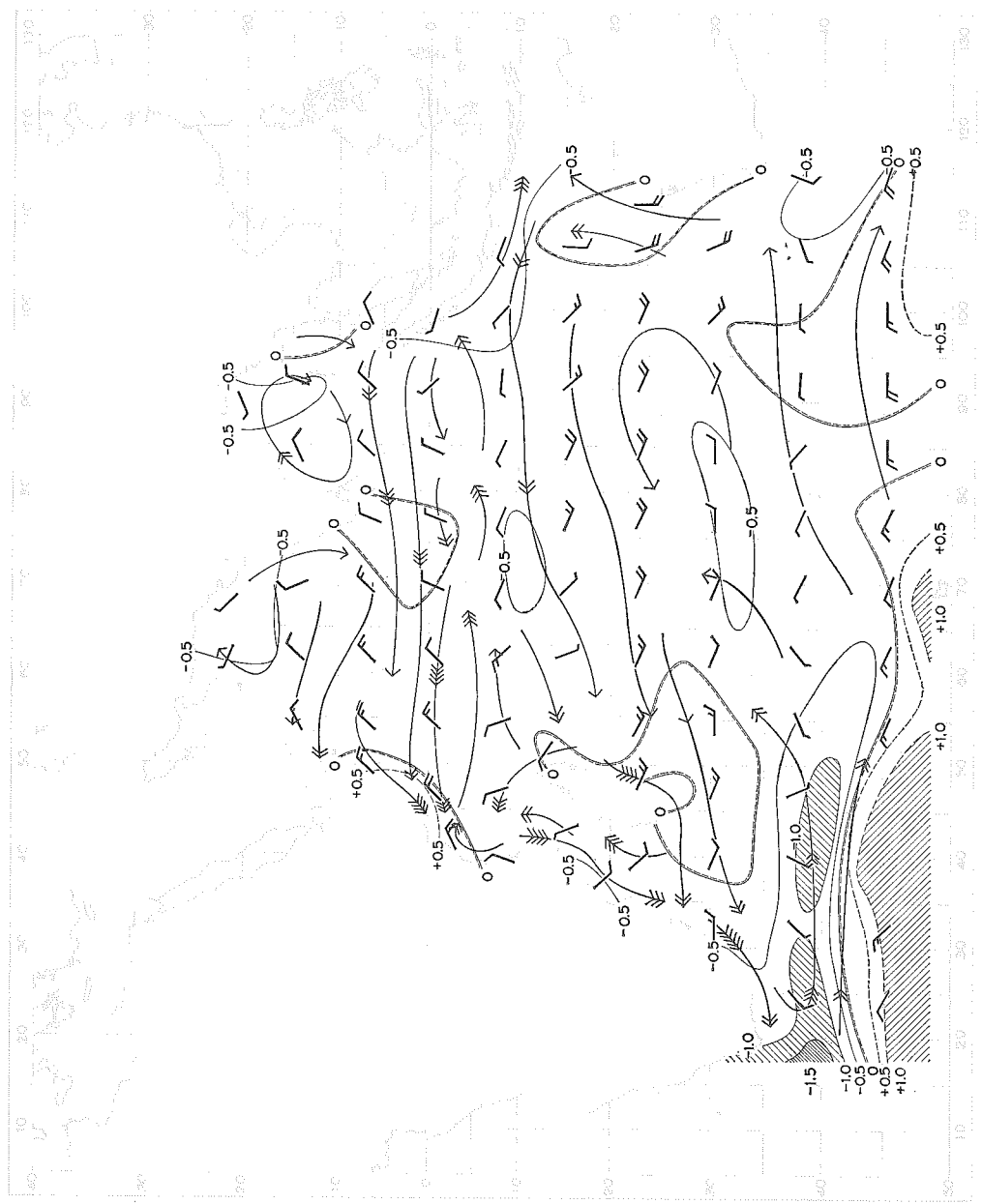
Annual variation, January through December, of the precipitation frequency in 5° squares. The duration of rainfall has been reported in time units of $\frac{1}{4}$ hour.

CHART 23.



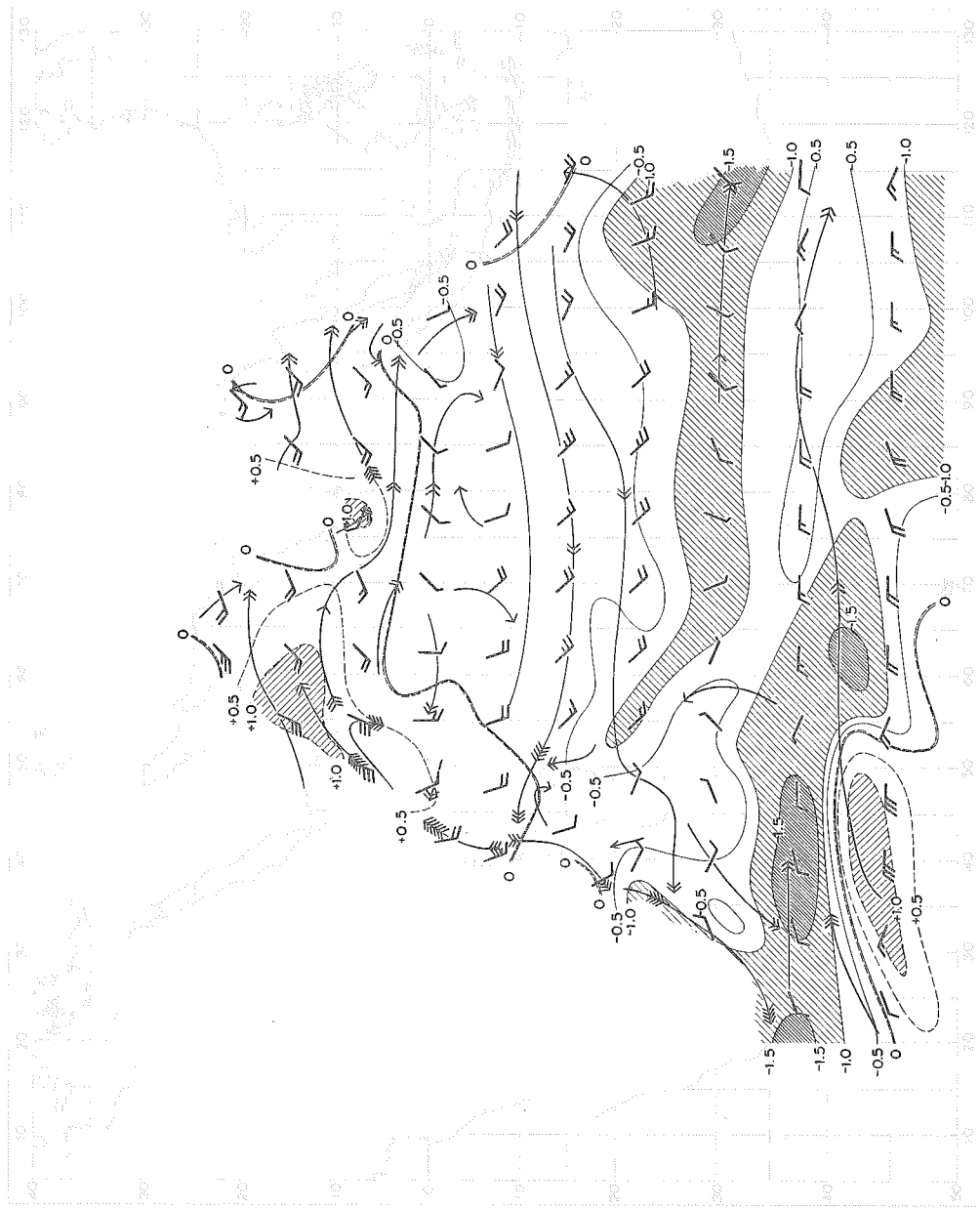
Annual range of air temperature ($^{\circ}\text{C}$), defined as the difference between maximum and minimum temperature.

CHART 24.



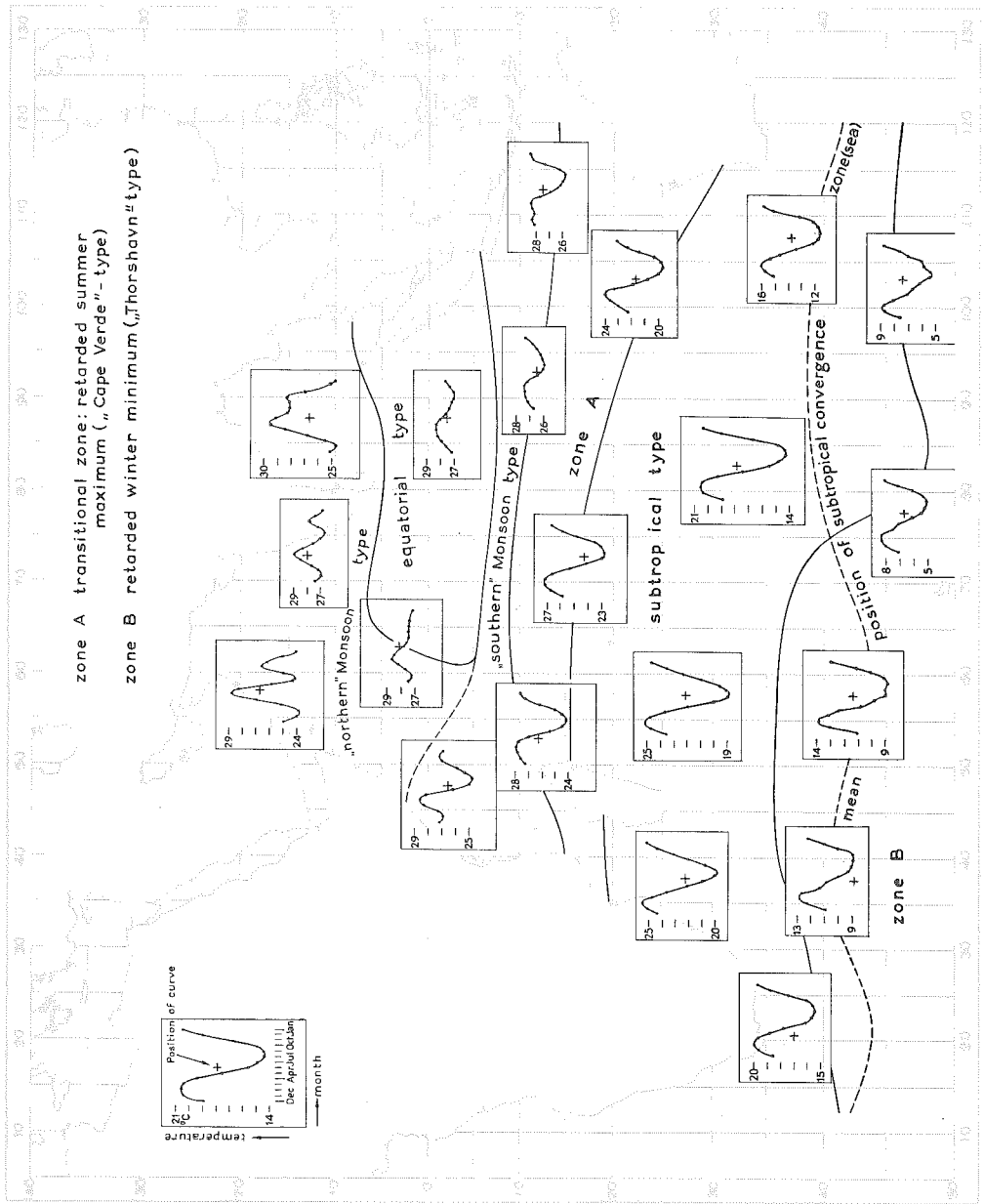
Distribution of mean differences of air-sea temperature, circulation of surface water and mean wind vectors in February.

CHART 25.



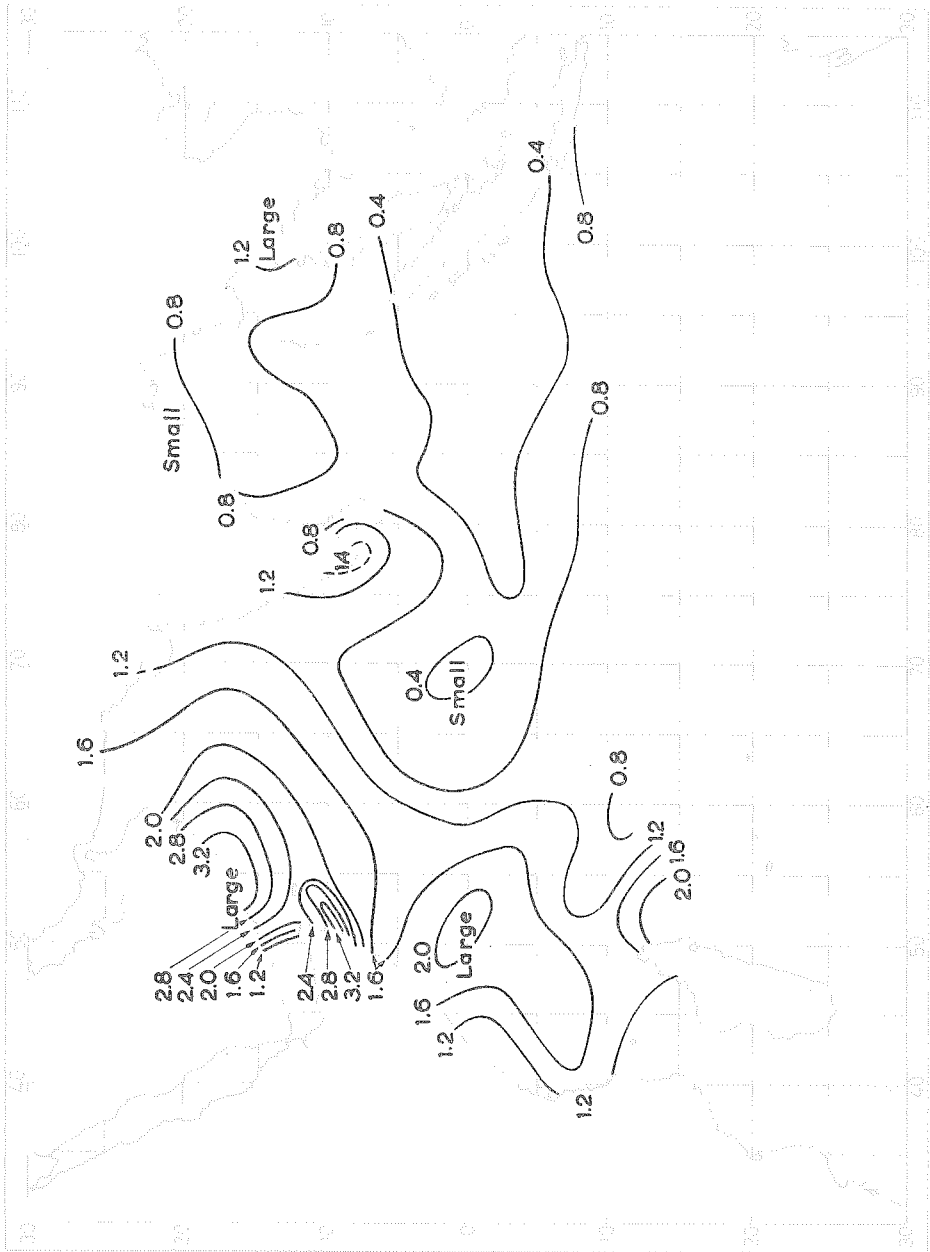
Distribution of mean differences of air-sea temperature, circulation of surface water and mean wind vectors in August.

CHART 26.



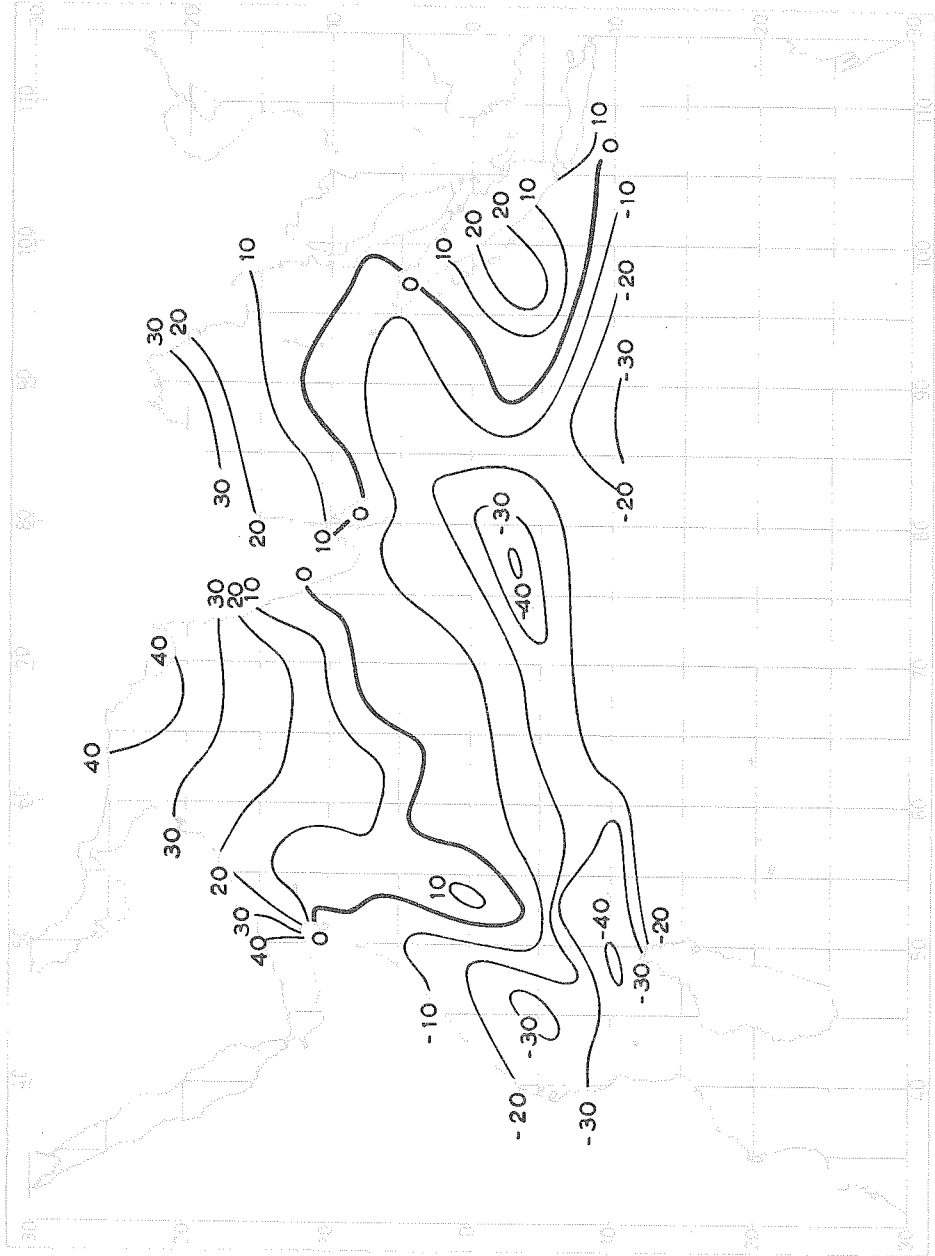
Classification of the annual variation of the air temperature on the basis of the form of the curves.

CHART 27.



Maximum rate of fall of sea temperature between May and August (in tropics between April and August). Data given in units of °C/month.

CHART 28.



Dates of spring maximum of the annual variation of the sea temperature between April and June. 1 = May 1st, 2 = May 2nd, etc.; 0 = April 30th, -1 = April 29th, etc.

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