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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

ANNUAL REPORT

*for the year*

1958

*Presented to the Governor*

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Falkland Islands and Dependencies Meteorological Service

ANNUAL REPORT

FOR THE YEAR

1958

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# Annual Report on the Falkland Islands and Dependencies

## Meteorological Service for 1958

### 1. Introduction

The Meteorological Service (which was established in 1950) is the official Service of the Falkland Islands and Dependencies. It is constituted as an integral part of the Falkland Islands Dependencies Survey (F.I.D.S.) because most of its stations are in the Antarctic Dependencies, but also includes the forecasting stations at Grytviken, South Georgia and at Stanley, Falkland Islands. The Headquarters of the Service is at Stanley. In addition to the F.I.D.S. Service, limited observations were received from three stations in the Falklands, and these were also supervised by Stanley. Additional information was received from the Royal Society base at Halley Bay and the United States Weddell Sea base, Ellsworth.

The chief Meteorological Officer is responsible to the Governor for the efficiency of the Service. The Director-General, Meteorological Office, Air Ministry, London, in agreement with the Colonial Office, is the controlling authority for the Headquarter's Meteorological Office at Stanley. He is also the controlling authority, through the Chief Meteorological Officer, of the Falkland stations and of the technical work of the meteorological staff at Dependencies' bases. The service is represented in the international field by the appropriate United Kingdom Department, but the Chief Meteorological Officer deals with routine matters such as the distribution of synoptic and climatic data. General policy is directed by the Governor after consultation, as required, with the Secretary of State for the Colonies.

The general functions of the Service are :-

- (i) Provision of forecasting services for the whaling fleets operating in the waters of the Falkland Islands and Dependencies, and for any aircraft in these areas.
- (ii) Provision of local forecasts in the Falkland Islands for the general public, shipping and the Government Air Service.
- (iii) Provision of surface and aviation forecasts, as required by "daughter" stations (Ellsworth, Halley Bay).
- (iv) The organisation of meteorological observations in the Falkland Islands and Dependencies, and the broadcasting of this information in the form of collective synoptic messages.
- (v) The collection and re-broadcasting of synoptic information from ships in the area, and from "daughter" stations.
- (vi) The collection and publication of climatic data.
- (vii) Limited investigations into the meteorology of the Falkland Islands and Dependencies area.

The cost of the Service is carried mainly on the Falkland Islands Dependencies budget with a contribution, for the Falklands stations, from the Colony. The estimates for the financial year 1958-1959 are shown at Appendix I; these figures cover technical services only, and exclude such items as food, clothing and transport, which are largely provided by the F.I.D.S. organisation.

### 2. Forecasting Services

(a) Stanley. - Local forecasts for the Falkland Islands were broadcast daily at 1515 and 2115 G.M.T. throughout the year for the benefit of farmers, shipping in nearby waters, and the general public. An additional forecast at 0130 G.M.T. was broadcast from the 1st January to the 15th March. Information was supplied, on request, to the Government Air Service, which operates within the Falkland Islands, and forecasts were issued to the following ships while operating south of the River Plate - R.R.S. John Biscoe, R.R.S. Shackleton, H.M.S. Protector, H.M.S. Burghead Bay, R.M.S. "Darwin", and S.S. "Garry Bank". The 1957-1958 pelagic whaling season ended in March, and the advertised forecast bulletins for ships operating south of 50° S, in the sector 70° to 40° W, were discontinued on the 18th. In the 1958-1959 whaling season, twice daily forecast bulletins for the same area commenced on the 1st December at 1500 and 2130 G.M.T. Full details of these bulletins, including bulletins issued from South Georgia, are contained in the "Weather Messages" pamphlet issued in March 1957.

Area analyses were supplied every second day to the Scientific Officer at Argentine Islands.

Several aviation forecasts were supplied to the United States Weddell Sea base, Ellsworth.

Numerous forecasts were supplied to sledging bases during survey operations.

(b) South Georgia. – The advertised forecast bulletins for pelagic whaling vessels in the sector  $40^{\circ}$  to  $10^{\circ}$  W, south of  $50^{\circ}$  S, were issued until the 18th March. During the winter local area forecasts were issued twice daily at 1515 and 2115 G.M.T. For the 1958–1959 whaling season, broadcasts were introduced in stages during December, with the full programme of forecasts at 0215, 1515 and 2115 G.M.T., operative by the 28th.

Ships receiving individual forecasts during the year included the following :—  
Conquistador, Southern Satellite, Southern Harvester, Southern Venturer, Southern Garden, Southern Opal, Teie, R.R.S. John Biscoe and H.M.S. Protector.

### 3. Reporting Stations

Full synoptic observations at 0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 and 2300 G.M.T., were made at Stanley, South Georgia, Signy Island, Admiralty Bay, Deception Island, Hope Bay, Argentine Islands and Horseshoe Island. At Loubet Coast full observations were done until the end of July, but due to a necessary re-arrangement of staff (see Staff below) the programme of observations was restricted from the 1st August to 0000, 0600, 1200, 1800 and 2300 G.M.T. Pilot balloon ascents were made whenever possible.

The observations were made in the code forms, FM 11.A and pilots in form FM 32.A as amended by the instructions for Regional Codes for Antarctica during the International Geophysical Year. The collection of observations was made in eight radio schedules daily, (see Communications below).

Observations were also received throughout the year from Halley Bay and Ellsworth.

Subsidiary stations were maintained in the Falkland Islands at Fox Bay and Darwin. Observations at these stations were made daily at 1200 G.M.T. The observer at West Point Island continued to report wind, weather and cloud at 1200 G.M.T. The reports were of a high standard and were very useful for briefing the local Air Service. Observations were taken with sufficient regularity to form the basis of monthly and annual climatological summaries. In addition, monthly rainfall returns were rendered by several farmers.

At Argentine Islands the daily radio-sonde ascent was made at 1200 G.M.T. In addition, an extra daily ascent at 0000 G.M.T. was made during the World Meteorological Intervals of the International Geophysical Year, dates being as follows : 17th March to 26th March, 15th June to 24th June, 13th September to 22nd September, and 12th December to 21st December.

### 4. Ship Reports

(a) Vessels registered in the Falklands, visiting H.M. Ships and Auxiliaries.

Full synoptic reports were received from R.M.S. "Darwin", R.R.S. John Biscoe, R.R.S. Shackleton, the S.S. "Garry Bank" and M.V. "Tottan" when in the area; also from H.M. Ships and Fleet Auxiliaries when operating to and from the Falkland Islands. A number of reports were received via the Radio Station at Grytviken from Tankers and supply vessels en route to or from South Georgia. In addition, some observations were received in the early part of the year from the United States supply ship "West Wind" while operating in the Weddell and Bellingshausen Seas. All available reports were included in FICOL collective messages broadcast from Stanley. A number of messages were received during December either direct or via South Georgia, from factory whaling ships which were unable to contact South Africa.

(b) Whaling Vessels 1957–1958 season.

South Africa transmitted collective messages of whaling ship reports, as in the previous season, at 1215 G.M.T. Reports from Tristan da Cunha and Gough Island were again included. A total of 757 reports was received from January to March, of which 240 were in the Stanley and South Georgia forecast areas, and about 25 more to the west of the Stanley area in the Bellingshausen Sea.

(c) Whaling Vessels 1958–1959 season.

The time of the South African transmission was changed in early December to 0930 G.M.T. During December 602 reports were received with 102 in forecast areas and about 5, West of 70° West, in the Bellingshausen Sea.

During the 1957-58 season, the beginning of the collective was missed on several occasions due to overlapping of the routines for the collection of observations from Antarctic bases.

## 5. Communications

Details of collections, and re-broadcasts of observations, (FICOLS), are given in Appendix II. The following points may be noted.

In addition to the frequencies given in the Appendix, a third frequency was always maintained. During January and February a frequency of 9800 kc/s was used and the transmissions beamed by Rhombic aerial to the United States Antarctic Weather Central, Little America. From the 1st March onwards an ordinary Dipole was used with a frequency, usually, of 9100 kc/s. This was changed at the request of the South African Weather Bureau to 5100 kc/s during the following periods :

- (a) From the 7th June to the 12th July at 0430, 0645 and 1030 G.M.T., and
- (b) From the 1st July to the 12th October at 2400 G.M.T.

To help with the completion of climatological returns, the 0000 G.M.T. observations were collected at 0300 G.M.T. but were not re-broadcast.

The results of pilot balloon ascents were included, as available, as well as upper air data from Argentine Islands, the Air Ministry Radio-sonde Unit at Stanley, Halley Bay and Ellsworth. Monthly CLIMAT messages were received and re-broadcast on all FICOLS on the 4th and 5th of each month.

In addition, special World Interval (S.W.I) Warnings were received daily from Dunstable. These were sent by telephone to the Radio Research Sub-Station in Stanley, and were re-broadcast on the 2215 and 2400 G.M.T. FICOLS for the benefit of Port Lockroy and Halley Bay.

Observations from the Falklands Out-Station were collected throughout the year by the Government R/T Operator.

Communications with Antarctic bases, Halley Bay and Ellsworth were satisfactory.

Contacts with Little America were not very satisfactory. They reported very variable reception of FICOLS, and, interchange of administrative messages was usually subject to some delay.

The forecast bulletins issued at Stanley for the whaling fleets were sent on two frequencies simultaneously, as follows :

1957-1958 Season		
Time (G.M.T.)	Main Transmission	Second Transmission
0200	9800 kc/s	7425 kc/s
1500	9800 kc/s	7425 kc/s
2130	9800 kc/s	7425 kc/s
1958-1959 Season		
Time (G.M.T.)	Main Transmission	Second Transmission
1500	9100 kc/s	7425 kc/s
2130	9100 kc/s	7425 kc/s

Local area forecasts were issued on 3700 kc/s throughout the year.

In choosing frequencies for FICOLS and other broadcasts, use was made of frequencies predictions received from the Radio Research Sub-Station, Stanley.

Up to 27th August, main transmissions of FICOLS were made on a Marconi SWB.8Q Transmitter, with a power out-put of about 3.5 kw. From 28th August onwards this was replaced by a Marconi SWB.11Q transmitter generating about 7 kw. Secondary transmissions were made on an R.C.A. Transmitter, type ET.4336B, with a power out-put of about 0.35 kw.

The main transmissions for the whalers were made on a Marconi SWB.8 Minor, generating about 1.5 kw. with the secondary transmissions again on R.C.A.

This SWB. 8 Minor was also used for the additional FICOL broadcasts on 9800 kc/s, 9100 kc/s and 5100 kc/s (see above).

Little difficulty was experienced when communicating with R.R.S. "John Biscoe" or R.R.S. "Shackleton", and it is therefore assumed that reception is satisfactory for whaling ships although no actual reception reports were received from these vessels.

At South Georgia, issue of forecasts was undertaken by the Government W/T Station (ZBH), the transmissions at 1515 G.M.T. being made on the two frequencies, 8642 and 500 kc/s, and at 0215 and 2115 G.M.T. on 8642 kc/s only, the power out-put being about 0.8 kw.

Both Stanley and South Georgia Meteorological Offices listened regularly to the Argentine (LSV) and Chilean (CCS) National broadcasts. Reception of these broadcasts was only moderately satisfactory. On a few occasions it was also possible to listen to broadcasts from South Africa, Australia, New Zealand and Little America, but this listening was severely limited owing to pressure of traffic at the Radio Station.

In addition to normal synoptic and administrative traffic, the W/T Section also handled private letter telegrams for base personnel with a maximum of 200 words per month free. A similar service of 100 words per month, per man, in the opposite direction, was also maintained.

## 6. Climatological and other Reports

The usual climatological returns were made by the bases.

The Annual Meteorological Tables for 1955, 1956 and 1957 were printed and distributed.

The Daily Weather Report was issued throughout the year.

International Geophysical Year Forms 1 and 4 for Stanley, South Georgia and the bases were completed at Stanley and sent in batches, monthly, to Air Ministry for onward transmission to the World Meteorological Organisation. Upper Air Forms 3 were completed at Argentine Islands.

A reply was received from the Windmill Research Association regarding the analysis of wind speed records at Sapper Hill, and this was sent to the Secretariat, Stanley.

F.I.D.S. Scientific Report No. 16 "Notes on Weather Analysis in the Falkland Island Dependencies, Antarctica", by A. W. Mansfield and S. D. Glassey, was published.

The Annual Report for 1957 was completed.

## 7. Organisation

There were no changes in organisation.

At Stanley work on solar radiation continued, and at Argentine Islands measurements of solar radiation, atmospheric ozone and terrestrial magnetism were made.

The Chief Meteorological Officer visited South Georgia early in the year and left for the northern bases in mid-November. The Senior Meteorological Assistant at Stanley made a brief tour of the Antarctic bases in April and visited the Falkland Islands Stations in October.

## 8. Staff

At Stanley a third forecaster arrived during September. Two new Assistants and one returning from compassionate leave arrived in January, and one Assistant left for the United Kingdom at the end of October.

At South Georgia the meteorological staff remained unchanged throughout the year. A new Wireless Operator was engaged to assist the meteorological staff at the beginning of the 1958-59 whaling season.

On the bases all stations had full complements of at least four Assistants for much of the year. During July, however, the staff of Horseshoe Island was unfortunately depleted by the sad loss of two Meteorological Assistants and a Diesel Mechanic. This necessitated some re-arrangement between this base and Loubet Coast, and at the end of the year both bases were working with a staff of three Meteorological Assistants.

The Radio staff at Stanley was unaltered for much of the year.

## 9. Instrumental Equipment

All supplies were handled by the Crown Agents for Oversea Governments and Administrations with the help and advice of the British Meteorological Office, from whom some of the equipment was purchased. There were no difficulties.

## 10. International Co-operation

Copies of the Daily Weather Report (see Climatological and other Records), were sent to the following Meteorological Services:

Bad Kissengen, Hamburg, France, Chile, Montevideo, Buenos Aires, Australia, New Zealand, Madagascar, England, United States of America, Union of South Africa, Mozambique.

and also to

The Napier Shaw Library, Cambridge, Scott Polar Research Institute, Cambridge, Smithsonian Institute, Washington, and Mr. Arnold Court, California.

117 copies of the 1957 Report and 679 copies of the 1955, 1956 and 1957 Annual Meteorological Tables were distributed to Institutions and individuals all over the world.

At the request of the South African Weather Bureau special frequencies were used for FICOLS from the 7th June to the 12th October (see 5. para. 2).

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## APPENDIX I

### *Provision in Dependencies Estimates for Meteorological Services, July 1958 - June 1959*

#### HEADQUARTERS

					£
Head 4A	Personal Emoluments	...	...	...	11,245
.. 4B	Other Charges (Stores, Equipment, etc.)	...	...	...	2,030
.. 4C	Special Expenditure (including publications)	...	...	...	1,900
Total Headquarters Expenditure					£15,175

#### SOUTH GEORGIA

Head 1A	Personal Emoluments (Meteorological Staff)	...	...	...	3,220
.. 1B	Meteorological Equipment	...	...	...	350
Total South Georgia Expenditure					£3,570

#### ANTARCTIC REPORTING STATIONS

Head 5A	Personal Emoluments (Meteorological Staff)	...	...	...	18,530
.. 5B	Meteorological Equipment etc.	...	...	...	6,000
.. 5C	Special Expenditure	...	...	...	500
Total Antarctic Bases Expenditure					£25,030
Total Expenditure — F.I.D.S.					£43,775

### *Provision in Colony's Estimates for Meteorological Services, July 1958 — June 1959*

Head VIII 1	Payment to part-time observers	...	...	...	100
.. 2	Contribution towards cost of Headquarters	...	...	...	500
.. 3-5	Stores, Equipment, etc.	...	...	...	195
Total Expenditure — Colony					£ 795
GROSS TOTAL					£44,570

## APPENDIX II

*1st January to 31st May.*

Contents (Times G.M.T.)	Time of transmission G.M.T.	Transmission Frequencies	
		Main (kc/s).	Second (kc/s).
0300 Synops, 0000 Temps. ...	0430	12300	14800
0600 Synops. ...	0645	12300	14800
0900 Synops. ...	1030	19800	14800
1200 Synops. ...	1300	19800	14800
1500 Synops, 1200 Temps. ...	1600	19800	14800
1800 Synops. ...	1900	19800	14800
2100 Synops. ...	2215	12300	14800
2300 Synops. ...	2400	12300	14800

*1st June to 31st December.*

0300 Synops, 0000 Temps. ...	0430	7425	12300
0600 Synops. ...	0645	7425	12300
0900 Synops. ...	1030	19800	12300
1200 Synops. ...	1300	19800	12300
1500 Synops, 1200 Temps. ...	1600	19800	12300
1800 Synops. ...	1900	7425	12300
2100 Synops. ...	2215	7425	12300
2300 Synops ...	2400	7425	12300

In addition a third frequency of 9800 kc/s, 9100 kc/s or 5100 kc/s was used [See 5. para 2].

## APPENDIX III

### Staff List - 1958

#### STANLEY

Chief Meteorological Officer	-	P. A. Canning
Forecasters	-	D. B. B. Powell B. A. Waudby (arrived September)
Senior Assistant	-	R. A. Smith
* Assistants	-	D. J. B. Bolt (arrived January) M. J. Byrne A. F. Lewis J. Stephenson F. S. Waycot (January to October) R. W. Woods
Senior Wireless Operator	-	L. C. Tyson
W/T Operators	-	G. B. Davis I. Joyner J. Newing B. Pinnock S. Ward (till March)
Apprentice W/T Operators		J. E. Cheek C. A. Lehen R. Summers
Clerks	-	D. M. Newing (Mrs) E. Reive (Miss)

\* A number of Assistants served in Stanley for short periods on their way to or from Antarctic bases.



## SOUTH GEORGIA

Forecaster-in-Charge	-	D. Borland
Senior Meteorological Assistant	-	J. Ford
Meteorological Assistants	-	J. Cochran A. Freer

## BASES — WINTER STAFF ONLY.

### DECEPTION ISLAND

Base Leader/Met. Assistant	-	J. E. Dagless
Senior Meteorological Assistant	-	J. Witcombe
Meteorological Assistants	-	K. V. Gibson P. J. Hodkinson

### HOPE BAY

Senior Meteorological Assistant	-	R. M. Koerner
Meteorological Assistants	-	M. J. F. Reuby M. D. Rhodes T. H. H. Richardson R. W. Tufft P. L. Woodall J. D. J. Wildridge

### ARGENTINE ISLANDS

Base Leader/Scientific Officer	-	J. C. Farman
Assistant Scientific Officer	-	D. A. Simmons
Senior Meteorological Assistant	-	B. D. Giles
Meteorological Assistants	-	J. M. Hunt G. J. Roe J. B. Shaw C. M. Smith

### ADMIRALTY BAY

Base Leader/Met. Assistant	-	D. R. K. Stephens
Senior Meteorological Assistants	-	J. L. Franks
Meteorological Assistants	-	D. R. Bell A. Gill

### SIGNY ISLAND

Base Leader/Senior Met. Assistant	-	P. A. Richards
Meteorological Assistants	-	B. Beck A. Sharman J. W. Stammers

### LOUBET COAST

Senior Meteorological Assistant	-	R. Perry
Meteorological Assistants	-	R. H. Hillson (till July) P. O. White J. W. Young

### HORSESHOE ISLAND

Base Leader/Met. Assistant	-	J. Paisley
Senior Meteorological Assistant	-	D. W. McDowell
Meteorological Assistants	-	S. E. Black (deceased July) D. Statham (deceased July) R. H. Hillson (from August)

### FAKLAND ISLANDS OUTSTATIONS — (voluntary observers)

Darwin	-	D. M. Honeyman A. H. Ward *
Fox Bay	-	C. Maddocks
West Point Island	-	H. M. Napier

\* Mr. Ward deputised for Mr. Honeyman for 6 months in the winter.

## APPENDIX IV

### Publications issued during 1958

1. Daily Weather Report.
2. Annual Meteorological Tables 1955, 1956, 1957.
3. Annual Report on the Service for the year 1957.
4. F.I.D.S. Scientific Report No. 16. "Notes on Weather Analysis in the Falkland Islands Dependencies, Antarctica." by A. W. Mansfield & S. D. Glassey.



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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1958

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*Prepared in conjunction with  
The Meteorological Office, London.*

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Published for the Falkland Islands Dependencies Survey,  
Stanley, Falkland Islands, 1960.

# CONTENTS

STATION	NUMBER	POSITION		BAROMETER M.S.L. (ft.)	PAGES
		Latitude	Longitude		
Stanley, Falkland Islands	88890	51° 42' S.	57° 52' W.	173	1 - 46
Grytviken, South Georgia	88903	54° 16' S.	36° 30' W.	8	47 - 59
Signy I., South Orkneys	88925	60° 43' S.	45° 36' W.	23	60 - 71
Hope Bay, Grahamland	88940	63° 24' S.	56° 59' W.	170	72 - 83
Admiralty Bay, South Shetlands	88934	62° 03' S.	58° 24' W.	29	84 - 95
Deception I., South Shetlands	88938	62° 59' S.	60° 34' W.	26	96 - 107
Argentine Is., Grahamland	88952	65° 15' S.	64° 16' W.	36	108 - 142
Loubet Coast, Grahamland	88956	66° 54' S.	66° 48' W.	22	143 - 154
Horseshoe I., Grahamland	88959	67° 48' S.	67° 19' W.	29	155 - 166

## *Introduction*

This series of Tables, which commenced with the data for 1951, is published annually to meet the demands from contemporary expeditions and various research organisations. The Tables published for surface and upper air data for 1957 have been retained in the same form in this issue.

Upper air ascents at Stanley and the Argentine Islands were done daily at 1200 G.M.T. Additional ascents were done at 0000 G.M.T. on the following dates:

17th March to 26th March, 15th June to 24th June,

13th September to 22nd September, 12th December to 21st December.

At Loubet Coast observations were done only at the four main hours of 0000, 0600, 1200 and 1800 G.M.T. from the 1st August onwards.

At Argentine Islands, due to scarcity of upper wind reports, upper air tables X to XX were contracted and printed on one page (see page 131).

## Notes on the Tables

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### Surface Observations

1. For climatological purposes, the day is taken to be from 0001 to 2359 Zone Time. All Stations take observations every three hours at fixed G.M.T. synoptic hours 0001, 0300, 0600, 0900, 1200, 1500, 1800, 2100 but, for climatological purposes, these are recorded in Zone Time, which is G.M.T. -4 for all stations except Signy Island (G.M.T. -3) and Grytviken (G.M.T. -2). Thus, at most stations, the first observation of the day is 0200 hours (0600 G.M.T.) but at Signy Island it is 0001 hours (0300 G.M.T.) and at Grytviken 0100 hours (0300 G.M.T.).

Maximum, and minimum temperatures and rainfall are read twice daily, at the synoptic hours closest to 0900 and 2100 Zone Time (*i.e.* 1200 and 0001 G.M.T. for all stations), and the day, for these purposes, ends at midnight G.M.T.

Thus, the terms "day" and "daily" are used in the tables to imply 24 hours in one of the two senses defined above.

#### MEANS AND EXTREMES TABLES I AND II.

2. Daily means of pressure, temperature, relative humidity, cloud amount and wind speed are based on observations at all hours.

3. Extreme pressures are taken from observations at all hours.

#### FREQUENCY TABLE II.

4. Each column covers two Fahrenheit degrees *e.g.* the column headed 29 (positive) includes all observations from 28.0 to 29.9°F inclusive. Cases of 0.0°F or 0°F are entered alternately as 0+ and 0-.

#### FREQUENCY TABLE III.

5. In these relative humidity is calculated with respect to water at all temperatures.

#### FREQUENCY TABLE IV.

6. Visibility. The lower limit of each range is included but not the upper *e.g.* 2km. is included in the range 2-4km.

7. Cloud Heights. This is concerned primarily with lowest significant cloud (international definition) but clouds above 6000 metres are also included.

The lower limit of each height range is included, but not the upper, and the summary is in two sections - *All Amounts* and *7 - 8 oktas*. *Middle* cloud is occasionally observed at Antarctic stations, below 2400 metres; it is then counted as *low* cloud for the purposes of this summary.

#### FREQUENCY TABLE V.

8. Days of abnormal maximum and minimum temperatures. These entries are intended to pick out days of abnormally high or low temperature. A day of high minimum is a day when the temperature is continuously above the specified figure, and a day of low maximum when it is continuously below the specified figure, throughout the twenty-four hours. The limits for the various stations are as follows:—

	STANLEY	GRYTVIKEN	ALL OTHER STATIONS
High minima	> 50°F.	> 41°F.	> 32°F.
Low maxima	< 32°F.	< 23°F.	< 5°F.
Low minima	< 23°F.	< 14°F.	< -4°F.
High maxima	> 68°F.	> 59°F.	> 41°F.

9. A *day of wind speed* => *Beaufort force 6 (or 8)* is defined as a day on which the mean wind (not the extreme wind in gusts) reached or exceeded this figure at any of the eight hours of observation. All days of Force 8 are also contained in Force 6.

10. A *day of rain, snow, sleet, drizzle, showers, thunder, fog or hail* is a day on which an occurrence was observed at the station, at any time of the day. Ice needles are counted as snow.

11. A *day of cloudy* is a day on which the total amount of cloud for the 1200, 1800 and midnight G.M.T. observations added together equals or exceeds 20 oktas.

A *day of clear* is a day on which the total cloud amount for the 1200, 1800 and midnight G.M.T. observations added together is equal to or less than 4 oktas.

12. A *day of snow lying* is a day on which, at 1200 G.M.T., half or more of the ground in the vicinity of the station is covered with snow. This is recorded at Stanley and Grytviken only.

13. A *day of ground frost* is a day when the night time grass minimum temperature (read at 1200 G.M.T.) is 30.4°F. or less. This is recorded at Stanley only.

14. A *day of drift* is a day when drifting snow occurs at any time of that day, regardless of the intensity or height of the drift.

15. A day with showers is entered under the shower column and also under the appropriate hydrometeor (*i.e.* rain, snow, sleet or hail).

16. Fog is recorded whenever the visibility is less than 1100 yards from any cause whatsoever. Days of fog are subdivided into either 'true' fog, which is fog caused primarily by water droplets or ice particles in suspension; or 'pseudo' fog, which includes all other occasions of visibility less than 1100 yards. 'True' fog is selected in preference to 'pseudo' fog. Not more than one entry is made for any one day.

17. Hail is subdivided into :—

Soft Hail and Granular Snow *i.e.* crisp, easily compressible, white, opaque grains.

Small Hail and Ice Pellets *i.e.* hard transparent ice grains.

'Real' Hail *i.e.* grains with a recognisable multi-layered structure having at least one layer resembling granular snow and one layer resembling ice pellets.

Where more than one type occurs on the same day, selection is made in the following order of preference: 'Real' hail, 'Small' hail, 'Soft' hail. Not more than one entry is made for any one day.

18. Days of freezing rain and drizzle and days of ice crystal fog are included in the main entries under these columns.

## Upper Air Observations

### STANLEY.

19. The observations are made by an Upper Air Unit of the Meteorological Office, Air Ministry, London. The British radio-sonde system is used, in which pressure, temperature and relative humidity are measured by variable audio-frequency modulation of a carrier signal of constant frequency. The sonde in use is known as the Kew Mk. II. B.

20. The wind measurements are made by means of an Army (G.L. III) radar set, modified for use by the Meteorological Office. This set tracks a reflector attached to the radio-sonde balloon and gives its position in terms of range, azimuth and elevation at fixed intervals of time (normally 1 minute), the time scale being common to radar and radio-sonde. The maximum range of the equipment in its present modified form is 96,000 yards.

21. Observations were made daily for 0800 Zone Time (1200 G.M.T.), the time of release normally being 0700 Zone Time (1100 G.M.T.). During World Meteorological Intervals of the International Geophysical Year, extra ascents were done for 2000 Zone Time (0000 G.M.T.) with the time of release normally 1900 Zone Time (2300 G.M.T.) (see Introduction). Almost all ascents were done within a few minutes of these times, but operational difficulties (such as strong winds) occasionally delayed release for periods up to about an hour. On a few occasions the delay was even longer, but in no case did it exceed 3 hours.

22. In the original extractions heights above Mean Sea Level were entered in geopotential metres at levels up to 400 mb. and in tens of geopotential metres at 300 mb. and above. The means printed in the tables are based on these figures. The frequency tables for levels up to 800 mb. show heights grouped in 15 metre ranges, while those for 700 mb. and above are in 30 metre ranges.

### ARGENTINE ISLANDS.

23. Here the sonde in use is also the Kew Mk. II. B. but there is no radar set. Balloons are followed by theodolite.

### MEANS AND EXTREMES TABLE I and II.

24. The Tables show the number of observations on which means etc., are based. All ascents used in the tables reach 200 mb. and humidity data (which are shown with respect to water at all temperatures) are available on all occasions up to 500 mb. unless otherwise noted. Owing to the inaccuracy of the humidity element at low temperatures, values of humidity are not reported if the temperature falls below  $-40^{\circ}\text{C}$ . For this reason no means of dew point are given in the summaries for levels of 300 mb. and above. They are quoted for 400 mb., where a comparison between the number of observations of air temperature and dew point gives an indication of the degree of validity of the dew point means at that level.

25. The tables show the mean pressure and temperature at the tropopause for each month in the year. The definitions for determining the tropopause are those in use in the Meteorological Office, Air Ministry, London. It is not within the scope of these notes to give all possible definitions but, in general, the tropopause is the height of the lowest point at which the lapse rate becomes  $2^{\circ}\text{C}/\text{Km}$ . or less. Where more than one tropopause was reported, the lowest has been used.

### UPPER AIR FREQUENCY TABLES I to VI.

26. In the Tables each column covers three Celsius degrees e.g. the column headed 3 to 5 includes all observations from 3.0 to 5.9°C. inclusive. 0°C. has been entered alternately as O+ and O-.



Means and Extremes Table I for Stanley, Falkland Islands, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT FIXED HOURS <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	1000.5	1014.4	29th	984.0	7th	46.8	47.3	51.7	55.1	54.4	52.2	48.8	47.1	50.4	58.5	43.8	<u>60</u>	<u>5th, 6th</u>	36	16th
February	999.5	1017.2	3rd	982.4	8th	42.4	42.0	44.8	47.6	47.9	45.6	43.5	42.7	44.6	50.5	39.6	58	26th	32	21st
March	1008.7	1026.2	6th	990.9	1st	43.5	43.3	45.7	48.9	49.3	47.3	44.4	43.3	45.7	52.3	40.1	65	20th	32	22nd
April	1002.8	1021.3	17th	988.3	30th	41.5	41.2	42.4	46.4	47.0	44.0	42.4	41.6	43.3	49.1	38.5	64	2nd	32	16th
May	1003.4	1018.6	12th	976.3	5th	36.9	37.0	37.2	39.7	40.1	38.0	37.4	37.3	37.9	42.2	32.3	51	4th	26	8th, 21st
June	1001.2	1020.5	28th	<u>968.4</u>	<u>14th</u>	35.2	35.1	35.4	37.0	38.0	36.3	35.5	35.2	36.0	39.1	31.1	48	20th	26	28th
July	1003.4	<u>1035.8</u>	<u>27th</u>	978.9	3rd	35.6	35.7	35.6	37.3	37.5	36.3	35.8	35.6	36.2	39.9	32.1	45	10th	24	14th
August	1001.3	1033.4	17th	970.6	23rd	36.0	35.3	35.5	39.3	39.9	37.6	36.4	36.2	37.0	42.1	32.4	50	10th	<u>22</u>	<u>15th</u>
September	1007.7	1028.1	19th	982.5	23rd	35.9	35.2	38.0	42.5	43.2	39.3	36.8	36.4	38.4	45.4	31.6	55	23rd	25	4th
October	1006.2	1024.2	22nd	988.8	31st	39.2	39.1	42.6	45.5	46.5	43.1	40.2	39.0	41.9	49.5	35.5	62	27th	30	1st
November	1001.2	1022.6	18th	974.6	13th	40.3	41.1	44.6	47.3	47.8	46.0	42.9	41.2	43.9	50.9	38.3	66	25th	31	16th
December	1001.7	1022.1	29th	971.4	11th	40.5	41.3	45.7	48.2	48.1	46.3	43.1	41.3	44.3	52.3	38.1	68	23rd	30	6th
Total	12037.6	12284.4	—	11757.1	—	473.8	473.6	499.2	534.8	539.7	512.0	487.2	476.9	499.6	571.8	433.4	701	—	346	—
Mean	1003.1	1023.7	—	979.8	—	39.5	39.5	41.6	44.6	45.0	42.7	40.6	39.7	41.6	47.7	36.1	58.4	—	28.8	—

Means and Extremes Table II for Stanley, Falkland Islands, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.) <sup>1</sup>				
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000		2300	REC.					EST.
																			Not recorded					
January	89	90	77	68	70	75	82	86	80	6.0	6.6	6.3	6.3	5.7	6.0	6.1	6.0	6.1	6.6		16.1	53.0	19.2	30th
February	87	88	83	75	74	81	84	84	82	6.3	6.6	6.6	6.9	7.0	6.8	6.6	5.8	6.6	4.3		14.5	100.9	<u>36.6</u>	<u>14th</u>
March	87	91	85	76	75	80	86	89	84	5.9	6.1	6.8	6.5	6.4	6.1	5.6	5.3	6.1	4.7		12.5	18.9	3.7	31st
April	92	92	90	79	77	84	89	92	87	5.7	5.1	6.0	5.9	6.1	6.4	5.8	5.5	5.8	3.8		10.5	61.2	12.3	11th
May	88	89	88	85	83	88	86	88	87	5.5	5.9	6.3	6.8	6.5	6.4	5.7	6.0	6.1	2.1		8.8	59.7	17.6	16th
June	88	88	88	86	83	88	88	90	87	5.5	5.6	6.5	6.3	6.3	5.7	5.3	5.2	5.8	2.0		7.9	40.9	8.2	13th
July	92	91	92	91	90	92	92	92	91	6.2	6.2	6.4	6.6	6.8	6.8	6.3	6.2	6.4	1.7		8.3	126.8	18.5	19th
August	89	89	90	75	78	86	89	89	86	5.6	5.2	5.7	6.2	6.0	6.2	5.9	5.5	5.8	3.7		9.7	16.6	5.2	11th
September	87	89	82	69	67	81	87	86	81	4.5	4.5	4.8	5.4	6.0	5.8	5.0	4.7	5.1	5.5		11.7	18.8	14.2	20th
October	89	90	81	72	69	76	84	90	81	5.4	6.2	6.4	6.2	6.0	6.0	5.4	5.3	5.9	5.0		13.7	36.5	28.9	31st
November	90	88	82	79	73	77	86	90	83	5.6	6.2	6.5	6.0	6.1	5.9	6.3	5.1	6.0	6.0		15.6	51.3	10.8	13th
December	91	89	79	76	76	81	85	88	83	6.6	6.3	6.6	6.5	6.5	6.4	6.1	5.6	6.3	5.9		16.6	51.4	10.9	11th
Total	1069	1074	1017	931	915	989	1038	1064	1012	68.8	70.5	74.9	75.6	75.4	74.5	70.1	66.2	72.0	51.3	—	145.9	636.0	186.1	—
Mean	89	89	85	78	76	82	87	89	84	5.7	5.9	6.2	6.3	6.3	6.2	5.8	5.5	6.0	4.3	—	12.2	53.0	15.5	—

## Frequency Table I for Stanley, Falkland Islands, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																					
	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0	1040.0	
	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	
	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9	1044.9	
January								3	15	42	48	71	43	26								
February								14	27	34	43	36	37	23	10							
March										19	37	40	36	38	43	29	6					
April										1	27	69	64	38	19	18	4					
May								2	7	15	27	28	35	67	46	21						
June						2	5	6	4	20	14	39	56	56	19	14	5					
July								6	17	21	28	36	51	21	14	14	15	11	12	2		
August							5	9	11	24	35	39	27	37	25	11	5	8	12			
September									4	12	20	18	28	53	48	33	13	11				
October										4	18	36	63	48	32	32	15					
November								2	8	18	15	21	42	46	35	17	25	11				
December								5	2	3	25	45	33	34	43	17	32	9				
Year						2	17	33	81	179	330	468	551	514	324	253	106	36	24	2		



Frequency Table III for Stanley, Falkland Islands, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January						2	2	3	9	10	13	27	21	33	24	29	33	29	13
February								2	2	2	12	19	22	33	27	34	39	22	10
March							1	2	1	7	11	12	17	20	44	38	49	31	15
April								1	1	3	3	12	23	17	21	36	56	42	25
May										3	7	11	13	17	31	41	68	43	14
June										1	7	11	14	18	29	39	50	50	21
July											4	2	6	9	20	40	57	74	36
August									1	3	3	11	17	27	35	45	52	34	20
September							2	4	7	11	15	21	14	17	26	37	45	29	12
October				1		5	3	2	6	18	7	9	11	23	31	39	35	35	23
November						1	3		5	5	13	12	16	21	27	37	52	30	18
December					1		1	2	6	4	9	13	25	25	29	49	31	39	14
Total				1	1	8	12	16	38	67	104	160	199	260	344	464	567	458	221
Mean				—	—	1	1	1	3	6	9	13	17	22	29	39	47	38	18

# Frequency Table IV for Stanley, Falkland Islands, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No CLOUD				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= >40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0	30	60	120	300	600	1200	2400	=	0	30	60	120	300		600	1200	2400	=
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	> 6000	to 30	to 60	to 120	to 300	to 600		to 1200	to 2400	to 6000	> 6000
January		2	2	2	1	3	25	25	43	145	58	63	47	42	34	4	5	4	12	26	34	85	24	48	10	5	4	11	5	7	6	5	17	2	
February		2			1	3	22	41	61	91	8	27	72	77	38	2	2		6	17	69	118	4	4	2	2		4	7	16	21	2	1		2
March				3	8	2	32	42	56	105	32	45	45	61	65		1	4	17	40	19	107	28	22	5		4	13	24	5	28	4	7	2	5
April		1	1	4	7	1	40	55	45	86	43	44	38	39	75	1	3	5	7	46	50	83	3	22	10	3	5	7	25	15	18		5	1	11
May		1		2	7	6	35	53	60	84	32	48	51	50	65	2	2	4	16	27	75	86	6	12	10	2	4	10	15	23	14	1	6	2	10
June		4	3	3	7	2	25	46	63	87	29	48	39	61	55	8	9	2	9	33	49	103	6	12	6	9	1	7	14	10	32	8	2		11
July		3	4	4	11	11	69	54	36	56	23	35	35	51	97	7	8	5	33	69	54	52	4	13	4	8	3	24	34	25	10	3	2	3	6
August		4	1	4	9	2	36	53	61	78	37	43	60	60	41	7	8	3	16	29	49	99	7	28		7	3	11	13	13	14		3		9
September		1		1	3	1	24	47	75	88	49	62	53	50	25	1	2	6	6	39	33	94	11	30	9	1	4	5	11	3	19	4	3		10
October		1	4	6	2	4	35	48	75	73	47	40	49	61	43	8	8	2	12	39	42	87	11	32	6	8	2	9	20	10	20		2		9
November	1	1	3	1	4	5	18	39	45	123	30	49	44	68	43	6	7	2	10	32	69	79	11	17	8	6	2	9	5	17	7	3		1	5
December				1	1	3	21	33	59	130	34	43	50	76	45				2	30	62	116	4	26	8			2	8	23	35	1	10	1	
<b>Total</b>	1	20	18	31	61	43	382	536	679	1149	422	547	583	696	626	46	55	37	146	427	605	1109	119	266	78	51	32	112	181	167	224	31	58	12	78
<b>Mean</b>	-	2	2	3	5	4	32	45	57	96	35	46	49	58	52	4	5	3	12	36	50	92	10	22	7	4	3	9	15	14	19	3	5	1	7

Frequency Table V for Stanley, Falkland Islands, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9 WIND FORCE = $\wedge$ 6	9 WIND FORCE = $\wedge$ 8	10 & 18 RAIN	10 SNOW	10 SLEET	10 & 18 DRIZZLE	10 THUNDER	11 CLOUDY	11 CLEAR	12 SNOW LYING	13 GROUND FROST	14 DRIFT	10 & 15 SHOWERS	10 & 16 FOG		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	0.10 mm $\wedge$ 	1.0 mm $\wedge$ 	> 10.0 mm $\wedge$ 														True	Pseudo	True	Small	Soft
	> 50°F	< 32°F	< 23°F	> 68°F																					
January				2	13	9	2	22	4	19		1	9		10			1		11	3			1	
February					25	21	1	27	7	21	1	5	7	2	16		1	2		22	1	2		7	
March					14	7		23	5	15		1	11	1	14			6		14	4			2	
April					18	10	3	17	4	16	3		10		11			10		6	4			1	
May					24	15	2	20	5	12	7	13	5		15	1	2	21		17	3			3	
June					22	11		19	1	11	3	2	10		13		7	18		16	8			2	
July					28	22	5	22	5	21	7	15	19		19		5	15	2	10	10	1		2	
August			1		19	4		22	1	12	3	4	10		11		8	18	1	16	5			1	
September					10	2	1	15	2	8	1		6		9	1	3	23		13	3			2	
October					15	5	1	26	8	15	2	6	9		11	1		9		10	7			5	
November					21	13	1	22	3	18	2	4	7		18	1	2	6		14	4	1		4	
December					24	15	1	23	2	20	1	12	8		17		1	7		22				10	
Total	0	0	1	2	233	134	17	258	47	188	30	63	111	3	164	4	29	136	3	171	52	0	4	40	0
Mean	-	-	-	-	19	11	1	21	4	16	3	5	9	-	14	-	2	11	-	14	4	-	-	3	-

Frequency Table VI for Stanley, Falkland Islands, 1958.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of : —																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	17.0	4	58	137	47	2	10	10	9	5	5	2	16	39	24	18	55	53
February	21.0	19	88	92	22	3	4	5	7	4	1	1	26	54	29	42	28	20
March	17.9	10	56	139	42	1	17	9	4	2	2	5	31	18	33	40	48	38
April	16.8	8	54	132	39	7	34	7	6	7	5	9	19	18	16	29	33	50
May	18.6	13	68	127	34	6	23	6	4	9	5	1	15	28	34	43	39	35
June	16.7	1	65	119	54	1	29	2		2	1	1	8	29	29	52	62	24
July	17.4	9	71	101	66	1	19	22	13	29	12	11	15	12	13	23	44	34
August	18.0	5	72	131	37	3	26	5	3	1	2	4	18	9	25	37	67	48
September	16.5	3	55	134	46	2	24	2				6	11	8	21	30	68	68
October	15.5	14	69	134	31		23	1	1	3	5	1	8	28	39	37	32	70
November	16.7	3	66	115	49	7	19	4	4	2	1	1	25	56	19	19	28	55
December	17.9	6	79	107	55	1	13	7	3	1	1	5	14	58	58	38	35	14
Total	210.0	95	801	1468	522	34	241	80	54	65	40	47	206	357	340	408	539	509
Mean	17.5	8	67	122	43	3	20	7	5	5	3	4	17	30	28	34	45	42



# Frequency Tables VII to X for Stanley, Falkland Islands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1			1	1									2
2	2	1		2	1					3			9
3		2	5	1	1	2	7		3	2	7	6	36
4	4	2	3	1	1		4	8	6	4	27	12	72
5	1	2			2		2	13	7	4	17	17	65
6	1							12	5	4	4	11	37
7	2	3					2	5	2	1		6	21
$\geq$ $>$ 8							1	1	1			1	4
Totals	10	10	9	5	5	2	16	39	24	18	55	53	246

CALMS - 2

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1							1						1
2												1	1
3		1	1	1	1		2	2	2	6	3	1	20
4	1	1		2			2	4	5	10	12	6	43
5	2	3	1			1	7	8	5	9	7	6	49
6			1	1			8	23	10	8	6	4	61
7	1		1				6	8	2	8		1	27
$\geq$ $>$ 8			3					9	5	1		1	19
Totals	4	5	7	4	1	1	26	54	29	42	28	20	221

CALMS - 3

TABLE IX — MARCH.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1									1	2	1		4
2							1				1	2	4
3	2	2	1		1	2	7		2	6	5	6	34
4	5	5	1	1	1		4	2	7	12	15	8	61
5	10	1	2	1		2	7	5	10	13	19	8	78
6						1	5	7	4	7	5	8	37
7		1					3	3	5		1	6	19
$\geq$ $>$ 8							4	1	4		1		10
Totals	17	9	4	2	2	5	31	18	33	40	48	38	247

CALMS - 1

TABLE X — APRIL.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				2	1		1						4
2	2	1	1					1		1			6
3	2	1	1	4	2	1	1		3	3	6	5	29
4	8	3	2	1		1		3	5	11	20	14	68
5	8	2	2		2	2	3	6	6	9	6	18	64
6	8					3	4	6	1	4	1	11	38
7	3						8	1	1	1		2	16
$\geq$ $>$ 8	3					2	2	1					8
Totals	34	7	6	7	5	9	19	18	16	29	33	50	233

CALMS - 7

# Frequency Tables XI to XIV for Stanley, Falkland Islands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1										1		1	2
2	1	2		4					1		2		10
3	2	2	1	2			1			4	9	1	22
4	4		1	2	3	1	2	2	9	10	19	7	60
5	8		1	1	1		1	4	12	21	7	11	67
6	6		1				6	10	6	5	1	7	42
7		1			1		2	10	4	2	1	5	26
>= 8	2	1					3	2	2			3	13
Totals	23	6	4	9	5	1	15	28	34	43	39	35	242

CALMS - 6

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.	
1												1	2	3
2									2	1	6		9	
3	2	1						4	5	7	17	6	42	
4	3			1		1	3	3	11	12	28	7	69	
5	10	1			1			5	6	15	7	5	50	
6	10			1			3	6	4	12	3	3	42	
7	4						1	11	1	5		1	23	
>= 8							1						1	
Totals	29	2		2	3	1	8	29	29	52	62	24	239	

CALMS - 1

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1			1	1	1		2			2	2	10
2	1	2		2	3		1				5	1	15
3	6	4	1	3	1	3		2	3	10	7	1	41
4	1	3	2	4	3	3	1	2	2	4	12	11	48
5	5	4	1	3		3	3	3	6	5	12	8	53
6	4	4	4	9	1		7	1	1	2	3	8	44
7	1	3	2	6	2	1	2	2	1	2	3	2	27
>= 8		2	3	1	1		1					1	9
Totals	19	22	13	29	12	11	15	12	13	23	44	34	247

CALMS - 1

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2											1	3
2	1	1			1				2	2	2		9
3	6					1	4	2	1	3	3	5	25
4	4				1	1	5	2	10	17	21	8	69
5	6					2	4	3	5	8	18	16	62
6	6	3	2	1			2	2	5	5	15	11	52
7	1	1	1				3		1	2	5	6	20
>= 8								1			2	2	5
Totals	26	5	3	1	2	4	18	9	25	37	67	48	245

CALMS - 3

# Frequency Tables XV to XVIII for Stanley, Falkland Islands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1						1					1	3
2							1		1	3	4		10
3	2	1					2		4	5	11	8	33
4	6				3	3	3	3	4	7	33	17	76
5	5				1	3	2	7	7	9	24		58
6	7					1	3	4	8	8	10		41
7	1				2			1	2	4	4		14
= > 8	2	1											3
Totals	24	2				6	11	8	21	30	68	68	238

CALMS - 2

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1								1					1
2					3						1	1	5
3	1	1	1	1				5	1	3	8	4	25
4	6			2	1		1	5	5	15	15	15	65
5	8					1	1	7	15	7	7	23	69
6	5				1		2	8	7	6	1	15	45
7	1						2	2	6	5		8	24
= > 8	2						2		5	1		4	14
Totals	23	1	1	3	5	1	8	28	39	37	32	70	248

CALMS - 0

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				2	1		2					1	6
2	2		1				1			1	5	2	12
3	2				1	4	5	2	3	6	8		31
4	3	2				12	12	5	3	10	11		58
5	3	2	1			3	22	2	5	3	16		57
6	8		1			2	12	5	4	3	13		48
7	1		1			1	4	4	3	1	3		18
= > 8							1	1			1		3
Totals	19	4	4	2	1	1	25	56	19	19	28	55	233

CALMS - 7

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1							1					2	3
2	1	1	1				2	3	1	1	6		16
3	2	1	1				4	5	8	4	8	3	36
4	5	1	1	1			3	10	7	9	9	6	52
5	5	1			1			11	16	13	7	1	55
6		2				4	4	19	15	7	4	2	57
7		1				1		5	10	4	1		22
= > 8								5	1				6
Totals	13	7	3	1	1	5	14	58	58	38	35	14	247

CALMS - 1

Frequency Table XIX for Stanley, Falkland Islands, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	4		1	6	3	1	6	3	1	3	5	9	42
2	10	8	3	8	8		6	4	7	10	31	11	106
3	27	16	12	12	6	10	32	25	34	56	90	54	374
4	50	17	10	15	10	10	40	56	76	114	221	122	741
5	71	16	8	5	7	12	31	89	97	116	119	153	727
6	55	9	9	12	2	8	44	109	67	72	54	103	544
7	15	10	5	6	3	4	30	51	38	35	16	44	257
≥ 8	9	4	6	1	1	2	14	20	20	2	3	13	95
Totals	241	80	54	65	40	47	206	357	340	408	539	509	2886

CALMS 34.

Frequency Table XX for Stanley, Falkland Islands, 1958.

MONTH	RAINFALL (mms.) : Number of days of <sup>1</sup>																																										
	Nil	Trace	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Nil - 0.9	1.0 - 1.9	2.0 - 2.9	3.0 - 3.9	4.0 - 4.9	5.0 - 5.9	6.0 - 6.9	7.0 - 7.9	8.0 - 8.9	9.0 - 9.9	Nil - 9.9	10.0 - 14.9	15.0 - 19.9	20.0 - 24.9	25.0 - 29.9	30.0 - 34.9	35.0 - 39.9	40.0 - 44.9	45.0 - 49.9	50.0 - 54.9	55.0 - 59.9	60.0 - 64.9	65.0 - 69.9	70.0 - 74.9	75.0 - 79.9	< = 80.0						
January	6	12		1		1		1			1	22	3	2			1	1					29	1	1																		
February		3	1	1				1			1	7	6	4	4	1	4	1					27						1														
March	4	13	4	1	1					1		24	1	5	1						1	31																					
April	5	7	1	1		1	1	3		1		20	2	2	1	1			1			27	3																				
May	5	2		5		1	1	2				16	7	3	3							29	1	1																			
June	1	7	2	1		6	1			1		19	5	2	1	1				2		30																					
July	3			1		1	1		2	1		9	2	7	3	4					1	26	4	1																			
August	2	10	5	1	1	3		2	2		1	27	2	1			1					31																					
September	9	11	4				1		1	1	1	28	1									29	1																				
October	6	10	2	6	1					1		26	4									30				1																	
November	5	4	2		1			3		2		17	3	5	2		1			1		29	1																				
December	1	6	3	1			1	2	2			16	6	3	3	1			1			30	1																				
Year	47	85	24	19	4	13	6	14	7	8	4	231	42	34	18	8	7	2	2	3	1	348	12	3		1		1															

## Upper Air Means Table I for Stanley, Falkland Islands, 1958.

MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for all ascents :—

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for all ascents :—																		MEAN TROPOPAUSE				
	SURFACE		900 mb.		850 mb.		800 mb.		700 mb.		600 mb.		500 mb.		400 mb.		300 mb.	200 mb.	150 mb.	100 mb.	Press. mb.	Height	Temp.
	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Air	Air	Air					
January	10.4	8.0	5.8	0.9	3.1	-1.7	-0.4	-4.4	-6.3	-11.2	-12.8	-18.0	-21.3	-27.2	-32.6	-38.8	-47.1	-52.5	-51.5	-52.3	243	10430	-56.6
February	6.6	4.9	0.7	-1.4	-2.3	-4.1	-1.4	-8.0	-10.0	-16.4	-17.2	-25.7	-26.2	-34.6	-37.3	-42.5	-47.9	-49.6	-50.4	-51.3	279	9430	-54.7
March	7.1	5.6	4.4	-0.6	1.5	-3.9	-0.6	-6.9	-5.9	-15.0	-13.0	-25.2	-22.0	-31.5	-33.6	-41.0	-47.5	-56.4	-55.8	-56.1	238	10630	-58.8
April	5.3	4.4	2.6	-1.4	0.6	-4.4	-2.1	-8.5	-7.9	-16.0	-15.8	-39.3	-25.3	-33.3	-37.2	-42.6	-51.0	-57.5	-55.0	-56.0	240	10450	-61.2
May	2.9	1.6	-0.5	-3.5	-3.0	-7.0	-5.6	-10.6	-11.7	-19.1	-18.6	-27.1	-27.2	-35.0	-38.6	-41.1	-52.2	-60.9	-58.8	-59.8	222	10760	-64.2
June	1.9	0.7	-1.8	-4.9	-4.0	-8.4	-6.1	-12.7	-12.4	-20.4	-20.3	-28.2	-30.2	-37.5	-42.0	-45.3	-55.5	-61.4	-59.7	-62.1	243	10140	-64.4
July	2.2	1.1	1.5	-4.3	-3.3	-7.4	-5.2	-10.6	-10.5	-16.5	-18.0	-24.4	-27.7	-34.2	-38.9	-43.1	-52.3	-57.7	-57.6	-59.9	258	9880	-60.1
August	1.7	0.8	-1.2	-5.5	-3.5	-9.8	-6.5	-13.5	-12.5	-20.5	-20.2	-28.5	-29.7	-36.9	-41.3	-42.0	-54.6	-62.1	-60.3	-62.3	241	10210	-64.8
September	3.1	1.3	0.3	-5.4	-2.2	-9.1	-4.9	-17.3	-11.4	-21.8	-18.3	-28.7	-27.5	-36.3	-37.8	-42.4	-51.5	-59.4	-58.8	-60.6	248	10210	-61.3
October	5.3	3.1	2.0	-3.3	-0.3	-5.4	-2.6	-8.2	-8.1	-14.9	-15.2	-23.7	-23.7	-31.3	-35.0	-41.7	-49.3	-60.2	-60.4	-60.6	216	11100	-62.6
November	6.9	4.4	2.8	-2.0	0.4	-5.8	-2.8	-9.1	-8.5	-13.2	-15.6	-24.4	-25.1	-33.5	-36.7	-42.5	-49.0	-51.4	-50.8	-52.5	278	9760	-55.3
December	6.9	3.9	0.9	-2.2	-1.8	-4.7	-3.8	-8.1	-9.2	-14.0	-16.0	-24.4	-24.6	-30.9	-36.1	-39.8	-49.6	-52.4	-50.6	-50.6	255	9990	-57.1
Total	60.3	39.8	17.5	-33.6	-14.8	-71.7	-45.0	-117.9	-114.4	-199.0	-201.0	-314.6	-310.5	-402.2	-447.1	-502.8	-607.5	-681.5	-669.7	-684.1	2961	122990	-721.1
Mean	5.0	3.2	1.5	-2.8	-1.2	-6.0	-3.7	-9.8	-9.5	-16.6	-16.7	-26.2	-25.9	-33.5	-37.3	-41.9	-50.6	-56.8	-55.8	-57.0	247	10250	-60.1

## Upper Air Means Table II for Stanley, Falkland Islands, 1958.

MONTH	MEAN HEIGHTS ABOVE M.S.L. OF STANDARD PRESSURE LEVELS (metres) <sup>22</sup>										
	900 mb.	850 mb.	800 mb.	700 mb.	600 mb.	500 mb.	400 mb.	300 mb.	200 mb.	150 mb.	100 mb.
January	869	1334	1822	2880	4071	5440	7050	9020	11650	135 <sup>30</sup> 20	161 <sup>20</sup> 40
February	847	1302	1782	2824	3996	5339	6918	8850	11510	134 <sup>20</sup> 00	160 <sup>25</sup> 50
March	926	1387	1874	2931	4122	5488	7092	9050	11660	135 <sup>30</sup> 00	160 <sup>37</sup> 80
April	879	1336	1819	2868	4056	5398	6979	8910	11490	133 <sup>27</sup> 20	159 <sup>20</sup> 20
May	864	1318	1795	2830	3996	5333	6910	8820	11370	131 <sup>23</sup> 70	157 <sup>21</sup> 20
June	856	1308	1784	2817	3981	5303	6853	8740	11270	131 <sup>38</sup> 00	155 <sup>36</sup> 90
July	868	1321	1798	2836	4006	5344	6912	8830	11400	132 <sup>28</sup> 20	157 <sup>20</sup> 50
August	853	1306	1782	2814	3974	5300	6852	8750	11280	130 <sup>30</sup> 70	156 <sup>27</sup> 00
September	909	1367	1846	2883	4050	5388	6960	8860	11450	132 <sup>37</sup> 50	158 <sup>37</sup> 00
October	906 <sup>30</sup>	1364 <sup>30</sup>	1850 <sup>30</sup>	2895 <sup>30</sup>	4076 <sup>30</sup>	5431 <sup>30</sup>	7025 <sup>30</sup>	8970 <sup>30</sup>	11550 <sup>30</sup>	133 <sup>30</sup> 50	153 <sup>27</sup> 80
November	866	1326	1809	2857	4036	5386	6969	8910	11540	134 <sup>28</sup> 10	160 <sup>25</sup> 70
December	854	1311	1792	2835	4012	5361	6971	8890	11510	133 <sup>40</sup> 80	160 <sup>36</sup> 30
Total	10497	15980	21753	34270	48376	64511	83491	106600	137680	159690	190130
Mean	875	1332	1813	2856	4031	5376	6958	8880	11470	13310	15840





## Upper Air Frequency Table II for Stanley, Falkland Islands, 1958.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>26</sup>																																										
MONTH	850 mb.															800 mb.																										
	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30		
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32		-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	
January							1	1	6	3	14	3	2	1											2	3	6	7	9	3	1											
February						1	4	9	7	5	1	1												1	3	6	8	8	1	1												
March						2	2	5	5	9	10	5	3											2		4	4	10	14	3	4											
April							3	5	4	8	7	2	1													1	8	5	6	5	4	1										
May					2	4	6	7	2	3	4	2	1											2	4	5	6	3	5	2	4											
June						6	8	12	8	4	2														1	14	8	10	5	2												
July						2	7	10	6	3	3														1	5	9	8	6	1	1											
August					1	5	6	4	9	3	1	1	1												7	5	5	8	3	2		1										
September						2	7	8	9	7	5	2													2	6	11	10	6	3	1	1										
October					1	1	3	2	7	7	6	3													1	2	3	8	7	6	3											
November						1	2	5	7	6	4	3	1	1											2	4	2	7	6	6	1	1	1									
December						1	8	13	6	8	3			1	1											8	9	10	6	3	3	1	1									
Year					4	25	57	81	76	66	60	22	10	3											2	21	55	74	87	75	54	24	10	2								



# Upper Air Frequency Table IV for Stanley, Falkland Islands, 1958.

	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>26</sup>																																									
	500 mb.																400 mb.																									
	MONTH	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8		
January									6	2	7	11	4	1																												
February							2	6	6	5	7	2															1	6	7	2	7	4	1									
March								1	4	8	12	11	4	1														1	6	5	14	8	6	1								
April						1	1	6	5	5	7	3	1	1													1	1	5	5	6	5	5	2								
May						1	1	10	6	7	3	2	1															1	12	4	5	5	3	1								
June						7	8	5	10	9	1																4	10	8	7	8	3										
July					1	1	1	6	9	7	5	1															1	2	4	10	6	4	4									
August					1	3	6	6	7	5	2	1															2	2	6	6	3	7	4	1								
September						2	3	10	8	8	7	2															1	1	6	10	11	9	2									
October							1	1	3	11	9	3	2																1	4	6	13	5	1								
November							2	2	6	8	11		1															1	3	5	10	6	4	1								
December						2	2	4	8	7	9	5	4															3	4	6	9	9	6	2	2							
Year						2	17	27	57	78	82	80	41	17	3													2	9	26	56	71	79	85	53	19	3	1				

### Upper Air Frequency Table V for Stanley, Falkland Islands, 1958.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges																																											
	300 mb.															200 mb.																												
	-73	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-84	-81	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to					
	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-86	-83	-80	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29				
January									4	6	16	4	1																															
February							1	4	12	6	4	1																	1	1	1	3	5	3	9	5								
March									5	16	14	3	3															1	7	9	2	9	4	6	2	1								
April						1	6	15	1	4	1	2																3	3	6	6	4	5	3										
May						3	13	3	7	4	1																		4	5	2	7	4	7	1	1								
June					3	13	10	14																		3	3	3	9	6	7	3	6											
July						4	7	13	3	4																		2	2	2	5	4	6	8	2									
August					2	8	6	12	2	1														1				7	4	3	4	5	2	4	1									
September						2	9	15	9	4	1																1	8	4	10	6	2	5	3	1									
October							2	7	15	4	2																	3	7	9	5	2	3	1										
November							2	10	10	5	3																		1	3	2	3	4	7	8	2								
December					1		6	11	9	10	4																		2	4	2	5	11	9	7	1								
Year					6	31	62	113	90	72	23	7																	1	3	17	29	41	69	48	51	58	43	33	11				

Upper Air Frequency Table VI for Stanley, Falkland Islands, 1958.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>26</sup>																																							
	150 mb.															100 mb.																								
	-84	-81	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-84	-81	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
-86	-83	-80	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-86	-83	-80	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	
January								2	3	2	7	12	4																3	7	13	5	1							
February									1	3	5	8	8	1																5	11	7	2							
March								5	7	15	8	3	1														1	2	11	20	3									
April						1	2	2		10	9	3															2	2	7	6	7	2								
May			1			2		1	8	5	6	5													1		4	5	13	1										
June						1	3	5	11	10	4	4													1	4	13	11	5	2										
July						1	3	5	6	9	4															2	3	8	8	5										
August						1	4	7	4	9	3	1	1												1	7	6	6	4	2	1									
September						1	7	13	9	4	3	2	1													4	9	15	3	2	2	1	1							
October				1		1	2	8	8	9	1														1	4	4	6	9	3										
November									3	3	4	11	5	2														1	5	7	5	6	1							
December								1	3	3	15	8	9	1													1	3	2	15	7	5	2	1						
Year				1	1	4	11	27	59	64	71	66	48	28	4											4	21	42	56	67	60	59	27	15	3	1				

Upper Air Frequency Table VII for Stanley, Falkland Islands, 1958.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents :- 5																																														
	Surface											900 mb.										850 mb.										800 mb.															
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=			
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>			
January						1		7	11	12						1	7	10	4	3	4	2					2	1	4	5	7	8	2	2					1	2	1	6	5	9	6	1	
February							1	2	12	12	1							1	7	7	12	1					2	1	4	5	7	8	2	2					1	2	1	6	5	9	6	1	
March							1	1	18	20	1						5	3	5	6	12	9	1					1		1	3	13	10	1					1		4	3	3	7	9	1	
April									5	22	3						2	2	5	8	6	7			1		1	3	4	9	5	10				1	2	2	2	6	7	6	11	4			
May							1	4	4	19	3						1	1	4	5	11	8				1	3	5	4	6	6	5					2		2	11	4	2	4	5			
June								6	5	24	5						1	3	5	5	11	14	1				1	2	2	2	10	4	8	1					3	2	3	4	5	6	7		
July							1	1	2	22	5						1	3	1	2	3	17	3				2	3	4	3	8	12	8					2	6	4	3	5	5	9	6		
August									9	18	4			1			3	1	3	9	6	8		1		1	2	1	4	5	5	11	1			1	1	1	3	5	2	4	4	9	1		
September						1	1	3	10	23	2		2			1	6	7	14	5	5					2	1	3	3	9	5	4	4			1		1	3	2	5	7	3	7	2		
October						1	3	4	6	13	3				1	1	2	5	3	5	2	11		2			5	6	10	11	5		1	1		3	3	5	6	11	7	3	1				
November					1	1	4	12	9	2				1	1	1	3	6	5	4	8	1				2	3	7	2	3	7	6				1	1	5	5	3	3	4	8				
December					1		6	9	14	10	1				1	1	4	7	10	14	3			1	2		1	4	7	2	4	8				1	1	1	1	6	4	5	4	6			
Year					2	4	15	41	108	204	30		2	5	2	19	35	54	77	80	117	12		4	6	10	34	41	53	78	82	86	9		3	3	14	24	28	61	61	54	78	73	4		

Upper Air Frequency Table VIII for Stanley, Falkland Islands, 1958.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents:- 5																																											
	700 mb.											600 mb.											500 mb.											400 mb.										
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>
9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	
January		1		1	4		4	5	9	7			2	3	1	2		5	4	11	3			2	3	2	2	4	6	7	4	1				4	2	4	9	3	5	2		
February				1	5	2	3	3	4	6	4			3	2	5	1	5	3	2	5	2			4	2	3	2	5	5	3	4			1	2	2	4	3	5	3			
March	1	1	7	4	3	7	3	5	7	3	1	3	6	5	6	5	4	3	7	1			4	8	3	8	6	4	3	4	1			3	6	7	3	3	8	8	1	1		
April		3	1	2	3	4	9	2	3	3		4		2	7	2	6	4	2	3			3	2	3	4	6	4	3	5			3	3	3	1	4	4	3					
May		1	2	5	5	4	1	4	4	4	1	1	2	8	2	5	1	4	5	1			1	5	5	5	3	3	4	4				1	3	3	3							
June		2	4	4	4	7	8	2	5	4	1	2	6	3	4	5	4	3	10	2	1	3	5		6	7	5	5	6	2			2	3	2	2	1	4	1					
July		2		2	6	4		6	5	6		1	2	3	6	3	1	3	11	1			1	4	4	4	2	4	8	4			1	4	1	2	1	6	5					
August			4	4	6	4	5	3	4	1			2	7	6	10	4	1	1				1	7	7	9	2	3	2				3	2	2	2	4							
September	1	5	4	4	7	5	1	8	2	3	3	4	5	5	3	6	5	3	4	2	1	5	3	6	4	7	3	7	3	1	2	3	2	4	4	4	5	3	1					
October		1	3	3	2	5	7	3	5	1		2	2	4	3	4	4	5	4	2	1		3	5	2	5	6	3	5	1		3	3	4	6	6	4	1						
November		2	3	2	4	3	4	4	3	5	1	2	2	5	2	6	2	5	3	2	1	1	4	4	4	5	5	3	3	1	1	1	2	9	6	1	2							
December		1	1		7	6	4	5	12	5			1	2	7	3	5	13	7	3			2	4	7	5	4	15	4			2	2	7	7	7	5	1						
Year	2	19	30	36	53	52	49	51	65	46	7	24	33	50	49	54	44	50	70	22	4	24	42	46	55	64	51	64	48	5	4	14	31	34	45	49	51	48	7	1	1			

Upper Air Frequency Table IX for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED KNOTS	WINDS at STATION LEVEL : Number of observations at all ascents of :--																														
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS						
		1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314		315 to 344					
January	11.4	8	14	3	1										2	2		1							1	5	3	5	8	1	28	
February	17.5	4	6	9	2										3	1	2		1	1					3	1	6	11	7	4	21	
March	12.7	7	26	2	2										3		1	1							3	2		9	2	5	26	
April	11.7	7	10	5	1										3				1						3	1	6	11	7	4	40	
May	17.5	8	10	6	5	1									1	1	3				1				3	2		9	2	5	26	
June	13.8	9	9	11	3										3	1					1				5	2	5	6	4	3	31	
July	16.1	4	12	8	3	1									3	1		1						1	2	6	4	7	6	4	35	
August	14.1	9	9	10											3	2	3	2	4						4	1	1	6	3	2	31	
September	15.3	12	10	16											2	3									3	1	4	8	6	2	28	
October	15.9	4	18	4	2	1									2	3									1		6	13	7	8	40	
November	15.8	3	17	8	1										2	1	1								2		3	4	6	6	4	29
December	18.6	4	13	18	3	1									1	2	1								1	5	4	5	2	3	5	29
Year	15.0	79	154	100	23	4									18	22	13	6	6	2	9	33	33	54	83	59	40				378	



Upper Air Frequency Table X for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 900 mb. : Number of observations at all ascents of :—																				NUMBER OF ASCENTS					
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)												
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014		015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224		225 to 254	255 to 284	285 to 314	315 to 344	
January	23.9	1	6	11	6	3								1	1					6	4	8	7	1	28		
February	28.8	1	3	10	3	3		1								2				4	4	4	5	2	21		
March	25.5	1	11	13	13	2									2		1	1	2	5	13	10	4	2	40		
April	23.2	2	5	10	8									1		1	1		1	2	2	7	4	3	2	26	
May	26.3	2	5	10	13	1									2	1	1		1	4	5	5	5	2	31		
June	22.9	2	11	12	9	1											2	1	1	7	7	9	6	2	35		
July	25.7	2	9	7	10	3									3	4		5		3	2	2	10	2	31		
August	26.7	3	4	10	6	5									1		1		1	2	3	6	8	3	28		
September	30.0	1	9	8	13	9									1				1		3	13	9	8	5	40	
October	28.4		9	8	8	4											1			1	4	8	4	7	4	29	
November	25.6		10	9	8	2										1				3	7	5	2	7	4	29	
December	26.3	1	9	16	8	6									1	1			2		8	19	5	3	1	40	
Year	26.1	16	91	124	105	39		1						2	11	10	4	8	4	6	22	56	93	79	53	30	378

Upper Air Frequency Table XI for Stanley, Falkland Islands, 1958.

WINDS at 850 mb. : Number of observations at all ascents of :-

MONTH	MEAN WIND SPEED  KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)												NUMBER OF ASCENTS	
		1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344		
		January	26.1		9	5	10	3									1						4	5	10	6		2
February	27.0	1	3	11	3	3									1		1			4	3	5	5		2	21		
March	27.3	1	13	7	15	4											1		1	3	3	17	8	3	2	40		
April	24.3	3	5	5	10	2								1			1	2	2	2	2	6	6	4	1	26		
May	27.0	2	4	11	12	2											1	1		4	4	8	6	3	3	31		
June	25.1	3	8	15	5	4											1	2		1	7	7	12	3	2	35		
July	25.1	3	6	8	13	1											2			5		3	9	1	3	31		
August	27.4	1	9	6	7	5										1			1	2	3	7	9	1	3	28		
September	30.6		8	9	13	10											1				3	11	12	9	4	40		
October	31.2		5	9	9	5	1												1	4	8	5	7	3	29			
November	26.4	1	6	11	8	3													3	7	3	5	5	4	29			
December	28.2	1	12	9	12	6												2	2	8	19	4	3		40			
Year	27.1	16	88	106	117	48	1							2		12	6	4	4	5	6	27	48	99	91	45	29	378

Upper Air Frequency Table XII for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 800 mb. : Number of observations at all ascents of :-																									
		SPEEDS (knots)													CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS	
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014	015 to 044		045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344		
January	28.0		5	8	8	6								1							3	5	10	8	1	28	
February	28.4	1	2	9	6	3									1	1					4	4	4	5	2	21	
March	30.1	1	8	10	13	8											1		1	4	2	15	11	3	3	40	
April	27.6	2	5	5	11	3									1			2	2	2	8	5	5	1	26		
May	28.4		5	10	12	3								1	1		1		4	4	6	8	5	1	31		
June	23.5	1	7	11	12	4										1	2		1	5	10	11	3	2	35		
July	25.8	3	6	8	13	1									2	3		2		1	1	3	4	8	3	4	31
August	29.7		7	7	7	7									2		1			2	4	6	8	3	2	28	
September	30.9		9	8	12	11													1		10	17	10	2	40		
October	32.7		5	7	10	5	2													1	4	8	6	6	3	29	
November	27.0	1	5	12	9	2									3					2	7	5	6	3	3	29	
December	31.1	1	8	8	15	8									1	1				2	3	6	17	8	2	40	
Year	29.0	10	72	103	128	61	2							2	11	5	2	4	3	7	24	44	98	103	53	22	378

Upper Air Frequency Table XIII for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 700 mb. : Number of observations at all ascents of :-																									NUMBER OF ASCENTS											
		SPEEDS (knots)													CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)																						
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	100 to 109	110 to 119	120 to 129		130 to 139	140 to 149	150 to 159	160 to 169	>179	345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164		165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344					
January	33.4		1	8	9	9													1								2	6	10	9			28					
February	29.5	1	2	7	8	3														1						3	4	4	5	3	1		21					
March	32.9	1	4	11	15	8	1														1				1	2	6	15	9	5	1		40					
April	30.5	1	5	6	7	6	1													1					2	3		8	6	4	2		26					
May	30.3	2	3	9	13	3	1																		1		3	5	8	4	9	1	31					
June	31.7	1	5	10	13	5	1																		1	2	1		3	14	12	1	1	35				
July	26.9	3	7	8	7	6																			3	2	1		1	4	4	11	3	1	31			
August	32.6	1	4	9	4	9	1																		1		2	4	6	7	5	3		28				
September	34.3		8	5	13	14																				1		2	9	14	13	1		40				
October	38.4		3	4	12	7	3																												29			
November	28.5	1	3	12	10	3																					1	2	9	5	8	3		29				
December	34.9	1	2	12	12	11	2																				2	3	7	14	10	2		40				
Year	32.0	12	47	101	123	84	10												1							8	4	1	2	4	7	19	47	102	99	64	20	378

## Upper Air Frequency Table XIV for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 600 mb. : Number of observations at all ascents of :-																									
	KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)												NUMBER OF ASCENTS
		1 <i>to</i> 9	10 <i>to</i> 19	20 <i>to</i> 29	30 <i>to</i> 39	40 <i>to</i> 59	60 <i>to</i> 79	80 <i>to</i> 99	100 <i>to</i> 119	120 <i>to</i> 139	140 <i>to</i> 159	160 <i>to</i> 179	>179		345 <i>to</i> 014	015 <i>to</i> 044	045 <i>to</i> 074	075 <i>to</i> 104	105 <i>to</i> 134	135 <i>to</i> 164	165 <i>to</i> 194	195 <i>to</i> 224	225 <i>to</i> 254	255 <i>to</i> 284	285 <i>to</i> 314	315 <i>to</i> 344	
January	41.6	1		4	8	12	3													2	4	11	10	1	28		
February	32.1		3	6	5	7								1					2	5	4	5	3	1	21		
March	37.7	1	5	1	16	14	3								1			1	3	5	15	8	7		40		
April	33.7	2	5	3	5	9	2												2	2		7	7	6	2	26	
May	36.2		3	7	11	7	2								1			1	1	3	9	6	9		30		
June	36.5	1	3	9	8	9	4							1		1				5	8	13	2	3	34		
July	30.6	2	8	3	10	8								1		1				3	4	14	6	1	31		
August	35.1	2	3	6	6	9	2													6	5	8	8	1	28		
September	40.1		2	8	11	17	2											1		2	10	9	17	1	40		
October	46.4		1	3	6	12	5	2											1	1	10	7	5	4	29		
November	30.8	1	4	9	6	9													1	3	9	4	8	4	29		
December	39.4	1	3	7	12	10	7												2	1	8	14	11	2	40		
Year	36.7	11	40	66	104	123	30	2							4	1	1	2	2	8	11	43	99	103	83	19	376

Upper Air Frequency Table XV for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 500 mb. : Number of observations at all ascents of :-																															
		SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS							
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014		015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344								
January	45.7		1		5	14	5	3												1	2	5	12	6	2	28							
February	35.7	1	2	5	5	5	3													1		5	4	5	2	2	21						
March	43.3	1	4	1	5	25	2	2													1	4	3	14	10	7	40						
April	37.7	3	2	4	4	9	3	1													1	1	1	9	7	5	2	26					
May	45.9	1	1	4	7	9	5	3													1	2	5	8	5	8	1	30					
June	45.9	1	1	8	8	9	5	2													1		3	11	11	3	2	34					
July	38.7	2	3	4	8	8	6														1	1	2	5	13	6	2	31					
August	38.6	2	2	7	3	10	4														1	1	3	5	11	3	4	28					
September	46.0		1	5	8	15	10	1														3	1	10	11	13	2	40					
October	54.0		1	3	3	12	7	2	1													2	1	8	8	5	4	29					
November	33.6	1	2	11	5	9	1														1		7	5	4	10	2	29					
December	45.0	1	2	7	7	15	6	2													1	3	9	11	14	1	40						
Year	42.5	13	22	59	68	140	57	16	1												3	1	1	2	2	7	20	42	95	111	69	23	376

## Upper Air Frequency Table XVI for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 400 mb. : Number of observations at all ascents of :—																									
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS	
	7 <i>to</i> 9	10 <i>to</i> 19	20 <i>to</i> 29	30 <i>to</i> 39	40 <i>to</i> 59	60 <i>to</i> 79	80 <i>to</i> 99	100 <i>to</i> 119	120 <i>to</i> 139	140 <i>to</i> 159	160 <i>to</i> 179	>179	345 <i>to</i> 014		015 <i>to</i> 044	045 <i>to</i> 074	075 <i>to</i> 104	105 <i>to</i> 134	135 <i>to</i> 164	165 <i>to</i> 194	195 <i>to</i> 224	225 <i>to</i> 254	255 <i>to</i> 284	285 <i>to</i> 314	315 <i>to</i> 344		
January	62.4			1	1	11	10	4	1									2	2	3	13	7	1	28			
February	43.1		3	1	6	7	2	2								1		1	6	4	3	3	1	21			
March	50.8		5		4	18	8	3	1								1		5	3	16	5	8	1	39		
April	44.7	1	2	4	4	8	4	3							1			1	1	2	7	7	5	2	26		
May	55.0	1		5	2	12	4	4	1	1								1	3	2	9	6	8	1	30		
June	48.0		5	3	4	11	9	1	1						1		2		2	4	8	13	2	2	34		
July	50.1		2	3	5	13	6	2							2		1		1	1	2	4	12	8	31		
August	45.7		1	6	6	8	4	3										1	1	3	6	9	3	5	28		
September	55.4			4	6	10	14	6											2	1	7	14	16		40		
October	63.3		1	2	3	8	7	7					1					1	1	2	6	10	5	3	29		
November	39.7	1	1	8	7	7	5								1				3	1	7	4	7	5	29		
December	53.5	1	2	4	6	12	8	6	1						1			2	4	7	11	11	4		40		
Year	51.0	4	22	41	54	125	81	41	5	1	1				7	1	2	1	4	7	26	35	88	107	76	21	375





Upper Air Frequency Table XVIII for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 200 mb. : Number of observations at all ascents of :—																									
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS	
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314		315 to 344
January	64.4		1		3	6	11	6												1		4	16	5	1	27	
February	42.0	2	2	1	5	9		1	1											1	5	6	4	3	2	21	
March	53.7		2	4	4	12	13	3							1					1	8	10	12	6		38	
April	53.9			3	4	9	6	4												1	2	7	7	7	2	26	
May	63.6			1	8	5	8	3	5											2	3	6	7	11	1	30	
June	55.4		2	4	6	6	10	5	1											1	3	8	17	4	1	34	
July	69.6				1	12	11	6		1					1				1	1	1	4	15	7	1	31	
August	63.0		1	1	3	8	6	7	2											1	3	5	12	5	2	28	
September	67.8				1	8	23	6	2													8	17	15		40	
October	73.5				2	2	8	2	8	4	2									1	3	6	8	9	1	28	
November	46.0		2	2	9	9	3	3												1	3	4	9	9	2	28	
December	51.0		2	3	8	14	9	3	1											3	8	13	11	5		40	
Year	58.7	2	12	21	54	106	102	55	16	3					2					1	14	39	81	135	86	13	371



## Upper Air Frequency Table XX for Stanley, Falkland Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at 100 mb. : Number of observations at all ascents of :—																								NUMBER OF ASCENTS
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											
	1	10	20	30	40	60	80	100	120	140	160	>179	345		015	045	075	105	135	165	195	225	255	285	315	
KNOTS	to 9	to 19	to 29	to 39	to 59	to 79	to 99	to 119	to 139	to 159	to 179	to 014	to 044	to 074	to 104	to 134	to 164	to 194	to 224	to 254	to 284	to 314	to 344			
January	33.1	1	2	6	5	6													1	2	11	6		20		
February	23.9	1	3	8	4	1								1					1	2	9	3	1	1	18	
March	31.1	1	1	8	13	4														4	9	13	1		27	
April	34.2			3	8	2															2	8	3		13	
May	50.6				5	11	5													3	7	7	4		21	
June	59.5					13	8	3														14		1	24	
July	67.7				1	2	11	2														16			16	
August	69.1					5	6	3	1												3	10	2		15	
September	75.8					1	10	6	1												4	13	1		18	
October	65.0				1	2	7	2													2	8	2		12	
November	36.3			6	7	8														2	4	5	9	1	21	
December	31.2		3	10	8	6														3	14	7	3		27	
Year	48.1	3	9	41	52	61	47	16	2					1					1	15	65	115	32	3	232	



## Upper Air Frequency Table XXII for Stanley, Falkland Islands, 1958.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 15 metre ranges :- 22																																																					
	850 mb. Mean height 1,332 metres. I.C.A.N. height 1,457 metres.																																																					
	975 to 889	990 to 1004	1005 to 1019	1020 to 1034	1035 to 1049	1050 to 1064	1065 to 1079	1080 to 1094	1095 to 1109	1110 to 1124	1125 to 1139	1140 to 1154	1155 to 1169	1170 to 1184	1185 to 1199	1200 to 1214	1215 to 1229	1230 to 1244	1245 to 1259	1260 to 1274	1275 to 1289	1290 to 1304	1305 to 1319	1320 to 1334	1335 to 1349	1350 to 1364	1365 to 1379	1380 to 1394	1395 to 1409	1410 to 1424	1425 to 1439	1440 to 1454	1455 to 1469	1470 to 1484	1485 to 1499	1500 to 1514	1515 to 1529	1530 to 1544	1545 to 1559	1560 to 1574	1575 to 1589	1590 to 1604	1605 to 1619	1620 to 1634	1635 to 1649									
January													1				2	1	2	1		3	3	3	5	1	3	1	2	1	2																							
February										1		1	1	2			1	2	2	2	1		5	1	2	2	2	1	1		1																							
March																			1	4	3	1		5	3	2	2	3	3	3	3	3			1	1	3																	
April																	3	1	2	4	4	2	2	2	4	3		2	2				1																					
May						1							1	2			2	1	3	2		3	5	2	1	1	5	1	1																									
June						2						1	1	1			2	4	1	3		3	2	7	3	2	2	3																										
July									1				2		1	2	4	1			4	2	3	2	2				2	1												1		1	1									
August										1	1	1	2		1		1	2	1	3	1	2	2	1	3	1		1	1	1	1				3																			
September														2	2			1		2	2	1	1	1	2	3	4	3	1	3	4	1	2	2					2	1														
October																	1		1	5	1	1	1		5	2	2	4	1	1	3					1	1																	
November											1	1		2	1		1		2	1	2	2	1	3	4		1	4	1																									
December							1				1		1		3	2	3	2	4	4	1	3		3	1	2	1	1	1		4	1					2																	
Total						3	1			2	3	3	5	6	10	7	5	17	16	20	28	21	22	22	36	35	19	18	26	18	15	14	8	5	7	7			1		2		1		1									













# Upper Air Frequency Table XXVIII for Stanley, Falkland Islands, 1958.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— <span style="float: right;">22</span>																																																		
	300 mb. Mean height 8,880 metres. I.C.A.N. height 9,164 metres.																																																		
	819 to 821	822 to 824	825 to 827	828 to 830	831 to 833	834 to 836	837 to 839	840 to 842	843 to 845	846 to 848	849 to 851	852 to 854	855 to 857	858 to 860	861 to 863	864 to 866	867 to 869	870 to 872	873 to 875	876 to 878	879 to 881	882 to 884	885 to 887	888 to 890	891 to 893	894 to 896	897 to 899	900 to 902	903 to 905	906 to 908	909 to 911	912 to 914	915 to 917	918 to 920	921 to 923	924 to 926	927 to 929	930 to 932	933 to 935	936 to 938	939 to 941	942 to 944	945 to 947	948 to 950	951 to 953						
January																	1			2	1	3	2	2	2		3	3	1	2	3	2	1		3																
February												1			4	1	1	1	1	3			1	2	2		2	3	4				1																		
March																					5	2	1		4	3	1	2	4	3	6	5	2	1		1			1												
April																1	2	2	1	1	3	1	3	2	2	3	1		1	1	1	3	2																		
May											1			1		1	1	3	4	4	3	3		2		2	3		1	1		1																			
June							2		2		1		1	1	2		3	4	1	5	2	2	3	1	2		1	4	1	2																					
July										1			1		2	2		2	1	7	1	2	2	1	3	1	1								2	1															
August						1	1	1		1			1	1	1	2	3	2	1	1	5	1	3	1	2					1	1																				
September											2			1		2	1	2		3	2	3	1	7		3	1	5	2	1	1	1	1	1																	
October														1				2		1	1		1		2	4	4	1	7	2	1	1		1	1																
November													1	1		1	2	1		3	2	2	3	4		1	1	2		4		1				1															
December										1	2			2	1	1	2	2	2	3	1	1	2	5	1	1		3	1	1	3					3															
Year						3	1	3		4	4	2	4	9	9	13	15	20	16	23	26	22	21	28	18	21	20	18	25	13	16	15	12	10	4	4	2	1	1							1					



## Upper Air Frequency Table XXX for Stanley, Falkland Islands, 1958.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges:— <sup>22</sup>																																																			
	150 mb. Mean height 13,310 metres. I.C.A.N. height 13,608 metres.																																																			
	1257	1260	1263	1266	1269	1272	1275	1278	1281	1284	1287	1290	1293	1296	1299	1302	1305	1308	1311	1314	1317	1320	1323	1326	1329	1332	1335	1338	1341	1344	1347	1350	1353	1356	1359	1362	1365	1368	1371	1374	1377	1380	1383	1386	1389							
January																										1		4	2	1	4	4	5	3	3		3															
February																							1	2	1	2	1	6	2	3	2	1			4	1																
March																											2	3	2	2	6	5	6	7		1	1	3						1								
April																			1	1	1	1	2	4	2	1	6		2	1	1			2	1		1															
May															1	1	2	2	1	5	3	3	3	1	1	1	2	1				1																				
June						2	1	1	1		1	1	4		3	4		1	4	5	2	1		3	3	1																										
July															1	1	1	3	2	2	2	4	4	3	1	2			1		1			1	1																	
August				1				1		1	1	2	1	1	2	3	4	2	1	2	3	1	1		1	1							1																			
September												1		1	2	1		3	2	2	2	3	3	5	2	3	1			4	3	1			1																	
October																1	2				1			1	1	4	3	6	1	3	5																					
November																							1	2	2	2	1	3	1	5	1	4	3																			
December															1	1		1	4		1	3	1	1	2	3	4	2	1	1	4	1			3	1	1		1	2							1					
Year				1		2	1	2	1	1	2	4	5	5	8	13	9	12	19	16	16	19	18	17	20	24	24	15	21	22	20	17	18	8	8	4	7	1	2				1	1								

Upper Air Frequency Table XXXI for Stanley, Falkland Islands, 1958.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges:— 22																																																				
	100 mb. Mean height 15,840 metres. L.C.A.N. height 16,180 metres.																																																				
	1506	1509	1512	1515	1518	1521	1524	1527	1530	1533	1536	1539	1542	1545	1548	1551	1554	1557	1560	1563	1566	1569	1572	1575	1578	1581	1584	1587	1590	1593	1596	1599	1602	1605	1608	1611	1614	1617	1620	1623	1626	1629	1632	1635	1638								
January																																																					
February																														1	1		3	2	5	5	7	4	1														
March																												1	2	1	2	2	7	2	1	3	2	1	1														
April																												1	1	1	2	2	5	2	5	4	9	4	2						3	2							
May																	2	1	1	4	3	4	2	1	1	2	1	2	3	4	4	1	5																				
June							2	1	2	1		1		5	2	2			2	3	1	2	5	3	1	3		1	1		1																						
July																		1	2	2	2	4	2	6	1	3		3	1	2																							
August					1																																																
September									1	1	1				1	4	6			3	2	1	1	2	1	1						1																					
October																1	1																																				
November																							1	2	2	2	2	1	2	3	2	1	1																				
December																										2	3	2		1	2	4	4	1	2	3	1	4	3	3	5	2					1	3	1				
Year					1		2		1	3	2	1	1		6	8	14	4	11	11	7	17	14	18	9	13	14	14	16	11	25	14	18	17	18	21	12	13	6	4	5	3	1										

Means and Extremes Table I for Grytviken, South Georgia, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT FIXED HOURS <sup>1</sup>								1-2 DAILY MEAN	MEAN <sup>1</sup> DAILY		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0100	0400	0700	1000	1300	1600	1900	2200		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	993.5	1018.1	31st	<u>955.5</u>	<u>8th</u>	39.6	39.1	39.5	42.0	45.3	44.5	43.5	40.3	41.7	49.4	35.0	<u>67</u>	<u>7th</u>	29	15th
February	994.2	1024.1	1st	971.2	20th	36.4	35.5	36.0	38.5	40.4	40.4	38.5	36.9	37.8	43.6	32.9	51	17th	29	19, 24, 25
March	999.2	1022.3	31st	977.1	1st	37.0	36.6	36.2	39.0	40.7	41.2	38.9	37.6	38.4	45.3	33.1	61	21st	27	6, 23, 31
April	999.8	<u>1017.6</u>	<u>10th</u>	965.9	13th	35.8	36.0	36.0	36.6	38.9	38.2	36.9	36.2	36.8	43.1	31.5	60	12th	26	22nd, 26th
May	995.5	1026.0	16th	967.1	1st	30.7	31.1	30.7	29.7	30.8	30.6	30.3	30.6	30.6	37.2	25.2	50	5th	15	21st
June	996.7	1020.6	9th	961.0	25th	29.4	29.7	29.3	29.2	30.7	30.3	30.2	29.5	29.8	35.2	24.9	50	2nd	<u>13</u>	<u>27th, 28th</u>
July	1002.3	<u>1026.1</u>	<u>9th</u>	961.3	13th	27.7	27.6	27.2	27.3	28.2	28.0	27.6	27.3	27.6	34.4	22.6	54	17th	14	8th
August	998.3	1018.8	29th	966.5	24th	31.9	31.6	31.7	33.0	34.6	34.2	32.9	33.0	32.9	39.5	26.6	50	1st	17	16th
September	1003.7	1018.3	18th	986.3	28th	33.7	33.8	33.3	34.8	36.4	37.1	35.1	33.9	34.8	41.8	28.6	54	13th	20	20th
October	1000.6	1022.3	12th	965.8	17th	35.1	34.9	35.5	37.1	38.2	38.2	35.8	35.2	36.3	42.2	30.1	55	28th	22	23rd
November	995.5	1018.1	5th	971.0	29th	36.9	36.2	38.3	41.2	42.3	42.3	40.9	37.9	39.5	46.0	33.5	66	24th	28	3rd
December	989.9	1006.0	28th	967.5	1st	36.2	36.0	36.5	38.9	40.6	40.4	38.6	37.3	38.1	44.9	33.2	59	24th	29	7, 21, 22
Total	11969.2	12238.3	—	11616.2	—	410.4	408.1	410.2	427.3	447.1	445.4	429.2	415.7	424.3	502.6	357.2	677	—	269	—
Mean	997.4	1019.9	—	968.0	—	34.2	34.0	34.2	35.6	37.3	37.1	35.8	34.6	35.4	41.9	29.8	56.4	—	22.4	—

Means and Extremes Table II for Grytviken, South Georgia, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0100	0400	0700	1000	1300	1600	1900	2200		0100	0400	0700	1000	1300	1600	1900	2200		REC.	EST.				
January	80	80	79	73	65	68	69	76	74	6.2	6.7	7.1	6.6	6.9	6.7	6.5	6.5	6.7	4.9		16.5	91.6	27.7	16th
February	87	90	88	81	76	79	84	86	84	6.6	6.1	6.5	7.0	6.7	6.5	6.9	6.5	6.6	3.2		14.7	263.0	<u>79.5</u>	<u>27th</u>
March	78	76	78	72	66	63	68	75	72	4.5	5.1	6.6	6.6	6.7	5.6	5.6	4.5	5.7	4.0		12.6	32.4	7.3	17th
April	82	80	79	80	75	77	79	81	79	5.6	5.3	6.4	6.2	6.1	6.5	6.2	5.7	6.0	3.5		10.4	105.0	42.8	8th
May	77	77	76	81	76	78	80	80	78	5.7	5.9	6.1	6.2	6.0	6.1	5.7	5.3	5.9	2.2		8.4	120.0	33.6	1st
June	81	78	82	84	84	82	83	83	82	4.2	5.0	5.7	6.6	6.2	6.0	5.1	5.0	5.5	2.1		7.4	93.0	23.7	14th
July	79	80	79	80	78	79	77	82	79	5.4	5.7	5.5	6.0	5.9	5.9	5.2	5.3	5.6	2.4		7.9	162.0	49.8	2nd
August	75	74	73	73	68	71	76	72	73	4.9	4.8	5.3	6.1	5.8	6.2	5.5	5.0	5.5	3.4		9.5	138.8	28.2	30th
September	71	69	69	69	67	65	69	71	69	3.4	3.8	5.1	5.4	5.7	5.7	5.6	3.4	4.8	6.0		11.6	57.8	15.6	15th
October	75	75	73	74	71	69	77	77	74	6.0	6.0	6.3	6.3	6.1	6.1	6.3	5.9	6.1	5.2		13.8	96.1	15.3	2nd
November	81	84	79	74	69	69	73	78	76	6.6	6.9	6.3	6.5	6.3	6.3	6.2	6.2	6.4	5.0		15.8	83.9	40.0	7th
December	76	74	74	69	64	65	70	72	71	6.5	7.1	6.7	6.8	6.4	6.5	6.6	6.2	6.6	5.7		17.0	59.8	18.9	10th
Total	912	937	929	910	859	865	905	933	911	65.6	68.4	73.6	76.3	74.8	74.1	71.4	65.5	71.4	47.6	—	145.6	1303.4	382.4	—
Mean	79	78	77	76	72	72	75	78	76	5.5	5.7	6.1	6.4	6.2	6.2	5.9	5.5	5.9	4.0	—	12.1	108.6	31.9	—

Not recorded



## Frequency Table I for Grytviken, South Georgia, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0	1040.0
	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>
	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9	1044.9
January				1	7	1	6	6	23	37	49	51	33	20	11	3					
February							11	21	27	32	26	29	30	32	4	4	8				
March								3	25	30	41	42	26	30	29	13	9				
April						2		8	6	28	23	49	40	37	37	10					
May						2	9	14	29	43	31	35	26	28	10	9	9	3			
June					4	6	2	2	11	31	51	49	34	16	14	18	2				
July					2	5	4	15	16	18	14	12	35	29	45	31	17	5			
August						3	11	13	13	22	35	20	50	30	37	14					
September										12	19	43	52	62	46	6					
October						6	8	5	14	15	25	44	29	42	16	36	8				
November							9	16	26	24	29	57	30	22	16	11					
December						5	11	17	39	51	51	33	30	11							
Year				1	13	30	71	120	229	343	394	464	415	359	265	155	53	8			



Frequency Table III for Grytviken, South Georgia, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January			1		3	2	10	16	16	16	16	15	20	19	25	34	22	20	13
February								1	2	12	10	13	19	18	24	34	34	29	28
March						2	12	9	13	16	23	31	33	22	19	36	18	10	4
April						2	5	10	12	11	9	21	14	24	23	22	27	38	22
May								2	4	15	13	28	35	34	36	33	21	26	1
June								1	1	3	10	21	17	38	35	52	31	23	8
July						1		1	7	14	11	31	16	29	42	38	19	32	7
August		1		1	2	1	2	7	12	28	21	27	30	32	23	25	13	22	1
September			1	2	3	3	10	15	16	24	17	24	32	26	19	21	20	4	3
October	2	2		4	4	3	3	15	13	13	12	17	24	14	32	28	29	28	5
November		3		1	4	4	9	15	9	7	14	16	12	18	17	36	28	34	13
December				1	2	4	9	19	11	23	24	27	24	24	20	22	18	16	4
Total	2	6	2	9	18	22	60	111	116	182	180	271	276	298	315	381	280	282	109
Mean	—	1	—	1	1	2	5	9	10	15	15	23	23	25	26	32	23	23	9

# Frequency Table IV for Grytviken, South Georgia, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	≥ 40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0	30	60	120	300	600	1200	2400	∞	0	30	60	120	300		600	1200	2400	∞
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	> 6000	to 30	to 60	to 120	to 300	to 600	to 1200		to 2400	> 6000		
January	1	1		8		18	42	89	89	4	52	97	48	45	2	2	3	12	42	50	126	9	2	1	2	2	5	6	11	22	1	1	1	1	
February				8	16	5	20	31	85	50	4	41	79	42	55	3	3	1	5	48	64	97	2	1	3	1	1	15	19	23	1	1	1	1	
March					4	1	4	23	75	141	15	59	96	36	42				3	10	36	170	14	7	3		2	3	8	21	3			3	
April		4	2	5	13	1	18	49	61	87	22	55	39	46	71	7	7	10	9	32	31	124	5	10	4	7	7	4	13	15	30		2		8
May			3	13	11	8	21	48	59	85	16	43	50	61	63	15	15	1	9	7	31	165	4	3	2	15	1	3	4	6	69		2		8
June		1	1	3	12	4	26	40	41	112	39	52	50	31	61	7	8	2	7	11	44	123	6	10	8	7	2	5	6	22	33	1	1	3	21
July		1	1	10	8	1	21	48	50	108	27	52	51	39	66	13	13		2	6	37	162	1	6	4	13		3	23	46		1	1	3	21
August			2	7	5	2	9	43	71	109	31	53	69	42	45	8	8			8	38	161	2	5	5	8		3	17	34			3	21	
September			2	2	3	2	14	23	43	151	49	78	46	27	35	5	5		3	11	22	146	4	17	8	5		2	15	27	1	4	3	24	
October		2		9	14	3	29	41	61	89	19	35	81	43	65	5	5		7	29	47	135	6	6	4	5		3	18	21	38				9
November					7	4	20	40	67	102	25	41	55	28	91			3	19	40	54	83	16	19	2		2	7	13	7	18		1		4
December				1	2	3	15	37	72	118	4	30	82	67	64	1	1	1	4	22	42	164	10	2	2	1		1	3	3	35	1		1	
Total	1	9	11	58	103	34	215	465	774	1250	255	591	795	510	703	66	67	21	80	266	496	1656	79	88	43	66	15	31	89	167	396	8	9	12	124
Mean	-	1	1	5	9	3	18	39	65	104	21	49	66	43	59	5	6	2	7	22	41	138	7	7	4	5	1	3	7	14	33	1	1	1	10

Frequency Table V for Grytviken, South Georgia, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9	9	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 FOG		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm =	>1.0 mm =	>10.0 mm =	WIND FORCE = ^	WIND FORCE = ^	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>41°F	<23°F	<14°F	>59°F																					
January	2			2	23	15	2	14	3	18	4	6	7		20		3		1	16	2		4		
February					20	17	7	4	1	15	11	9	7		18		6		1	14	5	4		4	
March	4			2	18	8		10	1	8	6	2	4		8		2			21			2	3	
April	1			1	21	15	3	9	1	12	8	3	8		14		11		3	15	6	3	1	3	
May					27	19	3	10	2	9	15	6	3		15	1	31		13	22	1	11	5		
June		1	2		21	14	3	5		5	17	4	7		15	1	28		6	15	2	7	1	1	
July		3			19	15	6	7	1	3	20	4	3		11		30		9	20	1	7			
August					25	17	4	9		11	16	4	4		13		26		9	21	1	4			
September					19	9	2	11		10	5	3	3		7		16		7	15		2	3	7	
October					21	17	4	9	1	7	11	3	2		15		10		7	20	2	3			2
November				2	18	11	2	7		8	9	7	9		19		1			12	1			2	
December					17	9	1	5	2	6	7		4		19		1			26		1		4	
Total	7	4	2	7	249	166	37	100	12	112	129	51	61		174	2	165		56	217	21	42	23	17	
Mean	1	-	-	1	21	14	3	8	1	9	11	4	5		15	-	14		5	18	2	3	2	1	

Frequency Table VI for Grytviken, South Georgia, 1958.

MONTH	2 MEAN WIND SPEED	WIND : Number of observations, at all hours, of : — <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
		8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	10.3	3	17	92	83	53	27	11	3	14	26	5	1	3	7	13	31	54	
February	7.1	1	9	49	84	81	22	8	3	15	24	5	1	1	7	10	16	31	
March	9.1	1	15	79	79	74	43	14	2	13	7	4		2	6	10	24	49	
April	8.3	1	14	75	56	94	30	9		8	8		2	1	4	15	19	50	
May	10.1	4	18	89	73	64	16	6		2	5	4	1	3	4	30	57	56	
June	7.5		5	76	80	79	27	6	2	5	9	3	1	2	7	20	20	59	
July	8.6	1	17	70	99	61	14	3	3	10	15	25	13	6	12	28	28	30	
August	11.0		20	112	78	58	42	11	2	6	8	3	2	3	6	24	37	66	
September	11.4		31	110	52	47	29	6	2	7	3	2	3	3	10	12	45	71	
October	10.8	1	16	116	66	49	28	10	1	9	15	4	1	1	7	18	29	76	
November	8.6		18	63	96	63	13	23	4	19	29	12	3	4	4	9	21	36	
December	9.5	2	7	94	104	41	28	9	2	16	22	6	4		10	30	24	56	
Total	112.3	14	187	1025	950	744	319	116	24	124	171	73	32	29	84	219	351	634	
Mean	9.4	1	16	85	79	62	27	10	2	10	14	6	3	2	7	18	29	53	

# Frequency Tables VII to X for Grytviken, South Georgia, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		2	1	1	2	1							7
2	4	3		2	5	2		2	1	1	1	2	23
3	13	5	2	10	8	2		1		2		10	53
4	9	1		1	8		1		1	2	11	26	60
5					3				3	5	11	10	32
6	1								1	2	6	5	15
7										1	1		2
≥ 8									1		1	1	3
Totals	27	11	3	14	26	5	1	3	7	13	31	54	195

CALMS - 53

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				1	2					1			4
2	5	2	2	5	4	1				1	1	5	26
3	12	2	1	8	10	3		1	3		4	10	54
4	4	4		1	8	1			2	1	5	11	37
5	1						1			3	3	4	12
6									1	4	2		7
7									1			1	2
≥ 8											1		1
Totals	22	8	3	15	24	5	1	1	7	10	16	31	143

CALMS - 81

TABLE IX — MARCH.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1			2	1	2						1	7
2	3	4		2	1	1		1				3	15
3	18	8	1	7	5				2	3	4	9	57
4	12	1	1	1		1		1	1	4	10	17	49
5	5	1		1						3	7	13	30
6	4								2		3	6	15
7													
≥ 8									1				1
Totals	43	14	2	13	7	4		2	6	10	24	49	174

CALMS - 74

TABLE X — APRIL.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1			1		1			1	1	1	6
2	4	2		2	2		1		1			4	16
3	9	4		6	3						3	9	34
4	12	2							3	5	8	16	46
5	4				2					4	5	14	29
6	1									2	2	6	11
7								1		2			3
≥ 8										1			1
Totals	30	9		8	8		2	1	4	15	19	50	146

CALMS - 94

# Frequency Tables XI to XIV for Grytviken, South Georgia, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1						1				4	1	2	8
2	3	2		1	2			1		5	5	3	22
3	3	2		1	3	2	1	2	1	5	10	13	43
4	8	2				1			2	9	18	22	62
5	2									3	7	15	27
6										2	5	1	8
7									1	2	7		10
≥ 8											4		4
Totals	16	6		2	5	4	1	3	4	30	57	56	184

CALMS - 64

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2		2	1								
2	2	1			3						7	4	2
3	16	3		2	3	1			1	1	3	1	12
4	6				2	2	1		1	2	3	16	49
5	1				1	2	1	1	2	6	6	25	52
6	1							1	3	4	4	11	24
7												4	5
≥ 8													
Totals	27	6	2	5	9	3	1	2	7	20	20	59	161

CALMS - 70

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1		1	1	1	3		2	6	5		23
2	2	2		2	2	2	3	2	1	11		3	30
3	6		3	6	3	7	7	2	2	1	3	6	46
4	2			1	6	10		1	4	6	11	4	45
5	1				3	5		1	1	2	4	8	25
6									2	1	4	5	12
7										1	1	3	5
≥ 8												1	1
Totals	14	3	3	10	15	25	13	6	12	28	28	30	187

CALMS - 61

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1					1				4	3	1
2	4	2		2	1						2	3	2
3	8	6			5	3	1		1	1	4	5	14
4	21	2				2	2	1	2	1	6	14	28
5	6									1	2	7	17
6	2									1	5	4	3
7									2	1	1	1	5
≥ 8													
Totals	42	11	2	6	8	3	2	3	6	24	37	66	210

CALMS - 38



# Frequency Tables XV to XVIII for Grytviken, South Georgia, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1	1	2		2	1	1			2		12
2	1			3	2		1	1		1	4	1	14
3	5	2		2			1		3		6	7	26
4	14	2						1	2	3	17	30	69
5	5	1	1		1				1	4	8	20	41
6	2								4	2	7	11	26
7										2	1	2	5
= 8													
> 8													
Totals	29	6	2	7	3	2	3	3	10	12	45	71	193

CALMS - 47

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3			4	4				1	1		1	14
2	2	3		1	7	2				1		1	17
3	7	6	1	3	3	1			1	1	2	11	35
4	13	1		1	1	1	1	1	1	5	12	34	71
5	2								5	6	9	23	45
6										4	4	5	13
7	1										1	1	3
= 8											1		1
> 8													
Totals	28	10	1	9	15	4	1	1	7	18	29	76	199

CALMS - 49

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	1	3	5	4	1	1			2		20
2	3	6	2	7	5	2	1	1	1		1	1	30
3	3	11	1	8	9	4	1	1	1	1		6	46
4	3	4		1	4	2			1	3	4	10	32
5	3				5				2	2	7	12	31
6					1					3	5	6	15
7											2	1	3
= 8													
> 8													
Totals	13	23	4	19	29	12	3	4	4	9	21	36	177

CALMS - 63

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1		2	4	1	3					2	16
2	3	3		5	6	2			2		1	3	25
3	15	4	2	7	11	1	1		1	4	2	15	63
4	5			2	1	2			4	16	12	26	68
5	1	1							2	5	8	9	26
6									1	3	1	1	6
7	1												1
= 8										2			2
> 8													
Totals	28	9	2	16	22	6	4		10	30	24	56	207

CALMS - 41

Frequency Table XIX for Grytviken, South Georgia, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	15	11	3	18	24	12	10	2	3	24	18	10	
2	36	30	6	31	30	12	6	8	7	23	19	29	246
3	115	53	13	65	61	22	11	8	15	23	42	126	554
4	109	19	1	9	32	22	4	8	23	66	128	249	670
5	31	3	1	1	14	5	1	2	18	43	80	156	355
6	11				1				12	28	43	53	148
7	2												39
= > 8								1	4	9	14	9	39
									2	3	7	2	14
Totals	319	116	24	124	171	73	32	29	84	219	351	634	2176

CALMS 744.

Frequency Table XX for Grytviken, South Georgia, 1958.

MONTH	RAINFALL (mms.) : Number of days of <sup>1</sup>																																											
	Nil	Trace	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Nil - 0.9	1.0 - 1.9	2.0 - 2.9	3.0 - 3.9	4.0 - 4.9	5.0 - 5.9	6.0 - 6.9	7.0 - 7.9	8.0 - 8.9	9.0 - 9.9	Nil - 9.9	10.0 - 14.9	15.0 - 19.9	20.0 - 24.9	25.0 - 29.9	30.0 - 34.9	35.0 - 39.9	40.0 - 44.9	45.0 - 49.9	50.0 - 54.9	55.0 - 59.9	60.0 - 64.9	65.0 - 69.9	70.0 - 74.9	75.0 - 79.9	< = 80.0							
January	2	6	2		1	3	1				1	16	5	2	1	1	1	1		1	1	29	1			1																		
February	5	3	1					1			1	11	3	1	1		2		2		1	21	1	2		1	2															1		
March	4	9	3	1	3	1			1	1		23	1	2	2	1	1		1			31																						
April	3	6	1		2		1	1			1	15	2	6	2		2					27	2						1															
May	3	1	1	2	2	2						11	3	6	2		4	1		1		28	2			1																		
June	4	5		2	2		1	1			1	16	3	4	2				1	1		27	1	1	1																			
July	2	10	2			1		1				16	4		1		1	1	1		1	25	2	3						1														
August	1	5	3	2			1		1	1		14	6	1	2	1		1		1	1	27		1	2	1																		
September	6	5	6	1	1		2					21	3	2						1		28	1	1																				
October	6	4	2	1							1	14	3	4	2	1	1		1	1		27	3	1																				
November	4	8	2	1		1	1		1	1		19	3	2	2			1	1			28	1					1																
December	3	11				1	2	1	1	2	1	22	2	1	1		2	1			1	30		1																				
Year	43	73	23	10	11	9	9	5	4	5	6	198	38	31	18	4	14	6	8	5	6	328	14	10	3	3	3		2	1										1				

Means and Extremes Table I for Signy Island, South Orkneys, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)															
	1-3 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>									1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0000	0300	0600	0900	1200	1500	1800	2100	MAX.		MIN.	MAX.	DATE	MIN.	DATE	
January	989.0	1019.0	31st	956.7	8th	32.3	31.4	31.8	33.0	33.5	33.5	33.0	32.2	32.6	36.3	30.0	44	20th	26	9th	
February	995.3	1019.5	1st	978.4	18th	29.7	29.5	29.5	30.4	31.8	31.5	31.2	29.9	30.4	34.3	27.4	43	8th	18	18th	
March	996.3	1019.7	5th	966.6	20th	29.3	29.1	28.9	29.3	29.4	30.0	29.5	29.8	29.4	33.3	25.9	42	20th	17	18th	
April	992.0	1014.6	21st	960.5	13th	27.5	27.9	27.9	28.5	28.9	27.8	27.7	27.7	28.0	32.7	22.9	45	10th	9	19, 20, 21	
May	994.1	1021.0	16th	970.6	23rd	5.8	5.5	5.7	4.8	7.6	7.8	6.6	6.5	6.3	18.0	-4.9	40	31st	-20	19th, 20th	
June	992.2	1008.6	15th	967.5	24th	13.4	12.2	11.8	11.4	12.3	12.2	11.9	12.2	12.2	21.8	3.1	38	9th, 10th	-18	22nd	
July	1004.9	<u>1023.3</u>	<u>21st</u>	985.1	13th	5.4	4.9	6.3	5.7	7.2	7.6	7.0	6.7	6.3	15.1	-1.6	35	28th	<u>-27</u>	<u>13th</u>	
August	987.3	1014.5	16th	959.1	4th	15.8	15.9	15.8	15.9	17.2	17.5	15.5	15.0	16.1	24.2	5.5	41	3rd	-17	15th	
September	988.1	1015.5	20th	963.5	2nd	26.0	25.5	24.1	24.3	24.2	24.2	24.0	24.9	24.7	31.0	18.6	43	21st	-2	3rd	
October	989.4	1012.1	9th	<u>952.1</u>	<u>16th</u>	29.9	29.8	29.5	30.1	31.7	30.9	30.8	30.4	30.4	34.6	26.7	47	12th	15	21st	
November	993.4	1008.0	6th	973.2	29th	31.1	30.9	31.4	32.2	31.9	31.2	32.8	32.5	31.7	35.5	29.0	<u>48</u>	<u>4th</u>	24	16, 17, 18	
December	985.7	1009.3	27th	967.0	4th	30.1	30.1	30.2	31.0	31.9	32.0	31.3	30.6	30.9	33.7	29.0	42	23rd	25	6th, 15th	
Total	11907.7	12185.1	—	11600.3	—	276.3	272.7	272.9	276.6	287.6	286.2	281.3	278.4	279.0	350.5	211.6	508	—	50	—	
Mean	992.3	1015.4	—	966.7	—	23.0	22.7	22.7	23.1	24.0	23.9	23.4	23.2	23.3	29.2	17.6	42.3	—	4.2	—	

Means and Extremes Table II for Signy Island, South Orkneys, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.) <sup>1</sup>				
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0000	0300	0600	0900	1200	1500	1800	2100		0000	0300	0600	0900	1200	1500	1800		2100	REC.					EST.
January	85	88	89	88	86	85	86	87	87	7.4	7.5	7.5	7.6	7.6	7.5	7.4	7.7	7.5	1.9		18.1			
February	88	85	87	87	85	85	83	85	86	6.7	7.1	7.5	7.6	7.2	7.5	7.3	7.0	7.2	2.0		15.5			
March	84	85	85	85	85	84	86	84	85	7.5	7.6	7.6	7.7	7.3	7.3	7.5	7.2	7.5	0.7		13.0			
April	87	86	85	85	85	86	86	86	86	6.3	7.0	7.7	7.6	7.1	6.9	6.9	6.0	6.9	1.2		9.8			
May	82	81	81	81	83	83	82	84	82	6.0	5.5	5.6	5.9	6.3	6.4	6.3	5.3	5.9	0.9	Not recorded	7.2	Not recorded	Not recorded	Not recorded
June	82	84	83	85	83	85	86	86	84	6.4	5.9	6.8	6.5	6.9	6.7	5.9	6.3	6.4	0.4		5.7			
July	82	83	81	81	76	79	82	83	81	4.6	4.8	4.0	5.7	5.6	5.8	5.2	4.5	5.0	1.2		6.4			
August	84	86	84	84	87	85	82	83	84	6.2	6.0	5.5	6.1	6.4	6.3	6.4	5.8	6.1	1.8		8.8	Not recorded	Not recorded	Not recorded
September	85	85	87	87	86	85	86	85	86	7.1	7.1	7.5	7.8	7.1	7.3	7.1	7.0	7.3	1.0		11.5			
October	89	88	88	85	85	87	87	88	87	7.1	7.2	7.8	7.3	7.5	7.4	7.4	7.4	7.4	2.2		14.4			
November	89	91	91	89	90	90	88	89	90	7.2	7.6	7.9	7.9	7.8	7.7	7.6	7.5	7.7	1.7		17.2			
December	86	86	84	81	83	83	87	85	84	7.5	7.5	7.8	7.7	7.5	7.5	7.7	7.8	7.6	1.6		18.9			
Total	1023	1028	1025	1018	1014	1017	1021	1025	1022	80.0	80.8	83.2	85.4	84.3	84.3	82.7	79.5	82.5	16.6		146.5			
Mean	85	86	85	85	85	85	85	85	85	6.7	6.7	6.9	7.1	7.0	7.0	6.9	6.6	6.9	1.4		12.2			

Frequency Table I for Signy Island, South Orkneys, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0	1040.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9	1044.9
January				3	4	4	8	13	43	81	29	24	23	7	5	4					
February								3	31	59	29	37	26	15	8	16					
March						2	7	9	20	36	39	45	23	23	33	11					
April					4	4	7	9	26	51	63	20	27	12	17						
May							9	12	23	43	58	39	23	17	8	12	4				
June						3	10	19	30	32	40	46	35	25							
July										28	33	29	26	28	46	46	12				
August				2	5	15	25	30	43	20	27	33	29	12	7						
September					1	5	22	30	33	41	45	42	12	3	4	2					
October			5	4	6	3	15	24	30	37	37	31	19	28	9						
November							2	13	10	42	77	53	31	12							
December						13	24	46	31	55	32	25	10	12							
Year			5	9	20	49	129	208	320	525	509	424	284	194	137	91	16				



Frequency Table III for Signy Island, South Orkneys, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																			
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	=	>
	15	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	to 79	to 84	to 89	to 94	to 99	100	
January										1	2	8	22	22	33	53	41	52		14
February												16	16	35	36	31	37	30		23
March									2	2	4	7	20	39	38	50	37	45		4
April									2	2	9	7	14	18	43	36	57	44		8
May					1		2	3	2	2	4	8	22	48	65	31	17	22		21
June							2					6	4	16	36	63	44	31	15	23
July	1			1		1	3	1		3	10	7	21	48	61	41	24	11		15
August					1	1	1	1		3	3	7	15	30	60	35	48	34		9
September								1		2	3	11	17	30	29	50	45	42		10
October									2	3	2	9	14	23	27	41	65	56		6
November									1	1		6	11	21	24	30	47	75		24
December									1	5	7	6	26	30	28	51	51	34		9
Total	1			1	2	2	8	6	10	24	50	96	214	380	507	493	500	460		166
Mean	—			—	—	—	1	1	1	2	4	8	18	32	42	41	42	38		14



# Frequency Table IV for Signy Island, South Orkneys, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>									LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud						
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= >40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS									
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	0 to 30	30 to 60	60 to 120	120 to 300		300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	
January			1	7	20	7	31	60	62	60	11	16	24	40	149	8	11	6	16	71	62	66	5	9	2	10	5	12	49	48	36	2	6			
February			1		13	19	21	41	50	79	4	22	23	35	135	5	8	3	12	49	66	81	1	2	1	8	3	12	36	53	43	1	1	1		
March				1	5	12	35	76	57	62	4	16	11	44	167	6	7		12	52	78	93	2	2	1	7		12	46	58	62	2		1		
April	1				4	19	10	25	41	42	98	13	23	29	45	104	26	27	2	11	37	51	79	20	7	2	27		10	27	31	40	13	1	4	
May					20	24	13	38	32	25	96	53	34	18	27	74	42	52	1	4	26	52	43	17	18	11	51	1	3	21	38	18	2	7	3	
June	1	4	2	16	19	18	33	27	21	99	30	31	24	25	77	53	54	2	11	39	43	52	9	11	5	54	2	8	31	28	20	4	2			
July	2	1	2	9	11	6	31	23	23	140	70	24	28	38	68	20	22	2	11	34	40	52	17	7	8	22	2	7	23	26	25	9	2	55		
August	4	2	7	8	20	17	28	46	19	97	25	37	21	36	100	29	36	1	6	47	63	49	21	1	3	33	1	6	38	44	22	5	1			
September	2	8	3	14	7	14	38	48	35	71	9	14	11	55	125	26	29	4	3	32	80	75	8	1	3	26	4	3	27	59	51	1		5		
October					1	27	9	37	36	32	106	9	27	18	33	146	15	17	2	20	57	72	60	11	7	1	17	2	16	45	54	27	1	5	1	
November					1	22	14	32	24	32	115	17	20	10	35	141	17	23	8	13	72	57	40	10	12	4	23	8	13	55	45	24	3	8	4	
December			1	4	13	7	40	56	34	93		15	10	58	157	8	8	2	7	57	90	75	9			8	1	7	49	64	51	7				
Total		10	15	17	85	200	146	389	510	432	1116	245	279	227	471	1443	255	294	33	126	573	754	765	130	77	41	286	29	109	447	548	419	50	31	13	127
Mean		1	1	1	7	17	12	32	43	36	93	20	23	19	39	120	21	25	3	11	48	63	64	11	6	3	24	2	9	37	46	35	4	3	1	11

Frequency Table V for Signy Island, South Orkneys, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			0	0	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 FOG		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm =	>1.0 mm =	>10.0 mm =	WIND FORCE = 6 ^	WIND FORCE = 8 ^	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F																					
January	2			2				14		9	20	5	9		29						5				
February	3			2				10	2	4	20	3	7		22				7	3					
March				1				17	3	6	21	7	7		25				6	2					
April	2	8		5				21	5	4	21		14		21				9	1		2			
May		2	18			Not recorded		13	3	1	26	3	4		12	2			14		1	9			
June		7	11			Not recorded		24	6	2	25	1	3		18				17			8			
July		2	15			Not recorded		20	7	1	14	3	3		13	3			19	1		3			
August			7			Not recorded		25	13	4	24	1	2		17	2			21	1		10			
September				2		Not recorded		29	13	5	23	3	5		25				18	2		11		1	
October	2			6				21	7	4	26	7	10		26				7			1			
November	1			4				19	8	8	16	3	11		28				4						
December				1				16	9	1	28	9	11		29				5	2		2			
Total	10	19	51	23				229	76	49	264	45	86		265	7			127	12	6	46	1		
Mean	1	2	4	2				19	6	4	22	4	7		22	1			11	1	1	4			

Frequency Table VI for Signy Island, South Orkneys, 1958.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :-																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	11.2		28	94	80	46	7	1	2	31	15	7	7	10	11	94	16	1
February	10.7	3	29	66	87	39	2	2	3	42	27	5	4	20	18	49	11	2
March	13.6	7	55	79	68	39	4	2		29	11	3	8	18	26	93	11	4
April	14.6	13	56	78	51	42	3	1	2	9	12	5	10	12	29	89	23	3
May	10.6	4	43	55	63	83	2			10	22	8	4	11	17	63	20	8
June	16.1	15	77	61	39	48	5	2		17	40	2	5	9	14	48	39	11
July	14.6	23	46	63	60	56	5	6	1	4	43	11	4	7	12	30	61	8
August	19.7	41	66	73	35	33	7	3	1		17	8	5	7	7	51	85	24
September	24.8	42	120	57	13	8	11	1			3		4	6	22	49	110	26
October	18.3	11	87	103	29	18	3	1	3	2	4	3	9	9	23	49	113	11
November	15.7	19	69	57	42	53		1	2	4	42	4	1	2	7	53	71	
December	15.2	17	43	103	57	28	3	15	10	11	26	6	4	11	24	51	54	5
Total	185.1	195	719	889	624	493	52	35	24	159	262	62	65	122	210	719	614	103
Mean	15.4	16	60	74	52	42	4	3	2	13	22	5	5	10	17	60	51	9

# Frequency Tables VII to X for Signy Island, South Orkneys, 1958.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				6	1		3	1		4			15
2	1	1		7	3	4		1	2	2	2		23
3	2		2	8	4	3	1	2	3	15	2		42
4	1			6	5		2	3	1	21	3	1	43
5	2			2	1			3	5	32	6		51
6	1			1	1		1			16	3		23
7				1					4				5
≥ 8													
Totals	7	1	2	31	15	7	7	10	11	94	16	1	202

CALMS - 46

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		2	5	2		2		1	1	3		18
2		1		6	1	3	1	6		5	2		25
3				9	7	2		4	11	8	2	1	44
4			1	7	3		1	6	4	17	1		40
5		1		6	5			4	1	7	1	1	26
6				4	9				1	5	2		21
7				4						4			8
≥ 8				1						2			3
Totals	2	2	3	42	27	5	4	20	18	49	11	2	185

CALMS - 39

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				3			1		6			1	11
2		1		3	3		3	3	7	3	1		24
3				7	3	1	2	2	3	13	2		33
4	3	1		5	2		2	11	4	13	2		43
5	1			5	1	2		1	1	24	1		36
6				2	2			1	3	21	4	2	35
7				4					2	13	1		20
≥ 8									6			1	7
Totals	4	2		29	11	3	8	18	26	93	11	4	209

CALMS - 39

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		1	1	1		1		3				8
2				3			1	1	1	2			8
3	1		1	2	6	2	5	3	1	8	6		35
4	1			3	2	1	2	4	5	21	3	2	44
5					1	2	1	1	9	16	4		34
6		1			2			2	8	18	6	1	38
7									2	14	2		18
≥ 8								1		10	2		13
Totals	3	1	2	9	12	5	10	12	29	89	23	3	198

CALMS - 42

# Frequency Tables XI to XIV for Signy Island, South Orkneys, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1	3	1	1			2	2	1	11
2	1			1				1	1	1	2		7
3				5	11	4	2	4	5	12	1	1	45
4				3	3	3	1	4	4	10	4		32
5	1							2	2	15	3		23
6					3				4	11	4	1	23
7					2				1	10	3	4	20
>= 8									2	1	1	1	4
Totals	2			10	22	8	4	11	17	63	20	8	165

CALMS - 83

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				4	3		1						8
2				1	1			1		1	2		6
3		1		2	3		3	2	4	6	4		25
4	2			2	3	1		4	6	11	3	1	33
5		1		2	7	1	1	1	1	5	7	2	28
6	2			5	11				3	8	11	3	43
7	1			1	9					13	5	5	34
>= 8					3			1		4	7		15
Totals	5	2		17	40	2	5	9	14	48	39	11	192

CALMS - 48

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2			1	3	1		2			1	1	11
2	1	2		2	1	2		2	1	1	5		17
3		1		1	6	6	4	1	3	2	5	3	32
4	1				5	2			3	7	14	3	35
5			3	1					3	6	15		28
6					9				1	9	10		29
7					2			1		3	10	1	17
>= 8	1				17			1	1	2	1		23
Totals	5	6	1	4	43	11	4	7	12	30	61	8	192

CALMS - 56

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	1		1	1	1	1	2	3	1		12
2					2	1			1		2		6
3		1			2	1	2	1		5	5		17
4	2				6	4	1	1	4	9	7	3	37
5					4	1	1			7	14	9	36
6	1	1			1			4		3	11	3	24
7	2				1					12	23	4	42
>= 8	2									12	22	5	41
Totals	7	3	1		17	8	5	7	7	51	85	24	215

CALMS - 33

# Frequency Tables XV to XVIII for Signy Island, South Orkneys, 1958.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	60 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1										1		2
2							3						3
3	2									2	3	1	8
4	4				2				9	5	8	2	30
5								2	3	6	13	3	27
6	2	1						3	4	15	28	1	54
7	2				1		1		2	14	35	11	66
≥ 8								1	4	7	22	8	42
Totals	11	1			3		4	6	22	49	110	26	232

CALMS - 8

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	60 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1												3	3
2					1				1	1			5
3						1	2		4	3	8	1	21
4	2	1	1	1	2		2	2	5	14	19		49
5	1		2					4	7	12	22	2	54
6					1	1		2	4	10	25	2	45
7									2	7	28	5	42
≥ 8							1			2	8		11
Totals	3	1	3	2	4	3	9	9	23	49	113	11	230

CALMS - 18

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1		3	1	1			1	1		8
2					7	1		1	2	3	2		16
3					3	2		1	4	5	3		18
4					7				1	11	8		27
5				3	6					11	10		30
6		1	1		4					17	22		45
7				1	6					4	13		24
≥ 8					6					1	12		19
Totals		1	2	4	42	4	1	2	7	53	71		187

CALMS - 53

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1						1	1		1	2			5
2		1			5	1	2	4	3	2			18
3	1	2		2	6	3	1	4	5	6	3	1	34
4		7	3	1	7	1		1	6	17	15	1	59
5	1	5	2	3	3				5	7	18		44
6			1	3	5			1		11	10	1	32
7	1		2	2					1		4	1	11
≥ 8			2					1	3	6	4	1	17
Totals	3	15	10	11	26	6	4	11	24	51	54	5	220

CALMS - 28

Frequency Table XIX for Signy Island, South Orkneys, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>													ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320		
	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>		
	10	40	70	100	130	160	190	220	250	280	310	340		
1	6	1	5	21	17	5	12	4	13	13	12	3	112	
2	3	6		24	23	12	10	21	19	21	18	1	158	
3	6	5	3	36	52	26	22	24	43	85	44	8	354	
4	16	9	5	28	47	12	11	36	52	156	87	13	472	
5	6	10	5	21	28	6	7	18	37	148	114	17	417	
6	6	4	2	15	48	1	1	13	28	144	136	14	412	
7	6		2	13	21		1	1	10	98	124	31	307	
" > 8	3		2	1	26		1	5	8	54	79	16	195	
Totals	52	35	24	159	262	62	65	122	210	719	614	103	2427	

CALMS 493.

Means and Extremes Table I for Hope Bay, Grahamland, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	987.8	1012.8	31st	971.4	10th	29.7	29.7	31.2	33.3	33.9	33.1	31.2	30.4	31.6	36.5	27.7	49	31st	23	16th
February	997.4	1017.5	2nd	979.6	7th	26.7	26.5	28.6	30.8	30.6	30.1	27.8	26.5	28.5	33.8	23.5	53	14th	13	18th
March	994.3	1013.9	5th	965.0	17th	26.8	27.8	28.8	29.1	29.0	27.2	26.3	25.8	27.6	35.6	20.0	53	14th	7	18th, 20th
April	988.7	1013.2	22nd	967.0	13th	16.9	16.6	15.9	16.7	16.9	15.9	14.7	16.3	16.2	25.8	8.9	45	17th	-17	30th
May	994.3	<u>1018.5</u>	<u>16th</u>	966.3	26th	7.4	6.8	5.1	4.9	4.6	5.2	5.8	6.8	5.8	15.4	-3.3	45	23rd	-22	3rd, 4th
June	991.7	1015.4	14th	962.3	4th	4.8	4.1	3.9	4.3	4.3	3.9	4.2	4.1	4.2	12.3	-4.1	42	2nd	<del>-28</del>	<u>24th</u>
July	1003.1	1017.1	6th	967.4	31st	6.3	7.5	7.1	7.0	8.2	7.0	7.3	7.5	7.2	16.7	-2.2	<u>57</u>	<u>27th</u>	-21	12th
August	980.8	1010.1	16th	<u>947.0</u>	<u>8th</u>	10.5	11.2	10.3	10.3	11.1	11.6	10.5	9.5	10.6	22.3	0.1	39	17th	-14	9th
September	979.2	1005.7	19th	956.8	23rd	15.5	16.1	16.2	18.2	17.2	17.0	16.7	16.1	16.6	27.7	6.4	39	27th, 29th	-11	18th
October	983.8	1006.3	22nd	960.4	25th	24.7	25.7	26.2	27.2	28.1	27.2	26.1	25.5	26.3	32.4	20.0	44	2nd	3	21st
November	989.3	1005.9	16th	967.9	22nd	30.4	31.5	32.8	34.0	35.1	34.7	32.2	30.9	32.7	38.8	27.6	53	18th	18	16th
December	985.9	1003.6	25th	962.8	23rd	28.5	29.7	31.0	31.5	33.4	32.5	30.2	29.2	30.7	36.2	26.2	52	22nd	20	9, 11, 13
Total	11876.3	12140.0	—	11573.9	—	228.2	233.2	237.1	247.3	252.4	245.4	233.0	228.6	238.0	333.5	150.8	571	—	-29	—
Mean	989.7	1011.7	—	964.5	—	19.0	19.4	19.8	20.6	21.0	20.5	19.4	19.1	19.8	27.8	12.6	47.6	—	-2.4	—



Means and Extremes Table II for Hope Bay, Grahamland, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE			RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000		2300	REC.					EST.
January	90	88	85	80	81	81	88	89	85	7.2	7.1	6.9	6.7	6.7	6.5	6.8	7.0	6.9	4.3		19.1			
February	86	85	81	78	81	83	84	87	83	5.7	6.3	5.7	5.8	6.0	6.1	6.5	5.6	5.9	4.9		15.9			
March	80	76	75	78	76	84	82	83	79	5.3	5.9	6.4	6.1	6.2	6.7	6.0	5.7	6.0	4.0		12.7			
April	81	80	80	79	80	78	78	80	79	5.7	6.4	6.7	6.8	6.4	6.6	5.2	5.2	6.1	1.7		9.5			
May	75	77	74	76	78	77	76	79	77	4.3	3.8	4.8	4.7	4.9	4.7	4.5	4.2	4.4	1.9		6.6			
June	73	71	77	78	78	77	75	77	76	5.3	4.5	5.5	5.9	5.9	5.8	5.3	5.4	5.5	0.7		4.7			
July	77	74	78	79	75	75	76	78	77	4.1	3.8	5.3	4.9	4.8	4.7	4.1	4.4	4.5	1.8		5.6			
August	78	77	75	75	79	79	77	77	77	4.7	5.3	6.3	5.7	6.6	6.6	5.3	5.5	5.7	1.9		8.4			
September	67	68	67	67	69	68	69	69	68	4.3	5.1	6.0	5.5	5.9	5.9	5.0	4.2	5.2	3.4		11.5			
October	76	75	76	77	76	77	78	79	77	5.6	6.6	5.9	6.3	6.5	6.3	6.5	5.5	6.1	4.1		14.7			
November	79	74	74	72	73	70	79	81	75	6.7	6.3	6.5	6.0	6.0	5.8	6.4	6.3	6.3	3.7		17.7			
December	80	76	75	72	71	71	75	77	75	6.4	6.4	6.4	6.2	6.8	6.5	5.8	6.2	6.3	4.9		20.4			
Total	942	924	917	911	917	920	937	956	928	65.3	67.5	72.4	70.6	72.7	72.2	67.4	65.2	68.9	37.3		146.8			
Mean	79	77	76	76	76	77	78	80	77	5.4	5.6	6.0	5.9	6.1	6.0	5.6	5.4	5.7	3.1		12.2			

Frequency Table I for Hope Bay, Grahamland, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January									16	39	51	53	48	15	10	7	9				
February										3	15	24	29	67	62	7	8	9			
March								4	6	10	19	45	49	37	44	22	12				
April								7	4	46	46	44	30	20	12	17	14				
May								5	7	10	15	36	55	50	35	16	10	9			
June							2	1	13	44	29	32	31	16	16	27	22	7			
July								2	2	1	4	8	19	39	63	47	42	21			
August			1	2	8	20	24	37	36	35	24	20	18	11	10	2					
September					9	19	21	34	40	43	34	23	11	2	4						
October						4	18	21	40	43	69	24	15	9	5						
November							1	8	25	47	54	49	14	36	6						
December							1	7	34	28	49	45	32	22	30						
Year				1	2	17	46	90	182	322	396	468	409	324	330	168	119	46			



Frequency Table III for Hope Bay, Grahamland, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January								2	5	5	11	6	16	15	27	42	53	58	8
February					1				3	6	3	9	16	35	39	44	41	25	2
March		3		1	4	2	5	1	5	6	7	15	17	38	30	38	38	34	4
April					1		2	1	5	10	5	17	22	51	35	42	31	17	1
May							2	3	7	11	16	23	27	48	60	34	13	4	
June				1		1	6	3	10	6	16	20	31	32	47	32	17	15	3
July	1			2	2	3	7	5	10	13	13	12	22	23	34	35	43	23	
August				1		1		4	9	9	21	17	27	41	49	16	34	19	
September			4	3	9	7	14	9	12	10	17	19	25	35	26	30	16	4	
October					1	3	5	10	8	8	15	13	27	29	38	38	35	18	
November			2	1		4	5	3	14	15	11	16	29	22	34	32	40	11	1
December		1		1	6	3	6	6	6	8	15	13	32	36	49	36	18	12	
Total	1	4	6	10	24	24	52	47	94	107	150	180	291	405	468	419	379	240	19
Mean	—	—	1	1	2	2	4	4	8	9	13	15	24	34	39	37	32	20	2

# Frequency Table IV for Hope Bay, Grahamland, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud			
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	>40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200		1200 to 2400	2400 to 6000	= > 6000
January		1	3	15	6	13	37	41	56	76	8	5	26	90	111	8	8	9	30	55	101	37	1	7	8		9	26	25	41	13	1	2		
February			2	7		10	44	36	71	54	28	18	25	54	92	7	7	1	20	52	92	24	16	7	7		1	14	28	36	8	1		5	
March	3	1	4	6	7	11	27	53	97	39	26	89	48	24	53	8	8	5	27	38	118	26	16	7	8		5	21	14	18	6	3	3	3	
April	1		15	13	15	16	70	44	55	11	12	34	25	34	103	32	32	1	40	41	103	11	7		32		1	36	26	24	3			5	
May	5	1	7	19	11	14	33	50	72	36	36	92	42	17	41	20	20		33	60	79	20	16	2	20			14	17	13	12			18	
June	7		12	12	11	22	45	52	48	31	35	85	37	14	56	13	13	1	40	57	74	20	22	3	13	1		26	24	12	12			10	
July	1		4	13	12	19	41	48	76	34	37	108	39	22	36	6	20		3	36	56	53	43	21	3	6		1	18	18	5	10			13
August	6	3	8	22	17	29	57	49	47	10	20	70	27	35	79	17	17	2	12	42	70	65	20	5	10	17	2	7	32	22	27	8			5
September	9		4	37	19	17	44	47	35	28	27	80	44	13	62	14	22	4	4	34	51	76	22	11	6	14		3	14	24	23	7			10
October	9	1	4	9	15	29	49	51	32	49	6	78	45	35	66	18	25	2	3	25	76	77	34	4	2	20		2	13	24	14	16			
November			2	7	10	12	29	44	62	74	12	101	35	26	53	13	13			24	59	108	24	6	6	13			20	19	21	18			
December	4		6	14	9	7	20	47	58	83	24	74	44	21	69	16	16			27	33	108	40	14	6	16			23	12	30	16	5	1	4
Total	45	7	71	174	132	199	496	562	709	525	271	834	437	385	821	172	201	9	38	378	648	1054	321	139	59	174	3	29	257	253	264	129	10	6	73
Mean	4	1	6	15	11	17	41	47	59	44	23	69	36	32	68	14	17	1	3	31	54	88	27	12	5	15	-	2	21	21	22	11	1	1	6

Frequency Table V for Hope Bay, Grahamland, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 Fog		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm =	>1.0 mm =	>10.0 mm =	WIND FORCE = 6 ^	WIND FORCE = 8 ^	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F																					
January				11				12	4	2	19				18				5		7	6			
February	1			5				13	5	2	16				13				10		3	5			
March				6				21	7	3	17	1			14				11		6	6			
April			1	3	Not recorded	Not recorded	Not recorded	14	6		22				14	1			16		5	9			
May		7	10	1				21	13		18				5	2			19		1	8			
June		11	18	1				19	8	1	18				9	1			23			12			
July		12	20	3				20	10		14				9	2			16			7			
August		4	14					24	10		22	1			12				28		1	17			
September			5					23	15	1	22				10				23			17			
October				1				19	8	2	22				14				18		1	11			
November	2			8				15	5		19	1			11				3		3	5			
December	2			6				16	5		21				15				8		2	7			
Total	5	34	68	45				217	96	11	230	3			144	6			180		29	110			
Mean	-	3	6	4				18	8	1	19	-			12	1			15		2	9			

Frequency Table VI for Hope Bay, Grahamland, 1958.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :-																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOWS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	10.3	5	37	61	88	57	24	9	8	11	12	10	20	52	17	8	7	13	
February	13.6	15	36	69	65	39	5	7	5	1	4	28	29	73	13	12	4	4	
March	13.3	11	45	81	76	35	13	3	6	6	10	24	23	49	40	12	13	14	
April	13.2	16	31	78	89	26	7	7	4	2	6	22	45	67	36	6	6	6	
May	15.7	38	40	59	55	56	8	1	2	1	7	25	23	84	18	13	3	7	
June	15.5	25	42	68	76	29	4	10	3	1	8	22	23	87	27	14	8	4	
July	14.6	25	38	73	88	24	14	6	2	6	9	14	49	52	34	17	10	11	
August	15.1	23	41	90	75	19	22	7	3	5	8	27	15	59	28	31	13	11	
September	16.7	28	52	77	65	18	14	7	6	5	5	11	19	35	59	31	17	13	
October	16.5	28	48	67	80	25	15	13	5	1	10	13	14	58	28	26	26	14	
November	11.5	5	24	81	106	24	15	15	7	4	9	34	15	12	37	38	14	16	
December	13.5	15	38	75	96	24	14	5	2	6	12	20	28	70	24	22	5	16	
Total	169.5	234	472	879	959	376	155	90	53	49	100	250	303	698	361	230	126	129	
Mean	14.1	9	39	73	80	31	13	7	4	4	8	21	25	58	30	19	11	11	

# Frequency Tables VII to X for Hope Bay, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1	5	2	2	1			1		1		16
2	5	3	1	4	2	2	3	6	1	1	1	3	32
3	8	2	2	5	2	2	1	6	5		2	5	40
4	8	3			6	2	3	13	3	4	3	5	50
5							5	3	3				11
6						1	4	14	3	2			24
7						2	1	9	1				13
≥ 8							3	1		1			5
Totals	24	9	8	11	12	10	20	52	17	8	7	13	191

CALMS - 57

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1	3			1	1	5		1			15
2		2		1		3	3	2	2	2	1	1	17
3	2		2		2	9	9	7		2			33
4		3			1	11	1	12	2	1	1	1	33
5						4	10	15	1	4	1	1	36
6					1		4	11	4				21
7							1	9	4	1			15
≥ 8		1						12		1	1		15
Totals	5	7	5	1	4	28	29	73	13	12	4	4	185

CALMS - 39

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3		1	4	2	1	2	2	4	1	1	1	22
2	1	1	3	2	4	4	3		4	1	2	1	26
3	2	1	2		3	9	4	1	4	1		1	28
4	7	1				9	7	8	4	5	3	8	52
5					1			9	7	4	5	3	29
6						1	7	9	12		2		31
7								10	4				14
≥ 8								10	1				11
Totals	13	3	6	6	10	24	23	49	40	12	13	14	213

CALMS - 35

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1	2	3	2	5	7		1		21
2		2	2	1	1	9	5	4	6	2		1	33
3	3	4			1	7	7	5	5	1		2	35
4	3	1	2		2	3	17	10	8	1	4	2	53
5	1						7	12	2	2	1		25
6								9	4			1	14
7							6	9	2				17
≥ 8							1	13	2				16
Totals	7	7	4	2	6	22	45	67	36	6	6	6	214

CALMS - 26



# Frequency Tables XI to XIV for Hope Bay, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1		1		4	6	2	1	2		1	18
2			2		2	4	1	2			1		12
3	4				1	9	3	3	2			3	25
4	2				1	7	5	9	3	4		2	33
5	1				1		7	11	3	2	1		26
6					1	1		16	4	2		1	25
7	1				1		1	7	3	2			15
>= 8								34	2	1	1		38
Totals	8	1	2	1	7	25	23	84	18	13	3	7	192

CALMS - 56

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1	1			1	6	3	5	2	1			20
2		3	1	1	3	3	3	1	1		2		18
3	1	4			2	10	2	7	7	4	1		38
4	2	2	1		2	2	3	18	3	1	2	4	40
5						1	4	13	5	5			28
6							5	12	1		2		20
7			1				3	11	5	1	1		22
>= 8								20	3	2			25
Totals	4	10	3	1	8	22	23	87	27	14	8	4	211

CALMS - 29

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	2	1	3	3	3	14	5	3	1	2	1	40
2		2	1	1	2	4	1	2		1		2	16
3	6	1		1	1	2	9	3	3	2	2	2	32
4	3	1				3	8	12	4	3	4	5	43
5				1	2	2	7	11	4	1	1	1	30
6	1				1		9	6	3	1	1		22
7	1							3	6	6			16
>= 8	1						1	10	11	2			25
Totals	14	6	2	6	9	14	49	52	34	17	10	11	224

CALMS - 24

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	1		2	1	6	3	4	3	2		1	25
2		2	3	2	2	5	3	3	3				20
3	3	1			1	8	5	3	2	6		1	30
4	7	2			2	8	5	17	1	8	1	2	53
5	6	1		1	1		1	10	7	7	1	2	37
6	4						1	10	6	2	5	4	32
7					1			4		3		1	9
>= 8								8	6	3	6		23
Totals	22	7	3	5	8	27	15	59	28	31	13	11	229

CALMS - 19

# Frequency Tables XV to XVIII for Hope Bay, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	60 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1			2	3	5		3	4		2	20
2	2	1	1	1		3	6	1	6	1	2		24
3	2	3		3	2	1	1		2	3	3	1	21
4	3	2	4	1	1	2	4	5	7	5	5	4	43
5	6		1			1	1	7	8	6	2	2	34
6								1	6	16	5		31
7	1							1	3	9	3	3	21
≥ 8						1		13	8	4	2		28
<b>Totals</b>	<b>14</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>11</b>	<b>19</b>	<b>35</b>	<b>59</b>	<b>31</b>	<b>17</b>	<b>13</b>	<b>222</b>

CALMS - 18

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	3	1	4	4	3	1			3	2	24
2	1	1	2		4	2	1	5	2	3	1	1	23
3	5	4			2	4	3	7	3	2	1	2	33
4	6	5				2	3	10	6	5	5	5	47
5		1				1		5	4	5	2	2	20
6	1						2	4	7	5	5		24
7	1						2	6	5	5	4	1	24
≥ 8								20	1	1	5	1	28
<b>Totals</b>	<b>62</b>	<b>13</b>	<b>5</b>	<b>1</b>	<b>10</b>	<b>13</b>	<b>14</b>	<b>58</b>	<b>28</b>	<b>26</b>	<b>26</b>	<b>14</b>	<b>223</b>

CALMS - 25

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	7	3	1	1		1	2	3	1			22
2	3	4	2	1	1	5	4	2	3	2	2	1	30
3	4	2		1	6	11	4	6	4	6	2	8	54
4	5	2	2	1	1	8	4	1	10	12	6	3	55
5						7	1	1	3	7	4	3	26
6						3	1		9	2		1	16
7									4	4			8
≥ 8									1	4			5
<b>Totals</b>	<b>15</b>	<b>15</b>	<b>7</b>	<b>4</b>	<b>9</b>	<b>34</b>	<b>15</b>	<b>12</b>	<b>37</b>	<b>38</b>	<b>14</b>	<b>16</b>	<b>216</b>

CALMS - 24

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	2	1	3	1	5		2			1		5
2	2		1		3	7	3				3		19
3	6	3		3	5	5	8	7	8	4			7
4	3				3	3	6	15	4	4	4		5
5							8	11	4	4			1
6							2	17		1	1		21
7							1	10	4	2			17
≥ 8								8	4	3			15
<b>Totals</b>	<b>14</b>	<b>5</b>	<b>2</b>	<b>6</b>	<b>12</b>	<b>20</b>	<b>28</b>	<b>70</b>	<b>24</b>	<b>22</b>	<b>5</b>	<b>16</b>	<b>224</b>

CALMS - 24

Frequency Table XIX for Hope Bay, Grahamland, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	21	19	17	18	19	37	40	33	27	14	8	11	264
2	14	21	19	14	24	51	33	28	28	16	12	10	270
3	46	25	6	13	28	77	56	55	45	31	11	32	425
4	49	22	9	2	19	60	66	130	55	53	38	46	549
5	14	2	1	2	5	16	51	108	51	47	18	15	330
6	6				3	6	36	114	69	20	16	11	281
7	4		1		2	2	16	81	47	27	8	3	191
= > 8	1	1				1	5	149	39	22	15	1	234
Totals	155	90	53	49	100	250	303	698	361	230	126	129	2544

CALMS 376.

Means and Extremes Table I for Admiralty Bay, South Shetlands, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-3 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	987.5	1015.5	31st	969.2	1st	34.0	34.4	35.2	36.7	36.3	36.2	35.3	34.2	35.3	38.7	32.3	<u>48</u>	<u>30th</u>	29	1, 2, 13, 14, 16, 18
February	997.7	1017.2	2nd	971.9	7th	31.3	31.0	32.0	32.9	33.1	33.2	32.2	31.7	32.2	35.9	29.4	45	14th	19	18th
March	995.9	1016.9	5th	970.5	16th	31.8	31.6	31.6	33.5	34.1	33.4	32.8	32.4	32.7	37.9	28.5	<u>48</u>	<u>30th</u>	19	18th, 23rd
April	988.4	1008.6	20th	970.9	5th	29.8	29.8	29.6	29.9	30.0	29.1	29.0	28.9	29.5	34.2	25.5	42	2nd	4	30th
May	994.6	<u>1018.7</u>	<u>10th</u>	972.7	26th	18.4	18.8	19.0	19.5	19.6	19.0	19.4	19.2	19.1	25.3	12.4	34	30th	-5	4th
June	992.2	1015.6	15th	959.3	4th	10.0	8.6	8.8	9.9	11.4	12.0	11.5	11.1	10.4	18.4	3.6	37	8th	-14	27th
July	1004.9	1017.0	20th	972.4	31st	8.4	8.3	8.2	9.0	9.2	8.7	9.7	8.9	8.8	16.4	0.4	39	27th	<u>-19</u>	<u>13, 18, 19</u>
August	982.9	1013.9	16th	<u>951.2</u>	<u>8th</u>	16.3	15.5	14.7	15.8	16.3	16.5	15.4	14.9	15.7	23.7	7.2	35	1st	-17	9th
September	983.3	1009.1	19th	955.6	23rd	17.6	16.9	18.9	20.6	21.7	21.0	20.2	18.8	19.5	27.9	10.9	43	20th	-12	3rd
October	986.4	1009.8	22nd	964.4	25th	27.6	27.6	29.0	30.1	30.8	29.2	28.3	28.2	28.9	33.5	24.5	41	31st	6	22nd
November	991.2	1007.8	16th	973.9	29th	32.1	32.1	33.1	33.8	34.1	33.8	32.8	32.2	33.0	37.5	29.8	45	4th, 19th	23	9th
December	987.9	1007.2	28th	967.6	9th	30.2	30.6	31.5	32.4	32.6	32.0	31.1	30.4	31.3	34.4	28.4	42	22nd	23	11th
Total	11892.9	12157.3	—	11599.6	—	287.5	285.2	291.6	304.1	309.2	304.1	297.7	290.9	296.4	363.8	232.9	499	—	56	—
Mean	991.1	1013.1	—	966.6	—	24.0	23.8	24.3	25.3	25.8	25.3	24.8	24.2	24.7	30.3	19.4	41.6	—	4.7	—

N. B. In Pages 84 to 95 inclusive only 246 observations in January.

Means and Extremes Table II for Admiralty Bay, South Shetlands, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	89	86	86	81	82	84	85	88	85	7.0	6.7	6.5	6.3	6.6	6.7	6.8	6.9	6.7	3.8		18.5			
February	89	87	85	82	84	81	83	86	85	7.5	7.6	7.2	7.5	7.2	7.2	7.3	7.1	7.3	2.1		15.7			
March	85	86	87	81	82	84	84	84	84	6.8	7.1	7.0	6.5	6.8	6.9	6.6	6.3	6.7	1.6		12.7			
April	87	85	84	84	84	83	85	86	85	6.5	6.7	6.8	6.9	6.9	7.2	6.6	7.0	6.8	1.0		9.7			
May	83	80	78	81	81	83	82	83	81	5.9	6.5	6.7	6.0	6.4	6.3	6.5	5.9	6.3	0.5		7.0			
June	82	80	82	81	83	84	82	83	82	5.9	4.8	6.1	5.4	6.0	5.8	5.6	5.7	5.7	0.0		5.3			
July	83	82	79	76	79	78	81	84	80	5.4	5.0	5.6	4.7	5.1	4.6	4.3	4.6	4.9	0.6		6.1			
August	84	84	83	84	80	84	84	83	83	6.3	6.5	7.0	6.8	6.7	6.1	5.5	6.0	6.4	1.0		8.6			
September	79	78	75	78	79	79	80	82	79	5.2	5.7	6.2	6.6	7.0	6.0	6.4	6.1	6.2	1.8		11.5			
October	87	85	81	79	78	83	85	86	83	7.0	6.7	6.7	6.9	7.0	6.8	7.0	6.7	6.9	2.6		14.5			
November	84	84	81	81	83	84	85	86	83	6.4	6.9	6.6	6.4	6.7	6.6	6.7	6.4	6.6	4.9		17.5			
December	82	81	79	77	75	76	79	80	79	7.3	6.8	6.7	6.5	6.4	6.9	7.1	7.4	6.9	3.7		19.5			
Total	1014	998	980	965	970	983	995	1011	989	77.2	77.0	79.1	76.5	78.8	77.7	76.4	76.1	77.4	23.6		147.4			
Mean	85	83	82	80	81	82	83	84	82	6.4	6.4	6.6	6.4	6.6	6.5	6.4	6.3	6.5	2.0		12.3			

Frequency Table I for Admiralty Bay, South Shetlands, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January								1	14	43	41	65	38	18	9	5	8	4			
February									4	5	8	21	26	74	56	10	3	17			
March									5	10	20	40	40	39	42	34	12	6			
April									24	36	29	53	34	25	15	24					
May									2	18	32	28	51	55	24	9	15	14			
June						1		1	9	33	40	27	28	35	17	25	17	7			
July									2	2	2	3	12	31	51	79	55	11			
August					2	10	11	19	40	34	34	25	14	23	11	19	6				
September						6	9	13	38	27	32	42	35	20	11	7					
October							1	9	27	33	33	48	53	24	10	10					
November									8	15	45	44	45	34	33	16					
December								4	24	30	55	26	31	36	35	7					
Year					2	17	21	47	197	286	371	422	407	414	314	245	116	59			



Frequency Table III for Admiralty Bay, South Shetlands, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :- 1 & 5																			
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	=	>
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100	
January											7	12	28	26	43	41	39	30	20	
February									3		2	6	20	32	36	49	41	28	7	
March						1			1	1	6	12	18	35	44	36	59	29	6	
April									1	3	14	6	16	23	42	46	41	43	5	
May								1	2	2	8	10	25	50	57	49	21	16	7	
June								1		3	3	9	16	33	97	44	19	14	1	
July	2	2			2	1	1	3	1	6	1	9	15	42	65	57	34	4	3	
August								1	1	2	11	14	15	26	52	56	28	36	6	
September					1	2	2	1	4	11	11	19	30	26	44	37	34	10	8	
October						1			1	3	3	16	29	36	43	41	37	28	10	
November								3		1	7	12	31	21	41	42	34	39	9	
December							1		3	1	18	28	51	22	33	43	34	12	2	
Total	2	2			3	5	4	10	17	33	91	153	294	372	597	541	421	289	84	
Mean	—	—			—	—	—	1	1	3	8	13	25	31	50	45	35	24	7	



# Frequency Table IV for Admiralty Bay, South Shetlands, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud					
	< 40m		40m - 200m		200m - 400m		400m - 1km		1km - 2km		2km - 4km		4km - 10km		10km - 20km		20km - 40km		> 40km		ALL AMOUNTS											7-8 OKTAS				
																					ALL AMOUNTS											7-8 OKTAS				
	0	1-2	3-5	6-7	8	9	0	30	60	120	300	600	1200	2400	=	0	30	60	120	300	600	1200	2400	=												
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	>													
30	60	120	300	600	1200	30	60	120	300	600	1200	2400	6000	6000	30	60	120	300	600	1200	2400	6000	6000													
January				5	6	5	30	50	73	77	13	49	59	52	71	2	2		4	27	90	105	5	9	4	2										
February				5	4	11	30	53	103	18	2	13	40	40	117	12	12	3	1	20	89	93	4	2		12	3	1	19	53	43	2				
March			2	6	5	5	33	79	91	27	14	28	57	45	90	14	14		1	26	77	111	2	12	2	14			18	36	27	2	3	1	3	
April				8	6	5	46	94	65	16	1	23	67	61	78	10	10	3	2	22	87	112	3	1		10	3	2	19	45	29					
May		6	2	23	23	7	44	57	46	40	17	38	38	48	82	25	25	1	1	18	96	83	7	9	3	25		1	17	58	47	3	2	1	5	
June		2	3	43	20	14	57	45	37	19	45	30	28	18	71	48	48			20	101	24	3	9	7	48			13	59	4	3	1		28	
July		11	4	22	6	11	32	51	66	45	68	44	40	23	37	36	36			4	102	36	2	10	15	36			3	37	4		1	4	43	
August	9	20	10	35	12	15	52	63	26	6	21	23	35	38	49	82	83			14	97	30	3	1	4	82			11	38	11	2		1	16	
September		8	4	18	33	24	41	44	59	9	31	29	44	40	38	58	58			10	104	30	7	8	9	58			10	42	3	1		1	14	
October	1	1	1	16	15	21	62	71	39	21	6	25	50	52	76	39	39		2	30	105	58	8	6		39		2	27	57	17		2			
November				13	6	12	33	41	64	71	20	35	47	65	54	19	19			43	75	79	4	14	6	19			30	31	11		5	2		
December		1		8	5	14	21	43	85	71	15	35	52	65	72	9	10		1	20	111	88	3	11	2	10			17	58	28		4		2	
Total		10	49	26	202	141	144	481	691	754	420	253	372	557	547	835	354	356	7	12	254	1134	849	51	92	52	356	6	7	204	551	244	15	21	10	111
Mean		1	4	2	17	12	12	40	58	63	35	21	31	46	46	70	29	30	1	1	21	95	71	4	8	4	30	1	1	17	46	20	1	2	1	9

Frequency Table V for Admiralty Bay, South Shetlands, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 FOG		10 & 17 HAIL			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	= > 0.10 mm	= > 1.0 mm	= > 10.0 mm	WIND FORCE > 6	WIND FORCE > 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft	
	> 32°F	< 5°F	< -4°F	> 41°F																						
January	15			3				9	1	5	13		6		16					1		3				
February	6			3				4		5	15	3	4		18				2	2	3	1				
March	3			5				11	4	8	15	3	10		18				4	2	3	1				2
April	3			1				16	3	6	24	3	4		20				13			3				
May	3	1	1		Not recorded	Not recorded	Not recorded	16	6	4	22				17		Not recorded	Not recorded	21		2	10				
June		6	9					14	3	1	25		2		18	3			23		8	9				
July		9	14					13	6	3	16		1		12	4			17		9	5				
August		2	7					23	15	1	23				19		Not recorded	Not recorded	30		6	17				
September		2	2	1				25	14	3	26	2	2		19	1			25		1	14				
October								19	9	4	27	4	5		21				16	1	6	6				1
November	4			4				11	2	4	14	1	5		18				3			5				
December				1				9	1	4	17		1		19				6		6	1				
Total	34	20	33	18				170	64	48	237	16	40		215	8			160	6	44	75				3
Mean	3	2	3	1				14	5	4	20	1	3		18	1			13	1	4	6				-

Frequency Table VI for Admiralty Bay, South Shetlands, 1958.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :—																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	10.1	2	12	85	126	21	50	17	11	28	8	10	5	9	11	33	13	30	
February	7.5		7	46	138	33	8	7	27	30	30	7	10	17	3	21	17	14	
March	12.5	7	26	92	104	19	46	9	21	13	10	6	11	20	16	22	27	28	
April	13.4	4	33	95	92	16	46	9	20	25	1	6	5	18	34	28	17	15	
May	14.2	16	28	109	70	25	26	9	23	40	6	4	6	13	37	34	19	6	
June	11.5	5	27	89	62	57	26	10	13	38	14	11	3	4	13	29	11	11	
July	11.2	9	26	78	77	58	28	9	4	41	12	6	2	4	14	33	16	21	
August	18.2	39	35	100	54	20	50	15	7	21	7	1	3	8	8	78	22	8	
September	17.8	30	52	84	45	29	53	25	6	4	5	5	1	2	21	64	15	10	
October	16.2	18	38	104	81	7	62	31	7	8	7	4	3	10	24	44	22	19	
November	12.7	2	29	94	94	21	39	24	14	11	18	3	4	10	18	32	25	21	
December	11.2	4	21	91	94	38	18	9	9	22	6	14	16	13	31	50	17	5	
Total	156.5	136	334	1067	1037	344	452	174	162	281	124	77	69	128	230	468	221	188	
Mean	13.0	11	28	89	86	29	38	15	13	23	10	6	6	11	19	39	18	16	

# Frequency Tables VII to X for Admiralty Bay, South Shetlands, 1958.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	6	1		2	4	1	1		1	3	2	2	23
2	4	4		3		1		4	2	6	1	4	29
3	17	2	2	11	2	4	4	2	1	12	7	10	74
4	9	5	9	11	2	4		2	4	7	3	8	64
5	8	4						1	2			6	21
6	4	1		1					1	5			12
7													
∑ 8	2												2
Totals	50	17	11	28	8	10	5	9	11	33	13	30	225

CALMS - 21

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1	4	4	2	5	3	5		8	1	4	40
2	1	2	3	3	6		4	5	1	2	5	5	37
3	4		11	6	8	2	2	6	2	8	8	4	61
4		1	5	7	9		1			2	3	1	29
5		2	4	5	4			1		1			17
6				5	1								6
7		1											1
∑ 8													
Totals	8	7	27	30	30	7	10	17	3	21	17	14	191

CALMS - 33

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1		1		2	2	1		4	2	5	21
2	4	2	1			2	2	3		2	4	3	23
3	11	3	4	5	2	2	3	5	2	4	10	9	60
4	5	1	6	3	4		3	5	4	6	5	9	51
5	11	1	6	4	3		1	4	2	4	5		41
6	4		4		1			2	6	2	1	1	21
7	4								1				5
∑ 8	4	1							1			1	7
Totals	46	9	21	13	10	6	11	20	16	22	27	28	220

CALMS - 19

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3					1				5	3		12
2	4	2	3	1		2	1		3	1	1	2	20
3	10	1	8	6		3	2	5	9	5	4	7	60
4	12	5	6	5			1	5	8	6	3	4	55
5	6	1	3	8	1			4	6	6	4	1	40
6	5			3			1	3	7	3	2	1	25
7	3			2					1	2			8
∑ 8	3							1					4
Totals	46	9	20	25	1	6	5	18	34	28	17	15	224

CALMS - 16

# Frequency Tables XI to XIV for Admiralty Bay, South Shetlands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1		1					1		2	1	2	8
2	3		1	3	1	3	2		3	3	3	1	23
3	8		2		1	1	3	2	6	8	7	1	39
4	3	4	5	13	3			6	20	8	6	2	70
5	3	2	4	16			1	3	5	4	1		39
6	1	1	6	3	1			1	1	4	1		19
7	1		1	5					2				9
≥ 8	6	2	3							5			16
Totals	26	9	23	40	6	4	6	13	37	34	19	6	223

CALMS - 25

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1	1	1	3	1	1	2	1		1		12
2	2	1	2	1	2	1	1		1	2	4	3	20
3	1		4	6	2	2		1	3	4	2	5	30
4	6	3	3	8	2	6	1		2	12	1	3	47
5	6	4	2	15	5	1		1	3	3	2		42
6	6		1	4						6	1		18
7	3	1		3					1	1			9
≥ 8	2								2	1			5
Totals	26	10	13	38	14	11	3	4	13	29	11	11	183

CALMS - 57

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2				2	1	1	1		1			8
2	3	1			1	1			5	4	1	7	23
3	3	2		5	3	4	1	2	6	8	6	6	46
4	5	4	1	14	3			1	2	10	5	5	50
5	6	1		11	3					1	3	3	28
6	5	1	1	7						2			16
7	3		2	1					1	3			10
≥ 8	1			3						4	1		9
Totals	28	9	4	41	12	6	2	4	14	33	16	21	190

CALMS - 58

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1							1		1			3
2	1	1	1		1	1	1	2	2	7	1	2	20
3	4	2	1	4	1				1	11	4	3	31
4	8	2	2	9	2		1	5	4	18	6	1	58
5	7	1	1	4	3					19	6	1	42
6	2	3	1	1						5	2	1	15
7	10	1	1	1						5	2		20
≥ 8	17	5		2			1		1	12	1		39
Totals	50	15	7	21	7	1	3	8	8	78	22	8	228

CALMS - 20

# Frequency Tables XV to XVIII for Admiralty Bay, South Shetlands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		2								2			4
2		2	2						4	1			9
3	5	1	2	2	2	3		1	1	7	4	4	32
4	10	8		2	2	1	1		6	7	4	3	44
5	6	2	1		1	1		1	2	19	5	2	40
6	12	2							5	8	1	1	29
7	6	3							2	11	1		23
≥ 8	14	5	1						1	9			30
Totals	53	25	6	4	5	5	1	2	21	64	15	10	211

CALMS - 29

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1	1	1		1						4
2	1	3	1		1	1		1	5	9	1	2	25
3	8	7	2	3	2	2		5	3	4	5	11	52
4	11	5	3	3	2	1	1	3	11	12	7	3	62
5	14	7		1	1			1	4	9	4	1	42
6	9	4					1		1	3	2	2	22
7	8	2								5	1		16
≥ 8	11	3								2	2		18
Totals	62	31	7	8	7	4	3	10	24	44	22	19	241

CALMS - 7

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1			1		2		2	1			10
2	3	2	1		2			1	2	1	2	2	16
3	7	5	3	3	4	1	2	6	9	11	9	8	68
4	7	11	3	2	7	1		3	3	10	7	10	64
5	11	2	4	3		1				3	5	1	30
6	4		3	2	1					2	1		13
7	4	2			3				2	4	1		16
≥ 8		1		1									2
Totals	39	24	14	11	18	3	4	10	18	32	25	21	219

CALMS - 21

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	2		1		3	4	1			1		14
2	2	1					3	1	5	3	1	2	18
3	4	1	5	6	1	5	4	4	8	17	7		62
4	2	4	2	15	1	2	4	7	9	16	2	2	66
5	3	1			4	4	1		1	8	2	1	25
6	2		2						3	2	2		11
7	3								3	2	2		10
≥ 8									2	2			4
Totals	18	9	9	22	6	14	16	13	31	50	17	5	210

CALMS - 38

Frequency Table XIX for Admiralty Bay, South Shetlands, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	24	9	7	10	13	14	15	12	4	27	11	13	159
2	28	21	15	11	14	12	14	17	33	41	24	33	263
3	82	24	44	57	28	29	21	39	51	99	73	68	615
4	78	53	45	92	37	15	13	37	73	114	52	51	660
5	81	28	25	67	25	7	3	16	25	77	37	16	407
6	54	12	18	26	4		2	6	24	42	13	6	207
7	45	10	4	12	3				13	33	7		127
=> 8	60	17	4	6			1	1	7	35	4	1	136
Totals	452	174	162	281	124	77	69	128	230	468	221	188	2574

CALMS 344.

Means and Extremes Table I for Deception Island, South Shetlands, 1958.

MONTH	M. S. L. PRESSURE (mb.)				AIR TEMPERATURE (°F)															
	1 2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1 2 DAILY MEAN	1 MEAN DAILY		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	986.9	1015.6	31st	971.1	10th, 11th	33.5	33.5	35.6	37.3	37.7	36.5	34.7	33.9	35.3	39.9	31.9	<u>48</u>	<u>31st</u>	29	1, 14, 16, 17, 18
February	997.5	1017.2	2nd	974.6	7th	31.7	31.6	32.5	33.8	34.1	33.5	32.2	32.7	32.8	35.8	29.6	43	14th	18	18th
March	995.5	1016.3	5th	972.3	16th	31.2	31.4	31.8	32.5	32.9	32.2	31.5	31.4	31.9	35.6	28.0	42	29th	17	18th
April	987.7	1007.0	20th	969.8	5th	28.4	28.5	29.0	28.9	28.6	28.4	28.0	27.6	28.4	32.1	25.4	41	2nd	9	30th
May	993.9	<u>1018.4</u>	<u>16th</u>	970.3	26th	18.9	19.5	19.6	19.9	19.7	18.6	18.3	18.4	19.1	24.2	13.1	36	30th	1	4th
June	991.3	1015.7	15th	963.5	4th	9.5	9.0	9.0	9.6	10.7	11.3	10.5	9.5	9.9	16.7	3.3	38	8th	-13	27th
July	1004.2	1017.2	20th	971.0	31st	8.3	7.5	7.1	8.1	8.3	9.0	9.1	9.5	8.4	16.1	0.9	34	27th	<u>-18</u>	<u>13th</u>
August	981.9	1013.6	16th	955.2	3rd	13.3	12.2	12.3	12.9	13.7	13.1	12.9	13.2	12.9	21.6	5.7	34	7th	<u>-18</u>	<u>8th</u>
September	982.2	1008.0	19th	<u>954.0</u>	<u>23rd</u>	15.0	13.8	15.7	17.6	18.2	17.7	16.7	16.5	16.4	24.6	7.2	35	9, 20, 23	-14	2nd
October	985.5	1009.2	22nd	961.0	25th	25.9	26.2	27.1	28.5	29.0	28.3	27.2	26.6	27.3	31.5	23.1	37	7, 11, 23	9	20th
November	990.5	1008.3	15th, 16th	971.6	22nd	30.5	30.9	32.1	33.1	33.8	33.2	31.9	31.0	32.1	35.9	29.2	41	6th	23	7th
December	988.1	1006.4	28th	968.3	23rd	27.9	30.2	31.5	33.1	33.5	32.6	31.0	30.0	31.2	35.7	28.6	41	22nd	23	5th
Total	11885.2	12152.9	—	11602.7	—	274.1	274.3	283.3	295.3	300.2	294.4	284.0	280.3	285.7	349.7	226.0	470	—	66	—
Mean	990.4	1012.7	—	966.9	—	22.8	22.9	23.6	24.6	25.0	24.5	23.7	23.4	23.8	29.1	18.8	39.2	—	5.5	—



Means and Extremes Table II for Deception Island, South Shetlands, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	89	89	86	81	79	82	88	89	85	7.5	7.1	6.9	6.9	7.1	7.2	7.3	7.1	7.1	3.7		18.9			
February	89	89	88	85	81	83	85	87	86	6.9	7.1	7.0	7.2	7.2	7.1	7.3	6.8	7.1	1.9		15.9			
March	91	91	90	87	88	89	90	91	90	7.1	7.5	7.3	6.9	7.2	7.1	6.8	6.3	7.0	1.3		12.7			
April	91	91	89	89	90	91	90	90	90	6.6	6.7	7.0	7.2	6.9	7.4	6.8	7.0	6.9	0.7		9.6			
May	87	86	86	90	88	87	88	87	87	5.9	6.1	6.6	6.8	7.0	6.8	6.3	6.3	6.5	0.1	Not recorded	6.7			
June	88	88	90	89	90	88	90	89	89	5.4	5.0	5.7	6.6	7.0	5.8	5.1	5.9	5.8	0.0		4.9			
July	87	86	87	85	86	86	87	88	87	4.4	3.8	3.8	4.4	5.2	4.5	4.9	5.1	4.5	0.1		5.7			
August	90	90	89	90	90	91	89	88	89	5.3	5.4	6.5	6.3	7.0	6.5	5.9	5.6	6.1	0.2	Not recorded	8.4			
September	90	90	90	91	90	90	90	91	90	5.1	5.1	5.9	6.7	6.4	6.7	5.6	5.2	5.8	1.2		11.5			
October	93	93	92	90	91	93	93	93	92	6.3	7.0	6.7	6.6	7.1	7.2	7.3	6.5	6.8	2.4		14.6			
November	92	91	89	91	89	89	91	92	91	7.2	7.3	7.0	6.9	7.0	6.9	7.3	7.1	7.1	3.0		17.9			
December	88	87	85	82	80	81	84	85	84	7.0	6.6	6.9	6.2	6.5	6.8	7.2	7.3	6.8	4.0		20.1			
Total	1075	1071	1061	1050	1042	1050	1065	1070	1060	74.7	74.7	77.3	78.7	81.6	80.0	77.8	76.2	77.5	18.6		146.9			
Mean	90	89	88	87	87	87	89	89	88	6.2	6.2	6.4	6.6	6.8	6.7	6.5	6.3	6.5	1.5		12.2			

Frequency Table I for Deception Island, South Shetlands, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January									20	49	37	68	35	15	7	6	8	3			
February									2	8	5	23	30	76	51	9	3	17			
March									7	9	19	39	48	35	44	29	12	6			
April								2	30	34	27	51	35	27	18	16					
May									4	16	31	36	53	52	15	12	19	10			
June							1	2	19	31	38	26	28	34	23	14	16	8			
July									2	4		7	10	31	61	80	39	14			
August						15	11	20	42	37	27	27	15	23	6	19	6				
September					1	5	15	20	25	30	37	44	30	15	12	6					
October							3	13	23	38	32	62	45	15	7	10					
November									7	16	62	37	41	25	37	15					
December								3	24	27	56	31	32	33	36	6					
Year					1	20	30	60	205	290	371	451	402	381	317	222	103	58			



Frequency Table III for Deception Island, South Shetlands, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																			
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	=	>
	15	10	21	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100	
January										1	7	17	16	25	35	51	38	50		8
February								1	1	4	10	7	13	29	19	35	45	51		9
March										1	1	7	8	14	30	45	56	66		20
April									2	1	2	4	7	13	20	31	62	87		11
May										2	1	9	15	16	27	55	77	39		7
June											1	5	5	9	29	65	79	43		4
July					1	1			1	2	1	7	9	23	30	75	58	36		4
August										1		3	4	4	28	71	79	54		4
September												4	3	8	27	53	74	58		13
October										3		1	3	6	19	32	72	89		23
November											1	1	11	7	21	53	55	81		10
December							1	2	1	6	8	11	19	29	31	49	43	45		3
Total					1	1	1	3	5	21	32	76	113	183	316	615	738	699		116
Mean					—	—	—	—	—	2	3	6	9	15	26	51	61	58		10

# Frequency Table IV for Deception Island, South Shetlands, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud					
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= >40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS									
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600		600 to 1200	1200 to 2400	2400 to 6000	= > 6000	
January				1	11	18	48	46	64	60	10	42	45	31	116	4	5	2	19	66	88	54	4	8	2	5	1	18	44	27	10	2	4			
February			1	5	7	21	32	47	32	79	11	17	26	37	125	8	8	6	19	50	51	72	7	8	1	8	6	18	44	33	37	1	3	2		
March			2	2	15	30	52	35	30	82	10	16	29	34	148	11	11	2	14	103	64	44		5	2	11	2	13	86	35	20		1	1	3	
April		1	3	2	27	20	53	51	24	59	8	18	27	39	143	5	5	1	4	85	78	59		3	2	5		4	71	63	25			3		
May	1	19	4	6	11	16	44	62	24	61	17	20	35	44	102	30	30	2	8	49	69	69	4	7	5	30	2	8	38	47	36	1		2	5	
June	3	5	10	17	26	29	34	48	45	23	34	39	33	37	77	20	26		12	44	72	50	2	21	1	20		7	35	34	21	1	11		12	
July		5	3	9	11	16	40	43	47	74	81	44	23	25	63	12	12		4	39	64	47	1	30	4	12		3	29	25	17		10		47	
August		12	3	11	26	30	61	51	30	24	36	24	33	44	80	31	31	2	3	73	69	34		14		31	1	3	62	28	7		7		22	
September		5	4	10	13	34	36	49	28	61	37	33	34	40	81	15	15		3	51	101	33		18	4	15		2	45	48	9		5	2	15	
October			2	3	19	22	41	68	39	54	12	28	31	46	127	4	4	6	6	99	95	26		7	1	4	5	5	87	44	9		1		4	
November				4	6	8	41	63	58	60	26	19	37	40	111	7	7	2	7	101	75	21	1	16	10	7	2	7	69	41	7		7	1		
December					11	10	34	54	52	87	16	25	35	54	118		1	3	8	76	89	49	6	13		1	2	7	61	41	11	3	5		3	
Total		4	47	32	70	183	254	516	617	473	724	298	325	388	471	1291	147	155	26	107	836	915	558	25	150	32	149	21	95	671	466	209	8	54	6	116
Mean		—	4	3	6	15	21	43	51	39	60	25	27	32	39	108	12	13	2	9	70	76	47	2	13	3	12	2	8	56	39	17	1	5	1	10

Frequency Table V for Deception Island, South Shetlands, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																																													
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			WIND FORCE <sup>6</sup> = $\wedge$	WIND FORCE <sup>8</sup> = $\wedge$	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16		10 & 17																							
	High Min.	Low Max.	Low Min.	High Max.	>0.10 mm	>1.0 mm	>10.0 mm														FOG		HAIL																							
	>32°F	<5°F	<-4°F	>41°F	=	=	=	True	Pseudo	True	Small	Soft																																		
January	13			7				1		9	20	4	5							23				2	1	1	1																			
February	4			1				4		5	14	3	5							23				1		2	5																			
March	2			1				13	1	9	21	3	7							24				4	3	2	4												1							
April	1							15	1	4	24	1	4							23				19			3														1					
May		1						19	9		23	2	2							18				21			8																			
June		8	8					16	6	1	25	2	1							17	2			20	1	3	9														1					
July		8	10					16	7	2	16	2	2							10	6			19			2	5																		
August		2	6					20	6		26	2	1							18				29			3	10																		
September		2	3					19	1	4	26	5	5							13				30	3		11																			
October								14	1	3	25	6	7							22				15	1	2	3																			
November	1							8		7	20	6	4							26				3	2	2	1																			
December								7	2	2	17	2	3							24				4	4																					
Total	21	21	27	9				152	34	46	257	38	46							241	8			167	15	17	60														2	1				
Mean	2	2	2	1				13	3	4	21	3	4							20	1			14	1	1	5													-	-					

Frequency Table VI for Deception Island, South Shetlands, 1958.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	9.1		5	73	164	6	25	12	47	19	4	5		2	4	28	35	61
February	9.5		14	60	136	14	6	3	35	21	15	3		4	15	37	34	37
March	13.5	2	49	90	93	14	16	13	21	29	5	3	1	1	28	49	36	32
April	15.1	2	53	115	52	18	20	9	47	13	1				17	64	28	23
May	17.2	23	53	105	56	11	8	12	43	22	1	3		4	52	42	34	16
June	14.7	13	53	84	53	37	7	12	55	21	4	4	2	5	12	29	29	23
July	14.3	25	40	69	77	37	15	13	52	9	4	6	1	1	5	36	43	26
August	16.6	12	54	120	45	17	10	7	23	1	2	1	1	2	14	64	56	50
September	16.0	1	55	119	57	8	14	3	10	1	1	1	1	2	35	53	49	62
October	14.0	1	41	127	66	13	20	5	8	7	1		1	2	20	45	53	73
November	12.8		23	126	84	7	9	17	8	13	2		1		7	39	72	65
December	12.6	2	28	107	103	8	4	5	17	24	9	5	3	7	46	59	41	20
Total	165.4	81	468	1195	986	190	154	111	366	180	49	31	11	30	255	545	510	488
Mean	13.8	7	39	100	82	16	13	9	31	15	4	3	1	3	21	45	43	41

# Frequency Tables VII to X for Deception Island, South Shetlands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	2	1	1	1		1		2	2	1	12
2	7	2	10	7	3	4		1		3	12	26	75
3	8	1	14	3					4	8	14	25	77
4	9	6	12	6						11	4	7	55
5		1	7	1						4	3	2	18
6	1	1	2	1									5
7													
≥ 8													
Totals	25	12	47	19	4	5		2	4	28	35	61	242

CALMS - 6

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1					1	1		2	2	7
2	1	2	3	1	6	3		1	5	6	9	13	50
3	4	1	5		4			2	6	17	21	19	79
4	1		10	7	5				3	14	2	2	44
5			9	6								1	16
6			7	7									14
7													
≥ 8													
Totals	6	3	35	21	15	3		4	15	37	34	37	210

CALMS - 14

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1			1	1	1			2	3		11
2	4	3		1	2			1	3	9	7		30
3	5	2	4	5	1			1	7	13	14		52
4	1	5	5	8	2			8	18	11	5		63
5	3	2	2	2				3	12	1	2		27
6	1		7	8	1			7	7		1		32
7			3	5	1			6	2				17
≥ 8								2					2
Totals	16	13	21	29	5	3	1	1	28	49	36	32	234

CALMS - 14

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1			1								1	3
2			1	2					3	1	5	6	18
3	6		6	2						7	6	4	31
4	10	3	13	1					2	19	13	10	71
5	3	4	11	3					5	15	2	1	44
6		2	5	2	1				6	20	2	1	39
7			10	2					1	1			14
≥ 8			1							1			2
Totals	20	9	47	13	1				17	64	28	23	222

CALMS - 18



# Frequency Tables XI to XIV for Deception Island, South Shetlands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1	1										3
2	4	2						1	1	2	1	5	16
3	1	2	3	1	1	1		2	9	6	8	3	37
4		2	6	4		2		1	14	20	18	4	71
5		1	11	1					7	6	7	1	34
6	2	2	7	1					9	4		1	26
7		1	7	7					9	1		2	27
>= 8		1	8	8					3	3			23
Totals	8	12	43	22	1	3		4	52	42	34	16	237

CALMS - 11

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1													
2		2					2	1				6	11
3			1	3		2	1			2	3	5	18
4	1	1	3	1	2			1	2	2	8	3	24
5	4	2	7	2	2			2	8	7	6	11	51
6	1	4	5	7					1	5	6	4	33
7		2	18	2						7			30
>= 8		1	11	6				1		6			23
Totals	7	12	55	21	4	4	2	5	12	29	29	23	203

CALMS - 37

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1	2							1	3	1	9
2	1	2			2	1				8	8	2	25
3	1	2	1	2		3		1		9	15	10	43
4	3	3	3	2	1	2	1		1	8	8	12	44
5	2	3	8	2	1				1	6	1	1	25
6	7	2	1	3					1	4	7		25
7			12						2		1		15
>= 8			25										25
Totals	15	13	52	9	4	6	1	1	5	36	43	26	211

CALMS - 37

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1													
2	1						1			2	2	1	6
3	1		1		1				1	2	4	1	9
4		3	3	1	1		1	1	3	15	27	24	30
5	1	1	5						1	18	9	6	41
6	4		4					1	4	10	3	4	30
7	1	2	6						4	10			24
>= 8	2	1	4						1			4	12
Totals	10	7	23	1	2	1	1	2	14	64	56	50	231

CALMS - 17

# Frequency Tables XV to XVIII for Deception Island, South Shetlands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1					1		1	1		1	1	6
2	1		1				1		1	3	5	7	19
3					1			1	1	7	13	9	32
4		2	3						2	11	16	25	59
5	9	1	4	1					6	14	11	14	60
6	1		1						16	10	3	4	35
7	2		1						8	8		1	20
≥ 8												1	1
Totals	14	3	10	1	1	1	1	2	35	53	49	62	232

CALMS - 8

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1								1	1	1	3	1	7
2	1		2				1		3		7	4	18
3	1		1	4	1			1	2	1	13	17	41
4	4	3	2	2					3	24	19	30	87
5	9	1	3						3	10	3	11	40
6	3	1		1					8	7	7	6	33
7	1									2	1	4	8
≥ 8	1												1
Totals	20	5	8	7	1		1	2	20	45	53	73	235

CALMS - 13

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1								1	2	2	1	7
2		2	1						1	5	8	6	23
3	1	3		1			1			9	28	11	54
4	4	5	6						4	11	26	30	86
5	2	6		5						8	8	11	40
6	1	1	1	6	1				1	4		6	21
7				1	1								2
≥ 8													
Totals	9	17	8	13	2		1		7	39	72	65	233

CALMS - 7

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1	2	1			1	2	2	1	10
2			3	1	2	2	2	2	2	4	14	6	38
3	2	3	7	2	4	2	1	1	5	11	13	4	55
4	2	1	6	14				1	11	19	10	7	71
5		1	1	6	1			3	8	15		1	36
6									14	2	1	1	18
7									5	4	1		10
≥ 8										2			2
Totals	4	5	17	24	9	5	3	7	46	59	41	20	240

CALMS - 8

Frequency Table XIX for Deception Island, South Shetlands, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>		
	10	40	70	100	130	160	190	220	250	280	310	340	
1	7	6	6	3	3	7	2	5	5	10	25	13	92
2	20	13	22	15	13	14	5	7	18	39	85	88	339
3	31	15	45	21	15	6	2	8	30	91	163	128	555
4	38	35	76	47	11	4	2	5	59	177	160	167	781
5	30	25	66	34	2			3	35	113	51	55	414
6	21	11	53	31	3			1	66	75	23	24	308
7	4	3	49	21	2			1	35	34	3	8	160
= > 8	3	3	49	8					7	6		5	81
Totals	154	111	366	180	49	31	11	30	255	545	510	488	2730

CALMS 190.

Means and Extremes Table I for Argentine Islands, Grahamland, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)															
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>									1-2 DAILY MEAN	MEAN <sup>1</sup> DAILY		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300	MAX.		MIN.	MAX.	DATE	MIN.	DATE	
January	985.7	1013.7	31st	966.6	11th	32.0	31.7	32.5	33.3	33.8	33.6	32.9	32.4	32.8	37.1	30.0	<u>46</u>	<u>24th, 25th</u>	25	14th	
February	998.1	1018.0	2nd	976.1	6th	30.0	29.8	30.0	31.3	32.0	31.7	30.9	30.1	30.7	34.0	27.1	41	7th	23	16th	
March	995.5	1015.5	5th	974.0	16th	27.9	27.5	27.7	28.5	29.0	28.7	28.3	28.2	28.2	30.9	24.6	37	22nd, 30th	13	17th	
April	986.5	1005.3	21st, 22nd	963.6	2nd	26.4	26.5	26.6	26.9	26.9	26.5	26.1	25.9	26.5	30.2	22.7	44	2nd	11	30th	
May	994.1	<u>1019.3</u>	<u>16th</u>	969.7	26th	11.0	11.2	11.5	11.7	10.6	9.9	10.2	10.5	10.8	18.0	1.6	33	24th, 30th	-15	13th	
June	990.9	1017.0	15th	964.8	9th	0.4	0.9	0.7	2.1	2.3	1.7	1.1	0.0	1.1	1.2	-4.0	38	9th	-30	27th	
July	1003.6	1017.1	20th	969.5	31st	-2.4	-2.6	-2.6	-2.2	-0.7	-0.4	0.6	-0.1	-1.3	9.9	-12.0	35	27th	-40	13th	
August	981.1	1013.4	16th	<u>959.8</u>	<u>30th</u>	0.5	1.0	1.7	3.6	3.2	2.3	1.7	0.3	1.8	14.2	-10.6	33	18th, 19th	<u>-46</u>	<u>10th</u>	
September	980.6	1008.2	28th	953.6	8th	5.9	5.3	7.0	10.0	10.6	9.8	8.4	7.9	8.1	19.8	-3.5	35	20th	-26	3rd	
October	981.1	1011.3	21st	957.6	24th	20.7	20.8	21.9	24.5	26.0	25.5	24.2	23.4	23.4	29.0	17.2	39	6th	-11	21st, 22nd	
November	988.1	1009.1	15th	965.2	22nd	29.8	30.0	30.7	31.7	32.3	31.7	30.8	30.0	30.9	34.4	27.7	41	7th	19	17th	
December	988.3	1010.0	28th	962.3	23rd	26.7	27.3	28.7	30.5	31.0	30.5	29.2	27.9	29.0	33.6	24.7	38	4th, 23rd	17	13th	
Total	11873.6	12157.9	—	11573.8	—	208.9	209.4	216.4	231.9	237.0	231.5	224.4	216.5	222.0	292.3	145.5	460	—	-60	—	
Mean	989.4	1013.2	—	964.5	—	17.4	17.5	18.0	19.3	19.7	19.3	18.7	18.0	18.5	24.4	12.1	38.3	—	-5.0	—	

Means and Extremes Table II for Argentine Islands, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.) <sup>1</sup>				
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000		2300	REC.					EST.
January	88	88	86	84	81	84	87	88	86	7.2	6.8	7.0	6.9	6.9	6.8	6.7	7.0	6.9	4.1	Not recorded	19.9	14.4	3.0	7th
February	89	90	89	86	85	85	87	89	87	6.2	6.3	6.3	6.5	6.1	6.4	6.3	5.9	6.3	4.5		16.3	14.2	4.6	14th
March	90	91	91	90	90	89	91	91	90	6.4	7.3	6.9	7.3	7.2	6.7	6.6	6.2	6.8	1.8		12.8	22.9	5.8	7th
April	87	87	88	87	88	88	89	87	88	6.3	6.7	7.0	7.1	7.2	7.1	6.8	6.5	6.8	1.0		9.4	33.0	8.6	5th
May	86	89	88	88	89	88	87	87	88	5.7	5.2	6.1	6.2	6.2	6.1	5.5	5.5	5.8	0.8		6.1	19.9	7.3	30th
June	86	88	87	87	87	86	86	85	87	4.9	5.5	5.3	5.6	5.6	5.2	4.7	4.6	5.2	0.2		3.8	22.3	3.4	30th
July	81	81	82	82	82	82	83	81	82	4.1	4.1	4.6	4.9	5.1	5.2	4.7	4.1	4.6	0.7		4.9	10.2	3.2	27th
August	86	85	83	83	81	84	85	85	84	5.8	5.7	6.8	6.5	6.5	6.1	5.6	5.4	6.1	1.1		8.1	13.8	2.6	16th
September	86	86	86	85	85	85	86	85	85	5.8	6.6	7.3	7.0	6.6	6.7	6.4	6.0	6.5	1.6		11.4	15.0	9.7	23rd
October	88	86	86	84	82	83	86	88	85	6.1	7.0	6.9	7.1	6.9	6.9	6.9	6.3	6.8	2.4		14.9	10.4	4.9	25th
November	91	89	88	87	87	89	90	90	89	7.8	7.2	7.4	7.4	7.4	7.4	7.5	7.6	7.5	1.8		18.5	31.9	9.2	3rd
December	90	87	86	82	81	83	87	87	85	6.4	6.5	6.5	6.5	6.4	6.5	6.3	6.7	6.5	6.1		21.6	16.4	5.3	30th
Total	1048	1047	1040	1025	1018	1026	1044	1043	1036	72.7	74.9	78.1	79.0	78.1	77.1	74.0	71.8	75.8	26.1	147.7	224.4	67.6	—	
Mean	87	87	87	85	85	85	87	87	86	6.1	6.2	6.5	6.6	6.5	6.4	6.2	6.0	6.3	2.2	12.3	18.7	5.6	—	

## Frequency Table I for Argentine Islands, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0
	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>
	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9
January							6	19	50	45	56	42	10	4	5	11					
February									9	5	14	40	70	53	15	3	15				
March								2	12	17	41	48	45	39	19	22	3				
April						1	10	32	32	23	46	45	16	32	3						
May							1	3	21	32	36	42	44	27	9	17	16				
June						1	13	12	33	35	21	25	31	30	14	8	17				
July							1	5		1	11	10	30	62	83	28	17				
August				5	9	14	30	44	30	28	16	24	15	9	11	13					
September				5	11	17	17	27	35	38	36	22	14	11	7						
October					3	11	12	34	42	35	56	25	14	5	6	5					
November							7	16	33	47	53	15	28	20	21						
December						3	1	26	25	42	45	34	24	40	7	1					
Year				10	23	47	98	220	322	348	431	372	341	332	200	108	68				



Frequency Table III for Argentine Islands, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January									3	7	6	11	15	22	29	45	36	67	7
February							1	5	1	1	6	4	13	15	22	36	43	60	17
March									2	3	5	9	10	15	13	17	42	110	22
April						1	4	1	3	3	3	7	18	16	22	30	28	82	22
May									2	2	2	8	15	19	31	39	57	67	6
June												1	5	32	55	67	51	26	3
July											1	10	42	52	36	57	46	2	2
August								1		1		19	16	32	53	56	45	25	
September												3	16	24	61	74	35	23	4
October										1	5	11	14	18	41	74	54	26	4
November												3	12	19	23	61	54	53	15
December										4	2	7	14	35	40	55	53	37	1
Total						1	5	7	11	22	30	93	190	299	426	611	544	578	103
Mean						—	—	1	1	2	3	8	16	25	35	51	45	48	9



# Frequency Table IV for Argentine Islands, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m		200m - 400m		400m - 1km		1km - 2km		2km - 4km		4km - 10km		10km - 20km		20km - 40km		40km		ALL AMOUNTS					7-8 OKTAS										
January	1	4	4	9	16	22	64	39	89	22	37	23	46	114	6	6	5	8	24	58	96	29	19	3	6	4	8	17	32	34	12	3	1		
February	2	4	6	13	7	21	31	13	127	27	38	23	28	101	7	7	5	10	32	64	63	16	12	6	7	4	10	21	40	25	4	1	1	9	
March	1	2	2	8	11	44	58	26	96	10	32	23	36	141	6	6	3	8	36	81	96	8	6	1	6	2	7	20	54	57	2	1		3	
April		2	10	15	7	28	38	54	86	7	22	33	50	113	15	15	2	7	27	46	111	25	6		15	2	6	23	27	57	13	2		1	
May	7	6	11	17	13	29	27	33	105	33	43	19	39	110	4	4	1	7	36	56	74	37	15	1	4	1	5	29	39	43	8	3		17	
June		3	8	16	16	40	52	41	55	55	35	15	30	100	5	6		6	27	61	68	17	20		5		4	23	47	29	8			35	
July		5	18	8	17	27	39	45	89	71	48	16	24	84	5	6	5	1	30	58	69	8	32		5		1	16	37	39	2	1		39	
August	5	2	7	20	16	37	58	52	51	26	38	20	45	113	6	6	3	2	25	94	63	29	13		6			16	67	39	12	2		13	
September		6	15	18	20	38	54	43	46	24	29	12	30	144	1	1		3	29	67	91	25	15		1			21	49	67	12			9	
October		1	13	13	15	37	64	37	68	14	33	18	36	144	3	3			34	109	58	30	10	1	3			25	71	32	14			3	
November		1	12	21	26	40	48	37	55	12	17	11	26	174				8	71	84	44	21	10	2			8	53	47	23	11	3			
December		12	7	6	8	37	44	18	116	21	68	13	43	98	5	5		2	66	75	57	22	21		5		1	36	21	11	3	5			
Total		16	48	113	164	172	409	577	438	983	322	440	226	433	1436	63	65	24	62	437	853	890	267	179	14	63	13	50	300	531	456	101	21	2	129
Mean		1	4	9	14	14	34	48	37	82	27	37	19	36	120	5	5	2	5	36	71	74	22	15	1	5	1	4	25	44	38	8	2	-	10

Frequency Table V for Argentine Islands, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>10</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>11</sup>	<sup>11</sup>	<sup>12</sup>	<sup>13</sup>	<sup>14</sup>	<sup>10 &amp; 15</sup>	10 & 10 FOG		10 & 17 HAIL			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE <sup>6</sup> >	WIND FORCE <sup>8</sup> >	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft	
	>32°F	<5°F	<-1°F	>41°F	=	=	=																			
January	3			2				3		7	19	1	4		23				2	1	4					
February								3		4	6	1	5		16						6					
March										3	23	3	3		21				3		3					
April	1			2				2		2	25	1	2		20				5	1	4					
May		2	6		Not recorded	Not recorded	Not recorded	1			20		1		15	1	Not recorded	Not recorded	6		5	5				
June		9	19		Not recorded	Not recorded	Not recorded				21	1			12	6	Not recorded	Not recorded	9		2	2				
July		12	19		Not recorded	Not recorded	Not recorded				14	2	1		12	7	Not recorded	Not recorded			9					
August		8	22		Not recorded	Not recorded	Not recorded	6	3	1	23		3		18	2	Not recorded	Not recorded	16		1	5				
September		5	16		Not recorded	Not recorded	Not recorded	14	2		26	2			20		Not recorded	Not recorded	18			10				
October								10	2	2	26	3	2		23	1			11		2	8				
November								10	2	6	25	6	2		25				10		2	5				
December								3	1	3	22	3	3		17	1			2		6	3				
Total	4	36	82	4				52	8	28	250	23	26		222	18			82	2	44	38				
Mean	-	3	7	-				4	1	2	21	2	2		19	1			7	-	4	3				

## Frequency Table VI for Argentine Islands, 1958.

MONTH	2 MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	5 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	6.3		7	38	164	39	9	31	36	13	8	9	11	33	17	28	11	3
February	5.9		6	13	181	24	9	26	7	11	10	11	32	47	19	20	4	4
March	4.8			18	213	17	19	36	7	9	5	17	34	51	20	19	7	7
April	4.8		3	22	184	31	7	44	18	12	8	15	37	42	19	5		2
May	4.8		3	17	196	32	4	16	17	14	12	24	42	32	27	18	6	4
June	3.8			17	169	54	9	34	13	4	5	13	47	32	16	7	3	3
July	3.1			15	163	70	5	31	12	4	10	13	40	27	15	12	4	5
August	6.3	9	8	21	169	41	17	36	11	9	11	3	38	38	27	6	6	5
September	10.8	3	30	64	129	14	16	58	13	8	7	12	26	32	22	16	12	4
October	11.5	10	21	84	105	28	24	79	11	4	7	9	25	24	17	8	5	7
November	11.0		23	91	107	19	35	96	9	5	2	4	20	22	6	4	3	15
December	6.7	1	5	46	152	44	9	24	5	4	3	7	36	55	38	17	2	4
Total	79.8	23	106	446	1932	413	163	511	159	97	88	137	388	435	243	160	63	63
Mean	6.7	2	9	37	161	34	14	43	13	8	7	11	32	36	20	13	5	5

# Frequency Tables VII to X for Argentine Islands, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	2	1	4	2	2	3	9	7	7	3	1	46
2	2	5	6	1	2	6	4	14	8	11	6	1	66
3		8	12	3	3	1	3	10	2	8	2		52
4	2	14	9	3	1		1			2		1	33
5		2	2	1									5
6			4	1									5
7			2										2
≥ 8													
Totals	9	33	36	13	8	9	11	33	17	28	11	3	209

CALMS - 39

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		3		3	5	3	7	10	6	14	1	2	54
2	4	5	4	6	2	4	7	20	11	5	2	1	71
3	4	11	1	2	2		16	16	2	1		1	56
4	1	4	2				1	1					9
5		1				2	1						4
6		1		1	1								3
7		1				1					1		3
≥ 8													
Totals	9	26	7	11	10	11	32	47	19	20	4	4	200

CALMS - 24

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	6	3	5	2	7	16	13	8	15	4	5	86
2	12	10	3	3	3	5	14	21	8	4	1	1	85
3	5	14	1	1		4	4	10			2	1	42
4		6				1		7	4				18
5													
6													
7													
≥ 8													
Totals	19	36	7	9	5	17	34	51	20	19	7	7	231

CALMS - 15

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	7	6	9	6	5	23	15	11	4		1	92
2	1	8	1	2	1	8	11	14	5				51
3	1	14	6	1	1	2	1	11	2	1		1	41
4		10	1				2	2	1				16
5		4	2										6
6		1	2										3
7													
≥ 8													
Totals	7	44	18	12	8	15	37	42	19	5		2	200

CALMS - 31

# Frequency Tables XI to XIV for Argentine Islands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1	4	11	8	9	22	14	9	8	2	1	89
2	2	1	2	3	4	12	14	12	6	4	2	2	64
3	1	8	3			3	6	6	7	6	2	1	43
4	1	6	1						5				13
5			4										4
6			3										3
7													
>= 8													
<b>Totals</b>	<b>4</b>	<b>16</b>	<b>17</b>	<b>14</b>	<b>12</b>	<b>24</b>	<b>42</b>	<b>32</b>	<b>27</b>	<b>18</b>	<b>6</b>	<b>4</b>	<b>216</b>

CALMS - 32

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	4	8	6	3	4	8	32	16	8	4		1	94
2	2	1	4	1	1	4	13	11	6	1	2	2	48
3		13	2			1	2	5	2	1	1		27
4	3	10	1							1			15
5		2											2
6													
7													
>= 8													
<b>Totals</b>	<b>9</b>	<b>34</b>	<b>13</b>	<b>4</b>	<b>5</b>	<b>13</b>	<b>47</b>	<b>32</b>	<b>16</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>186</b>

CALMS - 54

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	2	2	2	8	9	28	20	12	10	3	2	100
2		6	6	2	2	4	11	7	2	1		2	43
3	3	12	2				1		1	1			20
4		11	2								1	1	15
5													
6													
7													
>= 8													
<b>Totals</b>	<b>5</b>	<b>31</b>	<b>12</b>	<b>4</b>	<b>10</b>	<b>13</b>	<b>40</b>	<b>27</b>	<b>15</b>	<b>12</b>	<b>4</b>	<b>5</b>	<b>178</b>

CALMS - 70

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1			2	8	6	2	19	13	17	4	3	1	75
2	5	2	4		1	1	16	18	6	1	1	3	58
3	7	8	1	1	3		2	7	4	1	1	1	36
4	4	9	1		1		1				1		17
5	1	3											4
6		3	2										5
7		2	1										3
>= 8		9											9
<b>Totals</b>	<b>17</b>	<b>36</b>	<b>11</b>	<b>9</b>	<b>11</b>	<b>3</b>	<b>38</b>	<b>38</b>	<b>27</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>207</b>

CALMS - 41

# Frequency Tables XV to XVIII for Argentine Islands, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	4	3	4	4	2	6	2	3	2	7	2	42
2	2	4	3	4	1	4	4	3	4	2		1	32
3	6	3	1		2	5	12	13	6	6		1	55
4	2	9	1			1	3	13	9	6	3		47
5	2	11					1	1			2		17
6	1	13	1										15
7		11	4										15
≥ 8		3											3
Totals	16	58	13	8	7	12	26	32	22	16	12	4	226

CALMS - 14

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		6	2	2	4	9	3	1	1			39
2	4	2		1	3	2	11	2	1	3			29
3	4	5	2	1		3	5	11	7	3	2	3	46
4	5	28	1		1			6	7	1	2	4	55
5	4	21	1					2	1				30
6	1	11	1		1								14
7	1	5									1		7
≥ 8	3	7											10
Totals	23	79	11	4	7	9	25	24	17	8	5	7	220

CALMS - 28

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	2	1	3			7	1	4	2	1	3	28
2	5	1	1	2	2	4	4	7	1		1	1	29
3	7	14	3				9	8		2	1	6	50
4	11	31	3					6	1			4	56
5	7	27	1										35
6	1	17										1	19
7		4											4
≥ 8													
Totals	35	96	9	5	2	4	20	22	6	4	3	15	221

CALMS - 19

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	3	1	2	1	1	7	9	12	6		2	46
2		1	2	1	2	4	17	14	7	1		2	51
3	3	5	1			2	11	19	8	6			55
4	4	5					1	12	3	2	1		28
5		6	1	1				1	7	2			18
6		2							1				3
7		2											2
≥ 8											1		1
Totals	9	24	5	4	3	7	36	55	38	17	2	4	204

CALMS - 44

Frequency Table XIX for Argentine Islands, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	29	38	35	56	48	52	179	125	98	77	24	21	782
2	39	46	36	26	24	58	126	143	65	33	15	16	627
3	41	115	35	9	11	21	72	116	41	36	11	15	523
4	33	143	22	3	3	2	9	47	30	12	8	10	322
5	14	77	11	2		2	2	4	8	2	2		124
6	3	48	13	1	2	1			1			1	70
7	1	25	7			1					2		36
≥ 8	3	19									1		23
Totals	163	511	159	97	88	137	388	435	243	160	63	63	2507

CALMS 413.

## Upper Air Means Table I for Argentine Islands, 1958.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for all ascents :—																								
	SURFACE		900 mb.		850 mb.		800 mb.		700 mb.		600 mb.		500 mb.		400 mb.		300 mb.	200 mb.	150 mb.	100 mb.	MEAN TROPOPAUSE				
	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Air	Air	Air	Press. mb.	Height	Temp.		
January	0.1	-2.0	-3.8	-6.6	-7.1	-10.0	-10.3	-12.7	-16.1	-18.8	-23.3	-27.2	-31.9	-36.6	-42.5	-40.0 <sup>4</sup>	-50.4	-42.8 <sup>30</sup>	-42.8 <sup>30</sup>	-28	-42.8	316	8269	-53.2	
February	-1.0	-2.4	-5.0	-7.7	-6.6	-10.2	-7.7	-12.5	-13.2	-18.1	-19.9	-25.7	-27.9	-33.7	-38.8	-42.5 <sup>20</sup>	-49.8	-47.5	-46.9	-27	-46.4	282	9215	-54.9	
March	-2.6	-4.4	-5.8	-8.6 <sup>40</sup>	-7.9	-10.7 <sup>40</sup>	-10.1	-13.9 <sup>40</sup>	-14.3	-19.6 <sup>40</sup>	-20.6	-27.1	-28.9	-33.3 <sup>30</sup>	-38.4	-42.7 <sup>21</sup>	-51.3	-49.3	-49.2	-40	-50.4	279	9203	-56.4	
April	-3.0	-4.9	-6.6	-8.4	-9.3	-11.2	-11.8	-14.1	-17.0	-21.3	-24.3	-29.7	-32.7	-37.5 <sup>27</sup>	-43.4	-41.0 <sup>5</sup>	-54.0	-53.7	-52.7	-55.3	287	8876	-58.2		
May	-11.9	-13.2	-12.2	-13.3	-11.3	-15.9	-15.5	-18.6	-19.8	-23.3	-26.6	-30.3	-35.6	-38.5 <sup>26</sup>	-46.0	-39.0 <sup>1</sup>	-56.0	-59.5	-59.4	-30	-62.3	265	9337	-62.1	
June	-17.2	-18.7	-13.7	-16.2	-14.5	-17.7	-16.3	-20.7	-20.3	-25.6	-26.8	-31.8	-35.5	-39.6 <sup>33</sup>	-46.3	-40.0 <sup>1</sup>	-58.1	-64.9	-35	-65.8	-28	-69.2	240	9921	-66.3
July	-18.9	-21.3	-12.5	-16.3	-13.6	-18.2	-15.9	-20.5	-20.0	-26.1	-27.1	-33.9	-36.0	-41.1 <sup>25</sup>	-47.1	-38.5 <sup>2</sup>	-59.3	-68.5	-28	-67.7	-17	-70.6	231	10156	-71.0
August *	-17.0	-19.1	-15.9	-19.1	-17.2	-20.7	-18.8	-22.3	-23.8	-37.7	-30.3	-34.7	-38.4	-41.5 <sup>19</sup>	-48.9	-48.0 <sup>1</sup>	-60.7	-69.4	-29	-71.7	-18	-75.4	225	10104	-70.3
September	-13.0	-15.0	-13.1	-15.4	-14.9	-17.2	-16.5	-19.3	-21.2	-24.7	-28.1	-32.2	-37.8	-40.6 <sup>27</sup>	-48.2	-40.7 <sup>3</sup>	-58.9	-67.6	-30	-69.3	-32	-70.9	230	10060	-68.1
October	-5.7	-7.8	-7.3	-10.0	-9.9	-12.9	-12.4	-15.7	-17.6	-23.2	-25.3	-31.0	-34.5	-40.3	-45.9	-44.0 <sup>1</sup>	-57.9	-65.7	-67.3	-68.9	237	9932	-66.2		
November	-0.6	-2.5	-4.5	-6.8	-6.9	-9.1	-9.5	-11.7	-15.2	-18.0	-22.8	-25.8	-31.6	-36.3	-42.5	-40.8 <sup>9</sup>	-53.9	-55.9	-52.9	-48.4	279	9087	-58.8		
December	-2.0	-4.1	-5.9	-8.6	-8.0	-11.0	-10.0	-13.0	-15.0	-18.8	-21.7	-26.8	-29.9	-35.9	-40.7	-44.9 <sup>22</sup>	-51.1	-46.0	-44.8	-40	-43.4	305	8541	-53.8	
Total	-92.9	-115.4	-106.3	-137.0	-127.2	-164.8	-154.8	-195.0	-213.5	-275.2	-296.8	-356.2	-400.7	-454.9	-528.7	-502.1	-661.4	-690.8	-690.5	-704.0	3176	112701	-739.3		
Mean	-7.7	-9.6	-8.9	-11.4	-10.6	-13.7	-12.9	-16.3	-17.8	-22.9	-24.7	-29.7	-33.4	-37.9	-44.1	-41.8	-55.1	-57.6	-57.5	-58.7	265	9392	-61.6		

\* Only 30 soundings completed in month.



## Upper Air Means Table II for Argentine Islands, 1958.

MONTH	MEAN HEIGHT'S ABOVE M.S.L. OF STANDARD PRESSURE LEVELS (metres) <sup>22</sup>										
	900 mb.	850 mb.	800 mb.	700 mb.	600 mb.	500 mb.	400 mb.	300 mb.	200 mb.	150 mb.	100 mb.
January	724	1173	1640	2658	3701	5244	6059	8561	11267 <sup>30</sup>	13209 <sup>30</sup>	15963 <sup>28</sup>
February	816	1265	1738	2765	3914	5256	6824	8747	11401	13306	15995 <sup>27</sup>
March	779	1225	1694	2715	3870	5198	6436	8674	11303	13192	15852 <sup>40</sup>
April	721	1165	1581	2652	3792	5100	6638	8526	11129	12984	15593
May	759	1196	1655	2655	3785	5081	6591	8465	11010	12814	15355 <sup>30</sup>
June	741	1180	1632	2628	3754	5051	6567	8426	10927	12686 <sup>35</sup>	15190 <sup>28</sup>
July	827	1262	1722	2721	3849	5138	6654	8503	10976	12698 <sup>28</sup>	15124 <sup>17</sup>
August	644	1073	1527	2512	3623	4899	6399	8237	10701	12407 <sup>20</sup>	14793 <sup>18</sup>
September	645	1079	1536	2531	3654	4936	6441	8289	10776	12519 <sup>36</sup>	14915 <sup>32</sup>
October	692	1140	1600	2613	3744	5049	6567	8432	10928	12670	15099
November	735	1182	1653	2673	3819	5134	6675	8569	11150	12980	15635
December	728	1148	1644	2663	3812	5131	6687	8596	11253	13171	15891 <sup>40</sup>
Total	8811	14088	19622	31786	45317	61217	79138	102025	132821	154636	185405
Mean	734	1174	1635	2649	3776	5101	6595	8502	11068	12886	15450



## Upper Air Frequency Table II for Argentine Islands, 1958.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges 26																																											
	850 mb.																		800 mb.																									
	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to					
-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8					
January											1	6	15	9																									3	6	13	9		
February											2	5	12	8	1																								1	3	9	13	2	
March										2	4	2	8	8	17													1	2	2	1	4	12	17	2									
April									1	1	3	5	4	8	7		1												3		6	5	7	7	1	1								
May							1	1	6	3	9	7	1	2		1										1		1	4	4	8	6	4	1	2									
June						1			4	6	8	5	6	4	6											1	2	2	5	7	9	4	3	4	3									
July						1			3	9	3	10	3	1													1		2		8	5	7	7	1									
August					2			4	3	5	3	5	5	2	1										1	1	1		1	9	3	5	6	3										
September							3	2	5	4	4	8	7	6	1											1	3	2	4	7	8	8	5	2										
October									1		1	5	10	11	3													1			6	9	13	2										
November												1	7	11	11																1	8	9	9	3									
December										1		3	15	14	6	1	1														3	13	13	8	3	1								
Year					2	2	3	8	15	28	35	49	90	95	72	2	3											1	2	4	5	10	27	31	56	79	98	73	16	2				

## Upper Air Frequency Table III for Argentine Islands, 1958.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>26</sup>																																									
	700 mb.															600 mb.																										
	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6		
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8			
January								4	6	10	8	3															2	3	10	11	3	2										
February									3	4	8	11	2												1			2	2	1	12	9	1									
March					1	2		1	2	7	22	2	4											2			1	3	11	13	8	2	1									
April					1		2	5	1	10	6	4	1											3	3	4	6	4	7	2	1											
May			1			1	6	4	9	5	2	2	1											1		2	5	6	9	5	2	1										
June					3	3	6	9	6	6	6	1													6	7	6	10	8	2	1											
July					1		6	7	9	5	2		1												5	5	8	8	3		1	1										
August			1	2	2	4	2	10	6	2	1													1	2	2	4	6	7	5	2	1										
September	1			2	2	3	6	7	8	5	4	1	1												1	2	2	9	15	5	3	2	1									
October								2	7	7	11	4														1	2	8	9	8	3											
November							1	4	4	7	7	6	1														1	8	3	9	5	4										
December								1	13	10	10	4	3														1	6	5	14	8	7										
Year	1		2	4	10	13	31	59	74	82	80	34	14												1	4	4	26	41	74	75	79	58	36	5	1						

# Upper Air Frequency Table IV for Argentine Islands, 1958.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>26</sup>																																															
		500 mb.														400 mb.																																	
		-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	-60	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12								
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to								
		-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	-7	-6	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14								
January							2	1	9	15	3				1													3	5	12	10										1								
February									1	3	3	10	9	2															1	1	5	5	11	5															
March						1			2	5	8	10	11	4																4	8	12	11	6															
April							5	5	3	7	8	1	1																4	10	8	4	2	2															
May				1	2	5	6	11	4	1	1																5	5	9	7	4		1																
June					4	7	7	12	6	3	1																	6	10	10	10	3								1									
July					3	5	7	7	6	1	1			1														7	6	15		2																	
August					2	6	6	9	5	2																1	11	9	7	1	1																		
September					2	6	12	11	4	2	1	2												1	5	9	8	9	3	3	2																		
October							5	5	13	4	4																	1	10	7	9	3	1																
November							2	5	6	8	4	5																	4	8	7	4	2	4	1														
December							1	3	8	8	9	9	3															1		8	5	11	13	3															
Year					8	24	52	62	85	68	54	39	11	1											1	6	40	60	93	75	62	43	21	2															



# Upper Air Frequency Table VI for Argentine Islands, 1958.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <small>26</small>																																									
	150 mb.																100 mb.																									
	-81	-81	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	15	18	21						
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to				
-86	-83	-80	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	1	4	7	10	13	16	19	22						
January											1	1	3	13	11	1																			4	2	11	9	2			
February												4	7	11	6																				1	5	18	3				
March										1	4	10	20	2	4																											
April								1		4	5	12	6	2																												
May						1	5	9	10	4	2																4	10	12	3							5	1	1			
June				3	1	6	9	7	6	2		1																														
July				1	3	6	12	4	2																																	
August			2	3	10	9	4		1													1	5	5	6	1																
September		1		6	6	12	2	1	5	2		1									1																					
October				1	6	7	5	7	3	2																																
November						3	1	2	2	4	6	8	3					1																								
December											1	8	17	8	5	2																										
Year		1	2	14	26	40	36	26	28	23	17	38	50	38	31	16	3	1							2	9	28	25	28	14	19	20	17	24	30	32	45	34	19	5		

Upper Air Frequency Table VII for Argentine Islands, 1958.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents:— 5																																																		
	Surface											900 mb.										850 mb.										800 mb.																			
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=							
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>							
9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100								
January						2	6	6	17							1	2	11	9	8								1	4	7	11	8								1	5	3	10	12							
February				1			1	4	20	2						1	4	6	7	9	1							2	7	6	6	6	1							1	2	3	5	3	2	6	18				
March					2		6	6	22	5					1	3	4	4	9	19						1	3	2	1	6	6	20	1			1	2	3	5	3	2	6	18								
April				1	1		6	5	14	3					1	1	1	3	6	17	1							1	1	4	6	16	1							1	2	3	5	3	2	6	18				
May							3	8	19	1						3	2	3	6	17								1	1	2	2	4	9	8	4							1	2	2	5	3	2	12	4		
June							5	17	17	1						1	3	5	3	10	15	3							1	1	9	3	1	8	15	2							4	3	4	3	3	9	13	1	
July						1	14	9	6	1						3	2	9	4	7	6								2	4	4	4	4	6	7								4	3	4	2	6	6	6		
August						1	9	11	9							1	4	5	4	6	10								3	1	1	4	5	7	9				1	2			2	1	7	10	6	1			
September						1	7	22	10							1	3	8	16	12								1		4	9	12	14								6	6	14	12							
October						2	6	13	10							1	3	2	4	8	13								1		4	6	11	9								1	2	6	4	13	5				
November							6	11	11	2							1	7	11	10	1								1	7	13	7	2							1		8	10	11							
December				1			7	17	16							1	1	5	7	12	15									6	5	2	15	13								1	1	2	5	5	15	12			
Year				2	4	7	76	129	171	15						10	22	43	64	107	151	6							9	14	31	35	61	110	132	11							2	18	18	24	42	57	106	129	7



## Upper Air Frequency Table VIII for Argentine Islands, 1958.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents:- 5																																												
	700 mb.										600 mb.										500 mb.										400 mb.														
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	
9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100		
January					1	3	3	5	9	10					1	2	4	7	5	9	3					1	4	7	8	3	5	2						2			2				
February			1	3	1	2	6	5	3	7		1	1	2	5	2	4	4	6	3			2	1	6	4	6	3	5	1			2	2	2	4	5	2	3						
March			3	5	1	5	2	6	10	8			5	7	4	2	4	7	5	6			7	4	4	6	6	4	6	2			1	2	6	4	4	2	3						
April				4	2	3	2	4	4	11			2	3	3	5	5	2	7	3			2	6	3		4	4	8							1	1	1	2						
May				1	3	4	1	6	7	9					3	4	4	8	8	4				1	4	2	6	9	3	1							1								
June	1			4	4	5	3	4	12	6	1	1		4	4	4	7	7	9	4			1	5	2	6	8	5	6								1								
July			2	4	5	3	6	2	7	2		1	1	5	6	5	4	4	4	1	1	3	4	2	3	7	1	2									2								
August			2		2	3	3	8	7	5			1	2	2	5	7	4	5	3			2	1	3	3	3	4	3					1											
September				1	2	3	5	10	15	4				4		6	8	13	8	1				3	6	3	3	10	2							1	2								
October			1	2	3	3	5	5	9	3				2	4	3	3	4	10	5			3	3	2	5	9	5	1	1					1		6	2							
November				2			3	6	12	7				1		2	4	10	12	1				2	2	6	8	7	5																
December				2	1	3	7	9	14	5		1	2	2	2	5	8	12	7	2	2	2	4	6	4	8	10	4		1	1	3	7	5	3	2									
Year	1		9	28	25	37	46	70	109	77	1		4	15	34	34	47	66	86	85	31		3	22	35	44	49	76	65	50	7		1	4	7	19	16	21	17	6					

Upper Air Frequency Table IX for Argentine Islands, 1958.

MONTH	MEAN WIND SPEED	WINDS at STATION LEVEL : Number of observations at all ascents of :-																								
		SPEEDS (knots)													CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014	015 to 044		045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344	
January	6.2	16	4	1	1								9		3	6	1	3	1	1	1	1	4		1	31
February	5.4	19	1		1								7	1	3	2	1	1	2	5	3	2		1		28
March	5.1	33	5										3	2	6	1	2	1	4	6	7	4	5			41
April	4.9	13	7										10	1	4	2	1	1	2	5	2	2				30
May	4.0	19	2										10		3	1	3	2	1	4	3	1	2		1	31
June	3.3	23	4										13	1	7	1		1	2	7	3	3	2			40
July	3.2	16	3										12	1	5	1			2	7	2				1	31
August	5.4	17	4	1	1								7	2	4	1		2	2	3	4	3			2	30
September	9.2	21	10	1	3								5	1	13	3		2	2	2	1	6	1	1	3	40
October	10.7	10	10	4		1							6	5	8	1	1	1		3	2	3			1	31
November	12.1	11	11	5	1								2	4	14	2	1	1		2	2	1	1			30
December	6.2	19	8	3									11	3	3		1			4	11	6	2			41
Year	6.3	217	69	15	7	1							95	21	73	21	11	15	18	49	41	32	17	2	9	404

## Upper Air Frequency Table X to XX for Argentine Islands, 1958.

TABLE NUMBER	PRESSURE LEVEL	MEAN WIND SPEED KNOTS	WINDS at STANDARD LEVELS : Number of observations at all ascents of :—																						NUMBER OF ASCENTS			
			SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)												
			1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254		255 to 284	285 to 314	315 to 344
X	900 mb.	8.2	34	8	3	1									4	1	9	1	1	6	3	4	15	1	1	3	1	50
XI	850 mb.	10.7	25	13	7	1									4	2	8	3	4	5	2	3	15	2		2		50
XII	800 mb.	11.7	23	12	8	2									4	4	5	3	1	4	4	3	15	2	1	2	1	49
XIII	700 mb.	14.8	14	16	8	6									3	3	4	3	1	1	3	1	11	8	4	3	2	47
XIV	600 mb.	19.5	8	16	11	5	4								1	5	2	3	1	2	3	1	10	9	2	6		45
XV	500 mb.	24.5	8	11	9	9	5	1								3	1	1	3	2	3	4	6	9	5	3	3	43
XVI	400 mb.	33.7	7	6	8	4	10	5	2							4	1	2	2	2	3	3	8	7	6	2	2	42
XVII	300 mb.	38.6	8	5	4	4	7	5	3		1						1		1	4	3	1	9	7	8	1	2	37
XVIII	200 mb.	35.3	3	6	5	6	6	5	1							1				1	4	3	7	9	2	1	1	32
XIX	150 mb.	31.8	3	6	7	4	4	4	1							1				1	4	3	7	9	2	1	1	29
XX	100 mb.	29.3	5	7	3	6	4	2	1							1				1	4	2	8	8	3	1		28



# Upper Air Frequency Table XXII for Argentine Islands, 1958.

HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 15 metre ranges :- 22

850 mb. Mean height 1,174 metres. I.C.A.N. height 1,457 metres.

MONTH	825	840	855	870	885	900	915	930	945	960	975	990	1005	1020	1035	1050	1065	1080	1095	1110	1125	1140	1155	1170	1185	1200	1215	1230	1245	1260	1275	1290	1305	1320	1335	1350	1365	1380	1395	1410	1425	1440	1455	1470	1485				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	830	854	860	884	899	914	929	944	959	974	989	1004	1019	1034	1049	1064	1079	1094	1109	1124	1139	1154	1169	1184	1199	1214	1229	1244	1259	1274	1289	1304	1319	1334	1349	1364	1379	1394	1409	1424	1439	1454	1469	1484	1499				
January														1		1		3	3		3	2	2	5	2	2	2	1		2								1			1								
February																				1		1				1	3	2	3	1	4	3	2	3	1				1			1			1				
March																	1	2	2		1	1	3	5	2	3	2	1	4	2	2	3	2	1	1			1	1	1									
April															4	1	2	2			2		2	1	1	6	2		2	1			1	2	1														
May														1			1	1	1	2	4		2	3	2	2	1	4		1			2		1	2				1									
June													1	1	1	2	3	2	2	1	1		2	3	4	1	2	2	3			1		2	1	1	1	2	1	1									
July																1				1	1	1		1	1	1	1		3	4	6	3	4	3		1													
August			1			1	1	1	1	1		2	3	2		3	1		2	2	2			1	2	1				1			2						1										
September						1	1	1	1	2		2	5	3			4	1	2	2	1	3	2	2	3	1		1		3																			
October											1				2	1	1	3	3	1	2	1	1	4	5	2		1			2			1															
November														1	1	2	1		3	1	1	2	3	2	3			1	1	1		3	1	1	1	1													
December											1					1		3	1	3	2	4	2	3	4	1	4	1	3	1	2	1	3				1												
<b>Total</b>				1			2	2	2	3	1	5	9	7	5	12	14	14	18	18	14	18	16	25	34	23	19	14	18	15	17	16	15	17	8	5	6	4	2	3	1			1					

## Upper Air Frequency Table XXIII for Argentine Islands, 1958.

HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 15 metre ranges :- 22

800 mb. Mean height 1,635 metres. I.C.A.N. height 1,949 metres.

MONTH	1290	1305	1320	1335	1350	1365	1380	1395	1410	1425	1440	1455	1470	1485	1500	1515	1530	1545	1560	1575	1590	1605	1620	1635	1650	1665	1680	1695	1710	1725	1740	1755	1770	1785	1800	1815	1830	1845	1860	1875	1890	1905	1920	1935	1950				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
	1304	1319	1334	1349	1364	1379	1394	1409	1424	1439	1454	1469	1484	1499	1514	1529	1544	1559	1574	1589	1604	1619	1634	1649	1664	1679	1694	1709	1724	1739	1754	1769	1784	1799	1814	1829	1844	1859	1874	1889	1904	1919	1934	1949	1964				
January													1		1		1	4	1	1	4	2	4	3	2	1	1	1		2								1		1									
February																			1				1			3	3	2	2	4		4	2	3							1			1					
March															1		3	1			2	3	4	4		3	2	1	4	2	2	3	2			1			1	1	1								
April															2	2	4	1		2		2	1	3	3	3		2	1				2	1	1														
May														2		1	1	2		2	4		2	2	3		2	3		1				2	1	2				1									
June										1		1	2	2	1	3	2	1	1	1	1	3	3	2	2	2	3			1	1	1		2			3	1											
July															1			1	1		1		1	1	1				3	4	6	5	3	2			1												
August	1				2	1		1			3	4	2	1	1	2	1	2		1			2	2				1					2						1										
September					1	2	2		3	4	1	2	1	2	2	1	1	2	1	3	2	4	1	1	1		1		1	2																			
October									1					2	1	1	3	3	1	1	3	1	3	4	3		1			2			1																
November															1	1	2		3	1		2	4	3	2	1		2	1		2	1	2	1			1												
December											1				1		3		4	2	3	1	4	3	2	4	3	2	2		2	2	1				1												
<b>Total</b>		1			2	2	2	3		5	7	7	6	9	9	15	17	14	17	14	15	18	29	29	24	17	16	16	13	15	15	17	15	11	4	6	5	4	2	1	1			1					

## Upper Air Frequency Table XXIV for Argentine Islands, 1958.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— <span style="float: right;">22</span>																																																																	
	700 mb. Mean height 2,649 metres. I.C.A.N. height 3,102 metres.																																																																	
	201 to 203	204 to 206	207 to 209	210 to 212	213 to 215	216 to 218	219 to 221	222 to 224	225 to 227	228 to 230	231 to 233	234 to 236	237 to 239	240 to 242	243 to 245	246 to 248	249 to 251	252 to 254	255 to 257	258 to 260	261 to 263	264 to 266	267 to 269	270 to 272	273 to 275	276 to 278	279 to 281	282 to 284	285 to 287	288 to 290	291 to 293	294 to 296	297 to 299	300 to 302	303 to 305	306 to 308	309 to 311	312 to 314	315 to 317	318 to 320	321 to 323	324 to 326	327 to 329	330 to 332	333 to 335																					
January																1	1	2	4	8	4	5	1	1	2			1	1																																					
February																				1	1	4	3	6	3	4	3		1	1				1																																
March															1	1		2	1	2	9	2	4	4	5	5	2		2	1																																				
April																2	1	3	3	3	4	3	1	4	1		1	2	1		1																																			
May														1			2	2	3	3	3	6	2	2	1		1	4	1																																					
June													1	1	2	1	5	3	1	4	5	6	2			2	1	2	3	1																																				
July																	1	1	1	1	2	1			4	6	11	1	2																																					
August											2	2		1	1	6	2	5	2		1	2	2	1			2		1																																					
September													3	3	4	4	2	2	3	3	5	5	2	1	2	1																																								
October															1	1	2	2	7	1	5	7	1	2	1	1																																								
November																		2	4	3	3	4	3	3	1	3	3	1	3	1																																				
December																	1	2	2	6	4	9	3	4	5	2	2			1																																				
Year										2	2	3	5	7	13	9	21	21	28	32	44	54	25	29	27	31	18	17	7	5	3																																			





# Upper Air Frequency Table XXVI for Argentine Islands, 1958.

HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— 22

MONTH

500 mb. Mean height 5,101 metres. I.C.A.N. height 5,574 metres.

	435	438	441	444	447	450	453	456	459	462	465	468	471	474	477	480	483	486	489	492	495	498	501	504	507	510	513	516	519	522	525	528	531	534	537	540	543	546	549	552	555	558	561	564	567								
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to				
	437	440	443	446	449	452	455	458	461	464	467	470	473	476	479	482	485	488	491	494	497	500	503	506	509	512	515	518	521	524	527	530	533	536	539	542	545	548	551	554	557	560	563	566	569								
January																				1		2	3	7	3	5	2	2	2	1		1		1		1																	
February																								1			2	2	3	3	2	4	2	3	3		1	1				1											
March																1		1					1	1	3	1	4	3	3	3	3	6	3	3	2	1		1	1														
April																		2	1		2		3	4	2	1	4		3	1	2	1			2	1	1																
May													1				1	1	2		2	3	2	4	5			2	2	1	1		3	1																			
June															2	2			2	6	2		1	4	4	6	1		1	2		1	1	2	3																		
July																	1			1	1	3	1		2	2	2	5	6	4		1	2																				
August								1	2		1	1				1	5	2	4		3	1		4		1		1		2		1																					
September													2	3	1	2	3	2	1	2	4	3	3	5	2	3		1	1	1		1																					
October																	1			1	3	3	3	5	3	2	5	2		2	1																						
November																					1	1	3	3	4	1	3	1	3	2	3	2	1	1			1																
December																						3		2	5	8	3	3	5	4	3	1	2	1																			
Year								1	2		1	3	4	3	5	9	9	10	11	17	14	22	34	35	33	29	17	28	30	20	18	11	15	12	3	4	2	1	1														



# Upper Air Frequency Table XXVIII for Argentine Islands, 1958.

22

HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :-

300 mb. Mean height 8,502 metres. I.C.A.N. height 9,164 metres.

MONTH	783	786	789	792	795	798	801	804	807	810	813	816	819	822	825	828	831	834	837	840	843	846	849	852	855	858	861	864	867	870	873	876	879	882	885	888	891	894	897	900	903	906	909	912	915											
	to 785	to 788	to 791	to 794	to 797	to 800	to 803	to 806	to 809	to 812	to 815	to 818	to 821	to 824	to 827	to 830	to 833	to 836	to 839	to 842	to 845	to 848	to 851	to 854	to 857	to 860	to 863	to 866	to 869	to 872	to 875	to 878	to 881	to 884	to 887	to 890	to 893	to 896	to 899	to 902	to 905	to 908	to 911	to 914	to 917											
January																		1		3	3	3	3	3	1	6	3		1	1		1																	1							
February																						1		1	2	1	1	2	2	2	1	3	3	4	1	1	1												1	1						
March																	2		1				3	1	2	1	3	2	4	4	1	2	2	6	2	1	2													2						
April													1			2	1	1			4	2	1		3	2	3	1	1		3	1		1			1	1	1																	
May										1			1	2			2		3	4	1	1	3	4			1	1	2		1	1	2	1																						
June																		1	1	1	4	1	3	1	4		2		1	1	1	1	2	2																						
July																			1	1	2		3	3	4	2	4	2	2						1																1					
August					3	1	1				3	1	4	1	1	1	3		1		4	2					2	2																												
September				1	1				2	1	4			1	3	1	1	4	3	3	2	1	3	1	3	1							2																							
October																1		3	3			3	2	5	2			6	1	2			1	1																						
November																			1	1	4			3	2	1	2	3	1	1	4	1	1	2				1	1									1								
December																			1	1			3	1	3	8	1	1	2	2	2	2	6	1	3	3	1	1																		
Year					4	2	1	2	1	8	4	6	6	9	6	16	14	8	14	21	25	13	22	33	21	15	23	17	18	18	9	13	14	14	8	5	6	3							3	1	1									







Means and Extremes Table I for Loubet Coast, Grahamland, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300	MAX.	MIN.	MAX.	DATE	MIN.	DATE	
January	984.9	1012.3	31st	967.2	11th	30.6	30.8	31.2	32.1	32.8	32.6	31.8	31.2	31.6	34.2	28.5	<u>41</u>	<u>25th</u>	24	12th
February	997.5	1017.1	2nd	975.9	6th	28.8	28.5	29.0	29.7	30.3	30.8	29.8	28.9	29.5	32.4	26.7	36	12th	19	18th
March	994.0	1014.2	5th	972.6	16th	26.5	26.0	26.0	26.7	27.0	26.8	26.5	26.6	26.5	29.4	23.3	37	9th	9	17th, 18th
April	985.3	1004.2	22nd	962.9	2nd	22.9	22.5	22.6	23.0	23.3	23.0	22.6	22.2	22.8	26.0	18.9	38	21st	5	30th
May	993.2	<u>1017.6</u>	<u>16th</u>	966.4	26th	12.1	12.5	12.1	12.5	12.0	11.8	12.7	12.6	12.3	17.5	6.9	31	26th	-11	3rd
June	989.2	1016.6	15th	960.4	9th	5.0	5.5	5.7	6.2	6.2	5.3	5.1	4.8	5.5	11.4	-0.2	30	8th	-17	28th
July	1001.3	1016.5	20th	965.3	31st	1.9	2.7	2.8	4.1	4.6	3.5	3.5	2.4	3.2	11.0	-5.3	33	27th	-28	13th
August	979.2	1010.9	16th	<u>949.2</u>	<u>31st</u>	-2.5		-2.3		-1.0		-2.8		-2.1	8.7	-11.9	31	21st, 28th	<u>-45</u>	<u>10th</u>
September	978.1	1006.2	28th	949.9	8th	2.9		4.3		7.5		4.0		4.7	14.5	-5.3	33	20th	-25	2rd, 3rd
October	980.5	1010.1	22nd	953.9	7th	18.7		19.3		21.9		20.9		20.2	25.6	14.0	35	24th, 31st	-6	22nd
November	985.2	1008.3	15th	958.8	22nd	27.9		28.7		30.4		29.0		29.0	32.3	24.9	39	1st, 7th	14	27th
December	986.9	1007.7	28th	958.9	23rd	25.4		26.7		30.1		28.4		27.7	31.8	22.6	37	26th	9	5th
Total	11855.3	12141.7	—	11541.4	—	200.2	—	206.1	—	225.1	—	211.5	—	210.9	275.2	143.1	421	—	-52	—
Mean	988.0	1011.8	—	961.8	—	16.7	—	17.2	—	18.8	—	17.6	—	17.6	22.9	11.9	35.1	—	-4.3	—

Means and Extremes Table II for Loubet Coast, Grahamland, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.) <sup>1</sup>													
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE											
	0200	0300	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.															
January	81	81	80	80	78	79	79	79	80	6.8	6.5	6.6	6.5	6.4	6.4	6.3	6.7	6.6	4.7		20.6														
February	82	83	83	83	80	79	82	81	82	4.9	5.6	5.6	5.5	5.3	5.3	5.5	4.9	5.3	6.1		16.4														
March	82	82	84	83	83	84	84	83	83	5.7	5.9	6.4	6.4	6.7	6.5	6.2	5.7	6.2	2.5		12.5														
April	81	81	79	82	82	81	82	81	81	5.6	5.7	6.3	6.7	6.8	6.6	5.7	5.0	6.1	1.3		8.7														
May	78	78	80	77	77	79	79	80	79	5.5	5.5	5.8	5.7	5.6	5.4	5.4	5.4	5.5	1.0	Not recorded	4.7														
June	81	80	81	83	81	82	80	81	81	4.7	5.1	5.0	5.7	6.0	5.2	4.7	4.5	5.1	0.0		0.5														
July	83	83	85	84	83	83	82	83	83	4.4	4.8	5.1	5.5	5.3	5.1	4.0	4.2	4.8	0.3		2.9														
August	80		79		82		83		81	5.2		6.6		6.3		5.6		5.9	0.8		7.3														
September	83		82		83		83		83	6.8		6.8		6.6		6.0		6.5	2.2		11.1														
October	85		85		85		85		83	6.4		6.3		6.5		6.6		6.4	2.9		14.9														
November	88		88		85		89		87	7.5		7.4		7.0		7.1		7.3	2.0		19.3														
December	82		79		76		81		79	6.0		6.3		5.9		6.4		6.1	5.7		23.3														
Total	986		985		975		989		982	69.5		74.2		74.4		69.5		71.8	29.5		142.2														
Mean	82		82		81		82		82	5.8		6.2		6.2		5.8		6.0	2.5		11.9														



## Frequency Table I for Loubet Coast, Grahamland, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	930.0	944.0	949.0	954.0	959.0	964.0	969.0	974.0	979.0	984.0	989.0	994.0	999.0	1004.0	1009.0	1014.0	1019.0	1024.0	1029.0	1034.0	1039.0
January							3	23	67	32	65	30	11	4	6	7					
February									8	7	23	22	94	45	8	5	12				
March								4	12	20	49	53	48	37	15	10					
April						3	8	31	41	23	56	37	19	22							
May							6	3	14	42	36	41	46	20	13	16	11				
June						6	12	16	40	29	28	16	27	33	10	13	10				
July							6	1		5	13	15	50	55	71	19	13				
August			1	1	7	14	18	18	13	11	7	12	8	5	6	3					
September			1	3	5	15	7	15	20	18	13	11	4	7	1						
October				2	2	8	11	14	22	19	26	10	3	2	4	1					
November					2	2	7	12	11	31	19	7	15	6	8						
December					1	1	5	7	18	23	21	17	14	14	3						
Year			2	6	17	49	83	144	266	260	356	371	339	250	145	74	46				



## Frequency Table III for Loubet Coast, Grahamland, 1958.

RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5

MONTH	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	to 79	to 84	to 89	to 94	to 99	100
January									1	3	16	39	49	26	21	17	26	50	
February						1	1	3	6	8	17	21	14	19	18	23	29	61	3
March						1		3	5	13	14	13	16	17	21	38	51	51	5
April								2	9	9	18	22	13	22	26	33	46	39	1
May							1	5	8	11	16	18	27	25	24	61	44	8	
June							3	1	7	10	4	9	19	29	38	70	40	9	1
July									1	1	6	12	12	36	60	60	44	15	1
August											4	5	11	18	38	31	12	1	
September											2	5	9	14	45	27	10	8	
October											3	6	4	17	25	24	27	18	
November										4		2	8	12	7	22	29	35	1
December									1	2	14	10	10	22	18	19	21	7	
Total						2	5	14	38	61	114	162	192	257	341	425	379	302	12
Mean						—	—	1	3	5	9	13	16	21	28	35	32	25	1

Only 120 observations in August.

# Frequency Table IV for Loubet Coast, Grahamland, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>									LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	≥ 40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS								7-8 OKTAS										
																	0	30	60	120	300	600	1200	2400	≥ 6000	0	30	60	120	300		600	1200	2400	≥ 6000
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	>	to 30	to 60	to 120	to 300	to 600	to 1200		to 2400	to 6000	>	
January				2	9	4	41	22	44	126	32	45	24	28	118	1	1		36	33	35	57	54	31		1		23	19	15	24	18	7		1
February	1	1		5	7	28	20	27	135	63	46	20	24	63	8	9	8	26	34	22	32	30	30	17	8	2	19	15	14	9	5	2	4	16	
March		2	7	9	8	37	34	27	124	28	43	34	34	103	6	7	3	13	75	55	47	19	12	5	6	3	10	34	31	9	4	3	1	11	
April	2	2	14	13	9	28	31	41	100	21	45	29	55	79	11	11		10	43	35	84	36	10	2	11		6	21	20	35	10	1	1	9	
May	7	2	8	3	11	28	37	33	119	56	36	31	34	79	12	12		5	34	45	60	36	22	13	12		2	15	14	32	12	3		21	
June	13	8	11	8	4	31	28	44	93	65	40	29	24	65	17	19		5	33	50	58	10	34	2	17		14	24	29	4	4		20		
July	2	12	6	19	15	9	23	24	27	111	92	16	20	31	52	27	27		6	16	33	46	20	32	16	27		2	12	14	24	7		54	
August	1	10		11	4	9	13	9	18	49	32	13	11	16	39	13	13		8	11	37	23	16	6	13		2	8	25	12	3	1	10		
September	6	9	9	15	8	7	12	10	20	24	14	13	12	17	37	27	27		7	17	37	18	9	1	27		4	10	24	7	1		4		
October	2	5	5	7	2	5	14	19	12	53	15	21	16	24	38	10	10		1	15	38	28	17	9	5	10		12	18	8	1	2	1	1	
November	6	3	14	11	18	15	19	8	26	9	8	12	23	59	9	9		3	44	33	19	3	5	4	9		1	36	13	2		2	1		
December	1	2	5	6	6	9	11	12	72	8	35	17	25	34	5	5	1		20	30	37	23	5	2	5	1		6	15	7	1	1		1	
<b>Total</b>	11	66	40	113	93	97	279	264	313	1032	435	361	255	335	766	146	150	12	105	362	404	542	289	215	73	146	6	63	190	196	228	81	29	9	157
<b>Mean</b>	1	5	3	9	8	8	23	22	26	86	36	30	21	28	64	12	13	1	9	30	34	45	24	18	6	12	1	5	16	16	19	7	2	1	13

Frequency Table V for Loubet Coast, Grahamland, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>10</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>11</sup>	<sup>11</sup>	<sup>12</sup>	<sup>13</sup>	<sup>14</sup>	<sup>10 &amp; 15</sup>	Fog <sup>10 &amp; 16</sup>		Hail. <sup>10 &amp; 17</sup>		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE = 6	WIND FORCE = 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=
January	1																								
February							15		4	16	4	2		20					7						
March							10	3	1	10	2	2		14	2				6		3	3			
April	1						15	4	1	22				18	1				17		3	3			
May		2	4		Not recorded	Not recorded	17	9	1	21	1	2		16	1				14		1	6			
June		6	10		Not recorded	Not recorded	23	11	1	23				15					25		4	7			
July		8	17		Not recorded	Not recorded	20	12		20				11	3				14		1	10			
August		14	22		Not recorded	Not recorded	16	8	1	19	1	2		9	8				18		1	11			
September		4	16		Not recorded	Not recorded	17	12		26				15	1				26		1	15			
October			1		Not recorded	Not recorded	20	13		25				19	1				25		1	21			
November					Not recorded	Not recorded	23	9	1	20	4	2		18	1				23	1		11			
December					Not recorded	Not recorded	24	10	6	26	4			21					24			12			
					Not recorded	Not recorded	15	5		17	3	1		14					16	1	3	6			
Total	2	34	70	-			215	96	16	245	19	11		190	18			215	2	14	112				
Mean	-	3	6	-			18	8	1	20	2	1		16	1			18	-	1	9				

Frequency Table VI for Loubet Coast, Grahamland, 1958.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
		KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	13.0		38	102	93	15	37	12	3	4	9	132	22		5	4		5	
February	10.4	7	34	40	94	49	41	8	6	1	11	74	15	3	1	3	1	11	
March	12.5	6	45	79	95	23	69	16	6	5	9	63	21	6	4	5	4	17	
April	17.4	42	42	58	67	31	35	23	1	4		27	96	6	2	5	3	7	
May	18.7	40	51	66	67	24	48	19	5	6	3	27	87	9	1	3	7	9	
June	17.3	37	49	51	64	39	40	13	2	4	4	21	76	2	4	6	10	19	
July	13.8	30	44	43	72	59	77	21	1	4		29	31	1	2	5	4	14	
August	15.5	18	16	31	37	22	25	12	5	1	1	15	27	1	2		2	11	
September	18.4	24	16	36	23	21	17	23	1	1	3	11	27	2	2	2	3	7	
October	20.2	15	38	36	28	7	26	17	2	1		30	33	1		2	2	3	
November	20.5	15	41	35	25	4	50	20	1			20	19			1	3	2	
December	14.7	7	31	31	36	19	19	20	3		1	13	38		4	3		4	
Total	192.4	241	445	608	701	313	484	204	36	31	41	462	492	31	27	39	39	109	
Mean	16.0	20	37	51	58	26	40	17	3	3	3	39	41	3	2	3	3	9	

# Frequency Tables VII to X for Loubet Coast, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2		3		2	1		1	3			13
2	1		1	1	3	12	1		3	1			25
3	5	6	2		5	25	9		1				55
4	13	3			1	30	2					1	50
5	12					35	5						52
6	4	1				25	2						32
7	1					3	2						6
≥ 8													
Totals	37	12	3	4	9	132	22		5	4		5	233

CALMS - 15

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	2	3	1	4	3	2	2	1	2			24
2	12	2	2		4	8	2	1			1	3	35
3	11	2	1		1	10	5			1		4	35
4	7				1	11	4					2	25
5	4	1			1	7						2	15
6						15	2						17
7	1	1				15							17
≥ 8	2					5							7
Totals	41	8	6	1	11	74	15	3	1	3	1	11	175

CALMS - 49

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	4	2	3	3	8	3	3	1	1		4	35
2	1	2	3	1	3	10	3	2		1		1	27
3	8	2	1	1	2	10	2			1	3	3	33
4	13	4				8	11	1	2	2	1	8	50
5	15	2			1	10			1				29
6	16	1				11	2					1	31
7	9					5							14
≥ 8	4	1				1							6
Totals	69	16	6	5	9	63	21	6	4	5	4	17	225

CALMS - 23

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	2	1	2		2	1		1	1			13
2	3			1		12	4		1	3	1	1	25
3	3	4		1		8	9	2		1		1	29
4	2	2				4	14	2	1		2	3	30
5	5	2					18	1					28
6	11	4					14	1				2	30
7	4	2			1	5							12
≥ 8	4	7				31							42
Totals	35	23	1	4		27	96	6	2	5	3	7	209

CALMS - 31

# Frequency Tables XI to XIV for Loubet Coast, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		2		2	1		3		1		1	12
2	3		2	3	1	2	5				2	2	20
3	5	5	1	3		5	6	3	1	2	3	1	35
4	12	3				4	11	3			1		34
5	13	3				3	9				1	3	32
6	7	5				8	12					1	33
7	5					1	11					1	18
>= 8	1	3				3	33						40
Totals	48	19	5	6	3	27	87	9	1	3	7	9	224

CALMS - 24

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1		2	1				1	2	3	3	15
2	3		1		1					2	3	3	11
3	8	3	1	1	3	3	3	1		2	2	11	38
4	8	6		1		5	4	1	2	1	2	1	31
5	5					1	14						20
6	5					3	17		1	1		1	28
7	4					4	13						21
>= 8	5	3				4	25						37
Totals	40	13	2	4	4	21	76	2	4	6	10	19	207

CALMS - 39

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	8	2		2		1	1	1				2	17
2	7	2		1		3	2			1	3		19
3	4	3		1		14	7		1	2	1	3	36
4	9	1	1			8	6			1		4	30
5	4					1	7					1	13
6	12	4					6					4	26
7	14					2	2						18
>= 8	19	9							1	1			30
Totals	77	21	1	4		29	31	1	2	5	4	14	189

CALMS - 59

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	3	3						1			2	11
2	4			1	1	1	3					2	12
3	4	2	2			2	2	1			1		14
4	4	2				4	3					5	18
5	3					4	3		1			2	13
6	1					3	5						9
7	2	1				1	3						7
>= 8	5	4					8				1		18
Totals	25	12	5	1	1	15	27	1	2		2	11	102

CALMS - 22



# Frequency Tables XV to XVIII for Loubet Coast, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2					1						1	4
2		2			1		1	1	1				6
3	2	4	1	1	1	2	1						13
4	2	1			1	4	4	1	1	1	1	2	18
5	3	5				4	2				2	2	18
6	4	1					2						7
7	1	3					4					1	9
≥ 8	3	7					13			1			24
Totals	17	23	1	1	3	11	27	2	2	2	3	7	99

CALMS — 21

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				1			2				1		4
2						2							2
3	1	4				13	2	1		1			22
4	5	1	2			5	9					1	23
5	5					4	3						16
6	5	4				3	4						13
7	6	4				1	8			1	1	1	22
≥ 8	4	4				2	5						15
Totals	26	17	2	1		30	33	1		2	2	3	117

CALMS — 7

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340		
1			2				1			1			4	
2	1						2	2					5	
3	7	1					4	2				2	16	
4	7			1			4				1		13	
5	15	2					2	2				1	22	
6	9	7					8	2					26	
7	7	2					2	3				1	15	
≥ 8	4	6					1	4					15	
Totals	50	20	1				20	19			1	3	2	116

CALMS — 4

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1	1			1		1						4
2	2	2	1			3	7		1				16
3	2	4	2			5	2					1	16
4	3	5					8		2	1			20
5	7						2						11
6	2	1				1	7		1	1			13
7	1	5				3	8			1			18
≥ 8	1	2				1	3						7
Totals	19	20	3		1	13	38		4	3		4	105

CALMS — 19

Frequency Table XIX for Loubet Coast, Grahamland, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	28	19	11	14	11	19	11	9	6	11	4	13	156
2	37	10	10	8	13	56	30	4	5	6	10	14	203
3	60	40	11	8	12	101	50	8	3	10	12	27	342
4	85	28	4	1	3	83	80	8	8	6	8	28	342
5	91	15			2	71	65	1	2		3	16	266
6	76	28				77	75	1	2	2		7	268
7	55	18				38	59			2	1	4	177
= > 8	52	46				17	122		1	2	1		241
Totals	484	204	36	31	41	462	492	31	27	39	39	109	1995

CALMS 313.

Means and Extremes Table I for Horseshoe Island, Grahamland, 1958.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	985.3	1011.0	31st	969.2	12th	31.1	31.3	33.0	35.1	35.7	34.9	33.5	32.1	33.3	37.8	29.4	45	24th	22	18th
February	997.8	1015.9	2nd	977.7	6th	29.8	29.7	30.6	32.5	33.1	32.6	30.9	29.8	31.1	35.9	27.8	<del>47</del>	<u>1st</u>	19	27th
March	993.8	1012.9	5th	976.1	16th	24.3	24.2	24.6	26.1	27.1	25.7	24.8	24.7	25.2	30.3	20.0	43	9th	1	17th, 18th
April	985.8	1002.9	22nd	964.8	2nd	20.1	20.2	20.1	21.6	22.2	20.9	20.5	19.5	20.6	26.2	15.4	42	21st	-9	30th
May	994.1	1016.3	19th, 20th	963.3	26th	7.5	7.4	7.9	7.6	7.5	6.9	7.9	8.2	7.6	14.8	0.3	31	26th	-19	3rd
June	990.1	<u>1017.1</u>	<u>15th</u>	959.7	9th	-0.4	-0.1	0.3	-0.1	-0.5	-0.6	-0.3	-1.2	-0.4	6.8	-7.1	25	8th	-35	6th
July	1000.8	1016.1	19th	964.1	31st	-0.9	0.1	0.2	0.4	1.2	1.2	-0.4	-0.4	0.2	9.2	-9.1	40	27th	-41	13th
August	979.1	1010.5	14th	952.3	30th	-3.2	-2.8	-2.7	-2.0	-1.6	-3.2	-4.7	-5.1	-3.2	5.9	-13.7	29	21st, 29th	<del>42</del>	<u>10th</u>
September	977.8	1006.3	28th	<u>947.9</u>	<u>8th</u>	4.0	5.1	5.3	6.5	6.9	5.8	4.5	3.7	5.2	13.9	-3.9	32	20th	-31	2nd
October	980.3	1011.5	21st	952.0	7th	19.0	19.0	20.4	22.0	22.9	22.5	21.0	20.4	20.9	26.6	13.6	36	23rd, 30th	-9	21st
November	984.5	1007.9	15th	956.7	22nd	29.5	29.4	30.3	31.6	32.4	31.6	30.5	29.7	30.6	34.7	26.8	44	7th	13	30th
December	987.0	1006.9	28th	958.6	23rd	27.1	27.0	28.9	30.8	31.5	31.5	30.5	28.4	29.5	34.3	24.7	41	26th	16	12th
Total	11856.4	12135.3	—	11542.4	—	187.9	190.5	198.9	212.1	218.4	209.8	198.7	189.8	200.6	276.4	124.2	455	—	-115	—
Mean	988.0	1011.3	—	961.9	—	15.7	15.9	16.6	17.7	18.2	17.5	16.6	15.8	16.7	23.0	10.4	37.9	—	-9.6	—

Means and Extremes Table II for Horseshoe Island, Grahamland, 1958.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.) <sup>1</sup>		
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	62	65	63	58	58	64	62	63	62	6.5	6.7	7.0	6.8	6.8	7.0	6.4	6.4	6.7	5.5		22.7			
February	75	74	74	71	69	70	76	76	72	6.0	5.6	5.3	5.4	5.1	5.1	5.6	5.7	5.5	6.2		17.6			
March	82	80	78	79	75	79	78	78	79	6.3	6.5	6.4	6.1	6.8	6.5	6.2	6.1	6.4	2.4		13.5			
April	75	75	73	67	71	72	73	75	73	5.2	5.3	6.4	6.3	6.5	6.6	6.0	5.6	5.9	1.6		9.6			
May	77	79	79	79	79	80	79	77	79	5.2	5.2	5.3	5.9	6.0	5.6	5.0	5.4	5.5	0.6		5.3			
June	81	78	81	75	78	75	78	77	78	5.0	4.5	4.4	5.7	6.0	5.0	4.4	4.7	5.0	0.0		0.6			
July	71	72	69	67	65	70	69	75	70	4.8	4.9	4.6	5.0	5.4	4.8	4.6	4.2	4.7	0.0		2.9			
August	79	83	80	80	81	83	79	78	80	5.5	5.5	6.0	6.1	6.4	6.5	5.6	5.8	5.9	0.9		9.8			
September	86	82	79	81	83	82	84	85	83	6.3	7.2	7.3	7.0	6.2	6.4	6.4	5.6	6.6	1.7		11.8			
October	79	78	79	77	76	75	80	81	78	6.6	7.0	6.8	6.6	6.6	6.8	6.8	6.6	6.7	3.3		17.9			
November	78	77	78	75	73	76	78	78	77	7.2	7.3	7.2	7.2	6.9	7.0	6.8	7.1	7.1	3.6		20.8			
December	83	84	79	75	74	74	81	79	79	7.0	7.0	6.6	6.5	6.5	6.3	6.7	6.7	6.7	5.5		24.0			
Total	928	927	912	884	882	900	917	922	910	71.6	72.7	73.3	74.6	75.2	73.6	70.5	69.9	72.7	31.3		156.5			
Mean	77	77	76	74	73	75	76	77	76	6.0	6.1	6.1	6.2	6.3	6.1	5.9	5.8	6.1	2.6		13.0			

Frequency Table I for Horseshoe Island, Grahamland, 1958.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9
January							2	19	75	31	47	47	11	4	6	6					
February									6	12	17	17	100	43	13	9	7				
March									12	14	51	72	48	29	13	9					
April						2	9	20	42	27	58	43	22	17							
May						2	3	2	8	36	39	40	50	30	12	16	10				
June					1	6	13	14	33	34	28	20	21	21	24	7	18				
July						3	3	2	3	2	13	33	38	48	75	22	6				
August				7	6	31	36	42	29	10	23	12	22	18	10	2					
September			1	5	8	18	37	30	43	33	25	18	10	10	2						
October				3	9	15	18	31	48	37	45	24	3	4	7	4					
November					6	3	11	22	37	50	42	18	29	13	9						
December					2	2	2	25	34	38	49	33	34	25	4						
Year			1	15	32	82	134	207	370	324	437	377	388	262	175	75	41				



Frequency Table III for Horseshoe Island, Grahamland, 1958.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January						6	17	52	45	13	10	9	32	18	18	22	4	2	
February					5	8	16	11	8	7	10	10	25	23	24	37	28	11	1
March						1	2	1	5	6	8	16	29	34	39	60	40	6	1
April							5	10	7	15	5	24	32	29	35	41	32	5	
May								1	2	14	13	11	19	20	52	60	50	6	
June								1	3	12	11	15	28	19	46	50	47	8	
July										2	12	25	24	35	68	32	39	11	
August											3	20	13	25	56	77	42	12	
September											4	6	7	23	56	83	44	15	2
October										8	18	22	32	39	38	39	35	13	4
November							1	1	10	19	17	18	41	45	27	14	23	17	7
December									13	17	21	17	29	25	37	28	27	29	5
Total					5	15	41	77	93	113	132	193	311	335	496	543	411	135	20
Mean					—	1	3	6	8	9	11	16	26	28	41	45	34	11	2

# Frequency Table IV for Horseshoe Island, Grahamland, 1958.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	< 40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	> 40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0	30	60	120	300	600	1200	2400	=	0	30	60	120	300		600	1200	2400	=
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	>	to 30	to 60	to 120	to 300	to 600		to 1200	to 2400	to 6000	>
January						6	10	53	179	81	39	42	39	47				1	12	18	29	107	74	6					7	3	4	38	38	5	1
February		2	3	6	1	1	30	22	27	132	75	33	13	21	68	14	14	1	6	12	37	28	51	44	8	14		2	9	16	13	29	9		23
March				1			27	58	61	101	56	38	23	31	99	1	1		1	38	32	58	62	29	4	1		1	27	12	32	22	14	2	23
April					1		16	34	67	122	68	18	23	55	74	2	3		2	16	18	60	73	38	16	2			9	6	35	43	6		14
May				7	9	6	34	37	42	113	68	25	22	26	101	6	8	3	6	13	18	52	80	34	8	7		4	9	14	36	48	6		26
June		2		5	6	10	35	32	34	116	70	37	31	31	64	7	7		3	14	23	35	88	35	4	7		2	10	14	14	45	4	1	31
July		3	2	4	10	8	11	23	41	146	108	22	27	41	46	4	10	1	2	5	14	43	65	31	38	6		2	1	9	16	29	8	1	39
August	2	7	7	12	16	9	51	39	53	52	71	39	26	30	67	15	19		1	14	31	42	70	40	9	15			8	20	19	34	14	4	22
September	1	1	6	14	14	14	55	49	41	45	55	22	24	37	93	9	11			12	35	66	61	36	7	9			9	23	49	26	12	1	12
October			1	8	5	1	28	32	47	126	51	40	44	43	66	4	6		1	15	42	59	74	47	2	4			7	21	18	15	13		2
November				2	9	11	18	24	45	131	17	55	47	59	61	1	2		4	21	32	63	101	12	5	1		3	17	14	9	14	4	1	
December				2	6	7	29	27	26	151	63	43	14	53	75		5		4	12	52	50	62	53	6			1	8	20	15	11	14	1	4
Total	3	15	19	61	77	67	340	387	537	1414	783	411	336	466	861	63	86	5	31	184	352	585	894	473	113	66		15	121	172	260	354	142	16	197
Mean	-	1	2	5	6	6	28	32	45	118	65	34	28	39	72	5	7	-	3	15	29	49	75	39	9	5		1	10	14	22	29	12	1	16



Frequency Table V for Horseshoe Island, Grahamland, 1958.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9	9	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16		10 & 17		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE = 6	WIND FORCE = 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	Fog		HAIL		
	>32°F	<5°F	<-4°F	>41°F	=	=	=	= ^	= ^												True	Pseudo	True	Small	Soft
January	5			5				16	6	2	6				24	1				2					
February	5			3				6	3	2	8				15	5				1	3		1		
March	1			1				7		3	19	3			22	2									
April		1	2	1				8	2	1	18		3		19	1									
May		3	8					8	3		19				19	1				2					
June		11	17					11	3		18				13	5					2	1			
July		12	19					10	3	1	15	2			13	6									
August		14	22					13	5		24				17	2									
September		6	12					10	2		26				22										
October			3					10	3	1	22	1	1		23										
November	3			1				9	3	3	19	3	2		24						1	4			
December	1							8			19	4	1		23										
Total	15	47	83	11				116	33	13	213	15	10		226	26				140	6	9	37	1	
Mean	1	4	7	1				10	3	1	18	1	1		19	2				12	1	1	3	-	

Frequency Table VI for Horseshoe Island, Grahamland, 1958.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :—																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	14.6	6	58	80	90	14	12	45	68	61			3	20	20	4	1		
February	8.6	4	20	44	107	49	14	20	48	31	1	2	9	18	21	3	2	6	
March	7.9		16	71	105	56	9	32	49	20		3	21	23	20	5	6	4	
April	9.0	3	23	57	99	58	13	28	47	34	1	5	15	20	14	1	1	3	
May	8.9	12	13	61	78	84	5	33	38	40		2	11	20	12	2	1		
June	9.0	8	30	47	58	97	1	28	41	32	1	4	8	16	11	1			
July	7.5	4	21	62	53	108	13	44	38	6	1	3	6	9	7	7	4	2	
August	10.0	11	29	57	74	77	8	35	49	19	1		15	29	9	4	2		
September	10.8	5	29	75	77	54	6	45	51	22	2	3	12	20	17	2	4	2	
October	10.4	2	26	84	94	42	11	78	54	20			10	14	14	3	2		
November	12.2	3	29	89	105	14	10	83	89	27			6	8	3				
December	9.4		27	67	98	56	9	40	42	29			8	15	26	18	3	2	
Total	118.3	58	321	794	1038	709	111	511	614	341	7	22	124	212	174	50	26	19	
Mean	9.9	5	27	66	87	59	9	43	51	28	1	2	10	18	15	4	2	2	

# Frequency Tables VII to X for Horseshoe Island, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		1					2	2	1			7
2	1	5	5				1	7	9	3	1		32
3	2	15	16				2	8	8				51
4	2	23	20	5				3	1				54
5	4	1	12	9									26
6	1		10	24									35
7	1		2	20									23
≥ 8		1	2	3									6
Totals	12	45	68	61			3	20	20	4	1		234

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TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5		2	2		1	3	3	6		1	4	27
2	2	5	6		1		4	11	8	2	1		40
3	3	8	9	4			2	4	7	1			40
4	3	5	18	6		1							33
5	1	1	4	5									11
6		1	6	1									8
7			2	10									12
≥ 8			1	3									4
Totals	14	20	48	31	1	2	9	18	21	3	2	6	175

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TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1	3			2	8	8	6		4	1	36
2	1	2	7	5		1	4	4	4	2	1	3	34
3		8	10	1			6	7	2				35
4	4	13	21	4			3	3	7	1			56
5	1	7	2	4					1				15
6		1	6	2				1		2			12
7				4									4
≥ 8													4
Totals	9	32	49	20		3	21	23	20	5	6	4	192

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TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	3	3	6	1	3	3	4	6	1	1	1	35
2	1	5	7	4		1	3	9	3				34
3		5	4	2		1	8	7	3				30
4	5	8	15	2			1		2				33
5	3	6	10	4									24
6	1	1	5	10								1	17
7			2	4									6
≥ 8			1	2									3
Totals	13	28	47	34	1	5	15	20	14	1	1	3	182

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# Frequency Tables XI to XIV for Horseshoe Island, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		4	3	3			4	8	6	2	1		31
2	2	5	2	3			5	4	4				25
3	1	3	9	4		1	1	3					22
4	1	12	13	7		1	1	2					37
5	1	7	8	4				2	2				24
6		1	1	5				1					8
7		1	1	3									5
≥ 8			1	11									12
Totals	5	33	38	40		2	11	20	12	2	1		164

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TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		3	2	1	1	2	3	3	5	1			21
2	1	3	3	2		2	3	3	1				18
3		2	10	1				5	1				19
4		7	8	2			1	4	2				24
5		6	8	7				1	1				23
6		5	6	6			1		1				19
7		2	2	7									11
≥ 8			2	6									8
Totals	1	28	41	32	1	4	8	16	11	1			143

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TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	3	3	2	1	2	2	5	1	3	1	2	28
2	1	6	2			1		2	1		2		15
3	1	3	4						2				10
4	2	10	10	2			1	2	1	2	1		31
5	5	12	9	2			3						31
6	1	8	5						1				15
7		1	2						1	2			6
≥ 8		1	3										4
Totals	13	44	38	6	1	3	6	9	7	7	4	2	140

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TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	2		1		4	10	2	2			24
2	2	4	1	2			3	6	4		2		24
3	2	5	7				5	4	2	1			26
4		7	12	2			3	4					28
5	2	9	9	3				5	1				29
6	1	7	10	1									19
7		1	7	2									10
≥ 8			1	9						1			11
Totals	8	35	49	19	1		15	29	9	4	2		171

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# Frequency Tables XV to XVIII for Horseshoe Island, Grahamland, 1958.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	5	3	1	2		4	3	4		2	1	27
2	1	2	5	1		3		3	2		2		19
3		8	7	3			1	9	3				31
4		11	20	2			6	5	7				51
5	2	11	7	1					1	1		1	24
6	1	5	5	3			1			1			16
7		3	4	6									13
≥ 8				5									5
Totals	6	45	51	22	2	3	12	20	17	2	4	2	186

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TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1	6	5				4	5	1				22
2	1	10	12	2				2	1				28
3		23	27	1			2	1	1				55
4	4	27	17	2									50
5	1	12	21	5									39
6	2	5	6	5									18
7	1		1	9									11
≥ 8				3									3
Totals	10	83	89	27			6	8	3				226

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TABLE XVI — OCTOBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		9		1			5	7	2	1	1		26
2		4	1	2			3	3	5				18
3	7	13	16	1			2	4	4	2	1		50
4	3	35	20	4					3				65
5		10	6	3									19
6		7	6	6									19
7	1		4	2									7
≥ 8			1	1									2
Totals	11	78	54	20			10	14	14	3	2		206

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TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	3	7	5	2			3	9	6	3	2	1	41
2	4	5	5	1			1	4	6	1	1	1	29
3	1	4	9	1			4	2	6	1			28
4	1	15	10	2					8	5			41
5		6	8	8						4			26
6		3	4	10						3			20
7			1	5						1			7
≥ 8													
Totals	9	40	42	29			8	15	26	18	3	2	192

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Frequency Table XIX for Horseshoe Island, Grahamland, 1958.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to	to	to	to	to	to	to	to	to	to	to	to	
	10	40	70	100	130	160	190	220	250	280	310	340	
1	22	43	32	18	6	10	43	67	47	14	13	10	325
2	17	56	56	22	1	8	27	58	48	8	10	5	316
3	17	97	128	18		2	33	54	39	5	2	2	397
4	25	173	184	40		2	16	23	31	8	1		503
5	20	88	104	55			3	8	6	5		2	291
6	7	44	70	73			2	2	2	6			206
7	3	8	28	72					1	3			115
= > 8		2	12	43						1			58
Totals	111	511	614	341	7	22	124	212	174	50	26	19	2211

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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

ANNUAL REPORT

*for the year*

1959

*Presented to the Governor*

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FALKLAND ISLANDS AND DEPENDENCIES METEOROLOGICAL SERVICE

ANNUAL REPORT

for the year

1959

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# ANNUAL REPORT ON THE FALKLAND ISLANDS AND DEPENDENCIES

## METEOROLOGICAL SERVICE FOR 1959

### 1. Introduction

The Meteorological Service is the official Service of the Falkland Islands and Dependencies. It is constituted as an integral part of the Falkland Islands Dependencies Survey (F.I.D.S.) because most of its stations are in the Antarctic Dependencies, but also includes the forecasting stations at Grytviken, South Georgia, and at Stanley, Falkland Islands. The Headquarters of the Service is at Stanley. In addition to the F.I.D.S. Service, limited observations were received from two stations in the Falklands, and these were also supervised by Stanley. At the beginning of the year the Royal Society Base at Halley Bay was brought under the administrative control of the F.I.D.S.

The Chief Meteorological Officer is responsible to the Governor for the efficiency of the Service. The Director-General, Meteorological Office, Air Ministry, London, in agreement with the Colonial Office, is the controlling authority for the Headquarter's Meteorological Office at Stanley. He is also the controlling authority, through the Chief Meteorological Officer, of the Falkland stations and of the technical work of the meteorological staff at Dependencies' bases. The service is represented in the international field by the appropriate United Kingdom Department, but the Chief Meteorological Officer deals with routine matters such as the distribution of synoptic and climatic data. General policy is directed by the Governor after consultation, as required, with the Secretary of State for the Colonies.

The general functions of the Service are:-

- (i) Provision of forecasting services for the whaling fleets operating in the waters of the Falkland Islands and Dependencies, and for any aircraft in these areas.
- (ii) Provision of local forecasts in the Falkland Islands for the general public, shipping and the Government Air Service.
- (iii) Provision of surface and aviation forecasts, as required by "daughter" stations.
- (iv) The organisation of meteorological observations in the Falkland Islands and Dependencies, and the broadcasting of this information in the form of collective synoptic messages.
- (v) The collection and re-broadcasting of synoptic information from ships in the area.
- (vi) The collection and publication of climatic data.
- (vii) Limited investigations into the meteorology of the Falkland Islands and Dependencies area.

The cost of the Service is carried mainly on the Falkland Islands Dependencies budget with a contribution, for the Falkland stations, from the Colony. The estimates for the financial year 1959 - 1960 are shown in Appendix I; these figures cover technical services only, and exclude such items as food, clothing and transport, which are largely provided by the F.I.D.S. organisation.

## 2. Forecasting Services

(a) Stanley. - Local forecasts for the Falkland Islands were broadcast daily at 1515 and 2115 G.M.T. throughout the year for the benefit of farmers, shipping in nearby waters, and the general public. An additional forecast at 0130 G.M.T. was broadcast from the 1st January to the 14th March. Information was supplied, on request, to the Government Air Service, which operates within the Falkland Islands, and forecasts were issued to the following ships while operating south of the River Plate - R.R.S. "John Biscoe", R.R.S. "Shackleton", H.M.S. Protector, R.M.S. "Darwin", S.S. "Union Star", U.S.S. North Wind, S.S. "Conquistador", and S.S. "Southern Opal". The 1958 - 1959 pelagic whaling season ended in March, and the advertised forecast bulletins for ships operating south of 50° S., in the sector 70° to 40° W., were discontinued on the 14th. In the 1959 - 1960 whaling season, twice daily forecast bulletins for the same area commenced on the 1st December at 1500 and 2130 G.M.T. Full details of these bulletins, including bulletins issued from South Georgia, are contained in the "Weather Messages" pamphlet, issued in March 1957.

Forecasts were supplied to sledging bases during survey operations on request.

(b) South Georgia. - The advertised forecast bulletins for pelagic whaling vessels in the sector 40° to 10° W., south of 50° S., were issued until the 14th March. During the winter local area forecasts were issued by Stanley on request, in the absence of the local forecaster. For the 1959 - 1960 whaling season, broadcasts were introduced in stages during December, with the full programme of forecasts at 0215, 1515 and 2115 G.M.T. operative by the 28th.

Ships receiving individual forecasts during the year included the following:-

Conquistador, Southern Garden, Southern Harvester, R.R.S. ~~Shackleton~~ and H.M.S. Protector.

## 3. Reporting Stations

Full synoptic observations at 0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 and 2300 G.M.T. were made at Stanley, South Georgia, Signy Island, Admiralty Bay, Deception Island, Hope Bay, Argentine Islands, Horseshoe Island and Halley Bay. Pilot balloon ascents were made whenever possible.

The observations were made in the code forms FM 11.A, and pilots in form FM 32.A, as amended by the instructions for Regional Codes for Antarctica during the International Geophysical Year. The collection of observations was made in three radio schedules daily, (see Communications below).

Subsidiary stations were maintained in the Falkland Islands at Fox Bay and Darwin. Observations at these stations were made daily at 1200 G.M.T. The observer at West Point Island continued to report wind, weather and cloud at 1200 G.M.T. The reports were of a high standard and were very useful for briefing the local Air Service. Observations at Fox Bay and Darwin were taken with sufficient regularity to form the basis of monthly and annual climatological summaries. In addition, monthly rainfall returns were rendered by several farmers.

At Argentine Islands and Halley Bay the daily radio-sonde ascent was made at 1200 G.M.T. An extra daily ascent at 2400 G.M.T. was made during the World Meteorological Intervals of the International Geophysical Co-operation, dates being as follows: 16th April to 25th April, 15th July to 24th July and 18th October to 27th October.

#### 4. Ship Reports

(a) Vessels registered in the Falklands, visiting F.M. Ships and other ships operating in the area.

Full synoptic reports were received from R.M.S. "Darwin", R.R.S. "John Biscoe", R.R.S. "Shackleton", U.S.S. North Wind, U.S.S. Edisto, U.S.S. Glacier, S.S. "Conquistador" and S.S. "Southern Opal" when in the area; also from H.M. Ships and Fleet Auxiliaries when operating to and from the Falkland Islands. A number of reports were received via the Radio Station at Grytviken, from Tankers and supply vessels en route to or from South Georgia. All available reports were included in FICOL collective messages broadcast from Stanley. A number of messages were received during December either direct or via South Georgia, from factory whaling ships which were unable to contact South Africa.

(b) Whaling Vessels 1958 - 1959 season.

South Africa transmitted collective messages of whaling ship reports, at 0930 G.M.T. Reports from Tristan da Cunha and Gough Island were again included. A total of 921 reports was received from January to March, of which 194 were in the Stanley and South Georgia forecast areas, and about 10 more to the west of the Stanley area in the Bellingshausen Sea.

(c) Whaling Vessels 1959 - 1960 season.

The time of the South African transmission was unchanged, at 0930 G.M.T. During December 530 reports were received, of which 118 were in Stanley and South Georgia forecast areas, and 22 in the Bellingshausen Sea, west of 70°W.

#### 5. Communications

Details of collections and re-broadcasts of observations (FICOLS) are given in Appendix II. The following points may be noted.

In addition to the frequencies given in Appendix II, a third frequency was always maintained. At the beginning of the year contact ceased between Stanley and Little America. Shortly afterwards a routine was established with the U.S.A. base at McMurdo Sound. For this the third frequency was used and transmissions were beamed by Rhombic aerial.

From 1st January collection of the 2100 and 2300 G.M.T. reports was made together with the 0000 G.M.T. report. At 1200 G.M.T. reports for 0300, 0600, 0900 and 1200 G.M.T. were collected. The 1500 G.M.T. observations were collected with those for 1800 G.M.T.

The results of pilot balloon ascents were included, as available, as well as upper air soundings from Argentine Islands, Halley Bay and the Air Ministry Radio-Sonde Unit at Stanley.

Monthly CLIMAT messages were broadcast for all stations on each FICOL on the 4th and 5th of each month.

Observations from the Falklands Out-stations were collected throughout the year by the Government R/T Operator.

Communications with reporting stations were satisfactory whereas contacts with McMurdo Sound were less so. Information required by McMurdo Sound was occasionally relayed by Halley Bay.

The forecast bulletins issued at Stanley for the whaling fleets were sent on two frequencies simultaneously. At each broadcast (0200, 1500 and 2130 G.M.T.) in both 1958 - 1959 and 1959 - 1960 seasons, the primary transmission was on 9100 kc/s and the secondary on 7425 kc/s. The main transmission was made on a Marconi SWB 8 Minor generating about 1.5 kw. and the secondary on a Marconi TGS 541 of about 0.2 kw. output.

FICOL transmissions were made on a Marconi SWB 11Q transmitter generating about 8 kw. (Primary) and on a Marconi SWB 8 Minor of about 1.5 kw. (Secondary).

Due to the introduction of the increased power output on FICOLS, and in the light of past experience, frequencies were standardised with the assistance of the Radio Research Sub-Station, Stanley.

Little difficulty was experienced in communicating directly with the various research ships and supply vessels in the area, and it is assumed, therefore, that reception was satisfactory for whaling ships, although no reception reports were received from these vessels.

At South Georgia, issue of forecasts was undertaken by the Government W/T Station (ZBH), the transmissions at 1515 G.M.T. being made on the two frequencies, 8642 and 500 kc/s, and at 0215 and 2115 G.M.T. on 8642 kc/s only, the power out-put being 0.8 kw.

Both Stanley and South Georgia Meteorological Offices listened regularly to the Argentine (LSV) and Chilean (CCS) National Broadcasts. Reception of these broadcasts was only moderately satisfactory. On a few occasions it was also possible to listen to broadcasts from South Africa, Australia, New Zealand and Little America, but this listening was severely limited owing to pressure of traffic at the Radio Stations.

In addition to normal synoptic and administrative traffic, the W/T Section handled private letter telegrams for bases personnel with a maximum of 200 words per month free. A similar service of 100 words per month, per man, in the opposite direction was also maintained.

## 6. Climatological and other Reports

The usual climatological returns were made by the bases.

The Annual Meteorological Tables for 1958 were completed and printing was in hand at the end of the year.

The Daily Weather Report was issued throughout the year.

International Geophysical Year Form 1 was discontinued at the end of May, while Form 4 was completed throughout the year for all stations. Form 3 was completed at Argentine Islands. These records were sent to Air Ministry for onward transmission to the World Meteorological Organisation.

A new edition of "Instructions to Main Synoptic Stations" was issued.

A revised version of "Wireless Weather Messages" was prepared for printing.

A summary of rainfall returns for various places within the Falkland Islands was completed and duplicated copies were distributed to interested persons.

The Annual Report for 1958 was published.

### 7. Organisation

There were no changes in organisation.

At Stanley work on solar radiation continued, and at Argentine Islands and Halley Bay measurements of solar radiation, atmospheric ozone and terrestrial magnetism were made.

The Chief Meteorological Officer returned from visiting northern bases in January, and departed at the end of December on a visit to South Georgia and Halley Bay. A Radio Sonda Assistant visited Argentine Islands early in the year.

### 8. Staff

The Chief Meteorological Officer was on inter-tour leave from mid-April until early September. The forecaster at South Georgia was also on leave for a similar period. An additional forecaster arrived at Stanley in April and deputised for the Chief Meteorological Officer in his absence.

A new Senior Meteorological Assistant arrived at Stanley in May and a similar change was made at South Georgia in June.

At Stanley one new Assistant arrived in March, and two more in December. One assistant departed in November. At South Georgia one Assistant departed in March and the other in June. Replacements were not available until September.

Two Meteorological Assistants met with fatal accidents at Admiralty Bay, one in April, and one in July.

Other stations had full staff complements throughout the year.

A Radio Operator left Stanley in March and was replaced in September.

### 9. Instrumental Equipment

All supplies were handled by the Crown Agents for Oversea Governments and Administrations with the help and advice of the British Meteorological Office, from whom some of the equipment was purchased. There were no difficulties.

### 10. International Co-operation

Copies of the Daily Weather Report (see Climatological and other Records) were sent to the following Meteorological Services:-

Federal Germany, France, Uruguay, Argentina, Chile, Australia, New Zealand, Madagascar, United Kingdom, United States of America, Union of South Africa, Mozambique.



and also to

The Napier Shaw Library, Cambridge; Scott Polar Research Institute, Cambridge; Smithsonian Institute, Washington; Mr. Arnold Court, California; and Antarctic Institute, Buenos Aires.

122 copies of the 1958 Annual Report were distributed to Institutions and individuals all over the world.

A P P E N D I X I

Provision in Dependencies Estimates for Meteorological Services, July 1959 - June 1960

HEADQUARTERS

		£
Head 4A	Personal Emoluments .. ..	14,860
" 4B	Other Charges (Stores, Equipment, etc.) ..	3,235
" 4C	Special Expenditure (including publications)	1,900
	Total Headquarters Expenditure	£19, 995

SOUTH GEORGIA

Head 1A	Personal Emoluments (Meteorological Staff) ..	2,625
" 1B	Meteorological Equipment .. ..	200
	Total South Georgia Expenditure	£2,825

ANTARCTIC REPORTING STATIONS

Head 5A	Personal Emoluments (Meteorological Staff) ..	23,370
" 5B	Meteorological Equipment, etc. ..	12,000
" 5C	Special Expenditure .. ..	300
	Total Antarctic Bases Expenditure	£36,170
	Total Expenditure - F.I.D.S.	£58,990

Provision in Colony's Estimates for Meteorological Services, July 1959 - June 1960

Head VIII 1	Payment to part-time observers ..	100
" " 2	Contribution towards cost of Headquarters	500
" " 3-5	Stores, Equipment, etc. ..	165
	Total Expenditure - Colony	£ 765
	GROSS TOTAL .. ..	£59,755

A P P E N D I X II

1st January to 30th April and 1st October to 31st December

Time of Transmission G.M.T.	Contents (Times G.M.T.)	Transmission Frequencies	
		Main (kc/s)	Second (kc/s)
0100	2300 Synops, 0000 Temps	12300	9100
1300	0600 Synops, 1200 Synops	19800	9100
1900	1800 Synops, 1200 Temps	19800	9100

1st May to 30th September

0100	2300 Synops, 0000 Temps	12300	5100
1300	0600 Synops, 1200 Synops	19800	9100
1900	1800 Synops, 1200 Temps	12300	9100

In addition a third frequency of 12,300 kc/s or 14,800 kc/s was maintained. (See Sec. 5. para. 2.)

A P P E N D I X III

Staff List 1959

STANLEY

Chief Meteorological Officer	-	P.A. Canning
Forecasters	-	S.D. Glassey (from April) D.B.B. Powell (till May) B.A. Waudby
Senior Assistant	-	P.H. Hale (from May) R.A. Smith (till May)
Assistants	-	D.J.B. Bolt M.J. Byrne D. Calcraft (from December) B.D. Hayton (from December) A.F. Lewis G.W. Pugh (from March) J. Stephenson (till November) R.W. Woods
Senior Wireless Operator	-	L.C. Tyson
W/T Operators	-	F. Boyd (from September) G.B. Davis I. Joynor J. Nowing (till March) B. Pinnock
Apprentice W/T Operators	-	C.A. Lehen R. Summers (till April)
Clerks	-	D.M. Newing (Mrs) (till March) E. Reive (Miss)

SOUTH GEORGIA

Forecaster-in-Charge	-	D. Borland
Senior Meteorological Assistant	-	J. Ford (till June) T.A. Richards (from June)
Meteorological Assistants	-	A. Freer (till March) J. Cochran (till June) M.J. Reade (from September) D. O'Regan (from September)

BASES - WINTER STAFF ONLY

DECEPTION ISLAND

Base Leader/Met. Assistant	-	P.J. Hodgkinson
Senior Meteorological Assistant	-	I.T. Jackson
Meteorological Assistant	-	P.L. Woodall

HOPE BAY

Senior Meteorological Assistant	-	R.M. Koerner
Meteorological Assistants	-	M.D. Rhodes T.H.H. Richardson A. Gill J.D.J. Wildridge L. Maloney

ARGENTINE ISLANDS

Scientific Officer	-	C.N. Horton
Assistant Scientific Officer	-	H.E. Agger
Senior Meteorological Assistant	-	B.D. Giles
Meteorological Assistants	-	G.J. Roe
		J.M. Nantes
		C.M. Smith
		J.B. Shaw

ADMIRALTY BAY

Senior Meteorological Assistant	-	R.D. Thompson (from April)
Meteorological Assistants	-	D.R. Bell (deceased July)
		K.V. Gibson
		A. Sharman (deceased April)

SIGNY ISLAND

Base Leader/Met. Assistant	-	J.W. Stammers
Senior Meteorological Assistant	-	R.B. Harrison
Meteorological Assistant	-	J.W. Young

HORSESHOE ISLAND

Base Leader/Senior Met. Assistant	-	R.M. Perry
Meteorological Assistants	-	J.F. Franks
		J.M. Hunt

HALLEY BAY

Scientific Officer	-	M.J. Blackwell
Senior Meteorologist (Radio Sonde)	-	N.A. Hedderley
Senior Meteorologist (Synoptic)	-	D.W.S. Limbert
Meteorological Assistants	-	J.A. Smith
		G.M. Artz
		J. Bothra

FALKLAND ISLANDS OUTSTATIONS (Voluntary observers)

Darwin	-	D.M. Honeyman
Fox Bay	-	C. Maddocks
West Point Is.	-	H.M. Napier

A P P E N D I X IV

1. Daily Weather Report.
2. Annual Meteorological Report - 1958.



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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1959

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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1959

*Prepared in conjunction with  
The Meteorological Office, London.*

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Published for the British Antarctic Survey,  
Stanley, Falkland Islands, 1962.

## CONTENTS

STATION	NUMBER	POSITION		BAROMETER M.S.L. (ft.)	PAGES
		Latitude	Longitude		
Stanley, Falkland Islands	88890	51° 42' S.	57° 52' W.	173	1 - 46
Grytviken, South Georgia	88903	54° 16' S.	36° 30' W.	8	47 - 59
Signy I., South Orkneys	88925	60° 43' S.	45° 36' W.	23	60 - 71
Hope Bay, Grahamland	88940	63° 24' S.	56° 59' W.	170	72 - 83
Admiralty Bay, South Shetlands	88934	62° 03' S.	58° 24' W.	29	84 - 95
Deception I., South Shetlands	88938	62° 59' S.	60° 34' W.	26	96 - 107
Argentine Is., Grahamland	88952	65° 15' S.	64° 16' W.	36	108 - 142
Horseshoe I., Grahamland	88959	67° 48' S.	67° 19' W.	29	143 - 154



## *Introduction*

This series of Tables, which commenced with the data for 1951, is published annually to meet the demands from contemporary expeditions and various research organisations. The Tables published for surface and upper air data for 1957 have been retained in the same form in this issue.

Upper air ascents at Argentine Islands were done daily at 1200 G.M.T. At Stanley there were only 9 ascents in January and none in February. Additional ascents were done at 0000 G.M.T. on the following dates:

16th April to 25th April, 15th July to 24th July,  
and 18th October to 27th October.

At Argentine Islands, occasional special ascents were made to help with the Ozone programme. These have also been included.

The Station at Loubet Coast closed at the end of 1958.

At Argentine Islands, due to scarcity of upper wind reports, upper air tables X to XX were contracted and printed on one page (see page 131).

## Notes on the Tables

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### Surface Observations

1. For climatological purposes, the day is taken to be from 0001 to 2359 Zone Time. All Stations take observations every three hours at fixed G.M.T. synoptic hours 0001, 0300, 0600, 0900, 1200, 1500, 1800, 2100 but, for climatological purposes, these are recorded in Zone Time, which is G.M.T. -4 for all stations except Signy Island (G.M.T. -3) and Grytviiken (G.M.T. -2). Thus, at most stations, the first observation of the day is 0200 hours (0600 G.M.T.) but at Signy Island it is 0001 hours (0300 G.M.T.) and at Grytviiken 0100 hours (0300 G.M.T.).

Maximum, and minimum temperatures and rainfall are read twice daily, at the synoptic hours closest to 0900 and 2100 Zone Time (*i.e.* 1200 and 0001 G.M.T. for all stations), and the day, for these purposes, ends at midnight G.M.T.

Thus, the terms "day" and "daily" are used in the tables to imply 24 hours in one of the two senses defined above.

#### MEANS AND EXTREMES TABLES I AND II.

2. Daily means of pressure, temperature, relative humidity, cloud amount and wind speed are based on observations at all hours.

3. Extreme pressures are taken from observations at all hours.

#### FREQUENCY TABLE II.

4. Each column covers two Fahrenheit degrees *e.g.* the column headed 29 (positive) includes all observations from 28.0 to 29.9°F inclusive. Cases of 0.0°F or 0°F are entered alternately as 0+ and 0-.

#### FREQUENCY TABLE III.

5. In these relative humidity is calculated with respect to water at all temperatures.

#### FREQUENCY TABLE IV.

6. Visibility. The lower limit of each range is included but not the upper *e.g.* 2km. is included in the range 2-4km.

7. Cloud Heights. This is concerned primarily with lowest significant cloud (international definition) but clouds above 6000 metres are also included.

The lower limit of each height range is included, but not the upper, and the summary is in two sections - *All Amounts* and *7 - 8 oktas.* Middle cloud is occasionally observed at Antarctic stations, below 2400 metres; it is then counted as *low* cloud for the purposes of this summary.

#### FREQUENCY TABLE V.

8. Days of abnormal maximum and minimum temperatures. These entries are intended to pick out days of abnormally high or low temperature. A day of high minimum is a day when the temperature is continuously above the specified figure, and a day of low maximum when it is continuously below the specified figure, throughout the twenty-four hours. The limits for the various stations are as follows:—

	STANLEY	GRYTVIKEN	ALL OTHER STATIONS
High minima	> 50°F.	> 41°F.	> 32°F.
Low maxima	< 32°F.	< 23°F.	< 5°F.
Low minima	< 23°F.	< 14°F.	< -4°F.
High maxima	> 68°F.	> 59°F.	> 41°F.

9. A *day of wind speed* => *Beaufort force 6 (or 8)* is defined as a day on which the mean wind (not the extreme wind in gusts) reached or exceeded this figure at any of the eight hours of observation. All days of Force 8 are also contained in Force 6.

10. A *day of rain, snow, sleet, drizzle, showers, thunder, fog or hail* is a day on which an occurrence was observed at the station, at any time of the day. Ice needles are counted as snow.

11. A *day of cloudy* is a day on which the total amount of cloud for the 1200, 1800 and midnight G.M.T. observations added together equals or exceeds 20 oktas.

A *day of clear* is a day on which the total cloud amount for the 1200, 1800 and midnight G.M.T. observations added together is equal to or less than 4 oktas.

12. A *day of snow lying* is a day on which, at 1200 G.M.T., half or more of the ground in the vicinity of the station is covered with snow. This is recorded at Stanley and Grytviiken only.

13. A *day of ground frost* is a day when the night time grass minimum temperature (read at 1200 G.M.T.) is  $30.4^{\circ}\text{F}$ . or less. This is recorded at Stanley only.

14. A *day of drift* is a day when drifting snow occurs at any time of that day, regardless of the intensity or height of the drift.

15. A day with showers is entered under the shower column and also under the appropriate hydrometeor (*i.e.* rain, snow, sleet or hail).

16. Fog is recorded whenever the visibility is less than 1100 yards from any cause whatsoever. Days of fog are subdivided into either 'true' fog, which is fog caused primarily by water droplets or ice particles in suspension; or 'pseudo' fog, which includes all other occasions of visibility less than 1100 yards. 'True' fog is selected in preference to 'pseudo' fog. Not more than one entry is made for any one day.

17. Hail is subdivided into :—

Soft Hail and Granular Snow *i.e.* crisp, easily compressible, white, opaque grains.

Small Hail and Ice Pellets *i.e.* hard transparent ice grains.

'Real' Hail *i.e.* grains with a recognisable multi-layered structure having at least one layer resembling granular snow and one layer resembling ice pellets.

Where more than one type occurs on the same day, selection is made in the following order of preference : 'Real' hail. 'Small' hail. 'Soft' hail. Not more than one entry is made for any one day.

18. Days of freezing rain and drizzle and days of ice crystal fog are included in the main entries under these columns.

## Upper Air Observations

### STANLEY.

19. The observations are made by an Upper Air Unit of the Meteorological Office, Air Ministry, London. The British radio-sonde system is used, in which pressure, temperature and relative humidity are measured by variable audio-frequency modulation of a carrier signal of constant frequency. The sonde in use is known as the Kew Mk. II. B.

20. The wind measurements are made by means of an Army (G.L. III) radar set, modified for use by the Meteorological Office. This set tracks a reflector attached to the radio-sonde balloon and gives its position in terms of range, azimuth and elevation at fixed intervals of time (normally 1 minute), the time scale being common to radar and radio-sonde. The maximum range of the equipment in its present modified form is 96,000 yards.

21. Observations were made daily for 0800 Zone Time (1200 G.M.T.), the time of release normally being 0700 Zone Time (1100 G.M.T.). For details of ascents missed and extra ascents made (see Introduction). Almost all ascents were done within a few minutes of these times, but operational difficulties (such as strong winds) occasionally delayed release for periods up to about an hour. On a few occasions the delay was even longer, but in no case did it exceed 3 hours.

22. In the original extractions heights above Mean Sea Level were entered in geopotential metres at levels up to 400 mb. and in tens of geopotential metres at 300 mb. and above. The means printed in the tables are based on these figures. The frequency tables for levels up to 800 mb. show heights grouped in 15 metre ranges, while those for 700 mb. and above are in 30 metre ranges.

### ARGENTINE ISLANDS.

23. Here the sonde in use is also the Kew Mk. II. B. but there is no radar set. Balloons are followed by theodolite.

### MEANS AND EXTREMES TABLE I and II.

24. The Tables show the number of observations on which means etc., are based. All ascents used in the tables reach 200 mb. and humidity data (which are shown with respect to water at all temperatures) are available on all occasions up to 500 mb. unless otherwise noted. Owing to the inaccuracy of the humidity element at low temperatures, values of humidity are not reported if the temperature falls below  $-40^{\circ}\text{C}$ . For this reason no means of dew point are given in the summaries for levels of 300 mb. and above. They are quoted for 400 mb., where a comparison between the number of observations of air temperature and dew point gives an indication of the degree of validity of the dew point means at that level.

25. The tables show the mean pressure and temperature at the tropopause for each month in the year. The definitions for determining the tropopause are those in use in the Meteorological Office, Air Ministry, London. It is not within the scope of these notes to give all possible definitions but, in general, the tropopause is the height of the lowest point at which the lapse rate becomes  $2^{\circ}\text{C}/\text{Km}$ . or less. Where more than one tropopause was reported, the lowest has been used.

### UPPER AIR FREQUENCY TABLES I to VI.

26. In the Tables each column covers three Celsius degrees e.g. the column headed 3 to 5 includes all observations from  $3.0$  to  $5.9^{\circ}\text{C}$ . inclusive.  $0^{\circ}\text{C}$ . has been entered alternately as  $0+$  and  $0-$ .

Means and Extremes Table I for Stanley, Falkland Islands, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	999.5	1016.8	4th	971.6	22nd	43.8	44.6	48.1	51.6	51.3	48.9	45.8	44.4	47.3	55.5	40.7	67	11th	34	10th
February	996.7	1020.1	18th	978.6	13th	43.4	44.2	47.3	51.3	50.8	48.5	44.9	43.1	46.7	54.2	39.7	71	22nd	32	7th, 10th
March	1002.9	1020.8	10th	980.1	6th	44.1	43.6	46.5	50.7	51.8	48.8	45.1	44.0	46.8	54.4	40.3	<u>72</u>	<u>21st</u>	34	8th
April	1001.8	1023.7	15th	<u>968.4</u>	<u>1st</u>	36.8	36.5	37.8	41.1	41.5	39.0	37.7	36.9	38.4	44.1	33.9	55	11th	27	29th
May	1001.0	1032.7	11th	977.3	6th	35.9	35.9	36.4	39.4	39.7	37.0	36.3	36.0	37.1	41.5	31.9	48	5th	24	8th
June	1009.1	1027.8	27th	987.2	1st	35.9	35.9	35.9	37.0	37.6	36.3	36.2	36.3	36.4	39.6	32.9	46	29th	24	7th
July	1006.7	1030.4	27th	977.2	8th	33.3	32.7	33.0	35.4	35.9	34.4	33.8	33.5	34.0	37.7	30.0	45	31st	<u>23</u>	<u>28th</u>
August	1000.8	1026.9	17th, 18th	977.1	11th	33.3	33.1	33.7	36.4	37.3	35.3	34.2	34.0	34.7	39.4	30.6	48	31st	<u>23</u>	<u>15th, 25th</u>
September	1003.5	1026.7	12th	983.4	4th	35.3	35.8	38.0	41.1	41.7	38.8	36.4	35.8	37.9	43.1	33.1	51	21,23, 28,29	27	2nd, 5th
October	1008.7	<u>1033.0</u>	<u>11th</u>	988.8	2nd	37.4	36.7	40.7	44.0	43.7	41.4	38.7	37.9	40.1	46.4	34.9	56	30th	29	7th, 14th
November	999.0	1017.3	21st	969.9	28th	39.1	40.1	45.2	47.4	48.0	46.1	41.2	39.7	43.3	51.9	36.2	59	7,8,13, 16,26	29	21, 22, 23
December	1002.6	1021.1	9th	977.1	22nd	41.8	43.6	48.3	51.6	50.8	49.0	44.4	42.5	46.5	55.3	39.6	67	13th	32	24th
Total	12032.3	12297.3	—	11736.7	—	460.1	462.7	490.9	527.0	530.1	503.5	474.7	464.1	489.2	563.1	423.8	685	—	338	—
Mean	1002.7	1024.8	—	978.1	—	38.3	38.6	40.9	43.9	44.2	42.0	39.6	38.7	40.8	46.9	35.3	57.1	—	28.2	—

Means and Extremes Table II for Stanley, Falkland Islands, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE			RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000		2300	REC.					EST.
January	89	89	82	72	74	78	85	88	82	6.3	6.4	6.7	6.4	6.9	6.5	6.5	5.9	6.5	6.2		16.1	73.1	17.1	6th
February	91	91	82	69	70	73	82	90	81	5.9	7.3	6.7	6.5	6.5	6.1	5.7	5.0	6.2	5.4		14.5	66.0	14.4	10th
March	91	93	85	72	67	74	85	89	82	5.5	5.9	6.3	6.1	6.1	5.5	5.0	5.0	5.7	5.7		12.5	72.6	<u>27.1</u>	<u>31st</u>
April	90	90	88	82	80	87	87	91	87	5.7	5.9	6.3	6.6	6.5	6.1	5.9	5.4	6.1	3.4		10.5	57.8	13.3	10th
May	91	91	90	83	80	87	90	90	88	5.0	5.4	6.3	5.6	5.7	5.3	5.0	5.3	5.5	3.5		8.8	31.6	5.3	13th
June	92	92	91	90	88	91	93	92	91	6.2	6.6	6.9	6.8	6.5	5.9	6.1	6.7	6.5	1.7		7.9	50.1	15.9	10th
July	88	90	88	87	85	90	92	90	89	5.9	5.0	6.2	5.7	6.3	6.2	5.3	5.1	5.7	2.5		8.3	25.9	4.7	8th
August	90	91	89	84	80	85	87	89	87	5.0	5.3	6.7	6.6	6.4	6.3	5.5	5.3	5.9	3.0		9.7	47.8	10.2	9th
September	87	88	84	77	74	81	88	89	83	5.0	6.0	6.5	6.6	6.1	6.1	5.2	5.3	5.9	2.8		11.7	35.4	8.3	4th
October	87	87	77	67	69	76	85	87	79	5.9	5.7	6.0	5.7	6.3	6.0	6.1	6.3	6.0	5.4		13.7	20.2	6.8	16th
November	93	91	81	76	74	78	90	93	85	5.2	5.8	5.7	6.3	6.3	5.6	5.3	4.9	5.6	7.5		15.6	33.7	9.7	10th
December	87	86	76	68	68	69	81	85	77	5.9	6.0	5.8	5.4	5.7	5.6	5.6	5.5	5.7	8.2		16.6	52.0	13.3	31st
Total	1076	1079	1013	927	909	969	1045	1073	1011	67.5	71.3	76.1	74.3	75.3	71.2	67.2	65.7	71.3	55.3		145.9	566.2	146.1	
Mean	90	90	84	77	76	81	87	89	84	5.6	5.9	6.3	6.2	6.3	5.9	5.6	5.5	5.9	4.6		12.2	47.2	12.2	

Frequency Table I for Stanley, Falkland Islands, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0	1040.0	1045.0	1050.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9	1044.9	1049.9	1054.9
January					5	3	6	22	34	50	61	28	31	8							
February						1	10	46	46	47	46	7	7	12	2						
March							5	14	34	44	50	39	38	18	6						
April				2	3	1	13	14	39	30	46	24	39	14	15						
May						3	11	21	50	51	47	26	9	4	7	9	10				
June								2	4	16	48	67	53	36	8	6					
July						3	5	4	16	36	45	35	59	19	15	9	2				
August						13	22	19	15	45	45	27	26	18	13	5					
September							4	14	19	39	64	54	26	9	6	5					
October								3	24	28	32	37	59	41	12	8	4				
November				1	4	18	11	16	15	38	49	60	23	5							
December						7	4	12	27	47	62	32	24	26	7						
Year				3	12	49	91	187	323	471	595	436	394	210	91	42	16				



Frequency Table III for Stanley, Falkland Islands, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January						1	2	5	5	7	5	19	23	28	24	39	47	25	18
February				1	2	1	2	7	2	7	13	15	20	13	27	30	34	31	19
March							2	6	9	8	5	15	19	27	24	41	44	28	20
April										1	5	8	12	29	32	46	51	39	17
May										2	6	8	12	19	23	55	59	41	23
June										5	2	7	6	6	18	25	64	52	55
July										1	4	6	6	20	27	52	54	54	24
August										3	3	13	15	20	26	53	65	31	19
September								5	1	9	9	11	18	25	24	50	40	29	19
October					2	5	2	1	6	9	16	23	21	26	23	40	32	27	15
November								1	3	6	8	19	14	27	20	38	45	45	14
December						3		9	5	13	18	22	26	24	41	34	23	24	6
Total				1	4	10	8	34	31	71	94	166	192	264	309	503	558	426	249
Mean				—	—	1	1	3	3	6	8	14	16	22	26	42	47	35	21



# Frequency Table IV for Stanley, Falkland Islands, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	>40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0	30	60	120	300	600	1200	2400	=	0	30	60	120	300		600	1200	2400	=
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	>	to 30	to 60	to 120	to 300	to 600		to 1200	to 2400	to 6000	>
January	1		1	3	3	7	17	22	63	131	27	62	43	67	44	5	5	4	14	30	41	116	11	23	4	5	3	6	12	9	17	5	7	1	
February						2	25	29	45	123	40	41	38	73	32		1		3	22	51	94	13	32	3	1		2	9	9	15	4	8		5
March		1		6	4	10	18	43	43	123	55	57	36	51	44	5	6	4	20	32	42	79	10	33	18	6	2	9	7	8	9	6	3	6	4
April				3	4	3	23	21	47	139	16	37	43	110	33	1	2	4	5	24	80	100	9	9		2	3	4	12	18	16	3	2		7
May			3	3		5	16	28	70	123	31	55	53	63	42	4	4	3	9	33	99	65	4	18	2	4	2	4	10	22	13	3	2		11
June		7	5	10	6	1	47	41	56	67	20	29	33	69	73	16	17	9	16	64	56	47	11	12	5	17	7	9	20	19	16	9	1		3
July		4	3	2	11	4	29	30	51	114	25	48	35	88	45	7	8	4	6	51	57	84	13	17	2	7	2	5	21	23	25	2	4		6
August		4		5	5	10	37	47	65	75	24	54	47	71	49	3	3	8	4	49	67	85	8	17	1	3	6	3	23	15	19	3	7		6
September		4	1		3	6	26	42	44	114	43	41	36	50	65	5	5	2	11	30	49	92	8	24	3	5	2	8	11	14	29	4	2		16
October		1		4	4	9	11	34	51	134	41	41	31	75	55	5	5	6	6	31	38	106	15	25	9	5	5	4	11	13	31	5		3	7
November					4	1	18	19	42	156	47	54	58	67	14		5		1	11	41	129	6	36	7	4		1	2	9	12	1	4	1	4
December				1			7	28	31	181	52	72	50	56	17	1	1		3	21	47	107	17	47	4	1		2	8	7	8	7	14	1	1
Total	1	21	13	37	44	58	274	384	608	1480	421	591	503	840	513	52	62	44	98	398	668	1104	125	293	58	60	32	57	146	166	210	52	54	12	70
Mean	-	2	1	3	4	5	23	32	51	123	35	40	42	70	43	4	5	4	8	33	56	92	10	24	5	5	3	5	12	14	17	4	5	1	6

Frequency Table V for Stanley, Falkland Islands, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	10.&18	10	10	10.&18	10	11	11	12	13	14	10.&15	10.&10 FOG		10.&17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm =	>1.0 mm =	>10.0 mm =	WIND FORCE = ^	WIND FORCE = ^	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>50°F	<32°F	<23°F	>68°F																					
January					23	18	1	23	3	20		1	12	2	25			2		16	4		1	2	2
February				1	21	13	2	21	3	18	4	8	6		19		2	3		17			1	3	4
March				1	17	10	3	21		13		3	11		13			5		9	6		1	2	4
April					23	14	1	17	6	10	9	11	6		15		3	20		22	1	4		4	4
May					24	9		21	2	20	10	8	11		12	1	12	19	4	18	3	3	6	3	2
June		2			22	8	1	20	3	16	9	8	18		19		10	13	2	16	14	1	1	3	1
July					23	8		18	6	14	10	5	17		15	1	9	22	1	14	8	3		4	6
August				2	23	9	1	24	8	19	12	8	12		18		9	25	5	19	4	3	1	4	2
September					19	7		21	9	17	4	9	11		14	1	7	17		12	3		1	1	1
October					12	4		23	7	20	3	7	9		18	1		12		12	4		1		1
November					17	8		26	6	24	2	12	3		9		1	12	1	17		1	4	4	5
December					18	12	1	24	8	22	1	4	4		14	1		8		17	1		2	4	1
Total		4		2	242	120	10	259	61	213	64	84	120	2	191	5	53	158	13	189	48	15	19	34	33
Mean		-		-	20	10	1	22	5	18	5	7	10	-	16	-	4	13	1	16	4	1	2	3	3

Frequency Table VI for Stanley, Falkland Islands, 1959.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
		KNOTS	<i>S</i> or <i>more</i>	<i>6</i> <i>to</i> <i>7</i>	<i>4</i> <i>to</i> <i>5</i>	<i>1</i> <i>to</i> <i>3</i>	CALM	<i>350</i> <i>to</i> <i>10</i>	<i>20</i> <i>to</i> <i>40</i>	<i>50</i> <i>to</i> <i>70</i>	<i>80</i> <i>to</i> <i>100</i>	<i>110</i> <i>to</i> <i>130</i>	<i>140</i> <i>to</i> <i>160</i>	<i>170</i> <i>to</i> <i>190</i>	<i>200</i> <i>to</i> <i>220</i>	<i>230</i> <i>to</i> <i>250</i>	<i>260</i> <i>to</i> <i>280</i>	<i>290</i> <i>to</i> <i>310</i>	<i>320</i> <i>to</i> <i>340</i>
January	16.7		7	66	106	65	4	3	4	5	3	10	5	11	54	33	35	47	34
February	17.7	6	55	109	53	1	9	1	2		1	3	12	30	30	50	45	40	
March	15.8		65	118	64	1	24	11	3	4	3	4	8	24	28	31	52	55	
April	17.1	17	46	115	58	4	16		3	3	1	2	13	43	32	45	50	28	
May	17.5	2	65	144	35	2	20	5	2	1	1		3	18	22	52	70	52	
June	17.8	7	55	154	19	5	26	18	3	1	6	7	21	21	29	23	43	37	
July	17.0	12	52	125	55	4	14	3	2	7	6	6	5	27	39	34	60	41	
August	19.5	16	74	120	37	1	33	12	5	1	1	6	15	24	23	29	55	43	
September	19.7	14	76	120	26	4	13	1	9	17	9	7	14	19	23	28	31	65	
October	18.9	12	70	130	35	1	6	3	19	14	8	2	22	28	27	29	38	51	
November	21.2	13	101	107	18	1	2	3	1				11	39	45	38	64	36	
December	19.1	11	92	99	45	1	19	3	4		2	3	15	46	44	32	42	37	
Total	218.0	117	817	1447	510	29	185	64	58	51	48	45	150	373	375	426	597	519	
Mean	18.2	10	68	121	43	2	15	5	5	4	4	4	13	31	31	35	60	43	

# Frequency Tables VII to X for Stanley, Falkland Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	1				1	1	1	1	1	1	8
2					3		1	3	1		2	3	13
3			2	3	6	4	2	4	5	3	10	3	44
4	1		2		1		2	4	2	10	21	6	49
5	1					1	3	11	10	14	10	7	57
6		1					1	13	9	7	3	10	44
7	1						1	12	4			4	22
≥ 8								6	1				7
Totals	3	4	5	3	10	5	11	54	33	35	47	34	244

CALMS - 4

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1				1	1	1	2		1	7
2	2	1								1	2	2	8
3	2						2	2	4	6	15	7	38
4	4		1					7	6	13	13	10	54
5	1				1	1	3	7	10	11	8	13	55
6						2	3	6	4	11	5	7	38
7							3	4	3	5	2		17
≥ 8								3	2	1			6
Totals	9	1	2		1	3	12	30	30	50	45	40	223

CALMS - 1

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1			1	1	1	1	2		1	1	1	10
2		2		1		1		1	2		1	1	9
3	4	5					1	4	4	7	13	7	45
4	3		2	1			1	3	9	12	19	15	65
5	12	3		1	1		1	3	8	4	11	9	53
6	4	1					4	7	4	5	6	19	50
7			1		1	2		4	1	2	1	3	15
≥ 8													
Totals	24	11	3	4	3	4	8	24	28	31	52	55	247

CALMS - 1

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		1				2		2				6
2	1		1								3	2	7
3	2					1	2	3	5	5	10	8	45
4	4		1				2	12	7	15	17	4	62
5	3			1		1	2	6	14	15	7	4	53
6	3						2	8	2	8	3	7	33
7	1			2			2	3	1	1	1	2	13
≥ 8	1					1	1	11	1	1		1	17
Totals	16		3	3	1	2	13	43	32	45	50	28	236

CALMS - 4

# Frequency Tables XI to XIV for Stanley, Falkland Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1											1		1
2											1		1
3					1						1	1	2
4	7			1					5	13	13		32
5	9	1	2				1	3	8	10	31	11	72
6	4						2	2	8	17	20	11	72
7		4						7	5	14	3	12	45
≥ 8								1	1	6	1	3	20
												1	2
Totals	20	5	2	1	1		3	18	22	52	70	52	246

CALMS - 2

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1			1								3
2					1			1				3	5
3	1				1			1	3		3	2	11
4	10	2			2	2	5	2	4	11	21	16	75
5	8	8	1	1	1	5	8	7	12	6	14	8	79
6	4	4	2				7	3	8	5	2	9	44
7	2	2					1	2	2	1		1	11
≥ 8	1	1						5					7
Totals	26	18	3	1	6	7	21	21	29	23	43	37	235

CALMS - 5

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	1	1			1	1			1	1	7
2				1							3		4
3		1		3	1	2	1	1	5	5	16	9	44
4	4	1	1	2	4	4	1	1	4	13	19	9	63
5	7				1		1	3	12	7	15	16	62
6	3						1	7	7	7	6	6	37
7								7	6	2			15
≥ 8								7	5				12
Totals	14	3	2	7	6	6	5	27	39	34	60	41	244

CALMS - 4

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1													
2		1					1			1		2	5
3	8				1		4	1	4	1	5	8	32
4	6				1		1	2	6	9	25	10	60
5	3	3	3					3	9	10	20	9	60
6	5	3	2			1	4	6	3	5	3	7	39
7	5	4				1	7	6		3	2	7	35
≥ 8	6	1					2	6	1				16
Totals	33	12	5	1	1	6	15	24	23	29	55	43	247

CALMS - 1

# Frequency Tables XV to XVIII for Stanley, Falkland Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1								1	2
2				1				1		1	1	1	5
3			1	3	1	2	2	1	2		5	2	19
4	1			6	6	1	3	5	6	4	11	8	51
5	3		7	6	1	2	3	2	6	8	9	22	69
6	3	1	1	1		2	1	4	6	10	1	15	45
7	3						3	4	2	4	3	12	31
≥ 8	3						2	2	1	1	1	4	14
Totals	13	1	9	17	9	7	14	19	23	28	31	65	236

CALMS - 4

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1									2
2	1								3		1		5
3		1	6	3	2	1	4	1	1	3	4	2	28
4	2	1	8	6	1	1	3	5	4	8	16	9	64
5	2	1	2	4	4		4	12	4	12	8	13	66
6	1		2		1		5	5	5	4	8	7	38
7			1				4	5	7	1	1	13	32
≥ 8							2		3	1		6	12
Totals	6	3	19	14	8	2	22	28	27	29	38	51	247

CALMS - 1

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1										1	2
2								2			1		3
3		1					1	1		2	8		13
4	1		1					9	3	8	15	7	44
5		1					3	10	9	11	17	12	63
6							3	5	17	9	15	8	57
7	1						4	9	9	6	7	8	44
≥ 8							3	7	2	1			13
Totals	2	3	1				11	39	45	38	64	36	239

CALMS - 1

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1							1	1	1	4
2	1		1				3		1	1	1	6	14
3	2		1		2	1	2	4	3	1	6	5	27
4	2	3				1	1	9	9	6	17	9	57
5			1					13	8	5	8	7	42
6	5					1	4	11	11	11	5	5	53
7	7						4	6	9	6	4	3	39
≥ 8	2						1	3	3	1		1	11
Totals	19	3	4		2	3	15	46	44	32	42	37	247

CALMS - 1

Frequency Table XIX for Stanley, Falkland Islands, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	4	5	3	3	1	6	5	4	5	5	9	52
2	5	4	2	3	4	1	5	8	7	4	19	18	80
3	19	10	10	13	15	14	17	23	36	38	117	66	378
4	45	7	16	16	15	9	20	62	68	119	225	114	716
5	49	17	16	13	9	10	30	79	110	120	147	131	731
6	32	10	7	1	1	6	35	82	81	96	60	112	523
7	20	10	2	2	1	3	29	67	45	37	22	56	294
= > 8	13	2				1	8	47	24	7	2	13	117
Totals	185	64	58	51	48	45	150	373	375	426	597	519	2891

CALMS 29.

Frequency Table XX for Stanley, Falkland Islands, 1959.

MONTH	RAINFALL (mms.) : Number of days of <sup>1</sup>																																							
	Nil	Trace	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Nil - 0.9	1.0 - 1.9	2.0 - 2.9	3.0 - 3.9	4.0 - 4.9	5.0 - 5.9	6.0 - 6.9	7.0 - 7.9	8.0 - 8.9	9.0 - 9.9	Nil - 9.9	10.0 - 14.9	15.0 - 19.9	20.0 - 24.9	25.0 - 29.9	30.0 - 34.9	35.0 - 39.9	40.0 - 44.9	45.0 - 49.9	50.0 - 54.9	55.0 - 59.9	60.0 - 64.9	65.0 - 69.9	70.0 - 74.9	75.0 - 79.9	< = 80.0			
January	3	5		1	1	1					2	13	8	4	1	1			1	2		30		1																
February	4	3	2	1	1	1	1	1	1			15	2	2	3	2	1			1		26	2																	
March	5	9	2	1	1						3	21	1	2		2		1	1		28	2			1															
April	2	5	2	1	1			2	1	2		16	5	3	1	1	1	1	1		29	1																		
May	3	4	2	3	2		2	1	3	1	1	22	3	2	2	1	1				31																			
June	2	6	4	3	1	2		2	2			22	2		3				1		29		1																	
July	4	4	2	1	1	5	1	2	2		1	23	4	1	2	1					31																			
August	2	6	2	5	3	1		1	1	1		22	3	1		2			1		30	1																		
September	5	6	2	3		2	1	1	1	1	1	23	2	1			2	1		1	30																			
October	5	14	1	2	1			1	1		2	27	1	2				1			31																			
November	3	10	2	1	1		1	2		2		22	4	1		1			1		30																			
December	8	5	2		2	1					1	19	1	5	2		2		1		30	1																		
Year	46	77	23	22	15	13	6	13	12	12	6	245	36	24	14	11	7	4	7	4	3	355	7	2		1														



Upper Air Means Table I for Stanley, Falkland Islands, 1959.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for all ascents :—																						
	SURFACE		900 mb.		850 mb.		800 mb.		700 mb.		600 mb.		500 mb.		400 mb.		300 mb.	200 mb.	150 mb.	100 mb.	MEAN TROPOPAUSE		
	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Air	Air	Air	Press. mb.	Height	Temp.
January	<sup>9</sup> 8.2	<sup>9</sup> 6.6	<sup>9</sup> 3.6	<sup>9</sup> 1.4	<sup>9</sup> 1.3	<sup>9</sup> -1.8	<sup>9</sup> -0.4	<sup>9</sup> -5.8	<sup>9</sup> -6.3	<sup>9</sup> -12.6	<sup>9</sup> -13.8	<sup>9</sup> -21.7	<sup>9</sup> -22.9	<sup>9</sup> -31.2	<sup>9</sup> -34.2	<sup>9</sup> -40.3	<sup>9</sup> -46.1	<sup>9</sup> -49.8	<sup>8</sup> -50.3	<sup>8</sup> -51.6	<sup>8</sup> 272	<sup>8</sup> 9700	<sup>8</sup> -52.7
*February																							
March	7.5	5.8	5.0	0.0	2.3	-3.5	-0.4	-6.7	-6.5	-14.5	-13.6	-22.3	-22.9	-30.6	-34.4	<sup>27</sup> -40.4	-48.0	-53.2	<sup>20</sup> -52.3	<sup>26</sup> -54.0	249	9980	-57.3
April	<sup>40</sup> 3.0	<sup>40</sup> 1.8	<sup>40</sup> -1.4	<sup>40</sup> -3.5	<sup>40</sup> -3.6	<sup>40</sup> -6.8	<sup>40</sup> -6.4	<sup>40</sup> -14.0	<sup>40</sup> -12.0	<sup>40</sup> -17.8	<sup>40</sup> -19.7	<sup>40</sup> -25.8	<sup>40</sup> -29.2	<sup>39</sup> -35.3	<sup>40</sup> -41.4	<sup>17</sup> -43.3	<sup>40</sup> -53.1	<sup>40</sup> -53.7	<sup>40</sup> -53.1	<sup>33</sup> -55.1	<sup>40</sup> 278	<sup>40</sup> 9350	<sup>40</sup> -58.4
May	2.5	1.4	-1.1	-1.4	-3.6	-8.3	-6.2	-12.5	-12.8	-20.1	-20.9	-28.0	-30.1	-36.6	-41.1	<sup>15</sup> -45.1	-53.0	-57.3	-55.8	<sup>30</sup> -58.3	254	9890	-61.1
June	2.2	1.1	-1.4	-4.0	-3.3	-7.7	-6.0	-11.2	-11.5	-18.7	-18.9	-26.4	-28.3	-35.8	-39.7	<sup>21</sup> -44.1	-53.6	-59.0	-56.5	<sup>29</sup> -58.2	239	10300	-63.2
July	<sup>41</sup> 0.7	<sup>41</sup> -1.5	<sup>41</sup> -3.1	<sup>41</sup> -6.4	<sup>41</sup> -5.2	<sup>41</sup> -10.0	<sup>41</sup> -7.5	<sup>41</sup> -13.6	<sup>41</sup> -13.7	<sup>41</sup> -23.9	<sup>41</sup> -22.0	<sup>41</sup> -29.8	<sup>41</sup> -30.9	<sup>41</sup> -38.8	<sup>41</sup> -42.9	<sup>10</sup> -45.5	<sup>41</sup> -55.7	<sup>41</sup> -60.5	<sup>37</sup> -59.1	<sup>32</sup> -60.6	<sup>41</sup> 248	<sup>41</sup> 10000	<sup>41</sup> -63.2
August	0.7	-1.1	-3.2	-6.4	-5.8	-9.6	-7.8	-13.5	-14.5	-22.1	-22.4	-29.9	-31.8	-38.3	-43.8	<sup>10</sup> -45.6	-56.9	-60.8	-60.2	<sup>30</sup> -62.7	260	9610	-63.3
September	2.8	0.5	-1.1	-5.6	-3.6	-8.7	-6.2	-11.7	-12.6	-17.8	-20.1	-25.6	-29.4	-35.1	-40.7	<sup>15</sup> -42.1	-53.8	-60.6	-59.7	<sup>28</sup> -61.2	250	10000	-62.8
October	<sup>41</sup> 4.2	<sup>41</sup> 1.1	<sup>41</sup> -1.1	<sup>41</sup> -5.8	<sup>41</sup> -2.2	<sup>41</sup> -9.0	<sup>41</sup> -4.7	<sup>41</sup> -13.2	<sup>41</sup> -10.6	<sup>41</sup> -19.4	<sup>41</sup> -17.9	<sup>41</sup> -27.3	<sup>41</sup> -27.1	<sup>41</sup> -36.2	<sup>41</sup> -38.8	<sup>29</sup> -45.5	<sup>41</sup> -52.3	<sup>41</sup> -56.2	<sup>37</sup> -56.8	<sup>32</sup> -56.9	<sup>41</sup> 248	<sup>41</sup> 10200	<sup>41</sup> -60.6
November	6.8	3.6	0.6	-3.7	-2.3	-7.8	-5.5	-10.7	-10.9	-17.7	-18.4	-26.3	-27.7	-35.8	-38.1	<sup>20</sup> -43.1	-49.2	-55.1	-53.7	<sup>25</sup> -54.6	258	9920	-57.6
December	8.7	4.7	2.7	-2.1	-0.6	-5.4	-3.5	-8.7	-9.5	-16.8	-16.3	-24.8	-24.8	-33.0	-35.6	<sup>27</sup> -42.3	-48.9	-54.2	<sup>28</sup> -52.7	<sup>27</sup> -53.1	248	10210	-57.6
Total	47.3	24.0	-0.5	-40.5	-26.6	-78.6	-54.6	-121.6	-120.9	-201.4	-204.0	-287.9	-305.1	-386.7	-430.7	-477.3	-570.6	-620.4	-610.2	-626.3	2804	109160	-657.8
Mean	4.3	2.2	0.0	-3.7	-2.4	-7.1	-5.0	-11.1	-11.0	-18.3	-18.5	-26.2	-27.7	-35.2	-39.2	-43.4	-51.9	-56.4	-55.5	-56.9	255	9920	-59.8

\* No observations in February.

## Upper Air Means Table II for Stanley, Falkland Islands, 1959.

MONTH	MEAN HEIGHTS ABOVE M.S.L. OF STANDARD PRESSURE LEVELS (metres) <sup>22</sup>										
	900 mb.	850 mb.	800 mb.	700 mb.	600 mb.	500 mb.	400 mb.	300 mb.	200 mb.	150 mb.	100 mb.
January	875 <sup>9</sup>	1338 <sup>0</sup>	1927 <sup>0</sup>	2989 <sup>0</sup>	4067 <sup>0</sup>	5428 <sup>0</sup>	7028 <sup>0</sup>	8990 <sup>0</sup>	11650 <sup>0</sup>	13540 <sup>8</sup>	16180 <sup>8</sup>
•February											
March	885	1348	1835	2891	4080	5442	7040	8990	11610	13460 <sup>29</sup>	16080 <sup>26</sup>
April	870 <sup>10</sup>	1323 <sup>10</sup>	1799 <sup>10</sup>	2832 <sup>10</sup>	3994 <sup>10</sup>	5323 <sup>10</sup>	6878 <sup>10</sup>	8780 <sup>10</sup>	11370 <sup>10</sup>	13230 <sup>10</sup>	15730 <sup>33</sup>
May	848	1302	1777	2810	3968	5291	6843	8750	11310	13140	15710 <sup>30</sup>
June	916	1370	1847	2882	4047	5381	6945	8850	11400	13220	15780 <sup>29</sup>
July	914 <sup>11</sup>	1340 <sup>11</sup>	1794 <sup>11</sup>	2842 <sup>11</sup>	3996 <sup>11</sup>	5316 <sup>11</sup>	6861 <sup>11</sup>	8750 <sup>11</sup>	11280 <sup>11</sup>	13070 <sup>37</sup>	15600 <sup>32</sup>
August	842	1291	1765	2790	3941	5255	6795	8670	11200	12990 <sup>30</sup>	15510 <sup>26</sup>
September	873	1326	1803	2834	3996	5322	6880	8780	11320	13120	15660 <sup>28</sup>
October	921 <sup>11</sup>	1376 <sup>11</sup>	1855 <sup>11</sup>	2894 <sup>11</sup>	4037 <sup>11</sup>	5402 <sup>11</sup>	6973 <sup>11</sup>	8890 <sup>11</sup>	11470 <sup>11</sup>	13300 <sup>37</sup>	15880 <sup>32</sup>
November	842	1298	1776	2814	3982	5319	6890	8820	11430	13280	15890 <sup>25</sup>
December	876	1335	1816	2860	4035	5385	6972	8920	11530	13380 <sup>28</sup>	15990 <sup>27</sup>
Total	9662	14647	19994	31438	44143	58864	76105	97190	125570	145730	174010
Mean	878	1332	1818	2858	4013	5351	6919	8840	11420	13250	15820

• No observations in February.

## Upper Air Frequency Table I for Stanley, Falkland Islands, 1959.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges 20																																							
	Surface.																		900 mb.																					
	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30	33	36	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30	33	36
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	35	38	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	35	38	
January								1	5	3															1		2	4		1	1									
*February																																								
March								8	14	7	2														1	4	5	11	4	1	2	1		2						
April						2	16	15	7															3	16	10	5	3	3											
May						4	11	15	1															5	6	7	7	6												
June					1	5	10	14															3	1	7	7	8	3	1											
July					3	11	19	8															1	9	13	12	4	2												
August					1	10	14	6															4	6	5	10	3	3												
September						3	10	15	2														1	4	7	5	4	8	1											
October							8	23	9	1													1	3	13	8	10	2	4											
November							2	6	14	7	1													1	4	8	9	4	3		1									
December								3	11	12	5														2	7	8	8	3	1	1		1							
Year						5	35	90	114	63	30	8											10	32	75	78	65	54	19	3	5	1	1	2						

\* No observations in February.

## Upper Air Frequency Table II for Stanley, Falkland Islands, 1959.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges 4																																							
	850 mb.																800 mb.																							
	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
January						1	1	2	3		1		1																	4	1	3			1					
*February																																								
March						2	4	6	7	5	3	2	1		1												2	1	9	9	4	1	2	1	2					
April					4	12	11	5	3	4	1														1	4	10	8	9	5	2	1								
May					5	4	8	7	6	1															1	3	2	11	8	4	2									
June			1	2	1	1	11	7	6	1														1	1	2	2	9	9	3	3									
July				4	6	6	14	8	3															1	3	2	6	16	10	2	1									
August				3	5	8	8	5	1	1														3	1	6	14	5	1	1										
September				1		9	10	4	5	1																	8	11	5	6										
October					2	5	15	10	4	4	1															1	3	12	16	5	3	1								
November					3	3	11	7	3	1	1	1														4	1	9	10	4	1	1								
December						3	7	9	6	3	2		1													1	2	9	8	5	3	2		1						
Year				1	10	26	54	100	70	47	21	9	3	3		1										2	9	18	42	100	93	45	23	6	2	3	2			

\* No observations in February.

## Upper Air Frequency Table III for Stanley, Falkland Islands, 1959.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>4</sup>																																							
	700 mb.																600 mb.																							
	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	
January							1	1	4	2		1																	1	3	2	3								
*February																																								
March						2	4	7	5	6	3	1	2	1										1	1	1	3	7	6	8	2	1	1							
April					3	9	11	10	4	3													1	1	3	12	12	8	2	1										
May				2	2	4	10	9	4												1	1	3	2	7	9	5	3												
June				1	2	5	5	9	7	1												1		4	3	10	7	4	1											
July			1	2	4	7	13	11	3												1		3	10	9	11	7													
August			1	2	1	12	10	2	2	1											1		2	8	11	5	3	1												
September					1	4	15	7	1	2														4	15	3	6	1	1											
October					3	2	7	20	5	3	1													2		4	15	14	4	2										
November						8	7	8	3	4															4	9	4	3	8	2										
December						3	7	9	9	1	2														1	4	8	6	8	4										
Year				2	7	16	56	90	93	47	23	6	2	2	1							3	3	12	37	75	81	69	39	22	2	1	1							

\* No observations in February.

## Upper Air Frequency Table IV for Stanley, Falkland Islands, 1959.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges 4																																							
	500 mb.															400 mb.																								
	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
January									3	1	1	3	1																	3	1	2	1	2						
*February																																								
March								2	3	2	7	5	7	3	2												1	2	5	3	7	8	4	1						
April						1	3	3	11	10	9	1	2													3	7	9	12	5	3	1								
May						2	4	3	5	9	7	1														5	4	5	5	8	4									
June						1		4	4	11	8	2															5	3	10	9	3									
July						1	6	9	10	8	6	1															4	12	10	8	6	1								
August			1			1	4	7	8	6	3	1														2	6	5	7	8	2	1								
September							1	5	10	7	5	1	1														1	6	5	11	3	3	1							
October						1	1	1	6	13	14	3	2														1	1	5	13	13	7	1							
November							1	6	7	4	4	5	3														1	1	5	8	5	5	4	1						
December								2	2	9	7	6	3	2															3	6	9	4	5	3	1					
Year			1		7	20	42	66	82	71	27	21	6	2													2	21	42	54	89	64	40	21	10	2				

\* No observations in February.

## Upper Air Frequency Table V for Stanley, Falkland Islands, 1959.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges <sup>4</sup>																																										
	300 mb.																	200 mb.																									
	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	15	18	21	24	27	30	33	36	39				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	1	4	7	10	13	16	19	22	25	28	31	34	37	40	43			
January									3	4	2																																
*February																																											
March							2	6	10	9	2	2																															
April					1	2	14	16	6		1																																
May						4	9	11	7																																		
June							1	15	12	2																																	
July						5	11	18	5	2																																	
August				3	4	10	7	6	1																																		
September					4	3	9	7	5	1		1																															
October						4	6	21	9	1																																	
November							1	2	5	14	5	3																															
December								2	9	10	7	3																															
Year					3	14	36	84	98	69	27	11	3																														

\* No observations in February.

Upper Air Frequency Table VI for Stanley, Falkland Islands, 1959.

		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations at all ascents in 3°C ranges 4																																				
MONTH	150 mb.															100 mb.																						
	-84	-81	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	15				
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
		-86	-83	-80	-77	-74	-71	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	1	4	7	10	13	16		
January												2	2	2	2																		2	3	3			
•February																																						
March										2	5	4	6	7	5												1	2	4	5	7	6	1					
April											8	10	12	8	2														2	8	15	5	3					
May											10	3	10	4	4															3	9	7	8	3				
June									1	4	8	12	4	1															4	4	12	9						
July							2	6	9	11	6	3														2	5	4	5	12	2	2						
August						1	1	5	9	10	4																1	1	1	10	9	3	1					
September						1	2	9	7	3	2	5	1														1	2	4	6	5	3	3	4				
October				1		2	3	4	3	5	3	6	5	5														2	3	2	5	3	4	7	4	2		
November					1						7	7	5	7	2															1	3	5	5	5	6			
December										2	3	8	7	4	3	1																5	6	9	6	1		
Year				1	1	4	8	25	46	63	68	54	39	19	1														2	7	13	31	44	62	60	45	28	4

• No observations in February.



Upper Air Frequency Table VII for Stanley, Falkland Islands, 1959.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents:- 5																																											
	Surface.											900 mb.										850 mb.								800 mb.														
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>
9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	
January							1	3	3	2							1	1	2	4	1						1		4	2	1	1			1			1	2	1	2	1	1	
*February																																												
March							5	10	10	6				2	1	5	5	7	3	7	1			1	1	3	7	3	4	6	5	1			1	3	7	4	3	3	4	5	1	
April							4	9	25	2							3	4	17	16					1		4	4	6	8	15	2				3	1	5	5	5	8	11	2	
May								5	24	2			1			1	2	8	11	8				1		3	1	3	7	7	8				1	2	3	1	3	5	4	7	5	
June							2	7	14	7				1	1	1	1	4	7	14	1				2	1	5	2	4	8	8					3	3	5	3	5	2	7	2	
July						2	5	11	16	7				2	1	2	4	5	14	10	3		1	3	1	3	7	5	8	8	5			3	3	6	2	7	10	4	4	2		
August						2	5	3	20	1					2	1	4	3	11	10					1	2	2	4	3	12	7					2	7	3	3	5	5	6		
September						3	3	11	11	2				1	4	2	4	5	8	5	1			1	3	2	3	4	7	4	6				1	3	1	4	5	3	6	6	1	
October					2	3	14	10	11	1		1	2	2	5	3	6	14	8				1	4	1	3	6	8	5	7	6			1	2	5	1	7	7	3	4	6	5	
November					1	5	7	11	5	1					2	2	8	4	11	3				2		1	5	3	11	7	1				1		4	3	5	9	6	2		
December				1	2	6	9	8	5						1	8	5	8	4	5						1	6	6	8	5	5				1	1		5	5	11	5	3		
Year				1	5	21	55	88	144	31			2	8	14	27	40	55	102	90	7		3	11	11	19	47	42	67	74	67	4	1	6	15	25	33	47	49	54	55	53	7	

\* No observations in February.

Upper Air Frequency Table VIII for Stanley, Falkland Islands, 1959.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents:- 5																																														
	700 mb.											600 mb.											500 mb.											400 mb.													
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=			
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>			
9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100				
January		1				2		1	4	1		1			1		1	2	3	1			1				3	1	3	1					1					3	5						
*February																																															
March		2	2	3	4	4	6	2	5	2	1	1	1	2	5	5	4	4	2	4	2	1				5	5	5	3	5	4	4							3	7	3	6	4	4			
April			2	3	5	8	3	8	8	3				3	2	8	4	6	9	6	2			1	3	3	9	6	6	7	4								5	3	2	2	4	1			
May		2	2	4	4	3	2	7	2	5			2	3	5	4	5	1	4	5	2			1	3	5	4	5	1	5	5					1	4	3	1	2	1	3					
June			1	5	6	5	6	1	4	2			1	3	4	6	4	1	5	6					3	5	7	4	2	6	3						3	1	6	3	5	1	2				
July	1	4	2	5	4	9	6	6	3	1		2	1	2	3	5	9	6	8	3	2			4	3	4	4	12	6	6	2					1		4	2	1		2					
August		1	1	7	4	5	1	4	7	1			1	3	5	9	2	1	6	4				1	1	8	2	7	5	4	2					1	1	2	1	3		1	1				
September			1	3	3	4	3	5	7	4			1		2	4	4	5	5	8	1			1		5	4	3	5	9	3							1		4	7	3					
October		2	6	5	6	5	4	5	6	2			2	6	8	8	9	2	2	3	1			1	6	11	8	9	2	3	1					1	3	9	5	7	2	2					
November			1	4	4	7	6	2	2	4			2	1	7	4	3	4	6	1	2			1	1	9	8		5	4	2					1	1	8	2		6	1	1				
December			2	6	4	6	2	4	6	1			4		5	6	4	3	2	6	1			1	2	3	3	6	3	4	5	4				1	2	2	4	7	2	7	2				
Year	1	12	20	45	44	58	39	45	54	26	1	4	15	23	47	59	49	35	52	47	13	1	2	12	28	58	60	53	44	54	30				2	7	17	44	30	33	39	23	5				

\* No observations in February.

Upper Air Frequency Table IX for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at STATION LEVEL : Number of observations at all ascents of :—																								
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS	
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014		015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314		315 to 344
January	13.5	4	11	5	1								1	1			1		1	3	1	3	5	5	1	22
February	13.4	8	8	10									2		1				1	5	6	8	3	2	28	
March	12.5	12	9	9										2	3			1		2	1	4	4	9	4	30
April	14.2	14	10	9	2	1							1				1		1	3	4	5	7	7	8	37
May	14.6	7	10	13										3					3			5	7	7	5	30
June	15.8	7	12	10	1									4	2				1	5	1	5	3	5	4	30
July	13.9	11	20	5	3								2	2	3		1		1	1	5	4	7	12	3	41
August	16.9	8	10	10	2	1								5	1				1	3		4	6	6	5	31
September	16.2	7	12	9	2									2		2			3	2	2	3	5	3	8	30
October	17.7	5	17	12	5								2	1	1	4	2	3		3	5	5	2	6	7	41
November	22.1	1	7	15	5														1	6	6	4	5	6	28	
December	20.1	3	13	8	6								1	2					3	5	4	6	2	8	31	
Year	15.9	87	139	115	27	2							9	22	11	6	5	7	5	30	35	54	64	70	61	379

## Upper Air Frequency Table X for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 900 mb. : Number of observations at all ascents of :—																							NUMBER OF ASCENTS						
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)																
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284		285 to 314	315 to 344				
January	24.9	2	6	5	8	1										1			2	2	4	9	3	1	22						
February	29.2		4	10	10	3													2	3	10	9	2	1	27						
March	26.9	1	7	11	6	5								4			1			5	4	8	4	4	30						
April	23.1	3	14	10	6	4										1		1	3	7	9	9	6	1	37						
May	28.4	1	4	10	11	4								3					1	6	5	9	5	1	30						
June	22.9	3	8	9	6	2								3					5	3	5	5	2	5	28						
July	23.1	5	14	7	8	5								1		1	1	1		9	11	9	4	2	39						
August	25.4	3	3	12	6	3								4		1		2	1	3	3	9	1	3	27						
September	28.0	1	8	5	10	6								1		2	1	2	1	4	3	5	4	6	30						
October	20.1	6	17	6	9	1										3	4	3		1	3	5	7	8	3	2	39				
November	30.4		4	7	14	3													2	3	11	9	2	1	28						
December	27.4	2	6	8	10	5												1	2	5	6	8	3	6	31						
Year	25.8	27	95	100	104	42													16	3	7	7	3	8	22	55	78	97	39	33	368

Upper Air Frequency Table XI for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 850 mb. : Number of observations at all ascents of :-																				NUMBER OF ASCENTS			
		SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)										
		<i>1</i> <i>to</i> <i>9</i>	<i>10</i> <i>to</i> <i>19</i>	<i>20</i> <i>to</i> <i>29</i>	<i>30</i> <i>to</i> <i>39</i>	<i>40</i> <i>to</i> <i>59</i>	<i>60</i> <i>to</i> <i>79</i>	<i>80</i> <i>to</i> <i>99</i>	<i>100</i> <i>to</i> <i>119</i>	<i>120</i> <i>to</i> <i>139</i>	<i>140</i> <i>to</i> <i>159</i>	<i>160</i> <i>to</i> <i>179</i>	> <i>179</i>		<i>345</i> <i>to</i> <i>014</i>	<i>015</i> <i>to</i> <i>044</i>	<i>045</i> <i>to</i> <i>074</i>	<i>075</i> <i>to</i> <i>104</i>	<i>105</i> <i>to</i> <i>134</i>	<i>135</i> <i>to</i> <i>164</i>	<i>165</i> <i>to</i> <i>194</i>		<i>195</i> <i>to</i> <i>224</i>	<i>225</i> <i>to</i> <i>254</i>	<i>255</i> <i>to</i> <i>284</i>
January	28.8	2	4	6	5	5										1			1	2	4	10	2	2	22
February	31.4	1	4	4	14	4													2	3	9	10	3		27
March	29.2	1	6	8	9	6											1		1	4	4	9	6	2	30
April	23.3	4	10	13	6	4													1	3	8	8	10	5	37
May	29.9	1	3	9	12	5													1	2	5	5	8	6	30
June	22.9	1	10	9	7	1													5	2	6	6	2	3	28
July	24.3	3	14	9	7	6													1	6	14	10	3	2	39
August	25.7	3	3	14	4	3													1	3	2	9	2	3	27
September	28.3	1	8	6	9	6													3	1	4	3	6	5	30
October	21.0	7	14	8	7	3													1	2	1	3	2	9	39
November	33.1		3	6	9	10													1	3	5	5	11	2	28
December	29.0	2	5	7	10	7														2	3	11	9	1	31
Year	27.2	26	84	99	99	60													17	5	5	5	3	9	368

Upper Air Frequency Table XII for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 800 mb. : Number of observations at all ascents of :-																								NUMBER OF ASCENTS							
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)																		
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014		015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314	315 to 344								
January	31.6	2	2	5	6	7											1		1		2	5	10	1	2	22							
February	33.6		4	3	14	5	1												2	3	8	10	4			27							
March	30.8	2	5	5	12	6												3		1	3	5	10	6	1	30							
April	23.9	2	11	16	3	5														1	4	7	7	12	4	2	37						
May	30.7	1	2	9	12	6															4	2	8	11	3	1	30						
June	23.3	1	10	10	4	3															4	2	6	6	3	3	28						
July	25.8	3	11	10	9	6													1	1	1	6	12	13	3	1	39						
August	25.7	3	4	11	6	3															4	3	3	7	3	3	27						
September	28.3	5	5	4	9	7															1	4	4	5	6	4	30						
October	21.2	6	15	7	8	3															4	3	6	10	3	2	39						
November	35.1		2	7	6	13															2	2	13	8	2	1	28						
December	30.5		8	4	13	6															2	4	9	9	3	3	31						
Year	28.4	25	79	91	102	70	1														16	4	4	5	3	4	30	41	86	111	41	23	368

Upper Air Frequency Table XIII for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 700 mb. : Number of observations at all ascents of :-																							NUMBER OF ASCENTS														
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)																								
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284		285 to 314	315 to 344												
January	36.8	2		3	8	8	1											2								7	8	4	1	22									
February	39.4		1	5	8	12	1													1	4	10	6	6						27									
March	33.0	2	1	8	12	7												1			2	1	5	10	7	3			30										
April	26.2	2	12	9	5	9																			1	4	6	8	9	7	2	37							
May	33.6	1	2	9	8	10																				4	1	7	12	4	1	30							
June	25.5	1	11	7	5	4																				3	2	7	6	6	2	28							
July	29.1	3	7	10	12	6	1																			1	1	7	10	14	3	1	39						
August	26.7	2	7	7	7	4																					3	4	5	5	4	3	27						
September	29.3	6	5	1	8	9	1																			1	4	4	4	4	8	4	30						
October	23.7	5	12	11	6	5																					1	2	4	13	9	1	39						
November	37.8		2	5	6	15																						5	7	13	1	1	28						
December	35.1	1	1	10	10	7	2																				3	2	11	10	4	1	31						
Year	31.3	25	61	85	95	96	6																				7	4	1	5	3	4	28	38	85	110	63	20	368

## Upper Air Frequency Table XIV for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 600 mb. : Number of observations at all ascents of :—																											
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS				
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179	345 to 014		015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314		315 to 344			
January	40.1	1	1	2	6	10	2											1	1		1	6	6	5	2	22			
February	44.5	1		4	6	11	5													1	4	9	7	6		27			
March	38.6	1	2	4	8	13	2													1	2	6	10	6	4	30			
April	30.7	1	9	10	8	9												1	3	2	5	5	10	10	1	37			
May	38.8	1		9	8	8	3	1												1	2	2	6	14	4	1	30		
June	28.9	1	6	10	6	4	1									1		1			2	4	7	5	5	3	28		
July	32.2	1	8	9	10	10	1									2		1				1	5	15	13	1	1	39	
August	29.8	3	2	9	6	5	2									1					2	2	9	5	5	3	27		
September	31.6	3	5	2	7	11	1											1			2	3	5	5	7	6	30		
October	27.2	6	8	10	7	4	4									1	1			1	3	5	2	5	13	8	39		
November	44.0	1		3	7	13	3	1												1	1	4	5	11	6		28		
December	41.8			3	14	11	3														4	2	10	9	6		31		
Year	35.7	20	41	75	93	109	27	2								1	5	3	2		5	8	24	34	88	108	69	21	368



Upper Air Frequency Table XV for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 500 mb. : Number of observations at all ascents of :—																									
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS		
	1	10	20	30	40	60	80	100	120	140	160	>170	345		015	045	075	105	135	165	195	225	255	285		315	
KNOTS	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to			
	9	19	29	39	59	79	99	119	139	159	179	014	044	074	104	134	164	194	224	254	284	314	344				
January	45.0	2		2	3	11	3	1							1	1			1	5	8	4	2	22			
February	56.1	1		3	3	8	8	4	1									1	4	6	11	5	1	28			
March	43.7		4	4	5	10	7								1			1	2	6	8	9	2	30			
April	33.4	1	6	8	11	8	3								1		2	1	4	2	5	10	11	1	37		
May	41.3		2	5	9	7	5	2									1	2	1	7	9	9		30			
June	32.8	2	4	6	10	4	1	1								1			2	4	7	5	5	4	28		
July	37.7	1	3	8	11	13	3								2		1			2	5	11	15	2	1	39	
August	34.7	1	3	5	9	6	3								2				1	2	10	3	7	2	27		
September	36.1	4	4	3	4	12	3								1		1		1	3	7	5	7	5	30		
October	32.4	4	9	8	5	9	4								1		2	1	2	6	6	13	7	1	39		
November	50.3		2		9	8	6	3										1	1	4	7	8	7		28		
December	50.2			3	9	10	6	3											2	4	9	8	8		31		
Year	41.1	16	37	55	88	106	52	14	1						6	2	1	5	5	4	19	38	86	103	81	19	369

## Upper Air Frequency Table XVI for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 400 mb. : Number of observations at all ascents of :-																									
		SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS		
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 50	60 to 70	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284		285 to 314	315 to 344
January	53.5	2	1		3	7	7	1	1						1				1	4	7	6	2	22			
February	68.7		1	3	3	3	5	9	3	1								1	4	7	9	6	1	28			
March	54.4		3	2	6	8	5	4	2									3		5	10	7	3	30			
April	37.3		5	9	8	10	5									4	1	4	3	5	11	7	2	37			
May	53.2		2	2	9	6	4	4	3									1	2	2	1	8	8	8	30		
June	38.4	1	3	4	7	11	1	1								1		1		6	8	5	3	4	28		
July	42.9		4	4	11	13	5	2						1	1		1	1	2	4	13	12	3	1	39		
August	41.2		2	5	5	11	3	1						2				1	4	8	2	7	3	27			
September	45.4	3	5		3	11	5	3							1		1		2	7	5	10	3	30			
October	39.8		10	6	8	6	6	2	1					1		1	1	3	2	3	10	11	6	1	39		
November	56.7	1	1	1	4	8	8	5										1	1	5	7	9	5		28		
December	57.9			2	6	10	6	6	1										2	2	12	8	4	3	31		
Year	49.1	7	37	38	73	104	60	38	11	1					4	4	1	3	8	10	18	35	94	97	72	23	369

Upper Air Frequency Table XVII for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 300 mb. : Number of observations at all ascents of :-																							NUMBER OF ASCENTS		
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)												
		1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284		285 to 314	315 to 344
January	57.8	1		1	1	9	3	4	2					1			1		1		2	2	8	5	2	22	
February	76.8			1	3	5	6	6	5	1	1								1	5	8	9	5			28	
March	66.6			4	5	5	6	5	2	1	2								1	5	8	9	5			28	
April	43.4		2	10	6	7	8	3						1					3	1	7	7	9	1		30	
May	63.6		1	2	4	9	5	5	4										3	1	6	4	11	9	2	37	
June	47.0	2	4	1	6	7	5	2			1								1	2	3	9	4	6	2	30	
July	50.9		3	6	2	14	12	1		1										3	7	8	13	7	1	28	
August	47.9		2	5	4	10	4	1	1											3	7	8	13	7	1	39	
September	53.8	2	3	4	1	5	9	2	3											5	8	2	8	3		27	
October	45.6	1	10	6	3	7	6	3	2	1										1	1	5	6	11	2	29	
November	63.7		1	2	2	6	10	5	2											1	1	5	6	6	9	39	
December	71.3			2	3	10	3	6	5	2										3	1	13	6	5	3	28	
Year	57.4	6	26	44	40	94	77	43	26	6	4			2	2	3	2	3	4	9	17	40	84	97	88	17	368

## Upper Air Frequency Table XVIII for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 200 mb. : Number of observations at all ascents of :—																							NUMBER OF ASCENTS		
		SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)												
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284		285 to 314	315 to 344
January	53.0		2		2	13	3	1		1										2	4	10	4	2	22		
February	59.2			1	4	11	6	4	2											6	9	10	3		28		
March	54.7		2	2	5	8	10	2	1										1	2	5	10	10	2	30		
April	40.1	2	3	5	9	11	7									1				3	8	13	10	2	37		
May	56.6			4	2	12	6	5	1						1		1	1	1	1	6	14	6		30		
June	44.6	1	1	4	4	11	6	1											1	2	11	6	8		28		
July	60.1	1		3	2	13	15	4		1											4	12	18	4	1	39	
August	55.5			1	2	16	4	4												2	9	9	7		27		
September	60.7		1		3	12	7	5	1											1	5	11	12		29		
October	47.4	2	3	8	5	8	6	5	2						1						10	22	5	1	39		
November	65.2			2	2	6	10	6	1	1								1	3	7	13	4		28			
December	65.8			2	4	9	8	4	3	1										5	10	11	4	1	31		
Year	55.2	6	12	32	44	130	88	41	11	4					1				2	1	4	31	96	147	77	9	368

## Upper Air Frequency Table XIX for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 150 mb. : Number of observations at all ascents of :-																				NUMBER OF ASCENTS									
	KNOTS	SPEEDS (knots)											CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)																	
		1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179		>179	315 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194		195 to 224	225 to 254	255 to 284	285 to 314	315 to 344				
January	35.4			3	8	6																					4	9	4		17
February	44.3				2	8	11	2													3	9	11								23
March	43.0		1	5	6	10	5													1	1	5	10	8	2					27	
April	37.1	1	3	7	9	11	2															8	16	9						33	
May	54.1		2	1	4	9	11	1														3	3	14	7	1				28	
June	41.7			5	7	13	1															2	12	9	3					26	
July	62.4			2	4	7	19	3														1	14	17	3					35	
August	62.4				1	9	8	4														1	8	8	5					22	
September	64.5				1	9	10	5	1													1	6	10	9					26	
October	48.2	1	2	5	3	13	4	3	1							1							6	23	2					32	
November	60.2			1	3	7	7	5														3	8	10	2					23	
December	48.1			2	4	11	6															2	6	10	4	1				23	
Year	50.1	2	8	33	58	116	75	21	2							1			1	17	89	147	56	4					315		

### Upper Air Frequency Table XX for Stanley, Falkland Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at 100 mb. : Number of observations at all ascents of :-																												
		SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS					
		<i>1</i>	<i>10</i>	<i>20</i>	<i>30</i>	<i>40</i>	<i>60</i>	<i>80</i>	<i>100</i>	<i>120</i>	<i>140</i>	<i>160</i>	>179		<i>345</i>	<i>015</i>	<i>045</i>	<i>075</i>	<i>105</i>	<i>135</i>	<i>165</i>	<i>195</i>	<i>225</i>	<i>255</i>		<i>285</i>	<i>315</i>			
KNOTS	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>		<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>	<i>to</i>						
		9	19	29	39	59	79	99	119	139	159	179		014	044	074	104	134	164	194	224	254	284	314	344					
January	25.3		3	5	4	1																				6	4	1	2	13
February	30.2				5	5	1													1	4	5	1							11
March	29.5		2	7	10	3													2	5	8	7								22
April	36.7			8	5	9	1														4	14	5							23
May	47.5				1	4	13	2	1												4	11	6							21
June	42.1				2	7	12	1												1	13	7	1							22
July	65.8					3	7	8	9	1										1	9	18								28
August	76.7						2	3	6												5	4	2							11
September	78.1									11	8	1									4	11	5							20
October	47.6		5	2	1	10	6	1	1										1	9	15	1								26
November	59.1					2	6	4	3											2	7	6								15
December	35.4				5	6	3														5	6	3							14
Year	47.8		10	35	47	67	36	28	3										1	7	75	109	32	2						226

### Upper Air Frequency Table XXI for Stanley, Falkland Islands, 1959.

MONTH		HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 15 metre ranges :- 22																																																	
		900 mb. Mean height 878 metres. I.C.A.N. height 988 metres.																																																	
		510 to 524	525 to 539	540 to 554	555 to 569	570 to 584	585 to 599	600 to 614	615 to 629	630 to 644	645 to 659	660 to 674	675 to 689	690 to 704	705 to 719	720 to 734	735 to 749	750 to 764	765 to 779	780 to 794	795 to 809	810 to 824	825 to 839	840 to 854	855 to 869	870 to 884	885 to 899	900 to 914	915 to 929	930 to 944	945 to 959	960 to 974	975 to 989	990 to 1004	1005 to 1019	1020 to 1034	1035 to 1049	1050 to 1064	1065 to 1079	1080 to 1094	1095 to 1109	1110 to 1124	1125 to 1139	1140 to 1154	1155 to 1169	1170 to 1184					
January																							1				1																								
*February																																																			
March													1						3	1		1	5	2	1	2	1	4		3										2	3	2									
April													1	2	1	2			3	4		2	3	3	2	1	1	3	3	3						1	1														
May														1	1		1			3	2	2	2	1	4	1	3	1	1	2	1	1		1													1				
June																				1				3	2	1	2			6	2	3	2	6												2					
July										1					1			1	2			1	3	6	2	2	2	2	1	6	5	1	3						1	1					2						
August											2	2	1			2			2	2	1	3	4			1	1	2	1	1	2	1	1	2	1	1	1	1										1			
September														1				2	1			2	3	2	3	2	4	2	4	1		1	1								1										
October																		1	2	2	1	2	1	1	3			1	3	7	6	3	3	2											1	1					1
November										1	1	2			1	1	1				2	1	2	1	1	2	6	2	2	1	2	1		1																	
December																			2				3	1	1	3	4	2	2	1	3																				
<b>Total</b>										2	3	5	4	3	7	2	8	10	14	15	10	28	25	21	21	19	22	25	26	16	17	11	10	5	4	8	2													2	

\* No observations in February.

















### Upper Air Frequency Table XXIX for Stanley, Falkland Islands, 1959.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges:— <sup>22</sup>																																																		
	200 mb. Mean height 11,420 metres. I.C.A.N. height 11,784 metres.																																																		
	1074	1077	1080	1083	1086	1089	1092	1095	1098	1101	1104	1107	1110	1113	1116	1119	1122	1125	1128	1131	1134	1137	1140	1143	1146	1149	1152	1155	1158	1161	1164	1167	1170	1173	1176	1179	1182	1185	1188	1191	1194	1197	1200	1203	1206						
January																										1	1																								
February •																														2	2	1			1	1															
March																				1	3	1	3	1	4	2	1	1	6																						
April													1	1	2	4		4	5	6	2	4	2	1	3	1	1		2										1												
May												1	3	3	3	2	1	2	4	4		2	1	2	1				2																						
June											1		1			1	1	4	1	5	4	3	3	3	1			1	1																						
July								2		4	3	2	1		3	3	1	2	2	3	3	4	3	1	3		1																								
August			1	2	1	3	1					3	1		4	1		4	2	1	2	2	2		1	1			1																						
September								1			1	3			1	1	1	2	6		1	4	2		3	1	2	1		1																					
October											1					1	1	1	1		3	2	3	2	4	9	4	3	3		1					1															
November									1							2		1	2	2	1	2	3	4	2	1	1	2	2	1	2				1																
December															1					1	2	2	2	5	2	2	1	1	2	1	5	1	1																		
Year			1	2	1	3	1	3	1	4	6	9	7	5	17	13	6	22	20	23	25	30	21	19	25	12	12	14	11	10	3	2	5	4																	

• No observations in February.

## Upper Air Frequency Table XXX for Stanley, Falkland Islands, 1959.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges:— <sup>22</sup>																																																	
	150 mb. Mean height 13,250 metres. I.C.A.N. height 13,608 metres.																																																	
	1248	1251	1254	1257	1260	1263	1266	1269	1272	1275	1278	1281	1284	1287	1290	1293	1296	1299	1302	1305	1308	1311	1314	1317	1320	1323	1326	1329	1332	1335	1338	1341	1344	1347	1350	1353	1356	1359	1362	1365	1368	1371	1374	1377	1380					
January																																1				1	5													
February *																																																		
March																												3	2	2	3	1	3	4	2	1	3					1			1	1	1			
April																				4	3	3	1	9	3	4	1	2	1	3	3	1	1	1																
May																2	1	1	4	2	4	3	1	6	1	2	1	1				2																		
June														1				1	1	1	1	2	4	5	2	6	2	2			1	1																		
July											4	3			2		4		2	2	3	1	3	3	4	2	2	2																						
August				1	1	2	2			2					1	2	1		3	1	2	4	3	1	1	1	1				1																			
September									1					2	2	1		1	3	1	2	3	3	1	1	2	2		4	1																				
October												1						1	1		2	3	1	2	2				2	3	6	2	7		2	1	1													
November														1						1		2	1	2	2	1	5	2	2	4	2			2	3	2	1	1												
December																						1		1		3	3	4	2	2			2	3	2	1	1	1					1	1						
Year				1	1	2	2			3	4	3	1	4	5	5	6	4	14	12	17	22	17	30	16	21	20	17	14	20	10	13	12	9	5	10	1	1	2	1	1	1	1	1	1	1	1	1		

\* No observations in February.



## Upper Air Frequency Table XXXI for Stanley, Falkland Islands, 1959.

MONTH		HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— <sup>22</sup>																																																						
		100 mb. Mean height 15,820 metres. I.C.A.N. height 16,180 metres.																																																						
		1503	1506	1509	1512	1515	1518	1521	1524	1527	1530	1533	1536	1539	1542	1545	1548	1551	1554	1557	1560	1563	1566	1569	1572	1575	1578	1581	1584	1587	1590	1593	1596	1599	1602	1605	1608	1611	1614	1617	1620	1623	1626	1629	1632	1635										
January																																																								
February •																																																								
March																																																								
April																																																								
May															1			1			2	4	4	2	2	2	5	3	1	1		2	1	4	2	3	1																			
June																1					1	1	1	1	4	3	9	1	2	3		1	1																							
July									1	4	1								1	3	5	1	1	3	1	4	3	1	2	3		1	1																							
August	1	1		1	1	1				1	1				1	1	1	1	1	1	3	5	1	1	3	1	3	1	2		1																									
September							1							2	3		1	1			2	2	2		4	2		1	2	1	1	1																								
October											1								3				1	2	2	1		1	1	1																										
November																1							1			2	1			1	1	5	3	3	1	2	2	1	1																	
December																												1	1		1	5	3	6																						
Year		1	1		1	1	1	1	1	5	3			2	7	2	3	4	5	9	14	16	8	18	15	19	17	12	7	14	11	20	12	15	11		8	8	7	6	5	3			2	1										

• No observations in February.

Means and Extremes Table I for Grytviken, South Georgia, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0100	0400	0700	1000	1300	1600	1900	2200		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	990.8	1010.3	25th	<u>958.8</u>	<u>10th</u>	38.4	37.7	39.1	42.0	43.5	44.7	42.5	39.7	40.9	49.6	36.7	<u>61</u>	<u>2nd</u>	28	5th
February	988.1	1002.7	19th	962.6	14th	36.7	36.1	36.6	39.0	41.9	41.6	39.6	38.0	38.7	43.5	34.9	60	24th	28	12th, 16th
March	999.6	1024.1	15th	967.8	23rd	38.5	39.4	38.7	41.1	43.7	43.0	40.1	38.5	40.4	44.9	36.4	59	7th	30	10th
April	993.9	1014.6	13th	968.6	20th	34.7	34.3	34.2	34.7	36.6	36.3	34.8	34.2	35.0	38.6	31.4	57	19th	19	30th
May	996.6	1023.5	12th	974.1	21st	30.5	31.5	31.6	31.7	32.8	32.0	31.5	30.8	31.5	35.3	28.2	48	28th	22	12,13,14,15
June	1002.5	1023.4	18th	969.6	4th	28.6	28.4	28.4	28.5	28.7	28.3	28.5	28.8	28.5	31.9	25.5	44	24th	18	11th, 15th
July	994.8	1010.8	5th	966.2	15th	25.9	25.9	25.7	26.1	26.2	25.8	25.9	25.8	25.9	29.5	22.3	45	5th	11	28th
August	998.2	<u>1031.6</u>	<u>19th</u>	970.7	23rd	25.1	24.9	24.9	26.2	27.6	27.5	26.2	25.5	26.0	29.7	21.8	46	1st	<u>09</u>	<u>30th</u>
September	1003.1	1029.0	13th	974.6	24th	—	—	30.5	30.5	32.7	32.5	31.3	31.3	31.5	35.7	27.1	54	27th	11	6th
October	1002.3	1020.4	5th	977.3	13th	31.7	31.0	32.4	34.9	36.3	35.7	33.5	32.9	33.5	38.5	29.3	46	3rd	22	11th
November	988.8	1009.0	1st	959.8	30th	35.5	35.4	36.2	38.8	39.0	38.4	36.6	36.1	37.0	43.0	32.8	55	9th	26	7th
December	994.0	1017.9	10th	970.1	1st	37.6	37.3	38.8	40.8	42.2	42.5	40.8	38.6	39.9	42.9	35.9	<u>61</u>	<u>14th, 15th</u>	31	11th
Total	11952.7	12217.3	—	11620.2	—	363.2	361.9	397.1	414.3	431.2	428.3	411.3	400.2	408.8	463.1	362.3	636	—	255	—
Mean	996.1	1018.1	—	968.4	—	33.0	32.9	33.1	34.5	35.9	35.7	34.3	33.3	34.1	38.6	30.2	53	—	21	—

No observations at 0100 or 0400 in September.

Means and Extremes Table II for Grytviken, South Georgia, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0100	0400	0700	1000	1300	1600	1900	2200		0100	0400	0700	1000	1300	1600	1900	2200		REC.	EST.				
																				Not recorded				
January	79	80	78	71	70	63	68	75	73	5.6	6.2	6.4	6.0	6.1	5.9	5.5	5.5	5.9	5.9	Not recorded	16.5	88.5	34.7	22nd
February	76	79	78	71	63	63	67	71	71	5.7	6.4	6.6	6.5	6.4	6.1	5.9	5.4	6.1	4.5		14.7	84.1	23.4	13th
March	82	76	76	69	65	61	75	81	73	5.5	6.1	6.0	5.7	5.6	5.9	6.1	5.2	5.8	4.7		12.6	52.2	16.1	20th
April	75	76	77	74	70	72	75	74	74	6.8	6.3	6.2	5.9	6.7	6.7	6.2	6.0	6.3	1.1		10.4	143.1	52.2	19th
May	81	76	77	79	78	81	79	79	79	5.9	4.8	5.9	6.5	6.7	6.3	5.3	5.4	5.9	0.7		8.4	293.7	<u>110.0</u>	<u>3rd</u>
June	78	78	79	80	79	78	80	79	79	4.3	3.9	5.0	5.5	5.8	5.9	5.1	4.8	5.0	0.3		7.4	54.0	23.2	3rd
July	75	78	80	79	77	73	74	74	76	5.1	5.4	5.7	6.5	5.7	5.6	5.3	5.1	5.5	0.3		7.9	77.6	36.7	9th
August	79	78	77	75	75	76	81	84	78	6.0	5.1	4.9	5.8	5.4	5.5	5.7	5.5	5.5	2.2		9.5	194.5	87.6	20th
September	—	—	79	81	76	77	79	76	78	—	—	4.6	4.8	4.8	4.8	4.7	4.5	4.7	3.3		11.6	69.8	16.4	23rd
October	75	80	77	72	65	67	76	73	73	4.7	4.6	4.7	4.7	4.7	4.6	4.8	4.5	4.7	7.0		13.8	63.3	31.0	20th
November	73	67	69	62	65	69	75	73	69	4.9	4.6	4.9	4.9	5.1	5.2	5.4	5.2	5.0	5.2		15.8	91.1	28.8	29th
December	77	79	74	69	66	65	68	73	71	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.9	6.2		17.0	62.1	15.5	23rd
Total	850	847	921	882	849	845	897	912	891	60.3	59.3	66.8	68.8	68.9	68.4	65.8	62.8	66.3	41.4	145.6	1274.0	475.6		
Mean	77	77	77	73	71	70	75	76	75	5.5	5.4	5.6	5.7	5.7	5.7	5.5	5.2	5.5	3.5	12.1	106.2	39.6		

No observations at 0100 or 0400 in September.

Frequency Table I for Grytviken, South Georgia, 1959.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0	1040.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9	1044.9
January				2	2	3	7	8	25	52	83	29	28	8	1						
February					4	6	6	14	35	61	58	33	7								
March						1	5	3	10	23	32	50	62	26	12	7	17				
April						1	13	8	35	24	25	59	46	22	7						
May							2	11	36	36	25	43	40	19	16	9	11				
June						1	1	29	17	19	20	26	18	35	29	26	19				
July						2	5	19	21	31	33	39	62	34	2						
August							4	13	24	31	48	34	16	28	23	7	9	8	3		
September							1	6	18	16	18	25	37	22	12	15	3	7			
October								3	2	17	25	30	72	60	28	10	1				
November				1		4	11	34	34	48	49	21	21	17							
December							9	23	26	42	36	31	37	20	17	7					
Year				3	6	18	64	171	283	400	452	420	446	291	147	81	60	15	3		

No observations at 0100 or 0400 in September.



Frequency Table III for Grytviken, South Georgia, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January				2	2	3	5	7	14	28	30	22	18	16	25	23	19	19	15
February			1	1	3	2	7	12	17	19	21	24	21	17	19	24	16	13	7
March				5	5	6	8	8	14	16	14	15	14	21	33	34	25	22	8
April					1		1	6	13	17	25	26	30	37	24	25	8	17	10
May		1		1		1	1	4	9	7	20	25	25	19	29	33	27	33	13
June							2	4	5	5	12	19	29	42	38	36	20	27	1
July		1	3		2		6	6	6	14	17	22	26	27	20	45	21	20	12
August					2		4	4	4	8	24	22	29	42	22	19	32	13	23
September			1		2	2	1	9	7	7	9	11	11	15	20	30	33	16	6
October			1	4	6	6	7	8	13	10	11	18	24	24	28	42	23	20	3
November			1		6	6	14	12	13	15	26	27	25	24	13	28	18	8	4
December				1	3	4	8	12	28	17	23	19	12	24	21	26	35	13	2
Total		2	7	14	32	30	64	92	143	163	232	250	264	308	292	365	277	221	104
Mean		—	1	1	3	3	5	8	12	14	19	21	22	26	24	30	23	18	9

No observations at 0100 or 0400 in September.

# Frequency Table IV for Grytviken, South Georgia, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud					
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= >40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS									
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= >6000	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600		600 to 1200	1200 to 2400	2400 to 6000	= >6000	
																																				0
January		3	1	1	2	5	4	29	85	118	15	47	80	66	38	2	4	2	9	22	30	158	8	13	2	3	2	3	2	1	3	2	30		1	1
February				5	3	1	4	22	66	123	5	36	77	54	49	3	3		5	17	36	154	4	4		3		3	5	2	24				1	
March				6	2	5	5	26	90	114	22	60	56	51	56	3	3	1	5	21	64	125	7	12	2	3	1	1	7	9	28	1		1	8	
April				4	1	4	9	46	79	97	10	35	52	65	75	3	3		6	14	20	181	6	6	2	3		2	7	5	69	2		2	2	
May		1	1	13	7	3	9	43	79	92	40	35	41	50	67	15	17		5	25	41	120		13	3	17		2	14	15	51		1	24		
June		3	1	5		1	5	34	65	126	42	64	32	44	49	9	9			14	50	120	5	7	10	9		2	15	28	1	1	1	25		
July		6	12	8	6	12	31	23	20	130	49	57	26	38	44	34	34	1	2	15	37	104	6	26	9	34		1	15	19	28		4	4	14	
August		14	5	8	4	12	37	53	26	89	38	40	26	41	81	22	24	2	1	23	58	109	2	8	4	24	1	1	21	36	47				26	
September		2		4	7	4	22	42	39	60	30	47	28	22	49	4	4		9	24	45	61	7	12	2	4		6	13	22	15		1		16	
October				2	6	1	12	36	56	135	64	74	29	36	41	4	4	3	1	10	62	102	2	22	11	4		3	35	18		2	3	31		
November			1	5	9	7	15	34	78	91	23	64	29	66	48	10	10			3	28	169	7	12	9	10		2	17	61	4	2	3	2		
December			1	3	4		10	45	87	98	15	62	30	83	56	2	2	1	3	30	48	144	5	9		2		3	11	16	29	2	5		6	
Total		29	22	64	51	55	163	433	770	1273	353	621	506	616	653	111	117	10	46	218	519	1538	59	144	54	116	4	20	103	193	428	10	16	16	155	
Mean		2	2	5	4	5	14	36	64	106	29	52	42	51	54	9	10	1	4	18	43	128	5	12	5	10	-	2	9	16	36	1	1	1	11	

No observations at 0100 or 0400 in September.

Frequency Table V for Grytviken, South Georgia, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9	9	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 Fog		10 & 17 HAIL			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm =	>1.0 mm =	>10.0 mm =	WIND FORCE = ^	WIND FORCE = ^	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DREFT	SHOWERS	True	Pseudo	True	Small	Soft	
	>41°F	<23°F	<14°F	>59°F	=	=	=	=	=																	
January				1	20	11	2	10		24	13	9	5		13		5			20	2					7
February	1			1	18	13	3	3		15	16	8	3		12		10			19		4				
March	1				18	9	2	6	3	22	13	8	11		10		3		1	14	6	1		1		4
April	1				26	18	3	8	3	10	24	5	4		11		25		10	24		1				6
May					23	19	8	7	3	8	24	11	3		11	1	30		9	18	4	7				3
June					12	8	2	3	1	8	17	4	2		8	1	30		4	13		4				
July		5	5		8	4	3	11	1	2	23		1		12	1	31		12	2	1	9				
August		1	4		17	9	3	8		5	27		2		10	2	31		12	1		12				
September			2		16	9	4	8	1	8	14	7			12	2	30		5	2		3				
October					6	2	2	10	1	4	16	6			8	2	28		4	9		2				
November	1				19	12	2	17	2	15	16	9	1		13		8		5	23		3	1			2
December				2	16	8	4	10		17	14	4	9		7		3			14	1		1	1		
Total	4	6	11	4	199	122	38	101	15	138	217	71	41		127	9	234		62	159	14	46	2	2		22
Mean	-	1	1	-	17	10	3	8	1	11	18	6	3		11	1	19		5	13	1	4	-	-		2



Frequency Table VI for Grytviken, South Georgia, 1959.

MONTH	2 MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
		3 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	10.1		16	105	76	51	23	5	1	10	17	4	3	3	10	20	41	60	
February	7.6		5	66	100	53	22	8	4	18	24	3		6	17	25	44		
March	8.9	3	13	82	85	65	38	6		13	28	5	1	3	13	16	60		
April	10.0	1	13	103	79	44	28	8	3	8	9	5	2	2	3	18	67	43	
May	8.2	3	15	75	63	92	36	3		2	3	1	3	1	4	18	36	49	
June	6.3	1	5	57	86	91	31	5		4	13	8	1	3	4	17	29	34	
July	8.6	1	18	73	70	86	33	7	4	2	6	6		5	12	26	26	35	
August	8.3		13	84	68	83	24	8		2	17	35	7		4	8	16	44	
September	9.2		17	60	41	62	24	10	1		13	12	1			8	15	34	
October	6.2	2	20	76	74	76	47	23	2	8	12	1	1	3	3	12	19	41	
November	13.0	3	35	116	59	27	32	17	1	7	15	4	3	1	1	16	47	69	
December	9.5		17	89	93	49	30	12		20	16	6	2	2	3	15	27	57	
Total	105.9	14	187	986	894	779	377	112	16	94	173	90	23	21	53	188	364	570	
Mean	8.8	1	16	82	75	65	31	9	1	8	14	7	2	2	4	16	30	47	

No observations at 0100 or 0400 in September.

# Frequency Tables VII to X for Grytviken, South Georgia, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1			5	1	1	1			2	1	12
2	2			4	6		2	1	1				17
3	8	3	1	6	5	3		1	1	4	7	8	47
4	7	1			1				6	10	13	31	69
5	6								1	2	12	15	36
6									1	3	5	3	12
7										2	2		4
≥ 8													
Totals	23	5	1	10	17	4	3	3	10	20	41	60	197

CALMS - 51

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	5	3	4	4						1	4	26
2	8		1	7	4	1			2	3	1	1	28
3	4	2		7	12	2				3	3	13	46
4	4	1			4				3	9	11	16	48
5									1	2	7	8	18
6	1										2	2	5
7													
≥ 8													
Totals	22	8	4	18	24	3			6	17	25	44	171

CALMS - 53

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	1		3	3	2						2	16
2	5			4	11	2						3	25
3	16	2		5	7				3			11	44
4	10	2		1	7	1		1	2	2	8	23	57
5	1	1							2	4	17	25	25
6	1								1	3	2	2	9
7									2	1	1	1	4
≥ 8									1	1	1	1	3
Totals	38	6		13	28	5		1	3	13	16	60	183

CALMS - 65

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	1	1	2		1				2	1	11
2	1		1	3	3	1	1	1	1	2	5		19
3	13	3	1	4	2	1		1	1	3	13	7	49
4	12	3			2	3			1	8	22	29	80
5	1									2	16	4	23
6										3	6	2	11
7											2		2
≥ 8											1		1
Totals	28	8	3	8	9	5	2	2	3	18	67	43	196

CALMS - 44

# Frequency Tables XI to XIV for Grytviken, South Georgia, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	4	1		1				1		5	1		13
2	3			1	2		3		1	3	2	1	16
3	10	2			1	1				2	2	3	34
4	13									2	11	26	52
5	6								1	2	8	6	23
6										3	5	3	11
7											4		4
≥ 8										1	2		3
<b>Totals</b>	<b>36</b>	<b>3</b>		<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>18</b>	<b>36</b>	<b>49</b>	<b>156</b>

CALMS - 92

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1	1				1		3		8	7	3	24
2	6	1		3	2	2	1			4	4	2	25
3	8	3			5	3			2	1	7	8	37
4	9			1	4	2			1		7	9	33
5	6				2				1	1	3	11	24
6	1									1		1	3
7										1	1		2
≥ 8										1			1
<b>Totals</b>	<b>31</b>	<b>5</b>		<b>4</b>	<b>13</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>17</b>	<b>29</b>	<b>34</b>	<b>149</b>

CALMS - 91

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	6			1	2	2		2	3	8	2	3	29
2	2	3	2	1	2	2		1	1	4	1	2	21
3	6	1	2		1	2		1	1	4		2	20
4	6	3			1			1	2	7	13	7	40
5	12								2		4	15	33
6	1									2	5	5	13
7									3	1		1	5
≥ 8											1		1
<b>Totals</b>	<b>33</b>	<b>7</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>6</b>		<b>5</b>	<b>12</b>	<b>26</b>	<b>26</b>	<b>35</b>	<b>162</b>

CALMS - 86

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	6			2	2	1					1	14
2	5	1		2	4	2	4					1	19
3	5	1			4	11	2		1	1	2	8	35
4	6				3	14			2	3	4	18	50
5	6				1	5			1	1	8	12	34
6					3	1				3	1	3	11
7											1	1	2
≥ 8													
<b>Totals</b>	<b>24</b>	<b>8</b>		<b>2</b>	<b>17</b>	<b>35</b>	<b>7</b>		<b>4</b>	<b>8</b>	<b>16</b>	<b>44</b>	<b>165</b>

CALMS - 83

# Frequency Tables XV to XVIII for Grytviken, South Georgia, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	3	1		6	3						3	17
2	2	2				3					1	1	9
3	6	1			4	1	1				1	1	15
4	8	4			1					3	4	8	28
5	4				1	2				1	7	17	32
6	2				1	2				1	2	4	12
7	1					1				3			5
= 8													
> 8													
Totals	24	10	1		13	12	1			8	15	34	118

CALMS - 62

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	7		4	8	1			1	4	3	7	39
2	3	5	1	3	2								14
3	11	4	1		2					1	1	1	21
4	24	6		1		1	1			2	6	15	56
5	4	1								1	3	11	20
6	1							2		3	4	6	16
7										1	2	1	4
= 8								2					2
> 8													
Totals	47	23	2	8	12	1	1	3	3	12	19	41	172

CALMS - 76

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	5		5	7	3	2				2		27
2	1	4		2	1		1				2	2	13
3	6	4	1		1	1				1	2	3	19
4	13	2			3			1	1	7	15	24	66
5	7	2			3					5	12	21	50
6	2									2	8	16	28
7										1	4	2	7
= 8											2	1	3
> 8													
Totals	32	17	1	7	15	4	3	1	1	16	47	69	213

CALMS - 27

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1		4	4	5	1	1		3	1	1	24
2	4			5	4	1		1			2	3	20
3	12	7		8	7		1		2		2	10	49
4	13	3		3	1					8	10	25	63
5	6									2	6	12	26
6	1	1						1	2	6	6		17
7													
= 8													
> 8													
Totals	39	12		20	16	6	2	2	3	15	27	57	199

CALMS - 49

No observations at 0100 or 0400 in September.

Frequency Table XIX for Grytviken, South Georgia, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	35	33	5	23	43	20	6	8	4	28	21	26	252
2	42	16	5	35	41	14	12	4	6	17	18	16	226
3	105	33	6	30	51	25	4	3	10	23	41	85	416
4	125	25		6	27	20	1	4	18	61	124	231	642
5	59	4			7	7			7	21	90	149	344
6	10	1			4	3			5	26	46	53	148
7	1					1			3	9	17	8	39
= > 8								2		3	7	2	14
Totals	377	112	16	94	173	90	23	21	53	188	364	570	2081

CALMS 779.

No observations at 0100 or 0400 in September.

Frequency Table XX for Grytviken, South Georgia, 1959.

MONTH	RAINFALL (mms.) : Number of days of <sup>1</sup>																																												
	Nil	Trace	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Nil - 0.9	1.0 - 1.9	2.0 - 2.9	3.0 - 3.9	4.0 - 4.9	5.0 - 5.9	6.0 - 6.9	7.0 - 7.9	8.0 - 8.9	9.0 - 9.9	Nil - 9.9	10.0 - 14.9	15.0 - 19.9	20.0 - 24.9	25.0 - 29.9	30.0 - 34.9	35.0 - 39.9	40.0 - 44.9	45.0 - 49.9	50.0 - 54.9	55.0 - 59.9	60.0 - 64.9	65.0 - 69.9	70.0 - 74.9	75.0 - 79.9	< = 80.0								
January	2	9	2	3	1		2		1			20	2	3		1			1	1	1		29	1				1																	
February	3	7	1			1	1	2				15	3	4	1		1		1				25	1	1	1																			
March	5	8	2			1	1	1	1	1	2	22	4		2		1						29	1	1																				
April	3	1	3	2		1		2				12		3	4	4	2	1	1				27	2																					
May	5	3	1		1						2	12	2	6		1	1		1				23	3	2		1																1		
June	9	9	1	1			1				1	22	2	1	1	1	1						28	1		1																			
*July	7	7	1	2		1						18		1									19		1	1			1																
*August	3	7	1	3	2	1		1				18	1		1	2			1		1		24			1																		1	
*September	8	3	1		3	1		1		1		18	2	1		1		1					23	3	1																				
*October	11	10	2		1						1	25											25					2																	
*November	2	4	3	1			1	2				13	3	3		1	1		2				23	1		1																			
December	4	11	4				1			1	1	23	3		1								27	3	1																				
Year	62	79	22	12	8	6	7	9	3	6	4	218	22	22	10	11	7	2	7	1	2	302	16	7	4	2	3	1																	2

\* Incomplete observations in months marked.

Means and Extremes Table I for Signy Island, South Orkneys, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0000	0300	0600	0900	1200	1500	1800	2100		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	982.6	1000.5	5th	962.3	9th	32.0	31.9	32.2	32.7	33.0	32.9	32.5	32.2	32.4	35.6	29.9	<u>53</u>	<u>25th</u>	25	5th
February	985.6	1001.1	18th	964.7	24th	30.8	30.4	30.9	31.4	32.6	32.9	31.3	31.9	31.5	35.0	28.6	48	23rd	24	18th
March	991.5	1006.9	13th	960.1	7th	32.8	32.1	32.5	33.3	33.7	33.3	32.7	32.7	32.9	37.1	29.5	48	15th	23	9, 25, 31
April	990.6	1015.6	13th	957.5	7th	21.5	21.8	21.9	22.1	22.8	22.4	22.4	21.5	22.1	26.7	16.6	34	17th, 18th	-5	30th
May	985.9	1014.6	11th	960.2	28th	21.1	21.0	20.5	21.1	21.0	20.9	20.1	19.9	20.7	26.5	14.4	37	15th, 18th	-5	9th
June	1001.3	1019.5	17th	971.5	2nd	11.4	11.8	12.2	12.3	13.6	13.8	13.1	12.4	12.6	21.7	2.2	41	19th, 20th	-23	9th
July	993.1	1020.4	28th	971.9	18th	-0.1	0.1	1.1	0.5	2.7	2.3	1.0	1.2	1.1	13.5	-10.0	35	8th	<u>-20</u>	<u>10th</u>
August	995.4	<u>1021.0</u>	<u>19th</u>	963.5	5th	9.3	9.3	7.6	8.2	9.4	10.4	10.6	9.7	9.3	17.4	1.1	35	20th	-16	3rd, 17th
September	991.5	1012.5	9th	967.3	25th	20.4	20.5	18.9	20.4	22.1	21.5	21.2	21.2	20.8	28.6	12.9	40	23rd	-11	5th
October	993.7	1013.2	10th	972.6	2nd	25.9	25.4	25.3	26.4	27.9	28.4	27.2	26.1	26.6	31.3	20.7	40	2nd	8	4th
November	978.4	1004.2	18th	<u>949.9</u>	<u>5th</u>	28.5	29.9	28.3	29.2	29.6	29.7	29.0	28.3	29.1	32.4	25.3	43	26th	19	17th
December	989.2	1011.1	10th	953.7	2nd	30.3	30.2	30.6	31.9	<u>32.3</u>	32.6	31.7	30.9	31.3	34.6	28.4	43	11th, 17th	24	21st
Total	11878.8	12140.6	—	11555.2	—	263.9	264.4	262.0	269.5	280.7	281.1	272.8	268.0	270.4	340.4	199.6	497	—	34	—
Mean	989.9	1011.7	—	962.9	—	22.0	22.0	21.8	22.5	23.4	23.4	22.7	22.3	22.5	28.4	16.6	41.4	—	2.8	—

Means and Extremes Table II for Signy Island, South Orkneys, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.) <sup>1</sup>				
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE	
	0000	0300	0600	0900	1200	1500	1800	2100		0000	0300	0600	0900	1200	1500	1800		2100	REC.					EST.
January	88	87	85	85	85	84	85	87	86	7.7	7.9	7.7	7.5	7.5	7.5	7.5	7.7	7.6	2.1		18.1			
February	84	85	84	82	80	79	85	84	83	7.4	7.8	7.8	7.6	7.5	7.4	7.6	7.5	7.6	1.7		15.5			
March	87	89	89	86	87	87	89	89	88	6.9	7.1	7.5	7.4	7.1	7.0	7.5	7.1	7.2	1.7		12.7			
April	85	83	83	84	83	84	82	85	84	7.1	7.1	7.0	7.2	7.3	7.6	7.6	7.4	7.3	0.9		9.8			
May	81	81	83	84	84	83	84	83	83	6.1	6.1	6.3	6.7	6.9	6.6	5.3	5.9	6.2	0.6		7.2			
June	83	83	85	86	85	87	85	83	85	5.3	6.7	6.0	6.3	6.6	6.6	6.7	6.0	6.3	0.5		5.7			
July	77	82	80	86	80	82	81	80	81	5.2	4.2	5.0	5.9	6.1	6.2	5.4	4.8	5.3	1.0		6.4			
August	84	85	82	83	83	83	85	84	84	5.0	5.5	5.9	6.5	6.4	6.2	6.3	5.2	5.9	1.5		8.8			
September	89	91	87	85	84	87	88	89	87	6.5	6.7	7.1	6.9	6.8	6.7	6.9	6.5	6.8	1.9		11.5			
October	88	88	90	87	84	84	87	87	87	6.4	7.0	6.7	6.9	6.7	6.3	5.7	5.7	6.4	3.4		14.4			
November	86	87	88	85	85	83	85	85	85	7.4	7.2	7.0	7.2	7.3	7.5	7.4	7.5	7.3	2.8		17.2			
December	89	89	88	86	88	87	88	90	88	7.5	7.8	7.1	7.1	7.5	7.8	7.6	7.3	7.5	1.9		18.9			
Total	1021	1030	1024	1019	1008	1010	1024	1026	1021	78.5	81.1	81.1	83.2	83.7	83.4	81.5	78.6	81.4	20.0		146.2	-	-	
Mean	85	86	85	85	84	84	85	85	85	6.5	6.8	6.8	6.9	7.0	6.9	6.8	6.5	6.8	1.7		12.2	-	-	



Frequency Table I for Signy Island, South Orkneys, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9	1039.9
January						7	14	23	46	54	61	25	16	2							
February						1	4	15	24	57	54	54	10	5							
March						4	5	10	26	19	36	43	30	58	17						
April					1	5	5	12	30	31	35	20	36	36	15	10	4				
May						6	14	21	47	55	29	13	23	11	15	14					
June								3	12	2	5	34	27	75	35	40	7				
July								2	30	39	37	41	39	23	14	6	15	2			
August						1	2	3	14	51	34	36	17	17	15	38	16	4			
September								6	17	20	49	31	21	15	30	38	13				
October								3	13	40	45	32	35	50	19	11					
November			1	5	24	14	29	31	30	28	17	15	31	15							
December				1	5	5	6	7	21	26	61	50	22	18	14	12					
Year			1	6	30	43	85	147	313	451	445	384	301	340	182	144	42	6			



Frequency Table III for Signy Island, South Orkneys, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																			
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	=	>
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100	
January										1	6	8	19	25	35	57	53	36		8
February									1	1	11	18	21	27	38	46	24	28		9
March												5	9	23	48	60	47	37		19
April										1	5	10	26	34	46	54	42	22		
May									1	3	5	6	14	42	64	63	38	12		
June							1			2	1	4	15	23	60	73	37	24		
July								2		1	1	16	27	51	76	42	22	10		
August									1	3	5	8	18	34	65	47	34	33		
September							1					2	2	9	27	32	62	41	64	
October								2	2			2	6	21	14	40	42	59	60	
November				1						4	5	9	15	25	33	51	46	50		1
December												3	16	17	42	57	43	70		
Total				1			2	4	5	16	43	95	210	342	579	654	486	446		37
Mean				—			—	—	—	1	4	8	17	29	48	55	41	37		3

# Frequency Table IV for Signy Island, South Orkneys, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>									LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud					
	< 40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= > 40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	0 to 30	30 to 60	60 to 120	120 to 300		300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000
January	1		4	11	5	33	49	53	92	5	7	13	44	167	12	12	2	8	54	88	69	10	5		12	2	8	52	67	52	5	3			
February	2		3	10	5	24	24	34	122	3	11	15	59	127	9	9	1	6	30	62	99	14	3		9	1	4	26	47	65	7	3			
March			3	10	9	34	42	44	106	10	19	18	55	135	11	12	3	16	53	62	82	10	6	2	12	3	15	44	46	45	6	1	1	2	
April	2	2	10	17	21	29	48	31	80	11	14	12	37	131	35	35	1	3	37	64	77	12	7	3	35	1	3	32	56	61	6	5	1	1	
May	2	1	11	14	19	24	38	41	98	25	33	32	65	72	21	21	4	3	33	46	90	26	13	2	21	2	3	23	37	40	10	6	1	10	
June			3	9	17	12	42	30	45	82	41	27	24	33	107	8	11	7	6	28	77	58	12	21	4	10	4	1	23	62	26	4	8	1	16
July			1	17	14	12	26	41	36	101	64	23	24	32	90	15	17	3		22	57	61	24	19	4	15		18	46	40	6	4		41	
August	1	1	17	19	15	32	35	45	83	36	26	32	35	110	9	10	3	1	29	71	69	29	11		9	2		24	53	42	11	1		25	
September	5	1	6	13	8	46	44	56	61	10	23	23	54	120	10	14	3	1	23	72	95	22	5		10	2	1	18	60	60	14	1		5	
October		1	3	9	6	21	33	70	105	28	20	22	50	122	6	6	1	3	42	88	74	6	9	2	6		2	34	65	44	4	3	1	17	
November	1	2	5	15	19	33	26	54	85	4	18	14	46	153	5	5		6	40	91	88	6	3		5		4	37	78	59	5	1		1	
December			2	12	21	28	59	56	70		17	21	55	154	1	1	5	15	83	37	89	18			1	1	13	61	23	49	10				
<b>Total</b>	-	14	12	90	161	152	372	469	505	1085	237	238	250	565	1488	142	153	33	68	474	815	951	189	102	17	145	18	54	392	640	583	88	36	5	118
<b>Mean</b>	-	1	1	7	13	13	31	39	47	90	20	20	21	47	124	12	13	3	6	39	68	79	16	9	1	12	1	5	33	53	49	7	3	-	10

Frequency Table V for Signy Island, South Orkneys, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 16	10 & 16 FOG		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE > 6	WIND FORCE > 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F	=	=	=																		
January	2			3				17	5	12	20	6	14		26				2	4	1	3			
February	1			4				14	5	5	24	1	6		26				2	8	1				
March	5			5				24	11	11	19	4	15		23				5	3	2	1			
April			1					19	10		29		2		23				17		5	1			
May		1	1					20	7	5	27	7	2		14	1			16		5	3			
June		3	6					15	3	1	20	3	9		12				15		8				
July		7	24					10	2		19	2	3		14	2			18		4	3			
August		7	17					14	2	1	24	1			13	2			18		8	6			
September		1	4					21	7	7	27	6	8		16				17		4	2			
October								21	6	5	24	7	12		19	1			21		4				
November				2				21	2	6	27	12	16		24				22		3	7			
December				2				16		4	28	2	11		25				7		1	1			6
Total	8	19	53	16				212	60	57	288	51	98		235	6			160	15	46	27			6
Mean	1	2	4	1				18	5	5	24	4	8		20	1			13	1	4	2			1

Frequency Table VI for Signy Island, South Orkneys, 1959.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :- <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	16.0	11	52	122	44	19	4	11	3	4	10	6	5	13	33	65	68	7	
February	14.1	9	50	69	69	27	8	4	2	6	40	5	2	11	14	46	55	4	
March	18.2	25	69	87	44	23	4	3	7	4	5	7	3	4	33	58	91	6	
April	16.8	26	54	67	70	23				5	51	6	7	6	26	80	33	3	
May	16.5	15	71	83	53	26	1	12	3	3	12	6	1	3	10	121	42	8	
June	9.3	5	33	57	59	86	2	13	1	4	15	4	6	11	9	48	39	2	
July	9.2	5	27	62	65	89		2		1	21	8	10	5	6	54	49	3	
August	11.1	9	45	50	70	74	2	13	9	7	15	9	9	11	15	43	32	9	
September	15.5	13	61	83	51	32	1	2	1	3	5	8	5	3	11	67	90	12	
October	17.3	7	78	106	39	18	2	4		4	10	1	4	5	12	96	81	11	
November	16.8	4	67	109	51	9	6	3		2	9	3	6	8	36	67	87	4	
December	13.1		54	93	66	35	1	4	1	3	39	5	4	17	25	58	54	2	
Total	173.9	129	661	988	681	461	31	71	27	46	232	68	62	97	230	803	721	71	
Mean	14.5	11	55	82	57	38	3	6	2	4	19	6	5	8	19	67	60	6	

# Frequency Tables VII to X for Signy Island, South Orkneys, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1	1	2			1	1		1	1	8
2		1			1	2	1		1	2	2	1	11
3	1				2	1		1	3	10	6	1	25
4		2		1	4	3	2	7	15	19	18	3	74
5	1	1		1	1		1	1	7	18	17		48
6		3	2					2	4	8	16	1	36
7	1	1		1			1	1	2	6	3		16
≥ 8	1	3								2	5		11
Totals	4	11	3	4	10	6	5	13	33	65	68	7	229

CALMS - 19

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1					2	4	1		4		2	1	14
2					4	1		3	2	4	1	2	17
3	2				1	6	2	1	3	5	7	10	38
4					1	9	1	1	3	12	15		43
5	3				1	6			2	5	9		26
6	2	1	1		1	5			2	11	7	1	31
7		3	1			3				3	9		19
≥ 8	1					3				2	3		9
Totals	8	4	2	6	40	5	2	11	14	46	55	4	197

CALMS - 27

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1	1		-1				2			5
2					3	3	1		3		2	1	13
3	1		3	2	1	2	1		7	6	3		26
4	1				1	1		1	9	11	22		46
5					1			2	5	10	22	1	41
6		2	3	1				1	7	13	16		43
7	2								2	7	13	2	26
≥ 8		1								9	13	2	25
Totals	4	3	7	4	5	7	3	4	33	58	91	6	225

CALMS - 23

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1						3	1		4	1		1	10
2					1	6	2	1		3	2		15
3					2	13	2	2	4	5	12	5	45
4					2	11	1	1	1	7	16	5	44
5						5		1		5	9	2	23
6						4				1	13	2	21
7						2				3	17	11	33
≥ 8						10				1	9	6	26
Totals					5	51	6	7	6	26	80	33	217

CALMS - 23

# Frequency Tables XI to XIV for Signy Island, South Orkneys, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				1	1	1							3
2		2	1	2	3	1	1			3	1	1	15
3		2	2		7	3		1	1	13	6		35
4	1	3				1			2	35	8	1	51
5		3							1	16	10	2	32
6		1			1				3	29	11	3	48
7		1						1	1	16	3	1	23
≥ 8								1	2	9	3		15
Totals	1	12	3	3	12	6	1	3	10	121	42	8	222

CALMS - 26

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		2		2	3		3	3	2	3			18
2		2			2		1	3	2	2	2		14
3		1	1		2	4	1	4		6	8		27
4	1	6					1	1	1	15	11		36
5		1			3					8	8	1	21
6	1	1		1	3				2	10	5	1	24
7				1	1				2	4	1		9
≥ 8					1						4		5
Totals	2	13	1	4	15	4	6	11	9	48	39	2	154

CALMS - 86

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1			2	1	4	2	1	4	1		16
2					4	1	2			2	3		12
3				1	8	6	2	1	1	8	8	2	37
4		1			5		2	1	2	18	7		36
5					2				2	11	11		26
6								1		9	10		20
7										2	5		7
≥ 8											4	1	5
Totals		2		1	21	8	10	5	6	54	49	3	159

CALMS - 89

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1				1	2	2		1	2	1	2		11
2	1			2		1	3	1	1	2	1		12
3		1	2	3	6	5	4	4	3	13	4	2	47
4		5		1	4	1	2	4	1	9	5		32
5	1	2	2		2			1	2	2	5	1	18
6		4	4		1				4	11	6	2	32
7			1						2	3	6	1	13
≥ 8		1								2	3	3	9
Totals	2	13	9	7	15	9	9	11	15	43	32	9	174

CALMS - 74



# Frequency Tables XV to XVIII for Signy Island, South Orkneys, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			1	2		2	1	1		5	1		13
2	1			1	2				1	2			7
3					2	4	4	2	2	9	5	3	31
4		1			1	2			7	16	21	1	49
5									1	11	19	3	34
6										16	21	3	40
7		1								5	15		21
>= 8										3	8	2	13
Totals	1	2	1	3	5	8	5	3	11	67	90	12	208

CALMS - 32

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1	1			1	2	2	2		9
2					1		1	2	1	6	2	1	14
3					1		2		1	9	2		16
4			1		1	3	1		1	5	21	15	48
5			3					1	2	24	23	2	58
6										26	15	3	46
7		2					1		1	7	18	3	32
>= 8										1	4	2	7
Totals	2	4			4	10	4	5	12	96	81	11	230

CALMS - 18

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1		2	1		3	2			9
2		1			2				1	1			5
3	3	2		1	4	1	3	2	6	8	6	1	37
4	3				1		1		9	15	23	2	54
5					1		1	4	6	18	24	1	55
6					1			1	11	15	22		50
7								1		7	9		17
>= 8									1	3			4
Totals	6	3		2	9	3	6	8	36	67	87	4	231

CALMS - 9

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1					2					2	1		5
2	1	1			3	3	1	6	5	4	2		28
3		1	1	1	3	1	1	7	6	6	6		33
4					10	1	2	4	8	14	13	1	54
5			1		9				3	16	10		39
6					6				3	16	19	1	45
7					6						3		9
>= 8													
Totals	1	4	1	3	39	5	4	17	25	58	54	2	213

CALMS - 35

Frequency Table XIX for Signy Island, South Orkneys, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		3	3	12	17	13	10	13	15	24	9	2	121
2	3	7	1	9	30	12	13	16	17	31	18	6	163
3	7	7	9	12	55	31	21	29	40	107	69	10	397
4	6	20		6	48	12	13	21	69	201	163	8	567
5	5	11	2	2	33		3	9	36	148	160	12	421
6	3	12	10	3	23			5	37	177	150	16	436
7	5	6	2	2	12		2	3	13	77	96	7	225
= > 8	2	5			14			1	3	38	56	10	129
Totals	31	71	27	46	232	68	62	97	230	803	721	71	2459

CALMS 461.

Means and Extremes Table I for Hope Bay, Grahamland, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	982.4	1004.5	4th	961.6	11th	29.4	29.3	31.5	33.9	34.5	33.8	31.4	29.9	31.7	36.9	26.8	45	11th, 7th	22	28th
February	986.1	1001.9	14th	961.6	12th	25.0	25.2	26.8	27.9	28.4	27.4	25.9	25.1	26.5	31.4	21.2	47	19th	14	18th
March	988.2	1002.5	11th	967.5	1st	25.2	25.5	25.9	27.6	28.4	28.1	26.7	26.0	26.7	33.2	20.5	<u>51</u>	<u>17th</u>	4	9th
April	993.3	1018.5	12th	968.1	6th	15.9	15.8	15.7	17.3	17.5	15.9	14.3	15.7	16.0	22.8	8.9	46	16th	-5	26th
May	983.5	1009.1	10th	962.9	21st	13.3	12.8	12.8	12.2	12.5	11.8	11.7	11.9	12.4	20.0	4.9	44	11th	-9	30th
June	1002.1	1016.7	7th	987.6	3rd	9.8	9.8	9.6	10.7	11.3	10.4	9.5	9.1	10.0	18.2	1.9	45	27th	-14	21st
July	992.5	<u>1018.8</u>	<u>28th</u>	961.5	17th	2.3	2.3	0.2	1.1	1.5	1.8	2.8	2.7	1.8	12.3	-6.3	47	4th	<u>-15</u>	<u>26th</u>
August	995.0	1013.0	16th	968.4	26th	7.3	6.6	6.1	6.7	6.9	6.6	7.5	8.1	7.0	13.5	1.1	46	26th	-13	1st, 25th
September	986.0	1006.4	8th	<u>946.7</u>	<u>28th</u>	12.6	12.8	12.7	14.3	16.0	15.5	14.7	14.5	14.1	24.0	4.8	42	11th	<u>-15</u>	<u>3rd, 5th</u>
October	987.9	1015.1	10th	952.5	1st	24.1	24.3	26.4	27.9	28.7	26.7	26.0	25.6	26.2	33.7	18.6	50	12th	-2	2nd
November	976.1	1009.1	20th	949.4	28th	23.9	24.7	27.0	28.7	29.4	28.8	26.2	23.0	26.5	33.4	19.8	50	21st	10	5th
December	990.2	1009.1	29th	957.5	1st	28.7	29.8	31.8	33.5	33.7	33.1	31.4	29.3	31.4	36.5	27.0	50	11th	22	19th
Total	11863.3	12124.7	—	11545.3	—	217.5	218.9	226.5	241.8	248.8	239.9	228.1	220.9	230.3	315.9	149.2	563	—	-1	—
Mean	988.6	1010.4	—	962.1	—	18.1	18.2	18.9	20.1	20.7	20.0	19.0	18.4	19.2	26.3	12.4	46.9	—	-0.1	—

Means and Extremes Table II for Hope Bay, Grahamland, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.) <sup>1</sup>							
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>							1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE				
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000		2300	REC.					EST.			
January	81	81	79	74	72	73	80	81	78	6.0	6.4	6.2	6.4	6.0	6.0	6.1	6.1	6.1	6.0		19.1						
February	82	80	78	78	78	79	81	83	80	6.4	6.3	6.2	6.3	6.5	6.6	6.5	6.4	6.4	4.6		15.9						
March	80	79	81	80	75	77	78	79	79	5.1	6.2	6.3	6.8	6.6	6.2	5.9	5.5	6.1	3.8		12.7						
April	74	74	72	72	73	72	76	73	73	5.2	5.0	5.3	5.1	6.1	5.1	4.2	4.0	5.0	3.5	Not recorded	9.5	Not recorded	Not recorded				
May	79	80	76	77	76	78	78	81	78	5.9	6.2	6.5	6.5	6.4	5.7	5.2	6.1	6.1	4.1		6.6						
June	82	85	84	82	83	84	82	82	83	5.2	6.2	6.2	6.0	6.1	5.0	4.7	4.7	5.5	0.6		4.7						
July	81	81	82	81	83	86	81	79	82	4.5	5.2	5.0	5.3	5.9	5.0	5.8	4.9	5.2	0.9		5.6						
August	83	83	84	82	81	81	82	78	82	6.1	6.6	6.8	6.8	7.1	7.0	6.4	5.5	6.5	1.3		8.4						
September	75	75	77	75	72	74	74	74	75	5.8	5.2	6.2	5.6	6.0	6.3	5.5	4.3	5.6	3.0		11.5						
October	75	75	73	72	71	74	75	75	74	4.5	5.1	5.6	5.3	4.9	5.6	5.5	4.4	5.1	6.7		14.7						
November	80	78	74	73	72	72	75	77	75	5.6	5.7	5.5	5.5	5.7	5.5	5.1	5.5	5.5	7.6		17.7						
December	77	75	72	69	70	71	73	77	73	6.6	6.4	6.1	6.1	6.1	5.5	5.7	6.4	6.1	6.6		20.4						
Total	949	946	932	915	906	921	935	939	932	66.9	70.5	71.9	71.7	73.4	69.5	66.6	63.8	69.2	45.7					146.8			
Mean	79	79	78	76	75	77	78	78	78	5.6	5.9	6.0	6.0	6.1	5.8	5.5	5.3	5.8	3.8					12.2			

Frequency Table I for Hope Bay, Grahamland, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0	1035.0
	to 939.9	to 944.9	to 949.9	to 954.9	to 959.9	to 964.9	to 969.9	to 974.9	to 979.9	to 984.9	to 989.9	to 994.9	to 999.9	to 1004.9	to 1009.9	to 1014.9	to 1019.9	to 1024.9	to 1029.9	to 1034.9	to 1039.9
January						7	14	17	44	75	45	21	16	9							
February						11	15	11	12	29	48	63	28	7							
March							2	8	33	36	54	71	34	10							
April							3	11	20	32	32	27	35	46	17	6	11				
May						3	14	57	52	34	10	14	36	14	14						
June											16	25	55	60	38	32	14				
July						2	1	2	16	49	55	32	27	23	17	9	15				
August							3	9	12	27	33	24	40	49	45	6					
September			3		3	12	10	23	27	22	38	38	21	35	8						
October				2	2	6	10	24	29	31	24	35	30	36	15	3	1				
November			5	27	12	8	23	42	38	21	6	24	20	8	6						
December					6	6	10	19	9	27	40	26	38	42	25						
Year			8	29	23	55	105	223	292	383	401	400	380	339	185	56	41				



Frequency Table III for Hope Bay, Grahamland, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January						1	2	3	9	13	13	17	26	42	39	41	24	18	
February									4	7	11	14	24	37	48	34	37	6	2
March						1		4	6	13	9	11	41	46	40	23	25	22	7
April							3	6	10	18	14	31	38	50	23	23	21	3	
May			1	1		1	4	4	6	7	12	7	29	27	63	59	16	11	
June							2	1		2	3	8	19	40	47	55	48	15	
July		1	1		1		2	3		2	9	23	18	16	50	44	50	27	1
August							2	3	3	8	5	13	14	27	64	45	49	18	
September					2	1	2	3	4	8	17	37	37	42	36	39	8	4	
October				3	3	2	7	9	7	14	16	22	34	19	41	29	24	18	
November						1	5	3	9	15	22	25	18	29	47	38	12	16	
December						1	4	10	9	10	26	15	41	45	46	29	11		1
Total		1	2	4	6	8	31	48	67	117	157	223	339	420	544	459	325	158	11
Mean		—	—	—	1	1	3	4	6	10	13	19	28	35	45	38	27	13	1

# Frequency Table IV for Hope Bay, Grahamland, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud						
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	>40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS										
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	=	>	0 to 30	30 to 60	60 to 120	120 to 300		300 to 600	600 to 1200	1200 to 2400	2400 to 6000	=	>
January	1	2	2	19	4	9	23	31	67	90	25	80	44	34	45	20	24	1	3	21	68	95	11	20	3	20				14	22	5	1	1		2	
February	6	6	2	13	11	7	22	36	59	62	1	62	45	46	50	20	24		1	40	44	102	12	1		20			25	13	19						
March	10	6	3	26	8	15	42	51	61	26	12	72	51	26	50	37	50	6	44	61	61	14	7	1	38	6	20	12	11	3					4		
April			2	22	15	6	25	29	77	64	36	106	23	24	38	13	20	9	28	57	74	16	25	4	13	6	13	11	16		1	1			7		
May		22	6	24	8	32	46	46	53	11	32	68	35	11	72	30	31	2	27	77	67	12	23	1	31	2	18	28	21	1	2	1			8		
June		2		26	23	12	59	46	51	21	33	63	36	21	69	18	28	6	44	73	51	5	14	5	18	2	31	31	10	1	1	4			14		
July	3	5	5	34	8	16	43	38	74	22	29	90	26	20	48	35	44	8	35	46	65	21	16	3	35		13	19	16	3	5	1			10		
August		10	11	42	16	18	61	23	36	31	31	49	25	23	85	35	40	1	38	88	45	5	21	2	35	1	26	49	8	5	6	1			8		
September	2		2	37	12	9	49	83	42	4	18	89	22	18	86	7	24	7	59	72	54	6	5	3	9	5	45	26	4	2	1				10		
October	5	1	3	16	8	4	48	64	73	26	20	137	29	16	38	8	23	8	56	77	51	13	13	4	11		7	23	3	2	2	6	1		3		
November	1	4	2	15	3	2	28	43	55	87	7	110	60	17	37	9	19	3	3	34	77	86	11	6	10	3	2	16	11	5	1	3			1		
December		2		2	6	4	32	77	77	48	17	81	36	37	75	2	4	2	25	80	112	8	16	1	2		1	15	29	19	2	1					
<b>Total</b>	<b>28</b>	<b>60</b>	<b>38</b>	<b>276</b>	<b>122</b>	<b>134</b>	<b>478</b>	<b>567</b>	<b>725</b>	<b>492</b>	<b>261</b>	<b>1007</b>	<b>432</b>	<b>293</b>	<b>693</b>	<b>234</b>	<b>331</b>	<b>4</b>	<b>56</b>	<b>451</b>	<b>820</b>	<b>863</b>	<b>134</b>	<b>167</b>	<b>27</b>	<b>242</b>	<b>3</b>	<b>32</b>	<b>259</b>	<b>254</b>	<b>136</b>	<b>21</b>	<b>27</b>	<b>9</b>	<b>67</b>		
<b>Mean</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>23</b>	<b>10</b>	<b>11</b>	<b>40</b>	<b>47</b>	<b>60</b>	<b>41</b>	<b>22</b>	<b>84</b>	<b>36</b>	<b>24</b>	<b>58</b>	<b>19</b>	<b>28</b>	<b>-</b>	<b>5</b>	<b>38</b>	<b>68</b>	<b>72</b>	<b>11</b>	<b>14</b>	<b>2</b>	<b>20</b>	<b>-</b>	<b>3</b>	<b>22</b>	<b>21</b>	<b>11</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>6</b>		



Frequency Table V for Hope Bay, Grahamland, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>0</sup>	<sup>0</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>10</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>11</sup>	<sup>11</sup>	<sup>12</sup>	<sup>13</sup>	<sup>14</sup>	<sup>10 &amp; 15</sup>	<sup>10 &amp; 16</sup> FOG		<sup>10 &amp; 17</sup> HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE <sup>6</sup> $\wedge$	WIND FORCE <sup>8</sup> $\wedge$	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32 F	<5°F	<-4°F	>41°F	=	=	=																		
January				5				13	6		17				16	2			9		2	6			
February				1				13	8	1	21				17				13			11			
March				11				24	13	4	21		4		14				12		5	9			
April			1	1				19	13		17				6	1			11		2	8			
May		7	7	2	Not recorded	Not recorded	Not recorded	16	6	2	24	1			14				18		1	15			
June		1	5	1				12	5		18				11	1			14		3	7			
July		12	20	2				18	12		22				12	1			23		5	14			
August		6	10	1				20	12		22				23				26			19			
September		3	10	1				17	4		20				15	3			16		3	12			
October	2			7				19	4	3	16	3			10				12		4	6			
November				4				19	5	2	19	1			7	1			11		1	6			
December				6				8			15	2	4		14				2		2	1			
Total	2	29	53	42				198	88	12	232	7	8	0	159	9			167	0	28	114	0	0	0
Mean	-	2	4	3				17	7	1	19	1	1	-	13	1			14	-	2	9	-	-	-

## Frequency Table VI for Hope Bay, Grahamland, 1959.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :-																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	12.2	18	29	58	125	18	15	15	13	15	13	22	24	75	15	13	6	4
February	15.5	29	31	53	104	7	17	5	2	4	7	26	35	84	12	14	5	6
March	20.1	50	51	69	68	10	13	6	5	5	6	14	17	90	30	27	11	14
April	16.3	40	34	54	89	23	2	2	3	4	11	32	23	97	26	11	1	5
May	14.7	21	37	82	86	22	9	5	8	1	6	16	52	68	23	18	13	7
June	10.9	22	25	52	125	16	15	7	11	5	15	29	41	61	7	7	9	17
July	14.9	35	36	46	99	32	5	2	5	8	11	34	55	68	17	4	6	1
August	19.6	55	45	66	67	15	26	8	3	5	11	11	36	89	21	4	1	18
September	12.0	10	39	65	93	33	15	2	3	10	12	14	29	33	37	17	18	17
October	14.5	9	52	79	87	21	13	7	6	7	13	16	25	49	38	29	16	8
November	14.9	11	39	101	81	8	10	5	5	10	13	24	28	64	38	21	9	5
December	11.1	19	97	117	15	95	16	4	11	21	31	37	32	20	19	6	11	
<b>Total</b>	176.7	300	437	822	1141	220	165	80	68	85	139	269	402	810	284	184	101	113
<b>Mean</b>	14.7	25	36	69	95	18	14	7	6	7	12	22	33	67	24	15	8	9

# Frequency Tables VII to X for Hope Bay, Grahamland, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	8	5	4	9	5	5	2	1	1	3	1	2	46
2	3	3	2	1	1	7	4	5	1	4	2	1	34
3	3	4	6	1	1	5	5	11	5	3	1		45
4	1	3	1	2	4	3	3	10	3	2	2	1	35
5				2	2		4	11	3	1			23
6						1	1	13	1				16
7						1	1	10	1				13
>= 8						4	4	14					18
Totals	15	15	13	15	13	22	24	75	15	13	6	4	230

CALMS - 18

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	5	3		2	1	5	10	2	1	2			31
2	5	1		1	3	8	4	3	1	2		1	29
3	2		2	1	2	6	8	12		3	5	3	44
4	2				1	3	6	14	2	3		1	32
5	1	1				2	3	9	4	1			21
6	2					2	2	8	3	2			19
7							1	8	1	1			12
>= 8							1	28					29
Totals	17	5	2	4	7	26	35	84	12	14	5	6	217

CALMS - 7

TABLE IX — MARCH.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2			2	4	2	2	4	1		1	2	20
2	2	1	2			3	2	1	2	1	1	2	17
3	6	2	2	2	1	3	1	4	1	3	2	4	31
4	2	2	1	1	1		2	3	6	7	4	6	35
5	1					2	4	9	10	7	1		34
6		1				2	3	12	4	8	2		32
7						2	2	13	1	1			19
>= 8							1	44	5				50
Totals	13	6	5	5	6	14	17	90	30	27	11	14	238

CALMS - 10

TABLE X — APRIL.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	2	3	4	7	8	7	8	2	1	1	1	46
2						6	1	6	2	1		1	17
3					2	11	7	4	2				26
4					2	5	5	13	10	3		3	41
5						1	1	9	1	1			13
6						1		11	5	1			18
7							1	9	3	3			16
>= 8							1	37	1	1			40
Totals	2	2	3	4	11	32	23	97	26	11	1	5	217

CALMS - 23

# Frequency Tables XI to XIV for Hope Bay, Grahamland, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		1	7	1	2	4	8	2	2	1	4		32
2	2	3				1	6	2	2	2	2	2	22
3	4	1	1			3	6	7	3	3	2	2	32
4	2				2	5	16	4	5	9	3	2	48
5	1				1	1	5	15	7	1	2	1	34
6					1	1	4	10	2	1			19
7						1	4	12		1			18
>= 8							3	16	2				21
Totals	9	5	8	1	6	16	52	68	23	18	13	7	226

CALMS - 22

TABLE XII — JUNE.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	5	1	7	1	4	6	12	5	2	2			45
2		3	3	2	6	9	4	5			1	4	37
3	5		1	2	4	11	9	3	1		3	4	43
4	3	2			1	3	8	7	4	3	2	8	41
5	1	1					2	5			1	1	11
6	1						3	8		2	1		15
7							2	7			1		10
>= 8							1	21					22
Totals	15	7	11	5	15	29	41	61	7	7	9	17	224

CALMS - 16

TABLE XIII — JULY.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	3	1	2	1	3	7	13	4	2		1		37
2	1		1	3	2	6	5	3	1	1	1	1	25
3		1	2	3	2	13	7	2	6	1			37
4	1			1	4	6	10	6	2	1	2		33
5						1	3	7	1		1		13
6						1	5	10	1				17
7							5	13	1				19
>= 8							7	23	3	1	1		35
Totals	5	2	5	8	11	34	55	68	17	4	6	1	216

CALMS - 32

TABLE XIV — AUGUST.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	1	1	2	1	5	4	4	5	3				26
2		3	1	2	4		1	1	1	3			16
3	3	2		1	2	5	2	2	4	1		3	25
4	11	2		1		1	11	5	4		1	6	42
5	10						3	6	3			2	24
6	1					1	6	12	1			4	25
7							3	11	3			3	20
>= 8							6	47	2				55
Totals	26	8	3	5	11	11	36	89	21	4	1	18	233

CALMS - 15

## Frequency Tables XV to XVIII for Hope Bay, Grahamland, 1959.

## WIND FORCES IN TWELVE 30' SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		1	3	3	5	5	6	5	2	1		33
2	3		1	3		2	2	3	2		1	3	20
3	6	1	1	3	5	3	3	7	2	3	1	5	40
4	3			1	4	3	4	4	7	5	7	7	45
5						1	3	1	8	3	3	1	20
6	1	1					5	6	10	1	3		27
7							1	3	3	3	2		12
>= 8							6	3				1	10
Totals	15	2	3	10	12	14	29	33	37	17	18	17	207

CALMS - 33

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	2	2	2	2	4	3	2	2		3	2	26
2	4	1		3	1	3	3	3		3	1		22
3	1		2	2	7	8	3	8	2	2	1	3	39
4	4	2	2		3	1	6	7	7	6	1	1	40
5	2	2					4	12	9	5	4	1	39
6							2	10	10	6	4	1	33
7							2	3	7	5	2		19
>= 8							2	4	1	2			9
Totals	13	7	6	7	13	16	25	49	38	29	16	8	227

CALMS - 21

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1	5	4	2	5	1	1	1			1	23
2	1			3	3	3	3			1		2	16
3	3	1		1	6	9	5	5	6	3	3		42
4	2	3		2	2	4	10	14	11	6	3	1	58
5	2					1	4	13	14	7	1	1	43
6						2	1	14	4	3	2		26
7							3	7	2	1			13
>= 8							1	10					11
Totals	10	5	5	10	13	24	28	64	38	21	9	5	232

CALMS - 8

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	4	4	1	2	2	3					1	20
2	4	4		1	7	4	1	2		1		5	29
3	9	8		7	7	13	8	2	6	3	2	3	68
4	8			2	5	7	13	10	5	8	4	2	64
5	1					5	6	9	7	5			33
6							6	5	2	2			15
7								4					4
>= 8													
Totals	25	16	4	11	21	31	37	32	20	19	6	11	233

CALMS - 15

Frequency Table XIX for Hope Bay, Grahamland, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	<i>to</i> 10	<i>to</i> 40	<i>to</i> 70	<i>to</i> 100	<i>to</i> 130	<i>to</i> 160	<i>to</i> 190	<i>to</i> 220	<i>to</i> 250	<i>to</i> 280	<i>to</i> 310	<i>to</i> 340	
1	35	21	37	31	40	57	70	40	22	11	12	9	385
2	25	19	10	19	27	52	36	34	12	19	9	22	284
3	42	20	17	23	39	90	64	67	38	25	20	27	472
4	39	14	4	10	29	41	94	97	66	53	29	38	514
5	19	4		2	3	14	42	106	67	31	13	7	308
6	5	2			1	11	38	119	43	26	12	5	262
7						4	25	100	22	15	5	4	175
=> 8							33	247	14	4	1	1	300
Totals	165	80	68	85	139	269	402	810	284	184	101	113	2700

CALMS 220.

Means and Extremes Table I for Admiralty Bay, South Shetlands, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	984.1	1006.0	4th	966.7	11th	30.9	31.0	31.9	33.0	33.0	33.1	32.0	31.3	32.0	35.9	29.4	43	6th	23	30th
February	986.2	1003.3	17th, 18th	959.4	11th	28.5	28.6	30.0	31.0	30.7	30.1	29.0	28.5	29.5	33.3	26.7	43	22nd, 23rd	22	4th
March	989.4	1006.4	11th	972.1	1st	31.0	30.5	31.7	31.8	32.1	31.8	31.5	30.9	31.4	35.9	27.2	47	12th	21	8th
April	995.7	1018.4	12th	972.9	6th	20.6	20.3	21.2	22.4	23.0	21.9	21.2	20.1	21.3	26.7	16.3	43	15th	5	28th
May	984.2	1014.3	10th	963.6	26th	19.9	21.0	20.5	20.6	19.8	19.4	19.3	19.7	20.0	25.9	14.5	38	12th	4	20th, 31st
June	1001.8	1017.5	7th	988.9	19th	18.8	19.1	19.1	20.9	19.5	19.4	19.5	19.3	19.5	25.9	12.9	39	27th	-12	8th
July	993.5	<u>1020.1</u>	<u>26th</u>	970.6	17th	10.3	9.8	9.1	9.0	8.5	8.6	8.3	9.7	9.2	20.6	-0.8	34	5th	<u>-21</u>	<u>26th</u>
August	994.7	1014.8	17th	970.0	24th	13.8	14.0	14.4	14.7	14.4	13.9	13.9	14.7	14.2	21.0	6.8	38	3rd	-15	2nd
September	987.4	1007.8	9th	949.4	28th	21.6	21.1	20.1	21.3	23.1	21.9	21.7	22.6	21.7	28.2	13.8	39	15th, 22nd	-9	5th
October	991.8	1018.5	10th	<u>947.8</u>	<u>1st</u>	26.3	26.6	28.0	29.1	29.6	29.1	28.0	27.1	28.0	33.5	21.8	46	11th	-1	4th
November	978.5	1011.3	20th	949.0	5th	27.2	27.1	28.4	30.4	30.4	29.9	28.3	27.2	28.6	33.5	24.2	45	21st	16	6th
December	991.1	1010.2	9th	962.2	2nd	31.1	32.0	32.9	33.7	34.3	33.8	32.7	32.6	32.9	36.5	29.4	<u>48</u>	<u>10th</u>	23	2nd
Total	11878.4	12148.6	—	11572.6	—	280.0	281.1	287.3	298.2	298.4	292.9	285.4	283.7	288.3	356.9	222.2	503	—	56	—
Mean	989.9	1012.4	—	964.4	—	23.3	23.4	23.9	24.9	24.9	24.4	23.8	23.6	24.0	29.7	18.5	41.9	—	4.7	—

Means and Extremes Table II for Admiralty Bay, South Shetlands, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	81	81	82	78	78	80	80	82	80	7.0	7.2	7.1	6.8	7.0	7.0	6.5	7.0	6.9	3.1		18.5			
February	81	83	79	77	80	80	80	78	80	6.7	7.0	7.1	6.7	7.1	7.0	7.1	6.5	6.8	2.9		15.7			
March	87	87	85	87	87	86	81	87	86	6.4	7.0	7.0	7.0	7.0	7.2	7.0	7.0	6.9	1.8		12.7			
April	84	85	83	82	79	82	83	86	83	5.8	5.9	6.4	6.0	6.6	6.3	4.5	5.0	5.8	1.6		9.7			
May	85	87	86	86	85	85	85	84	85	6.2	6.8	6.9	6.9	6.2	6.2	5.6	5.4	6.3	0.4	Not recorded	7.0			
June	86	87	86	85	85	86	83	85	85	5.2	5.9	6.4	6.5	6.4	5.4	5.0	5.2	5.7	0.0	Not recorded	5.3			
July	85	85	83	80	83	82	82	83	83	5.8	5.4	5.7	6.4	6.1	5.0	5.3	5.6	5.7	2.0	Not recorded	6.1			
August	82	81	82	82	82	82	83	82	82	5.9	5.6	6.4	6.7	6.9	7.0	5.8	6.1	6.3	0.9	Not recorded	8.6			
September	81	81	82	79	78	80	81	82	81	6.2	6.6	5.9	6.2	6.1	6.2	6.3	5.7	6.1	2.8	Not recorded	11.5			
October	82	81	81	80	80	82	83	83	81	5.4	5.8	6.5	6.5	6.1	6.4	6.6	5.3	6.1	4.5	Not recorded	14.5			
November	81	80	77	72	74	75	74	74	76	6.0	6.6	6.7	6.8	6.3	6.5	6.9	7.0	6.6	5.2	Not recorded	17.5			
December	82	79	77	74	75	76	73	81	77	6.9	7.0	6.9	6.4	6.5	6.3	6.5	6.3	6.6	3.8	Not recorded	19.5			
Total	997	997	983	962	966	976	968	987	979	73.5	76.8	79.0	78.9	78.3	76.5	73.1	72.1	75.8	29.0		146.6			
Mean	83	83	82	80	81	81	81	82	82	6.1	6.4	6.6	6.6	6.5	6.4	6.1	6.0	6.3	2.4		12.2			



Frequency Table I for Admiralty Bay, South Shetlands, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January								20	25	30	67	43	32	15	12	4					
February						2	8	22	10	17	12	55	53	30	15						
March									10	32	42	35	48	51	26	4					
April									3	9	25	47	31	34	48	22	9	12			
May							1	23	47	64	21	11	26	13	18	9	15				
June												5	49	75	30	24	37	20			
July									3	21	42	37	48	36	18	21	4	15	3		
August									7	11	34	34	51	28	28	34	21				
September				1	1	1	7	24	18	22	24	43	23	9	43	24					
October				2		3	1	9	21	22	36	18	27	13	34	41	16	5			
November				1	17	23	11	23	31	24	34	14	14	21	15	9	3				
December							6	8	19	13	25	40	31	39	37	29	1				
Year				4	18	29	34	120	194	265	362	382	433	364	324	221	106	52	3		



Frequency Table III for Admiralty Bay, South Shetlands, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 6																		
	< 15	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 to 94	95 to 99	= > 100
January																			
February										2	13	19	38	44	41	26	49	16	
March								1	8	13	17	35	37	36	32	27	15	3	
April							1			3	6	19	23	45	43	61	37	10	
May							1	2	6	15	11	26	18	33	36	63	25	4	
June									2	5	6	25	27	44	43	51	44	1	
July						1	1	1	1	7	4	15	20	38	61	52	36	4	
August						1	1	1	2	3	10	25	38	58	36	40	28	5	
September					2				2	4	8	7	20	48	54	47	38	15	5
October						1	2	1	5	4	10	27	48	53	42	24	20	1	
November							2	2	3	11	16	26	32	44	47	37	24	4	
December							1	2	5	17	29	49	43	46	27	21	8	3	
Total				2	1	5	10	14	50	119	156	342	418	528	470	492	273	40	
Mean				—	—	—	1	1	4	10	13	29	35	44	39	41	23	3	

# Frequency Table IV for Admiralty Bay, South Shetlands, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	≥ 40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0	30	60	120	300	600	1200	2400	≥ 6000	0	30	60	120	300		600	1200	2400	≥ 6000
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	to 6000	to 30	to 60	to 120	to 300	to 600		to 1200	to 2400	to 6000	to 6000
January	1		19	7	8	30	52	90	41	6	31	55	65	67	24	24		1	26	106	82	3	2	2	24			9	28	26	2			2	
February	2	4	17	9	6	25	49	73	39	10	31	44	30	82	27	27			19	75	93		5	2	27		6	34	38				3		
March	4	2	16	15	2	44	66	67	32	11	28	50	48	85	26	26		2	26	102	74	7	7	3	26		19	53	21	4	1		1		
April	4	2	4	2	1	30	58	70	69	31	46	33	57	55	18	18			6	79	98	8	17	4	18		6	42	31		7		10		
May	9	8	17	22	4	68	59	44	17	25	40	25	33	85	40	40	2	3	17	89	71	1	11	4	40	2	3	15	46	33	1		2	10	
June	10	7	6	13	4	54	68	51	27	37	36	42	31	74	20	20		2	15	93	70	3	1	4	20		1	12	58	19	1	1	1	32	
July	2	19	12	22	14	6	65	78	26	4	41	34	28	37	64	44	44		7	94	61	1	8	5	44		6	57	24		1	3	28		
August	4	10	31	23	24	6	47	56	37	10	27	16	28	45	98	34	34	2	25	109	51		6	5	34		2	20	80	24		1		16	
September		4	14	10	10	7	46	78	41	30	35	27	32	48	81	17	17		14	107	66	1	12	5	17		14	71	25		5	1	18		
October		2	6	17	10	3	48	60	59	43	17	44	37	60	84	6	7		1	39	106	75	3	6	3	6		1	31	61	20	1		8	
November		3	1	14	9	6	50	53	71	33	18	28	30	69	91	4	4			27	107	83	1	15	2	4		23	74	33		4		1	
December					10	10	16	48	116	48	9	40	39	77	83				1	23	87	123	5	9			1	19	47	46	2				
<b>Total</b>	6	68	87	165	145	63	523	725	745	393	267	401	443	600	949	260	261	2	12	244	1154	947	33	99	39	260	2	8	180	651	340	11	20	7	129
<b>Mean</b>	1	6	7	14	12	5	44	60	62	33	22	33	37	50	79	22	22	-	1	20	96	79	3	8	3	22	-	1	15	54	28	1	2	1	11

Frequency Table V for Admiralty Bay, South Shetlands, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>10</sup>	<sup>10 &amp; 18</sup>	<sup>10</sup>	<sup>11</sup>	<sup>11</sup>	<sup>12</sup>	<sup>13</sup>	<sup>14</sup>	<sup>10 &amp; 15</sup>	10 & 16 FOG		10 & 17 HAIL			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	= > 0.10 mm	= > 1.0 mm	= > 10.0 mm	WIND FORCE >	WIND FORCE >	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft	
	> 32°F	< 5°F	< -4°F	> 41°F																						
January	2			1				13	1	4	23	5	3		24				1	1					1	
February				2				9	2	4	21	3	2		22				8						11	
March	10			5				15	6	13	19	5	8		22				12	1	1	10				
April	1			1				11	3	1	21	3	2		12				15						7	
May					Not recorded	Not recorded	Not recorded	17	5	1	25		4		16				24			2	16			
June			3					12	4	3	21		2		16	3			18			3	8			
July		1	10					17	5		22				15				27			2	18			
August		2	6					12	4		26				20	2			28			1	19			
September			4					16	7	5	22	3	2		17	1			27			1	14			
October	1			2				15	2	9	22	4	2		20	2			20				12			
November				1				13	2	5	20	8			18				23	1		11				
December	6			3				5	1	6	14	5	9		21				5	1						
Total	20	3	23	15				155	42	51	256	36	34	0	223	8			208	4	10	131	0	1	0	
Mean	2	-	2	1				13	3	4	21	3	3	-	19	1			17	-	1	11	-	-	-	

Frequency Table VI for Admiralty Bay, South Shetlands, 1959.

MONTH	2 MEAN WIND SPEED	1 WIND: Number of observations, at all hours, of :-																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340
January	11.1	1	22	95	104	26	15	8	14	15	7	9	14	20	23	69	20	8
February	12.8	4	21	102	82	15	9	13	25	49	16	9	8	8	24	39	7	2
March	15.0	13	28	125	70	12	47	16	9	46	17	1	6	3	15	48	19	9
April	10.4	6	15	78	98	43	7	3	9	20	22	7	8	11	21	52	21	7
May	13.7	8	36	95	91	18	24	33	31	24	9	2	2	9	29	41	18	8
June	10.0	5	24	61	98	52	34	25	11	23	17	1	5	15	11	23	8	15
July	11.5	6	35	74	89	44	17	16	19	20	2	3	6	27	31	37	18	8
August	13.5	13	31	91	91	22	50	20	20	39	19	7	5	4	18	16	11	17
September	12.9	10	35	81	83	31	61	11	11	12	6	3	4	9	14	29	21	28
October	13.5	5	27	119	85	12	42	20	6	11	3	3	4	8	15	66	38	20
November	11.4	2	20	98	99	21	35	13	4	11	5	5	11	11	28	59	23	14
December	10.1	1	10	104	117	16	39	14	17	26	24	10	7	5	17	35	16	22
Total	145.9	74	304	1123	1107	312	380	192	176	305	147	60	80	130	246	514	220	158
Mean	12.2	6	25	94	92	26	32	16	15	25	12	5	7	11	21	43	18	13

# Frequency Tables VII to X for Admiralty Bay, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		2		1	1			1	2		1		8
2	2			3	2	1	4	8	2	7	2		31
3	9	2	1	4	3	2	1	7	9	15	8	4	65
4	2	1	6	4	1	5	4	2	7	27	5	4	68
5	2	2	1	3			4		1	13	1		27
6			3			1	1	1	2	4	3		15
7			3					1		3			7
>= 8		1											1
Totals	15	8	14	15	7	9	14	20	23	69	20	8	222

CALMS - 26

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	2			1		1	1	1		1	8
2	2	2	4	4	3	2	1	1	2	3	1		24
3	1	3	2	8	3	1	1	4	12	11	3	1	50
4	2	5	10	18	5	3	2	3	5	9	1		63
5	1			12	5	1	1		4	14	1		39
6	2		4	6		1				1	1		15
7	1		1	1		1	2						6
>= 8		2	2										4
Totals	9	13	25	49	16	9	8	8	24	39	7	2	209

CALMS - 15

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1			1			1						3
2	5			2	2			1	2	3	1	2	18
3	7	3		7	3	1	4		5	8	8	3	49
4	11	4	4	13	10		1	2	6	17	7	4	79
5	12	3	2	11	1				1	14	2		46
6	5	2	1	5	1				1	3			18
7	4	3	2	1									10
>= 8	2	1		6						3	1		13
Totals	47	16	9	46	17	1	6	3	15	48	19	9	236

CALMS - 12

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		1	1	3						2	3	11
2	3	2	1	4	2	2	2	2	1	3	5	2	29
3	3		2	13	5	2	5	3	4	11	7	3	58
4		1	3	5	6	3	1	3	6	12	5	2	47
5			1	3	6			3	4	13	1		31
6			1	2					4	4			11
7				1					1	2			4
>= 8									1	5			6
Totals	7	3	9	29	22	7	8	11	21	52	21	7	197

CALMS - 43

# Frequency Tables XI to XIV for Admiralty Bay, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3									3	1		7
2	6	3	1	3	1	1		1	3	6	3	3	31
3	7	6	2	5	5				10	7	9	2	53
4	3	10	5	9	2		1	3	7	10	3	1	54
5	4	6	10	5	1	1	1	1	6	4		2	41
6	1	5	8	2				2	1	3	1		23
7		2	4					1	1	4	1		13
>= 8		1	1					1	1	4			8
Totals	24	33	31	24	9	2	2	9	29	41	18	8	230

CALMS - 18

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	7	3	2	2	1			2	2	1			20
2		3	1	3	5		2	4	3	1	2	5	29
3	3	2	6	7	4	1	1	5	4	10	3	3	49
4	3	2	1	4	5		1	4	2	9	1	5	37
5	10	3	1	3	1		1			2	1	2	24
6	7	3		4	1								15
7	2	6									1		9
>= 8	2	3											5
Totals	34	25	11	23	17	1	5	15	11	23	8	15	188

CALMS - 52

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	4	2		1		1	4	1	2	2	2	24
2	3	3	1	1		1		8	5	3	3	2	30
3	1	2		4	1	2		5	6	7	4	1	35
4	4	5	4	8			3	3	9	12	3	2	53
5	1	2	2	3				3	2	5	2	1	21
6	2		5	3				1	2	6	3		22
7	1		5	1				3	2	1			13
>= 8								4	1	1			6
Totals	17	16	19	20	2	3	6	27	31	37	18	8	204

CALMS - 44

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		1				1		3	1	2		9
2	7	3	3	4	7	3	1	1	4	1	1	2	37
3	11	1	5	9	6			1	3	2	2	5	45
4	3	3	5	12	6	1	2	2	2	11	2	8	57
5	7	2	4	7		2	1		5	1	3	2	34
6	8	3	1	7					1		1		21
7	4	4	1			1							10
>= 8	9	4											13
Totals	50	20	20	39	19	7	5	4	18	16	11	17	226

CALMS - 22



# Frequency Tables XV to XVIII for Admiralty Bay, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BRAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		3				1		1	1	1	1	9
2	3	2	2	3	3		1	2	2	5	3	6	32
3	12	3	3	2	2	2	1	1	5	6	3	2	42
4	8	3	2	1		1	1	4	5	9	8	8	50
5	10	1	1	5	1			1	1	2	4	5	31
6	10	1		1				1		3	1	3	20
7	9								2	1		3	15
≥ > 8	8	1							1				10
Totals	61	11	11	12	6	3	4	9	14	29	21	28	209

CALMS - 31

TABLE XVI — OCTOBER.

BRAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1			2			1	1	1	2		9
2	3	1	3	1	1	2		4	4	4	4	5	32
3	5	2	1	5	1	1	2	2	4	9	10	2	44
4	6	2	1		1			1	5	31	12	10	69
5	15	6	1	3			1		1	13	8	2	50
6	6	3								5	3		17
7	6									2	1	1	10
≥ > 8		5											5
Totals	42	20	6	11	3	3	4	8	15	66	38	20	236

CALMS - 12

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4					2		2	1	2	2	1	14
2	3	1		2		1		2	5	1	1	3	19
3	7	5	2	3	4	1	5	3	9	13	8	6	66
4	9	1		6			1	4	10	25	10	3	69
5	5	4	1			1	3		3	10	2		29
6	4		1		1					3			10
7	2	2					1			4		1	10
≥ > 8	1								1				2
Totals	35	13	4	11	5	5	11	11	28	59	23	14	219

CALMS - 21

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		1	2		1	1		1	2			10
2	6	1	6	4	9	4	2	4	4	4	2	4	50
3	5	7	3	7	6	3	3	1	4	4	6	8	57
4	21	6	5	12	7	2	1		4	11	5	10	84
5	4		2	1	2				2	6	3		20
6	1								1	3			5
7									1	4			5
≥ > 8										1			1
Totals	39	14	17	26	24	10	7	5	17	35	16	22	232

CALMS - 16

Frequency Table XIX for Admiralty Bay, South Shetlands, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	<i>to</i> 10	<i>to</i> 40	<i>to</i> 70	<i>to</i> 100	<i>to</i> 130	<i>to</i> 160	<i>to</i> 190	<i>to</i> 220	<i>to</i> 250	<i>to</i> 280	<i>to</i> 310	<i>to</i> 340	
1	26	11	12	9	6	4	6	11	13	17	12	5	132
2	43	21	22	34	35	17	13	37	37	41	28	34	362
3	71	36	27	74	43	16	25	32	75	103	71	40	613
4	72	43	46	92	43	15	18	31	68	183	62	57	730
5	71	29	26	56	17	5	12	8	30	97	28	14	393
6	46	17	24	30	3	1	3	5	12	35	13	3	192
7	29	17	16	4		2	3	5	5	22	4	5	112
= > 8	22	18	3	6				1	6	16	2		74
Totals	380	192	176	305	147	60	80	130	246	514	220	158	2608

CALMS 312.

Means and Extremes Table I for Deception Island, South Shetlands, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)															
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>				
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE	
January	984.3	1006.2	4th	966.4	11th	30.8	31.2	32.1	33.5	34.0	33.3	31.9	31.2	32.3	36.0	29.5	42	6th	26	30th	
February	986.1	1003.7	17th	959.7	12th	29.1	28.8	30.3	31.6	31.5	31.3	29.7	29.0	30.2	33.9	20.0	41	23rd	22	16th, 28th	
March	989.0	1006.6	11th	972.0	1st	30.2	30.2	30.7	31.6	32.1	31.3	30.6	30.0	30.8	34.8	27.6	<del>48</del>	<u>19th</u>	20	9th	
April	995.9	1018.3	12th	975.3	6th	19.8	19.1	19.5	21.2	21.9	20.1	19.3	19.4	20.1	24.7	15.1	35	16th, 17th	2	30th	
May	983.5	1014.2	10th	961.0	26th	18.7	18.4	18.3	17.4	17.2	17.3	17.8	18.0	17.9	23.7	12.5	36	12th	1	21, 28, 29	
June	1001.1	1018.0	7th	988.0	19th	18.3	18.4	18.3	18.9	18.4	18.3	18.4	17.9	18.4	24.5	11.9	36	14th	-8	8th	
July	993.1	<u>1021.2</u>	<u>26th</u>	971.4	17th	8.6	7.6	8.1	7.9	8.4	8.5	8.7	8.4	8.3	16.2	0.7	32	17th	<u>-11</u>	<u>19th</u>	
August	993.9	1014.1	17th	970.9	24th	11.5	12.4	12.9	13.6	13.7	14.3	14.1	13.3	13.2	20.5	6.9	35	3rd	-11	27th	
September	986.2	1007.4	9th	<u>936.5</u>	<u>28th</u>	20.1	19.5	19.8	21.4	22.7	21.7	21.4	21.3	21.0	27.1	14.3	40	22nd	-4	5th	
October	991.2	1018.6	10th	954.3	1st	25.0	24.2	25.3	26.6	27.3	26.9	26.3	26.2	26.0	30.6	20.2	41	27th	-11	4th	
November	978.0	1011.6	20th	949.2	4th	26.5	25.6	27.1	28.4	29.5	28.5	27.3	26.8	27.5	31.5	22.9	38	22nd	12	15th	
December	991.2	1009.3	9th, 29th	962.7	2nd	30.0	31.1	32.3	33.7	34.2	33.5	32.2	30.8	32.2	36.3	29.1	43	10th	24	2nd	
Total	11873.5	12149.2	—	11567.4	—	268.6	266.8	274.7	285.8	290.9	285.0	277.7	272.3	277.9	339.8	210.7	467	—	59	—	
Mean	989.5	1012.4	—	963.9	—	22.4	22.2	22.9	23.8	24.2	23.7	23.1	22.7	23.2	28.3	17.6	38.9	—	4.9	—	

Means and Extremes Table II for Deception Island, South Shetlands, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	84	84	81	76	76	77	82	84	81	7.2	7.3	7.3	6.9	6.9	7.1	7.1	7.2	7.1	3.2		18.9			
February	78	79	77	73	68	70	77	77	75	6.7	6.7	7.0	7.3	7.0	6.9	6.6	6.4	6.8	3.1		15.9			
March	87	85	85	86	86	87	85	89	86	6.9	7.0	7.4	7.4	7.3	7.4	6.9	6.6	7.1	1.2		12.7			
April	80	80	81	78	78	84	81	83	81	5.9	6.3	6.4	6.1	6.4	6.0	5.4	6.3	6.1	1.8		9.6			
May	90	90	90	88	87	88	89	89	89	7.3	7.3	7.4	6.7	6.5	6.8	6.4	6.8	6.9	0.1	Not recorded	6.7	Not recorded	Not recorded	Not recorded
June	90	89	91	89	89	89	90	91	90	6.0	5.8	5.9	6.3	6.0	5.7	5.7	6.1	5.9	0.0		4.9			
July	87	88	87	87	88	87	86	87	87	6.3	5.7	5.9	6.1	5.9	6.1	5.9	5.6	5.9	0.0		5.7			
August	87	89	86	86	87	87	88	88	87	6.2	6.2	6.8	6.7	6.5	6.4	6.1	5.9	6.3	0.6		8.4			
September	88	89	87	87	87	86	88	87	87	6.6	6.7	6.6	7.2	6.5	6.6	7.0	7.0	6.8	1.2		11.5			
October	88	86	87	86	86	87	89	88	87	6.6	7.0	6.7	6.5	6.6	7.4	7.1	6.0	6.7	2.0		14.6			
November	87	85	85	84	83	84	86	87	85	7.0	7.0	6.9	6.7	6.9	6.8	6.9	6.6	6.9	3.8		17.9			
December	86	85	82	81	78	81	84	85	83	7.0	7.4	7.1	6.9	6.7	7.0	7.2	7.1	7.1	3.7		20.1			
Total	1032	1029	1019	1001	993	1007	1025	1035	1018	79.7	80.4	81.4	80.8	79.2	80.2	78.3	77.6	79.6	20.7		146.9			
Mean	86	86	85	83	83	84	85	86	85	6.6	6.7	6.8	6.7	6.6	6.7	6.5	6.5	6.6	1.7		12.2			

Frequency Table I for Deception Island, South Shetlands, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January							17	30	21	72	45	33	15	11	4						
February					2	11	18	13	15	12	50	62	25	16							
March								6	43	35	54	39	45	21	5						
April									11	23	49	34	34	41	27	9	12				
May						5	28	40	55	25	14	27	19	15	5	15					
June											2	71	65	25	26	36	15				
July								7	27	29	37	55	32	16	20	7	15	3			
August								9	11	29	41	59	23	32	27	17					
September	1	1	1	1	5	15	13	19	21	24	44	18	13	49	15						
October				2	1	4	17	16	26	35	12	27	9	40	39	16	4				
November			2	16	26	8	27	31	27	31	11	14	21	15	7	4					
December						7	11	15	15	23	40	35	36	37	29						
Year	1	1	3	19	34	50	131	186	272	338	399	474	337	318	204	104	46	3			



Frequency Table III for Deception Island, South Shetlands, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January							1	1	5	11	13	16	27	36	29	40	42	21	6
February				2	2		7	4	8	14	15	20	26	28	21	23	16	28	1
March								1	2	3	10	6	12	24	29	47	62	45	7
April							1	1	8	9	19	8	18	27	51	41	42	14	1
May										1	1	2	5	7	16	72	103	37	4
June												2	5	4	24	47	105	50	3
July							1	1					7	19	38	71	79	29	3
August										1	4	1	15	14	19	82	82	30	
September								1		1			4	13	47	78	77	19	
October											1	8	1	17	50	73	72	26	
November									2	1	2	3	14	25	49	59	69	16	
December											6	10	30	47	55	35	35	25	5
Total				2	2		10	9	25	41	71	85	164	261	428	668	784	340	30
Mean				—	—		1	1	2	3	6	7	14	22	36	56	65	28	3

# Frequency Table IV for Deception Island, South Shetlands, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>									LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	= >40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	= > 6000	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600		600 to 1200	1200 to 2400	2400 to 6000	= > 6000
January			1		7	20	25	43	57	95	2	28	36	43	138	1	1	5	10	44	103	72	11	2		1	4	10	38	50	33	6	1		
February		7	2	9	5		18	13	43	127	15	36	33	58	64	18	18		4	23	56	89	19	10	2	18		4	18	26	24	8	1		3
March			2	5	13	15	26	39	64	84	13	16	49	45	112	13	13	2	12	52	81	66	9	11		13	1	12	32	29	20	9	3		2
April		2		3	8	12	24	37	36	118	29	43	42	42	80	4	7	4	6	38	51	77	28	22	3	5		6	25	15	33	8	6		4
May		13	8	16	23	15	62	35	41	35	18	24	34	32	119	21	21	7	7	78	63	48	6	16	1	21	2	5	60	32	22	2	10		1
June	2	2	8	13	28	15	70	38	14	50	45	21	33	28	97	16	20	4	5	50	59	55	2	12	6	18	2	4	37	29	26	1	7	2	27
July	4	8	17	23	27	6	60	34	28	41	27	39	43	36	72	31	35		6	38	49	88	5	16	4	32		2	24	26	23	1	10		7
August	3	15	10	15	26	21	45	36	34	43	37	22	21	30	106	32	32		4	38	80	50	7	4	16	32		1	25	34	28	4	2	1	17
September			3	13	14	9	58	60	48	35	15	26	38	41	114	6	7		2	57	86	65	8	9	3	6		1	35	36	36	5	2	1	3
October			2	5	9	17	48	67	52	48	11	26	38	68	97	8	8	1	6	67	98	51	6	4	3	8	1	6	41	43	15	1			4
November			2	6	5	4	29	38	77	79	9	32	45	60	91	3	3	1	10	62	114	35	6	5	2	3	1	8	35	25	18	1			2
December		2	1	4	3	3	49	22	96	68	12	31	56	63	83	3	8	7	10	57	58	71	25	10	2	7	5	7	37	13	18	8	5	1	
<b>Total</b>	<b>9</b>	<b>49</b>	<b>56</b>	<b>112</b>	<b>168</b>	<b>137</b>	<b>514</b>	<b>462</b>	<b>590</b>	<b>823</b>	<b>233</b>	<b>344</b>	<b>468</b>	<b>546</b>	<b>1173</b>	<b>156</b>	<b>173</b>	<b>31</b>	<b>82</b>	<b>604</b>	<b>898</b>	<b>767</b>	<b>132</b>	<b>121</b>	<b>42</b>	<b>164</b>	<b>16</b>	<b>66</b>	<b>407</b>	<b>358</b>	<b>296</b>	<b>54</b>	<b>47</b>	<b>5</b>	<b>70</b>
<b>Mean</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>9</b>	<b>14</b>	<b>11</b>	<b>43</b>	<b>39</b>	<b>49</b>	<b>69</b>	<b>19</b>	<b>29</b>	<b>30</b>	<b>45</b>	<b>98</b>	<b>13</b>	<b>14</b>	<b>3</b>	<b>7</b>	<b>50</b>	<b>75</b>	<b>64</b>	<b>11</b>	<b>10</b>	<b>3</b>	<b>14</b>	<b>1</b>	<b>5</b>	<b>34</b>	<b>30</b>	<b>25</b>	<b>5</b>	<b>4</b>	<b>-</b>	<b>6</b>



Frequency Table V for Deception Island, South Shetlands, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</sup>	<sup>9</sup>	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16		10 & 17			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	= >0.10 mm	= >1.0 mm	= >10.0 mm	WIND FORCE <sup>6</sup> $\wedge$	WIND FORCE <sup>8</sup> $\wedge$	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft	
	>32°F	<5°F	<-4°F	>41°F																						
January				1				7		1	19	4	1		25				6	2	2					
February								10	2	3	16	3			22				9	2			6			
March	6			3				8		9	16	4	8		24				10		3	3				
April								6			23	1	5		11				17			5				
May	1				Not recorded	Not recorded	Not recorded	12	3	2	24	1	2		20				22			11				
June			3					7	1	1	21	1	1		18	3			22		6	5				
July		3	10					16	6	2	28	2	2		14				27		2	15				
August			3					14	2		22	2	2		21	1			25		1	15				
September		1						6	1	4	25	5	1		22				30		1	10				
October			1					7	1	8	21	7	2		21				20			5				
November								3		2	23	3	2		26				20			7				
December	4			1				2		7	11	5	3		22				4		6	1				
Total	11	4	17	5				98	16	39	249	38	29	0	246	4			212	4	21	83	0	0	0	
Mean	1	-	1	-				8	1	3	21	3	2	-	21	-			18	-	2	7	-	-	-	

Frequency Table VI for Deception Island, South Shetlands, 1959.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	11.8		19	121	97	11	5	2	33	24	4	2	2	3	56	55	33	18	
February	13.6	3	31	109	73	8	2	23	51	21	7	4	1	6	47	28	18	8	
March	12.5		28	125	82	13	13	12	41	18	6		2	3	22	40	36	42	
April	9.7		23	70	130	17	6	10	13	13	1	3	4	11	40	63	29	30	
May	12.5	5	40	85	95	23	6	8	42	21	5	4	2	3	14	26	47	47	
June	8.7	1	16	66	104	53	13	17	45	8	3	3	1	2	12	7	28	48	
July	13.8	18	38	76	96	20	5	10	55	2	2			5	29	27	53	40	
August	11.6	7	31	76	98	36	7	27	60	15	4		2	2	11	16	31	37	
September	9.7	1	10	86	120	23	18	6	18	6	3	2	3	2	14	30	50	65	
October	12.1	1	17	123	101	6	6	6	8	4	4	1	1	2	22	89	64	35	
November	9.5		5	84	146	5	3	8	9	4	4	1	1	1	26	88	50	40	
December	7.0		3	51	177	17	10	15	40	9	8	7	4	4	27	29	54	24	
<b>Total</b>	132.5	36	261	1072	1319	232	94	144	415	145	51	27	23	44	320	498	493	434	
<b>Mean</b>	11.0	3	22	89	110	19	8	12	35	12	4	2	2	4	27	41	41	36	

# Frequency Tables VII to X for Deception Island, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		3	2	2	1	1		1	1	2	1	15
2	2	2		1			1		3	4	9	5	27
3	2		2	3	2	1			7	17	13	8	55
4			15	7				2	19	25	9	4	81
5			10	7				1	18	4			40
6			2	4					8	4			18
7			1										1
≥ 8													
Totals	5	2	33	24	4	2	2	3	56	55	33	18	237

CALMS - 11

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		2		1	3	3	1			2	3	1	16
2				3	2	1		1		1	3	3	14
3	1	5	2	2	2			5	10	7	7	2	43
4	1	6	15	10					20	12	5	2	71
5		5	17	4					8	4			38
6		5	11						8	2			26
7			3	1					1				5
≥ 8			3										3
Totals	2	23	51	21	7	4	1	6	47	28	18	8	216

CALMS - 8

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	3	1			1	1	1	1	7	4	22
2		1	1						4	2	6	2	16
3	1	2	3	4				1	2	7	10	14	44
4	4	5	10	3	1		1	1	12	21	11	18	87
5	3	2	17	2					2	6	2	4	38
6	4		7	3	1				1	3			19
7				5	4								9
≥ 8													
Totals	13	12	41	18	6		2	3	22	40	36	42	235

CALMS - 13

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	3	3	3		2	1	3	3	6	4	5	37
2		2	3	2			2	1	2	11	6	10	39
3		2	3	2		1		3	3	17	12	11	54
4	2	3	3	4			1	3	7	20	6	4	53
5				1	1				10	5			17
6			1	1				1	8	3	1		15
7									7	1			8
≥ 8													
Totals	6	10	13	13	1	3	4	11	40	63	29	30	223

CALMS - 17

# Frequency Tables XI to XIV for Deception Island, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	2	2	1	2	1	1	1	1	10	6	30
2	2	1		1	1	1				2	7	11	26
3	2		3	5		1			3	4	14	7	39
4	1	2	7	4	3			2	3	8	14	15	59
5		1	6	4			1			4	2	8	26
6		1	8	3					5	2			19
7		1	12	1					2	5			21
≥ 8			4	1									5
Totals	6	8	42	21	5	4	2	3	14	26	47	47	225

CALMS - 23

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2		1	3	2	1	1	1	3	3	6	4	27
2	2	1	4	1		1		1	1		5	10	26
3	3	4	7	4	1	1			2	1	10	18	51
4	3	7	10						2	2	7	15	46
5	2	3	13						1			1	20
6	1	2	3						2				8
7			6						1	1			8
≥ 8			1										1
Totals	13	17	45	8	3	3	1	2	12	7	28	48	187

CALMS - 53

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1							2	1	8	4	19
2	2	1			1			1		2	10	11	28
3		1		1				1	1	8	24	13	49
4		2	15		1				5	9	10	11	53
5		2	7					2	8	3		1	23
6		2	14					1	7	3	1		28
7			3	1					5	1			10
≥ 8		1	16						1				18
Totals	5	10	55	2	2			5	29	27	53	40	228

CALMS - 20

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	1	1	2		2			4	5	5	23
2		3		1	1				1	1	11	11	29
3	1		6	3	1			1	1	2	13	18	46
4	1	6	11	2				1	2	4	2	3	32
5	2	12	16	5					4	5			44
6	2	4	13	3					2				24
7			6						1				7
≥ 8			7										7
Totals	7	27	60	15	4		2	2	11	16	31	37	212

CALMS - 36

# Frequency Tables XV to XVIII for Deception Island, South Shetlands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		2		1		1		4	2	11	4	26
2	1	2	2	4	1	1	1		2	2	6	11	33
3	2	2	1		1		1		1	12	15	26	61
4	5	2	5	2		1		2	6	8	9	15	55
5	7		7						1	2	8	6	31
6	2		1							3	1	2	9
7									1				1
>= 8												1	1
Totals	18	6	18	6	3	2	3	2	14	30	50	65	217

CALMS - 23

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3		1	1	1		1					2	6
2		1		1	1				1	5	4	4	17
3	1		1	1				1	3	28	22	8	65
4	1	3		1		1		1	7	39	17	12	82
5	1	2	4		1				4	8	14	7	41
6			2		1				3	5	1		12
7									3	2			5
>= 8									1				1
Totals	6	6	8	4	4	1	1	2	22	89	64	35	242

CALMS - 6

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1	1	1		1	1	5	8	3	21
2	1		1	1	2		1		3	16	13	6	44
3	1	5							4	36	21	14	81
4	1	3	6	1	1				10	28	6	17	73
5			1	1					5	3	1		11
6			1						1		1		3
7									2				2
>= 8													
Totals	3	8	9	4	4	1	1	1	26	88	50	40	235

CALMS - 5

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	6	4	2	7	5	3	2	4	7	12	5	62
2	1	3	9	1	1	2	1	2	2	10	21	10	63
3	3	2	8	5					3	4	19	8	52
4	1	4	15						10	5	2	1	38
5			4	1					7	1			13
6									1	1			2
7										1			1
>= 8													
Totals	10	15	40	9	8	7	4	4	27	29	54	24	231

CALMS - 17

Frequency Table XIX for Deception Island, South Shetlands, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												
	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIRECTIONS
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	22	18	20	17	20	15	13	9	20	35	82	46	
2	11	17	20	16	10	6	6	6	19	56	101	94	362
3	17	23	36	30	7	4	1	12	40	143	180	147	640
4	20	43	112	34	6	2	2	12	103	181	98	117	730
5	15	27	102	25	2		1	3	68	45	27	27	342
6	9	14	63	14	2			2	46	26	5	2	183
7		1	31	8	4				22	12			78
= > 8		1	31	1					2			1	36
Totals	94	144	415	145	51	27	23	44	320	498	493	434	2688

CALMS 232.

Means and Extremes Table I for Argentine Islands, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	984.7	1007.4	4th	965.6	11th	27.4	27.5	28.8	30.5	31.4	31.3	30.5	28.4	29.5	33.5	24.8	41	22nd	13	27th
February	986.3	1005.8	18th	959.9	12th	26.8	26.0	27.0	28.9	30.0	29.5	28.5	27.4	28.0	32.2	24.3	38	12th	15	17th, 18th
March	987.5	1006.4	10th, 11th	968.9	19th	28.8	28.5	28.4	28.9	29.1	28.8	28.5	28.4	28.7	32.5	25.3	<u>45</u>	<u>19th</u>	10	31st
April	997.4	1021.0	12th	977.4	30th	5.7	4.9	5.0	7.2	8.9	8.2	8.1	7.3	6.9	15.0	-0.6	31	9th	-30	28th
May	983.7	1016.3	9th	962.0	27th	7.1	7.5	6.4	7.9	7.8	7.3	6.7	6.7	7.2	16.5	-3.3	35	11th	-26	20th, 21st
June	999.8	1020.8	7th	984.2	23rd	16.2	15.5	14.4	15.5	15.9	15.3	15.4	14.5	15.3	22.8	7.7	41	18th	-25	8th
July	993.5	<u>1021.4</u>	<u>20th</u>	965.5	31st	-5.0	-4.1	-4.1	-3.7	-3.3	-4.9	-3.5	-3.8	-4.1	6.5	-15.5	32	29th	<u>-41</u>	<u>20th</u>
August	993.0	1015.0	16th	973.5	1st, 20th	10.2	8.6	8.2	8.4	9.2	7.6	7.9	8.6	8.6	16.8	-0.7	39	19th	-33	28th
September	984.3	1007.1	9th	<u>934.5</u>	<u>23th</u>	10.4	10.7	10.6	13.4	14.6	13.9	13.8	11.5	12.4	15.5	0.9	39	22nd	-36	5th
October	990.2	1020.4	10th	955.6	5th	21.1	20.7	20.9	23.0	24.5	24.5	23.6	22.2	22.6	28.7	16.9	39	27th	-9	4th
November	977.3	1012.2	20th	950.9	4th	20.9	20.4	22.9	25.5	26.1	26.2	23.8	21.5	23.4	29.3	16.8	37	24th	4	6th
December	989.6	1009.5	29th	965.5	2nd	28.8	28.7	30.5	30.3	32.3	32.2	30.7	29.4	30.4	35.2	26.7	44	10th	11	1st
Total	11867.3	12163.3	—	11563.5	—	198.4	194.9	199.0	215.8	226.5	219.9	214.0	202.1	208.9	284.5	123.3	461	—	-147	—
Mean	988.9	1013.6	—	963.6	—	16.5	16.2	16.6	18.0	18.9	18.3	17.8	16.8	17.4	23.7	10.3	38.4	—	-12.3	—

Means and Extremes Table II for Argentine Islands, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT' (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	89	87	83	81	78	82	83	89	84	6.7	6.7	6.2	6.4	6.1	6.3	6.5	6.7	6.5	5.1	Not recorded	19.9	13.0	3.8	1st
February	89	89	85	81	76	80	83	85	83	6.5	6.2	6.0	6.3	6.5	6.2	6.4	6.4	6.3	4.3		16.3	7.0	2.4	22nd
March	85	84	83	83	82	84	85	84	84	7.0	7.3	7.0	6.8	6.6	6.9	7.2	6.7	6.9	2.3		12.8	38.9	<u>15.1</u>	<u>1Sth</u>
April	82	82	82	79	80	80	80	81	81	4.0	4.2	4.6	4.4	5.1	5.7	5.7	4.9	4.8	3.0		9.4	12.2	4.3	15th
May	82	81	81	80	81	81	82	81	81	5.3	5.2	6.3	6.1	5.8	5.7	5.1	5.2	5.6	0.9		6.1	17.1	6.1	25th
June	86	87	88	87	87	87	86	86	87	5.9	5.9	5.7	6.4	6.3	5.4	5.3	5.5	5.8	0.3		3.8	18.2	5.3	19th
July	83	83	83	83	82	83	84	82	83	4.9	5.4	4.9	5.2	4.9	5.0	5.1	5.2	5.1	1.2		4.9	20.5	3.9	7th
August	83	83	81	81	80	82	82	82	82	5.8	6.1	6.2	5.8	6.0	6.1	5.8	6.0	6.0	1.9		8.1	18.1	5.2	1st
September	84	84	85	82	81	84	83	83	83	6.5	6.4	6.7	6.4	6.5	6.8	6.6	6.7	6.6	2.1		11.4	13.3	3.0	17th
October	88	88	86	85	85	89	85	87	87	7.4	7.1	7.1	7.0	7.2	7.2	7.5	7.1	7.2	2.0		14.9	36.3	9.2	12th
November	87	87	83	84	81	81	84	86	84	6.4	6.4	6.9	6.6	6.4	6.0	6.2	6.4	6.4	4.1		18.5	12.4	2.8	21st
December	88	88	85	83	81	83	87	87	85	7.2	7.1	7.2	6.9	6.6	6.9	6.7	6.7	6.9	4.1		21.6	18.5	8.3	10th
Total	1025	1023	1005	989	974	996	1004	1013	1004	73.6	74.0	74.8	74.3	74.0	74.2	74.1	73.5	74.1	31.3	147.7	225.5	69.4		
Mean	85	85	84	82	81	83	84	84	84	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.1	6.2	2.6	12.3	18.8	5.8		



## Frequency Table I for Argentine Islands, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January								12	30	28	67	41	41	11	12	6					
February						1	9	20	16	22	6	43	60	31	15	1					
March								2	7	46	43	59	43	23	20	5					
April										7	22	34	50	32	32	35	12	12		4	
May							6	24	50	39	33	19	21	20	7	6	11	3			
June											2	28	65	51	27	19	20	14		5	
July								8	6	21	27	34	49	30	22	10	14	9		9	
August									9	21	28	45	51	22	32	24	15	1			
September	1	1		4	5	14	7	11	22	22	26	39	13	23	36	16					
October						5	8	11	36	29	14	24	14	7	39	38	9	12		2	
November					20	25	12	34	21	32	28	9	7	24	15	7	6				
December								22	24	9	26	41	38	30	34	24					
Year	1	1		4	25	45	42	144	221	276	322	416	452	322	291	191	96	51	20		



## Frequency Table III for Argentine Islands, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 6																			
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	=>	
	15	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	to 79	to 84	to 89	to 94	to 99	100	
January							1		1	3	5	10	23	29	34	69	53	20		
February									2	4	7	10	15	25	38	51	57	15		
March								1	1	4	4	10	20	19	36	73	75	5		
April							3	1	5	5	9	11	15	35	42	68	46			
May									3	11	10	11	17	33	44	75	33	11		
June										2	3	5	10	29	28	46	82	35		
July											3	6	33	33	55	70	46	2		
August									1	4	7	16	19	38	49	63	48	3		
September									4	2	2	5	18	27	60	76	39	7		
October										2	2	2	7	27	47	61	86	14		
November								1	3	3	9	5	17	26	37	50	74	15		
December										2	1	11	16	26	30	68	67	27		
Total							4	3	20	42	62	102	210	347	500	770	706	154		
Mean							—	—	2	3	5	9	17	29	42	64	59	13		

# Frequency Table IV for Argentine Islands, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud				
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	>40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS								
																	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600	600 to 1200	1200 to 2400	2400 to 6000	> 6000	0 to 30	30 to 60	60 to 120	120 to 300	300 to 600		600 to 1200	1200 to 2400	2400 to 6000	> 6000
January	4	4	3	5	7	28	23	35	139	17	70	40	34	83	4	5	7	9	44	68	54	44	16		4	4	5	17	16	8	7	3		1	
February				3	4	4	20	33	31	129	26	48	21	42	87			1	32	75	57	33	24				1	4	20	17	7	4		2	
March	1	2	2	4	8	39	49	40	103	39	28	24	22	134	1	2		3	53	54	77	20	34	2	1		1	29	31	35	6	7		3	
April	5	5	16	9	9	21	37	23	115	81	50	12	16	68	13	13	3	3	21	45	46	28	41	3	13		1	9	18	25	7	4		37	
May			3	15	23	13	30	61	32	71	39	47	28	33	93	8	10	2	4	28	59	82	24	22		8		2	22	39	27	8	2		17
June				18	12	10	35	73	29	63	49	29	16	24	115	7	8	1	3	26	38	82	33	21		7			14	24	56	15	1		28
July		2	3	7	4	10	45	49	31	97	75	38	17	22	88	8	8	4	5	9	45	69	33	46		8		1	1	28	44	18	6		29
August				17	7	15	33	35	39	102	66	27	13	27	110	5	5	1	1	12	40	68	55	53		5			7	29	45	36	10		13
September		2	2	14	9	6	39	62	33	73	33	26	12	31	133	5	6	6	5	18	53	71	48	21		5			12	35	43	28	3		12
October		1	4	22	23	13	45	39	34	67	21	19	12	29	153	14	14	2	3	50	80	53	25	20		14			34	59	43	14	3		1
November			2	14	9	8	39	52	36	80	27	38	24	35	110	6	6	1	1	49	78	54	24	25		6			33	36	19	7	2		2
December		2	2	7	10	8	27	50	50	92	19	46	17	45	116	5	5	1	9	35	69	85	25	19		5		4	15	32	32	11	5		
<b>Total</b>		17	27	138	119	111	401	563	413	1131	492	466	236	360	1290	76	82	28	47	377	704	798	392	342	5	76	4	15	197	367	394	164	50	0	145
<b>Mean</b>		1	2	11	10	9	33	47	34	94	41	39	20	30	107	6	7	2	4	31	59	67	33	29	-	6	-	1	16	31	33	14	4	-	12

Frequency Table V for Argentine Islands, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			0	9	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16 Fog		10 & 17 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE > 6	WIND FORCE > 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F	=	=	=																		
January	1							3			16	2	2		19	1			1		6	1			
February								2		1	17	3	2		19	1			5	2	2				
March	1			1				5	1	9	20	6	6		23				4	1	4	2		1	
April		6	11					2		1	14	1	1		14	5			8		9	1			
May		5	13					4	1		21	1	1		13	2			16		9	4			
June		4	6					6	1	1	19	3	6		16	3			12		4	5			
July		10	21					4	1		22		3		12	6			12		5	2			
August		3	11					6	1		20	4	2		17	2			11		4	6			
September		2	10					9	2	4	24	5	4		21	1			15		6	6			
October			3					7	1	9	23	6	9		27				11		5	10			1
November								5	1	1	20	1	1		22	1			16	1	5	7		1	
December	2			1				4		6	17	4	4		23	1			3	1	5	2			
Total	4	30	75	2				57	9	32	233	36	41	0	226	23			114	5	64	46	0	2	1
Mean	-	3	6	-				5	1	3	19	3	3	-	19	2			9	-	5	4	-	-	-

## Frequency Table VI for Argentine Islands, 1959.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :—																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	5 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	5.5		3	16	189	40	13	23	4	11	4	12	32	49	38	13	5	4	
February	5.2		4	21	159	40	12	20	11	9	1	11	34	51	17	10	3	5	
March	8.2	1	20	62	113	52	20	61	11	5	3	11	22	23	21	9	7	3	
April	4.1		3	25	131	81	3	12	7	7	8	17	35	38	20	9	2	1	
May	5.9	1	9	33	142	63	8	23	6	10	10	20	51	29	12	8	3	5	
June	6.7	1	17	40	124	58	12	49	8	6	8	9	33	26	15	11	1	4	
July	4.3	1	7	22	145	73	1	13	12	13	9	9	55	34	23	5	1		
August	6.0	2	14	27	147	58	4	38	16	9	7	17	42	27	19	9	1	1	
September	8.9	2	25	45	141	27	22	49	6	11	15	23	36	20	14	7	4	6	
October	9.9	4	17	70	136	21	34	56	5	5	6	8	32	34	15	15	11	6	
November	8.6	1	9	64	145	21	17	49	16	8	11	14	33	37	18	4	6	6	
December	5.8		7	36	166	39	26	48	14	3	9	14	35	25	22	5	2	6	
<b>Total</b>	<b>79.1</b>	<b>13</b>	<b>135</b>	<b>461</b>	<b>1738</b>	<b>573</b>	<b>172</b>	<b>441</b>	<b>116</b>	<b>97</b>	<b>91</b>	<b>165</b>	<b>440</b>	<b>393</b>	<b>234</b>	<b>105</b>	<b>46</b>	<b>47</b>	
<b>Mean</b>	<b>6.6</b>	<b>1</b>	<b>11</b>	<b>38</b>	<b>145</b>	<b>48</b>	<b>14</b>	<b>37</b>	<b>10</b>	<b>8</b>	<b>8</b>	<b>14</b>	<b>37</b>	<b>33</b>	<b>19</b>	<b>9</b>	<b>4</b>	<b>4</b>	

# Frequency Tables VII to X for Argentine Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	4	2	2	1	4	6	11	10	3	2	1	50
2	4	7	1	4	1	5	11	15	15	6	1	1	71
3	5	5		1		3	15	23	8	4	2	2	68
4		4		1					4				9
5		2	1	1	2				1				7
6		1		2									3
7													
≥ 8													
Totals	13	23	4	11	4	12	32	49	38	13	5	4	208

CALMS - 40

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	4	4	4			1	16	15	6	4		57
2	5	5	3	4			7	11	11	3	2	2	55
3	4	3	1		1		7	21	5	1	1	2	47
4	1	7					2	4	3	3			20
5		1											1
6				1									1
7			3										3
≥ 8													
Totals	12	20	11	9	1	11	34	51	17	10	3	5	184

CALMS - 40

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	2	2	3	2	3	6	6	6	2	1	1	38
2	2	2	1	1	1	3	7	7	7	4	2		37
3	5	3		1		4	9	5	5	2	3	1	38
4	5	21	2			1		5	1	1	1	1	38
5	4	17	1						2				24
6		14	2										16
7		2	2										4
≥ 8			1										1
Totals	20	61	11	5	3	11	22	23	21	9	7	3	196

CALMS - 52

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	5	5	3	4	6	5	13	6	3		1	53
2	1	7	2	3	1	6	14	4	5	1	2		46
3				1	1	2	10	13	3	2			32
4						1	5	7	4	2			19
5					1	1	1	1	1	1			6
6					1	1			1				3
7													
≥ 8													
Totals	3	12	7	7	8	17	35	38	20	9	2	1	159

CALMS - 81

# Frequency Tables XI to XIV for Argentine Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1	3	4	5	5	12	9	2	3	1	1	46
2	3	5	1	3	4	3	18	6	1	4	1		49
3	1	2	1	3		7	13	11	6	1		2	47
4	2	6				3	6	2	3		1	2	25
5	1	2				2	2	1					8
6	1	4	1		1								7
7		2											2
≥ 8		1											1
Totals	8	23	6	10	10	20	51	29	12	8	3	5	185

CALMS - 63

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	2		3	4	4	16	11	11	8	1	2	64
2	1		2	1	4	4	7	5	1				25
3	1	6	1	2		1	9	9	2	3		1	35
4	6	12	3				1	1	1			1	25
5		15											15
6	1	10	2										13
7	1	3											4
≥ 8		1											1
Totals	12	49	8	6	8	9	33	26	15	11	1	4	182

CALMS - 58

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1	2	10	7	4	24	15	14	4	1		83
2			5		1	2	9	7	1				25
3		3		3	1	1	17	8	4				37
4		6				2	4	3	3	1			19
5			1					1	1				3
6		2	2				1						5
7		1	1										2
≥ 8			1										1
Totals	1	13	12	13	9	9	55	34	23	5	1		175

CALMS - 73

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	8	5	6	4	4	15	8	13	4	1		69
2	1	1	2	3	2	8	9	10	5	2		1	44
3		4			1	5	16	6		2			34
4		7	1				2	3					13
5	1	8	3						1	1			14
6	1	6											7
7		2	5										7
≥ 8		2											2
Totals	4	38	16	9	7	17	42	27	19	9	1	1	190

CALMS - 58



# Frequency Tables XV to XVIII for Argentine Islands, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	3	3	3	7	5	6	5	3	2		1	39
2	4			6	2	11	12	8	4	1			48
3	6	4	1	2	5	5	15	5	7	1	2	1	54
4	5	12			1		3	2		3	2	1	29
5	3	11										2	16
6	2	14				1							17
7	1	4	1			1						1	8
≥ 8		1	1										2
Totals	22	49	6	11	15	23	36	20	14	7	4	6	213

CALMS - 27

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	1	3	2	2	1	2	5	4	1	1		27
2	6	4		2	2	3	6	3	4	6	1	1	38
3	7	16			2	2	17	10	4	4	5	4	71
4	5	15		1		2	7	14	3	3	4	1	55
5	7	5						2		1			15
6	3	8											11
7	1	5											6
≥ 8		2	2										4
Totals	34	56	5	5	6	8	32	34	15	15	11	6	227

CALMS - 21

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	2	3	5	6	3	5	5	1		1	3	36
2	3	6	5	3	4	6	9	5	7		2	1	51
3	3	9	2		1	3	9	20	4	2	3	2	58
4	5	16	1			2	10	6	3	1			44
5	3	10	3					1	2	1			20
6	1	6	1						1				9
7													
≥ 8			1										1
Totals	17	49	16	8	11	14	33	37	18	4	6	6	219

CALMS - 21

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	5	8	2	2	3	7	14	6	7	3	2	2	61
2	6	9	1	1	4	4	17	10	7	2		1	62
3	4	9	4		2	3	4	8	6			3	43
4	9	13	3					1	2				28
5		6	2										8
6	1	3	1										5
7	1		1										2
≥ 8													
Totals	26	48	14	3	9	14	35	25	22	5	2	6	209

CALMS - 39

Frequency Table XIX for Argentine Islands, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	29	41	34	47	45	47	127	109	83	37	11	13	623
2	36	46	23	31	26	62	130	91	60	28	11	7	551
3	36	64	10	13	14	37	141	139	54	22	16	18	564
4	38	119	10	2	1	13	38	48	27	14	8	6	324
5	19	77	11	1	3	3	3	6	8	4		2	137
6	10	68	9	3	2	2	1		2				97
7	4	19	13			1						1	38
=> 8		7	6										13
Totals	172	441	116	97	91	165	440	393	234	105	46	47	2347

CALMS 573.

## Upper Air Means Table I for Argentine Islands, 1959.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for all ascents :—																							
	SURFACE		900 mb.		850 mb.		800 mb.		700 mb.		600 mb.		500 mb.		400 mb.		300 mb.	200 mb.	150 mb.	100 mb.	MEAN TROPOPAUSE			
	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Air	Air	Air	Air	Press. mb.	Height	Temp.
January	-2.1	-4.5	-5.4	-9.1	-7.7	-11.3	-10.0	-13.5	-14.6	-18.7	-21.3	-26.4	-28.9	-34.1	-39.7	-43.1	-49.2	-44.2	-43.4	-42.5	31	31	31	
February	-3.0	-5.1	-6.7	-9.9	-9.1	-12.6	-11.7	-15.2	-16.5	-20.2	-22.4	-25.8	-30.3	-35.1	-40.9	-43.5	-51.2	-44.7	-45.4	-45.9	30	30	30	
March	-2.1	-4.5	-5.0	-7.7	-7.5	-10.1	-10.3	-13.1	-15.0	-18.6	-21.1	-25.4	-29.8	-34.0	-40.8	-42.6	-51.7	-49.1	-47.8	-50.2	33	33	33	
April	-4.1	-14.3	-16.5	-10.6	-14.1	-11.6	-15.6	-13.9	-18.2	-17.9	-23.6	-23.9	-30.8	-32.5	-38.7	-43.1	-44.7	-54.0	-55.5	-54.5	-57.5	30	31	31
May	-14.4	-16.8	-12.0	-15.5	-13.8	-17.5	-15.9	-19.8	-20.8	-24.9	-27.3	-32.1	-36.3	-40.0	-46.3	-46.3	-56.1	-57.5	-59.2	-62.7	28	30	30	
June	-9.5	-11.7	-8.4	-10.6	-10.5	-12.7	-12.5	-15.0	-17.9	-21.9	-25.1	-30.0	-34.3	-36.9	-45.2	-49.0	-56.6	-62.1	-62.1	-63.5	28	30	30	
July	-12.5	-24.1	-16.6	-19.7	-17.9	-21.5	-19.5	-23.4	-23.2	-27.7	-29.3	-33.3	-37.4	-40.1	-47.9	-53.0	-59.1	-66.3	-66.6	-68.5	27	41	41	
August	-13.4	-15.6	-11.6	-14.8	-13.8	-17.3	-15.3	-18.6	-20.2	-23.8	-26.9	-31.9	-36.5	-40.4	-47.7	-54.0	-60.6	-71.0	-72.8	-76.1	20	31	31	
September	-12.0	-14.3	-11.0	-14.1	-13.0	-15.6	-15.4	-18.3	-20.7	-24.7	-27.9	-32.9	-37.5	-41.3	-48.5	-52.0	-60.6	-70.8	-72.2	-73.8	25	30	30	
October	-5.8	-7.4	-7.9	-10.6	-9.7	-12.9	-11.8	-15.3	-16.3	-21.4	-22.6	-29.1	-31.4	-36.9	-42.4	-49.0	-56.1	-66.8	-67.5	-67.1	41	41	41	
November	-5.6	-7.9	-6.8	-10.4	-9.3	-13.3	-12.0	-16.1	-18.0	-22.7	-25.3	-30.5	-33.7	-38.8	-44.5	-50.0	-56.1	-61.3	-60.1	-58.1	31	31	31	
December	-1.1	-3.3	-5.0	-8.3	-7.7	-11.1	-10.4	-13.8	-16.3	-19.9	-23.7	-28.3	-31.7	-37.7	-41.9	-41.7	-54.0	-54.9	-51.2	-46.9	29	31	31	
Total	-104.8	-131.7	-107.0	-144.8	-131.6	-171.5	-158.7	-200.3	-217.4	-268.1	-296.8	-356.5	-400.3	-454.0	-528.9	-568.9	-665.5	-704.2	-702.8	-712.8	3081	114840	-748.6	
Mean	-8.7	-11.0	-8.9	-12.1	-11.0	-14.3	-13.2	-16.7	-18.1	-23.3	-24.7	-29.7	-33.4	-39.5	-44.1	-47.4	-55.5	-58.7	-58.6	-59.4	257	9570	-62.4	

## Upper Air Means Table II for Argentine Islands, 1959.

MONTH	MEAN HEIGHTS ABOVE M.S.L. OF STANDARD PRESSURE LEVELS (metres) <sup>22</sup>										
	900 mb.	850 mb.	800 mb.	700 mb.	600 mb.	500 mb.	400 mb.	300 mb.	200 mb.	150 mb.	100 mb.
January	<sup>31</sup> 707	<sup>31</sup> 1153	<sup>31</sup> 1622	<sup>31</sup> 2642	<sup>31</sup> 3796	<sup>31</sup> 5122	<sup>31</sup> 6684	<sup>31</sup> 8600	<sup>31</sup> 11290	<sup>31</sup> 13220	<sup>31</sup> 15960
February	<sup>31</sup> 728	<sup>31</sup> 1172	<sup>31</sup> 1638	<sup>31</sup> 2651	<sup>31</sup> 3795	<sup>31</sup> 5115	<sup>30</sup> 6662	<sup>30</sup> 8570	<sup>30</sup> 11240	<sup>29</sup> 13160	<sup>28</sup> 15870
March	<sup>34</sup> 733	<sup>34</sup> 1179	<sup>34</sup> 1648	<sup>34</sup> 2667	<sup>34</sup> 3819	<sup>33</sup> 5136	<sup>33</sup> 6691	<sup>33</sup> 8590	<sup>32</sup> 11240	<sup>32</sup> 13140	<sup>30</sup> 15800
April	<sup>41</sup> 788	<sup>41</sup> 1226	<sup>41</sup> 1688	<sup>41</sup> 2695	<sup>41</sup> 3835	<sup>41</sup> 5144	<sup>41</sup> 6683	<sup>41</sup> 8570	<sup>40</sup> 11150	<sup>39</sup> 12990	<sup>32</sup> 15600
May	<sup>31</sup> 675	<sup>31</sup> 1111	<sup>31</sup> 1570	<sup>31</sup> 2567	<sup>31</sup> 3693	<sup>31</sup> 4984	<sup>31</sup> 6498	<sup>31</sup> 8370	<sup>31</sup> 10930	<sup>30</sup> 12740	<sup>30</sup> 15260
June	<sup>30</sup> 815	<sup>30</sup> 1257	<sup>30</sup> 1722	<sup>30</sup> 2731	<sup>30</sup> 3868	<sup>30</sup> 5169	<sup>30</sup> 6694	<sup>30</sup> 8560	<sup>30</sup> 10850	<sup>30</sup> 12870	<sup>28</sup> 15360
July	<sup>42</sup> 725	<sup>42</sup> 1154	<sup>42</sup> 1606	<sup>42</sup> 2591	<sup>42</sup> 3706	<sup>42</sup> 4987	<sup>42</sup> 6494	<sup>41</sup> 8350	<sup>41</sup> 10830	<sup>39</sup> 12570	<sup>27</sup> 15070
August	<sup>31</sup> 750	<sup>31</sup> 1187	<sup>31</sup> 1616	<sup>31</sup> 2645	<sup>31</sup> 3773	<sup>31</sup> 5062	<sup>31</sup> 6573	<sup>31</sup> 8420	<sup>31</sup> 10870	<sup>29</sup> 12560	<sup>23</sup> 14910
September	<sup>30</sup> 687	<sup>30</sup> 1125	<sup>30</sup> 1585	<sup>30</sup> 2583	<sup>30</sup> 3708	<sup>30</sup> 4992	<sup>30</sup> 6497	<sup>30</sup> 8340	<sup>30</sup> 10790	<sup>28</sup> 12480	<sup>25</sup> 14860
October	<sup>45</sup> 777	<sup>45</sup> 1220	<sup>45</sup> 1685	<sup>45</sup> 2699	<sup>44</sup> 3847	<sup>44</sup> 5161	<sup>44</sup> 6706	<sup>44</sup> 8590	<sup>44</sup> 11120	<sup>43</sup> 12830	<sup>40</sup> 15250
November	<sup>31</sup> 642	<sup>31</sup> 1086	<sup>31</sup> 1552	<sup>31</sup> 2561	<sup>31</sup> 3697	<sup>31</sup> 4999	<sup>31</sup> 6529	<sup>31</sup> 8640	<sup>31</sup> 10940	<sup>31</sup> 12730	<sup>31</sup> 15260
December	<sup>31</sup> 745	<sup>31</sup> 1192	<sup>31</sup> 1661	<sup>31</sup> 2677	<sup>31</sup> 3819	<sup>31</sup> 5131	<sup>31</sup> 6763	<sup>31</sup> 8570	<sup>31</sup> 11150	<sup>31</sup> 12100	<sup>29</sup> 15660
Total	8772	14062	19623	31709	45356	61002	79474	102170	132400	153390	184860
Mean	731	1172	1635	2642	3780	5083	6623	8514	11033	12783	15405

















# Upper Air Frequency Table VIII for Argentine Islands, 1959.

RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations in 10% ranges for all ascents: - 5

MONTH	700 mb.										600 mb.										500 mb.										400 mb.																				
	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=	0	10	20	30	40	50	60	70	80	90	=							
	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>	to	to	to	to	to	to	to	to	to	to	>							
g	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100								
January				1	4	1	3	10	9	3				1	3	1	7	7	3	7	2					1	6	6	7	7	4					1	6	5	3	3											
February					1	4	6	6	13	1					3	4	9	9	6					5	8	7	10	1					1	4	1	4	3														
March		1		1	2	1	2	6	16	5				4		5	1	10	12	2					1	3	5	5	15	4					1	4	4	5													
April		1			7	8	13	4	7	1		1		6	11	8	6	3	5	1		1	1	6	10	9	4	4	3				2		2	2	1	2	1												
May				3	1	4	6	7	6	4			1	1	5	3	8	4	8	1				2	2	2	6	3	4	2					1		3	1													
June					4	3	4	8	8	3				1	9	3		6	11				2	8	4	3	10	1					1		1	1															
July				3	6	4	4	9	12	4			1	3	3	7	5	6	11	4				1	3	4	6		11		1				1	1															
August				1	2	4	3	7	11	3				2	5	1	9	11	3				1	1	4	4	10	5								1															
September			1	2		3	4	11	9			2	1	2	6	5	9	5				1	1	3	2	10	6	1								1															
October			2	3	2	4	8	15	10	1		1	1	5	6	7	11	9	4				1	8	9	6	7	6	1		1			6	2	5	1														
November		1		2	1	3	3	9	10	1			1		3	1	5	3	11	6		1		1	1	3	5	9	7	2								1	2												
December					2	2	6	9	12				1	4	4	6	12	4					3	7	6	10	5					1	3	1	1																
Year		3	3	16	32	41	62	101	123	26			3	6	30	50	60	70	93	82	10		1	1	8	29	64	67	75	90	19		1	1	1	4	10	22	24	16	12	1									

## Upper Air Frequency Table IX for Argentine Islands, 1959.

MONTH	MEAN WIND SPEED	WINDS at STATION LEVEL : Number of observations at all ascents of :-																								NUMBER OF ASCENTS		
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)													
	KNOTS	1 to 9	10 to 19	20 to 29	30 to 39	40 to 59	60 to 79	80 to 99	100 to 119	120 to 139	140 to 159	160 to 179	>179		345 to 014	015 to 044	045 to 074	075 to 104	105 to 134	135 to 164	165 to 194	195 to 224	225 to 254	255 to 284	285 to 314		315 to 344	
January	4.8	21	2											8	3	1	2	1			6	5	3		2			31
February	5.7	18	5	1										7	1	3		1	1	2	4	7	3	1		1		31
March	7.9	15	6	4	1									8	3	9	3		1		2	3	3		1	1		34
April	3.3	16	4											21	2		1				4	8	4	1				41
May	7.0	8	8	1	1									13	1	2	1	1		3	3	6	1					31
June	7.3	12	6	3										9	4	4	1			1	8	2		1				30
July	5.2	14	6	2	1									19		2	2	1	2	1	9	5	1					42
August	6.1	10	7	2										12		5		2		1	4	2	5					31
September	6.5	16	4	2										8	5	2	2		1	1	7	2	1	1				30
October	8.5	23	15	3										4	6	10	1	1			10	6	2	1	3	1		45
November	8.2	13	11	2										5	3	6	2	1	2		5	4	1		2			31
December	5.5	14	7											10	4	5	1		1	1	2	4	1		1	1		31
Year	6.3	180	81	20	3									124	32	49	16	8	8	10	64	54	25	5	9	4		408

## Upper Air Frequency Table X to XX for Argentine Islands, 1959.

TABLE NUMBER	PRESSURE LEVEL	MEAN WIND SPEED KNOTS	WINDS at STANDARD LEVELS : Number of observations at all ascents of :-																							NUMBER OF ASCENTS			
			SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)													
			1	10	20	30	40	60	80	100	120	140	160	>179		345	015	045	075	105	135	165	195	225	255		285	315	
			to	to	to	to	to	to	to	to	to	to	to	>		to	to	to	to	to	to	to	to	to	to		to	to	
9	19	29	39	59	79	99	119	139	159	179		014	044	074	104	134	164	194	224	254	284	314	344						
X	900 mb.	9.4	54	27	4	1											3	4	6	4	11	7	18	26	2	3	1	1	86
XI	850 mb.	10.8	45	32	7	1											1	8	7	3	9	6	13	27	4	2	4	1	85
XII	800 mb.	13.6	27	39	12	2											2	7	8	5	2	5	15	22	9	1	2	2	80
XIII	700 mb.	16.3	18	35	11	8											3	3	7	2	2	6	16	16	11	2	2	2	72
XIV	600 mb.	18.4	14	23	15	10											4	2	2	2	1	5	14	11	6	5	3	1	56
XV	500 mb.	23.4	5	20	16	11	4										1	3	1	2	1	8	8	12	6	4	3	3	52
XVI	400 mb.	28.8	4	17	7	14	8	1	1								2	2	1	1	1	5	9	12	7	3	5	1	49
XVII	300 mb.	32.5	4	15	9	3	13	4	1										1		1		5	17	7	6	6	2	45
XVIII	200 mb.	33.1	6	10	7	11	8	1	2								1					1	6	12	9	3	5	3	40
XIX	150 mb.	32.5	4	8	9	9	6	2	2														2	12	13	4	6	2	39
XX	100 mb.	32.8	5	8	8	7	7	2	1	1																			















## Upper Air Frequency Table XXVII for Argentine Islands, 1959.

HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges:— <sup>22</sup>

MONTH

400 mb. Mean height 6,623 metres. I.C.A.N. height 7,185 metres.

	597	600	603	606	609	613	615	618	621	624	627	630	633	636	639	642	645	648	651	654	657	660	663	666	669	672	675	678	681	684	687	690	693	696	699	702	705	708	711	714	717	720	723	726	729							
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to				
	599	602	605	608	611	614	617	620	623	626	629	632	635	638	641	644	647	650	653	656	659	662	665	668	671	674	677	680	683	686	689	692	695	698	701	704	707	710	713	716	719	722	725	728	731							
January																			1	4	2	2	5	3	1	4	2	1	1	3	1		1																			
February															1						2	3	2	5	4	5	1	4	2				1																			
March																			3	2	2	6	3	3	1	3	1	3		1	1		3			1																
April										1			1	1		1	1	1	3	2	3	2	2	3	2	1	2	2		2	3	3	2	3																		
May										6		1	1	4	2	3	1		1			1	1	2	2	2	2	1			1	1			1																	
June																		2		2	1		3	6	4	2	2	2	3	1	1	1		1																		
July							2		2	1	1	6	2	4	3	3	1	2	1	2			3	3			1			1	2		2																			
August												1		1	2	1	1	1	2	3	3	4	5	1	4	1	1																									
September						1		1				2	3	1	1	3	3	1	1	1		2	2	3	4	1																										
October											1	1	2		4	2	2		4	1	2	1				1			3	4	4	4	3	1	1	1				1				1								
November										1	1	2	2	1	2	1	2	3	2	3	1		3	2	1			1				1	1																			
December															1	1		1	1	1	2	3	3	2	4	4		3	1	1	2																					
Year						1		2	1	10	3	8	15	10	17	13	13	12	16	25	20	24	33	32	32	19	14	14	9	15	14	11	10	5	3	2						1						1				











Means and Extremes Table I for Horseshoe Island, Grahamland, 1959.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	-1-2 DAILY MEAN	EXTREMES <sup>3</sup>				MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN DAILY <sup>1</sup>		EXTREMES <sup>1</sup>			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300	MAX.	MIN.	MAX.	DATE	MIN.	DATE	
January	984.5	1006.5	3rd	961.3	10th	27.4	27.1	29.3	31.3	32.3	32.0	30.4	28.2	29.7	35.1	24.1	41	24th, 30th	9	29th
February	987.0	1006.3	17th	963.5	11th	22.6	22.0	23.4	25.6	26.9	26.2	25.1	22.7	24.3	30.0	18.1	40	1st, 2nd	3	17th
March	985.5	1001.5	10th	965.4	19th	26.5	26.3	26.9	28.2	29.6	28.9	27.2	26.6	27.5	32.5	22.7	42	13, 14, 18	1	24th
April	998.1	1019.8	12th	976.4	17th	3.0	2.6	3.1	4.9	6.6	4.3	3.7	3.4	3.9	11.8	-2.9	29	24th	-38	28th
May	984.3	1015.0	9th	965.6	3rd	4.3	3.5	3.3	3.9	4.6	3.9	3.2	4.0	3.8	12.9	-5.1	35	11th	-28	20th
June	997.8	<u>1020.8</u>	<u>7th</u>	973.7	23rd	18.6	18.2	18.9	17.2	17.1	18.2	17.6	16.7	17.8	24.6	10.2	37	22nd	-15	7th
July	993.6	1017.4	26th	962.6	17th	-10.3	-9.8	-10.3	-8.2	-9.2	-9.9	-8.8	-10.3	-9.6	3.4	-21.5	31	29th	<u>-51</u>	<u>22nd</u>
August	992.4	1012.6	16th	972.4	20th	7.2	7.1	6.8	7.0	8.2	8.0	7.8	7.5	7.5	16.3	-2.7	36	8th	-32	28th
September	982.6	1008.6	8th, 9th	947.3	27th	8.6	7.6	8.9	11.6	12.2	10.8	10.0	9.4	9.9	18.4	1.8	38	14th	-22	5th
October	986.1	1017.7	10th	957.5	5th	21.2	21.9	22.9	24.3	25.1	24.3	23.0	21.9	23.1	29.2	15.1	39	20th	-19	18th
November	976.3	1012.1	20th	<u>945.5</u>	<u>27th, 28th</u>	19.6	19.3	21.7	24.3	25.7	24.7	23.2	21.1	22.5	28.4	16.1	39	23rd	-4	17th
December	988.3	1009.4	29th	965.4	5th	30.7	30.3	32.4	34.4	34.4	34.2	32.6	31.5	32.6	36.5	28.8	<u>44</u>	<u>12th</u>	12	1st
Total	11856.5	12147.7	—	11556.6	—	179.4	176.1	187.3	204.5	213.5	205.6	195.0	182.7	193.0	279.1	104.7	451	—	-184	—
Mean	988.0	1012.3	—	963.1	—	14.9	14.7	15.6	17.0	17.8	17.1	16.3	15.2	16.1	23.3	8.7	37.6	—	-15.3	—

Means and Extremes Table II for Horseshoe Island, Grahamland, 1959.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT <sup>1</sup>								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300		REC.	EST.				
January	78	77	74	73	71	70	73	78	74	6.4	6.6	6.4	6.5	6.5	6.2	6.1	6.4	6.4	6.2		22.7			
February	78	80	78	74	72	73	73	78	76	5.6	6.3	6.7	6.5	5.9	5.6	6.1	5.6	6.0	4.6		17.6			
March	73	75	75	73	70	72	74	74	73	5.9	6.9	6.9	6.5	6.7	6.5	6.4	6.0	6.5	2.5		13.5			
April	80	81	82	80	78	80	81	83	81	3.1	4.2	4.6	4.3	5.0	4.7	4.0	3.7	4.2	3.1		9.6			
May	75	75	75	75	74	76	75	75	75	4.5	4.5	5.5	5.6	5.3	5.4	5.2	5.0	5.1	0.5	Not recorded	5.3	Not recorded	Not recorded	Not recorded
June	73	74	72	74	74	72	73	74	73	5.3	5.5	5.6	5.9	5.8	5.4	5.7	4.8	5.5	0.0		0.6			
July	81	80	81	82	81	81	82	81	81	3.1	3.1	4.0	4.6	4.7	4.3	3.5	4.3	3.9	0.5		2.9			
August	76	78	79	79	77	76	77	78	77	5.4	5.6	5.6	6.0	6.0	6.0	5.9	5.5	5.7	1.2		7.8			
September	77	77	75	72	73	75	75	75	75	6.8	7.2	6.7	6.9	6.6	6.9	7.0	6.8	6.9	1.9		11.8			
October	76	74	71	70	74	77	78	78	75	6.8	7.3	7.0	7.0	6.9	6.8	6.5	6.8	6.9	2.5		17.9			
November	77	77	74	70	69	71	74	77	74	6.1	6.3	6.0	6.3	6.1	6.3	5.9	6.1	6.1	5.9		20.8			
December	75	76	72	64	66	68	72	75	71	6.9	7.1	6.9	6.7	6.4	6.8	6.7	6.8	6.8	4.9		24.0			
Total	919	924	908	886	879	891	907	926	905	65.9	70.6	71.9	72.8	71.9	70.9	69.0	67.8	70.0	33.8		154.5	—	—	
Mean	77	77	76	74	73	74	76	77	75	5.5	5.9	6.0	6.1	6.0	5.9	5.7	5.7	5.8	2.8		12.9	—	—	

# Frequency Table I for Horseshoe Island, Grahamland, 1959.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. <sup>1</sup>																				
	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0	1005.0	1010.0	1015.0	1020.0	1025.0	1030.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	934.9	939.9	944.9	949.9	954.9	959.9	964.9	969.9	974.9	979.9	984.9	989.9	994.9	999.9	1004.9	1009.9	1014.9	1019.9	1024.9	1029.9	1034.9
January							4	5	28	19	86	38	39	17	10	2					
February							3	13	18	18	27	44	55	33	6	7					
March								7	3	41	67	59	41	27	3						
April										5	25	24	25	65	23	47	14	12			
May										12	62	53	12	28	29	17	16	10	8	1	
June										4	6	7	30	45	65	29	23	13	13	5	
July							1	2	11	16	26	34	61	36	16	20	9	16			
August										9	35	36	25	44	25	27	34	13			
September				10	5	8	16	14	15	30	28	28	23	35	13	15					
October						6	16	33	26	17	18	18	14	40	28	24	5	3			
November				13	9	19	16	31	42	30	19	5	4	19	17	10	6				
December								21	26	18	31	40	35	19	44	14					
Year				23	14	33	56	138	244	288	382	373	415	398	232	206	68	45	5		



Frequency Table III for Horseshoe Island, Grahamland, 1959.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	<	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	= >
	15	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	100
January							7	9	22	27	7	9	17	34	36	34	25	19	2
February						1		7	19	16	23	13	26	24	16	16	38	24	1
March						1	1	11	18	17	18	21	35	32	35	33	18	8	
April									2	9	13	13	20	28	49	66	31	9	
May				1		3	5	12	13	11	13	12	22	33	54	41	25	1	2
June						7	14	11	7	11	6	18	27	39	31	37	25	4	3
July								2	2	4	6	10	24	44	72	38	43	3	
August							5	1	7	16	22	12	15	24	62	55	27	2	
September						1	2	10	13	12	20	19	22	28	30	59	22	2	
October				3		2	4	8	10	13	10	19	35	38	33	41	21	11	
November						2	6	16	9	12	10	26	27	30	35	38	24	4	1
December						2	16	15	11	9	18	32	34	28	31	30	17	5	
Total				4		19	60	102	133	157	166	204	304	382	484	488	316	92	9
Mean				-		2	5	9	11	13	14	17	25	32	40	41	26	8	1

# Frequency Table IV for Horseshoe Island, Grahamland, 1959.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)															No Cloud					
	<40m	40m - 200m	200m - 400m	400m - 1km	1km - 2km	2km - 4km	4km - 10km	10km - 20km	20km - 40km	>40km	0	1-2	3-5	6-7	8	9	ALL AMOUNTS										7-8 OKTAS									
																	0	30	60	120	300	600	1200	2400	6000	=	0	30	60	120		300	600	1200	2400	=
																	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	> 6000	to 30	to 60	to 120	to 300	to 600		to 1200	to 2400	to 6000	> 6000	
January			2	5	3	24	31	26	157	73	55	13	33	72	2	7		4	26	37	43	58	55	15	2		3	13	10	16	9	11	3	3		
February			1	3	4	5	23	31	34	123	76	48	13	30	57		8	1	3	38	20	27	51	57	3	1		13	6	3	7	6		16		
March				1	3	8	31	32	52	121	52	49	22	45	78	2	2		1	6	33	94	60	35	11	2		4	19	48	18	13	1	6		
April		1	4	6	5	8	30	22	10	154	113	32	9	25	52	9	9		1	14	14	51	38	49	20	9		6	7	29	18	7	3	44		
May			7	9	6	13	32	41	14	126	102	36	11	43	47	9	12	3	4	4	21	35	67	79	3	9	3	3	4	9	19	31	16		20	
June		1	3	8	10	10	18	15	47	128	70	39	33	41	52	5	5	4	1	4	18	36	102	41	5	5		1	11	18	42	8	1	24		
July		7	3	5	6	12	14	16	21	164	138	28	9	26	36	11	13	2	2	8	2	38	45	54	34	11		1	6	2	22	23	8	3	50	
August		2	2	13	10	16	29	31	42	103	69	33	19	39	80	8	8	2	1	21	24	60	63	34	14	8	1	1	9	17	42	26	5	4	21	
September		5	2	15	5	11	27	56	53	66	47	30	11	46	94	12	14	2	3	13	20	58	83	34	12	12	2	1	9	15	39	52	16	2	1	
October		2	6	20	8	12	32	24	39	105	42	26	17	45	100	18	18		1	10	24	81	72	39	3	18		1	6	15	60	37	8			
November				2	7	7	27	20	38	139	59	36	13	46	85	1	1			21	37	51	71	46	5	1		12	9	24	28	11	2	8		
December			1	1	5	16	25	50	150	27	50	16	75	79	1	1	4	2	28	22	83	81	23	4	1	1		9	6	22	15	3	3			
Total	-	18	28	85	70	110	303	344	426	1536	868	462	186	494	832	78	98	18	23	193	272	657	791	546	129	79	7	10	92	126	342	306	112	22	193	
Mean	-	1	2	7	6	9	25	29	35	128	72	39	15	41	69	7	8	1	2	16	23	55	66	45	11	7	1	1	8	11	29	25	9	2	16	

Frequency Table V for Horseshoe Island, Grahamland, 1959.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9	9	10 & 18	10	10	10 & 18	10	11	11	12	13	14	10 & 15	10 & 16		10 & 17		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND FORCE = ^ 6	WIND FORCE = ^ 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	Fog		HAIL		
	>32°F	<5°F	<-4°F	>41°F	=	=	=														True	Pseudo	True	Small	Soft
January							5	3	1	16	1	3		17					3		2				
February							9	3		14	1			17	1				12		4	1			
March	5			3			14	1	6	15	2			23					7			3			
April		7	10		Not recorded	Not recorded	7	1		14		4		10	6				10	1	1	5			
May		5	17		Not recorded	Not recorded	10	4		13		1		9	3				17		6	5			
June		1	5		Not recorded	Not recorded	4		2	10	2	1		15	3				11		2	5			
July		16	25		Not recorded	Not recorded	9	4	1	11		2		8	8				15			5			
August		5	15		Not recorded	Not recorded	10	3		18	2			17	3				18		1	10			
September		3	6				13	3		15	3			21					21	1	4	6			
October	2		2				14	3	1	20	2			23					19			12			
November							7	3		17	1	1		19	2				18			4			
December	5			3			6	3	2	16	3	1		24					2	1	1	1			
Total	12	37	80	6			108	31	13	179	17	13	0	203	26				153	3	21	57	0	0	0
Mean	1	3	7	1			9	3	1	15	1	1	-	17	2				13	-	2	5	-	-	-



Frequency Table VI for Horseshoe Island, Grahamland, 1959.

MONTH	MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	8 or more	6 to 7	4 to 5	1 to 3	CALM	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
January	9.5	13	21	46	125	43	6	32	41	42	1	2	7	30	34	6	2	2	
February	9.4	9	22	50	95	48	5	28	47	31		4	12	22	22	2	3		
March	11.9	1	32	101	78	36	14	75	70	28	1	1	3	8	7	3	1	1	
April	4.8	1	11	28	80	120	8	15	24	12		2	8	16	21	8	5	1	
May	11.0	13	34	55	75	71	4	31	66	30	2	2	9	11	11	2	1	8	
June	9.9		20	81	101	38	8	78	67	15	5		3	5	9	6	4	2	
July	7.5	11	11	51	70	105	7	16	24	38	4	2	3	8	11	10	15	5	
August	10.9	6	30	72	94	46	3	34	66	35	2	1	11	20	11	12	3	4	
September	11.5	11	34	70	88	37	13	26	66	42			5	9	23	9	6	4	
October	12.4	4	23	115	89	17	10	27	97	44	2	3	9	11	12	8	5	3	
November	10.0	9	22	56	108	45	2	23	50	47	1	1	11	18	27	12	1	2	
December	9.2	5	21	59	137	26	8	46	52	41			8	24	21	10	10	2	
Total	118.0	83	281	784	1140	632	88	431	670	405	18	18	89	182	299	88	56	34	
Mean	9.8	7	23	65	95	53	7	36	56	34	1	1	7	15	17	7	5	3	

# Frequency Tables VII to X for Horseshoe Island, Grahamland, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	4	1	5	1	1	3	15	11	4		2	50
2	1	3	2	2		1	3	12	13		2		39
3		10	12	1			1	3	7	2			36
4	1	13	10	5					3				32
5	1	2	4	7									14
6			3	7									10
7			4	7									11
≥ 8			5	8									13
Totals	6	32	41	42	1	2	7	30	34	6	2	2	205

CALMS - 43

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	2	2	2		4	10	9	10	2	2		44
2		4	10				1	10	4		1		30
3		4	8	1			1	3	4				21
4	3	13	10	4					2				32
5	1	4	6	5					2				18
6		1	4	2									7
7			5	10									15
≥ 8			2	7									9
Totals	5	28	47	31		4	12	22	22	2	3		176

CALMS - 48

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	3	3	4	1			4	1	1	1		20
2	1	8	4				1	4	2	2			22
3	1	11	14	3			2		4			1	36
4	4	24	20	7	1								56
5	5	16	17	7									45
6	1	11	10	4									26
7		2	2	2									6
≥ 8				1									1
Totals	14	75	70	28	1	1	3	8	7	3	1	1	212

CALMS - 36

TABLE X — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1	2	1		1	3	10	7	3	3		33
2	2	2	1				1	3	3		2	1	15
3	3	6	8	2		1	4	3	4	1			32
4	1	5	6	2					3				17
5			3	3					3	2			11
6		1	4	2					1	2			10
7				1									1
≥ 8				1									1
Totals	8	15	24	12		2	8	16	21	8	5	1	120

CALMS - 120

# Frequency Tables XI to XIV for Horseshoe Island, Grahamland, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XI — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	3	2		1	1	6	3	5	1	1	2	27
2		5	1	2		1	1	3	3			2	18
3	1	9	10		1		2	4	2	1			30
4	1	9	14	1				1	1				27
5		3	21	3								1	28
6		1	6	8								3	18
7		1	5	10									16
≥ 8			7	6									13
Totals	4	31	66	30	2	2	9	11	11	2	1	8	177

CALMS - 71

TABLE XII — JUNE.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		4	4	3	5		1	2	3	1	2	1	26
2	2	5	5	1			1	1	3	1	2		21
3	2	25	18	2			1	2	2	1		1	54
4	1	25	24	1					1	1			53
5	3	9	12	3						1			28
6		5	4	2						1			12
7		5		3									8
≥ 8													
Totals	8	78	67	15	5		3	5	9	6	4	2	202

CALMS - 38

TABLE XIII — JULY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	5	6	1	1	2	2	4	2	4	4	4	39
2	2	2		3	1			1	2			1	12
3		1	7	3	1			1	4	2			19
4		4	4	6			1	2	2	2	2		23
5	1	3	6	10					1	1	6		28
6		1		5	1					1			8
7											3		3
≥ 8			1	10									11
Totals	7	16	24	38	4	2	3	8	11	10	15	5	143

CALMS - 105

TABLE XIV — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1		2	2	2	1	4	4	3	3	2	2	26
2		4	2	1			5	5	4		1	2	24
3		9	15	2			2	9	4	3			44
4	1	9	23	5				2		2			42
5	1	11	10	6						2			30
6		1	13	5									19
7				9						2			11
≥ 8			1	5									6
Totals	3	34	66	35	2	1	11	20	11	12	3	4	202

CALMS - 46

# Frequency Tables XV to XVIII for Horseshoe Island, Grahamland, 1959.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE XV — SEPTEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	8	3	3	3			2	5	10	6	4	3	47
2	5	1		2			1	2	8		1	1	21
3		3	8	1			1	2	4		1		20
4		10	26	8			1			1			45
5		3	18	2					1	1			25
6		5	11	5						1			22
7		1		10							1		12
>= 8				11									11
<b>Totals</b>	<b>13</b>	<b>26</b>	<b>66</b>	<b>42</b>			<b>5</b>	<b>9</b>	<b>23</b>	<b>9</b>	<b>6</b>	<b>4</b>	<b>203</b>

CALMS - 37

TABLE XVI — OCTOBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	2	2	2	2		1		1			1		11
2	3	1	4	1			3	2	5	1	2	1	23
3	2	7	18	5	1	2	5	6	7	2			55
4	2	12	41	17				2				1	78
5	1	3	22	8	1		1					1	37
6		1	8	5						2			16
7		1	1	4							1		7
>= 8			1	2							1		4
<b>Totals</b>	<b>10</b>	<b>27</b>	<b>97</b>	<b>44</b>	<b>2</b>	<b>3</b>	<b>9</b>	<b>11</b>	<b>12</b>	<b>8</b>	<b>5</b>	<b>3</b>	<b>231</b>

CALMS - 17

TABLE XVII — NOVEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1		6	3	2			5	7	7	4		1	35
2		5	8	1	1		1	5	4	1		1	27
3	1	3	11	3		1	5	4	13	5			46
4	1	4	17	5				2	3	1	1		34
5		3	11	8									22
6		2		10						1			13
7				9									9
>= 8				9									9
<b>Totals</b>	<b>2</b>	<b>23</b>	<b>50</b>	<b>47</b>	<b>1</b>	<b>1</b>	<b>11</b>	<b>18</b>	<b>27</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>195</b>

CALMS - 45

TABLE XVIII — DECEMBER.

BEAUFORT FORCE	350	20	50	80	110	140	170	200	230	260	290	320	ALL DIR.
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	5	6	1	3			5	11	8	4	8	1	52
2	1	3	3	2			2	6	8	6	1	1	33
3		13	23	2			1	7	5		1		52
4	1	23	22	4									50
5	1		2	6									9
6		1	1	9									11
7				10									10
>= 8				5									5
<b>Totals</b>	<b>8</b>	<b>46</b>	<b>52</b>	<b>41</b>			<b>8</b>	<b>24</b>	<b>21</b>	<b>10</b>	<b>10</b>	<b>2</b>	<b>222</b>

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Frequency Table XIX for Horseshoe Island, Grahamland, 1959.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	350	20	50	80	110	140	170	200	230	260	290	320	
	to 10	to 40	to 70	to 100	to 130	to 160	to 190	to 220	to 250	to 280	to 310	to 340	
1	30	30	31	28	11	11	41	75	67	33	28	16	410
2	17	43	40	15	2	2	20	54	59	11	12	10	285
3	10	101	152	25	3	4	25	44	60	17	2	2	445
4	16	151	217	65		1	2	9	15	9	3	1	489
5	14	57	132	68	1		1		7	7	6	2	295
6	1	30	64	64	1				1	8		3	172
7		10	17	75						3	4		109
= > 8			17	65							1		83
Totals	88	431	670	405	18	18	89	182	209	88	56	34	2288

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