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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

ANNUAL REPORT

*for the year*

1956

*Presented to the Governor*

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Falkland Islands and Dependencies Meteorological Service

ANNUAL REPORT

FOR THE YEAR

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# Annual Report on the Falkland Islands and Dependencies Meteorological Service for 1956

## 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 are received from four stations in the Falklands, and these are also supervised by Stanley.

The chief Meteorological Officer is responsible to the Governor for the efficiency of the Service. The Director, 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, for shipping and the Government Air Service.
- (iii) The organisation of meteorological observations in the Falkland Islands and Dependencies, and the broadcasting of this information in the form of collective synoptic messages.
- (iv) The collection and publication of climatic data.
- (v) 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 1956-1957 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. 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, S.S. "Fitzroy", H.M. Ships Protector, Veryan Bay, the Whaler "Thordonn", M.Vs. "Oluf Sven", "Pretext", "Nance-S" and "Martin-S". The 1955-1956 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 11th. In the 1956-1957 whaling season, twice daily forecast bulletins for the area 70° to 40° W, south of 50° S, were commenced on the 1st December. Full details of these bulletins, including bulletins issued from South Georgia, are contained in the "Weather Messages" pamphlet issued in March 1957. A new feature of the 1956-1957 Stanley bulletins was the addition at 2130 G.M.T. of an analysis of the 1800 G.M.T. charts for the area south of 40° S, and from 80° W, to the meridian.

Two Canso aircraft of Hunting Aero Surveys Ltd., arrived at the beginning of the year for a survey of the Falkland Islands and Grahamland. Special forecasting arrangements were made for flights from and to Montevideo and between Stanley and Deception Island, while the crews were briefed as required for flights in the Falklands area. To assist flights over Grahamland, a forecaster was detached from Stanley for the period 11th January to the 26th March. The Cansos returned to Stanley in October, and the Falklands survey was completed during October/November. The aircraft left for Deception on the 9th December, and a forecaster was again sent from Stanley. The Grahamland survey was still in progress at the end of the year.

Numerous forecasts were supplied to sledging bases during survey operations, chiefly to Loubet Coast, Horseshoe Island and Signy Island.

(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 11th March. During the winter a daily forecast, for the South Georgia area, was distributed locally. In October, twice daily local forecasts were commenced, the area covered being extended, on request, to meet the requirements of local whaling. For the 1956–1957 whaling season, broadcasts were introduced in stages during December, with the complete programme of forecasts at 0215, 1515 and 2115 G.M.T. operative by the 31st.

Ships receiving individual forecasts during the year included the following:— Southern Garden, Polar Maid, Southern Opal, Entre Rios, Conquistador, Harpon, Southern Harvester, Teie, Kista Dan, Magga Dan, Tottan, Inch Douglas and Koratia.

### 3. Reporting Stations

Full synoptic reporting stations were maintained at Stanley, South Georgia, Signy Island, Admiralty Bay, Deception Island, Argentine Islands, Hope Bay and Horseshoe Island. Observations were taken at three-hourly intervals and pilot balloon ascents were made whenever possible. A new station at Loubet Coast, Grahamland, was opened during the year and commenced full synoptic observations on the 1st July. Due to staff shortages the 0600 and 0900 G.M.T. observations at Stanley were discontinued with effect from the 1st February. All synoptic reports, and the results of all pilot balloon ascents, were transmitted to Stanley in three radio schedules daily, except in January (see Communications below), but reports for intermediate hours were not included in the collective messages broadcast from Stanley. The broadcasts (FICOLS) were made at 1300, 1900 and 0000 G.M.T., the 0600 G.M.T. synoptic reports being included as retards in the 1300 G.M.T. transmission.

All stations were fully equipped and most carried one observer with experience in the British Meteorological Office. Observations were taken for some months at Viewpoint, about 16 miles south-west of Hope Bay, and also on some sledge journeys. These were included in FICOL messages when available, but only a few could be collected due to radio difficulties.

Owing to generator trouble no observations were received from Signy Island after the 8th December (see Communications below).

During the year some observations were received from the Trans-Antarctic Expeditionary Base, Shackleton, and the International Geophysical Year Base, Halley Bay. By the end of the year communications with the former were satisfactory, but regular schedules with the latter had not been established.

Subsidiary stations were maintained in the Falkland Islands at Fox Bay, Pebble Island and Darwin. Observations at these stations were made daily at 1200 G.M.T. and, in December, with the advent of a trained F.I.D.S. observer, an additional observation at 1800 G.M.T. was commenced at Pebble Island. The observer at West Point Island ceased to do a full 1200 G.M.T. observation at the end of June, but continued to report wind, weather and cloud. The reports were of a high standard and were invaluable for briefing the local Air Service. Observations were taken with sufficient regularity to form the basis of monthly and annual climatological summaries.

The possibility of an extra reporting station in the extreme west of the Falklands is being kept in mind as this would be of immense value.

To assist the survey flights in the Falklands (see Forecasting above), special observations on wind and weather were made by the farmers of the Falklands from the 22nd to the 27th October.

A Radio-sonde programme of one sounding daily was maintained throughout the year at Argentine Islands.

### 4. Ship Reports

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

Full synoptic reports were received from S.S. "Fitzroy", R.R.S. John Biscoe and R.R.S. Shackleton when at sea; 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.

(b) Whaling Vessels 1955-1956 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 were again included. A total of 1039 reports was received from January to March, of which 397 were in the Stanley and South Georgia forecast areas. Most of the reports received were less than 24 hours old. A number of the reports were from the Bellingshausen Sea, to the west of the Stanley forecast area, and these were very useful. The beginning of the collective was missed on several occasions due to over-lapping of the routines for the collection of observations from the Antarctic bases.

(c) Whaling Vessels 1956-1957 season.

The procedure adopted by South Africa was unchanged and reports were again transmitted at 1215 G.M.T. The beginning of these broadcasts was frequently missed due to over-lapping. During December 333 reports were received with 177 in forecast areas and about 50 west of 70° West, in the Bellingshausen Sea. Almost all were less than 24 hours old.

The omission of the movement and sea temperature groups from nearly all the whaling ship reports detracted greatly from the value of these observations.

### 5. Communications

Eight synoptic messages were collected daily from the main Antarctic stations and South Georgia in the three routines at 1200, 1800 and 2300 G.M.T. The results of pilot balloon ascents were included, when available, and the Argentine Islands "Temp" message was collected with the 1800 G.M.T. synoptic observations. Monthly "CLIMAT" messages were also received.

Additional collections were made at 0600 G.M.T. and 0900 G.M.T. in January, but, due to staffing problems at Stanley, these were discontinued with effect from the 1st February, and the two observations, together with that of 0300 G.M.T., were collected at 1200 G.M.T.

In addition to normal synoptic and administrative traffic, the W/T Section also handled about 350,000 groups in private letter telegrams addressed to bases. These telegrams were received as air letters from friends and relatives of base personnel, and up to 200 words per man were transmitted free each month. A similar service of 100 words per month per man in the opposite direction was maintained as in previous years.

Communications with the Antarctic bases were generally satisfactory, but some difficulties were experienced, the chief being as follows :-

- (i) No contact was made with Signy Island from the 8th December to 31st December.
- (ii) Due to transmitter trouble, Loubet Coast was unable to contact Stanley direct, and observations and messages were sent via Deception Island. Due to heavy traffic at the latter base, this led to considerable trouble in collection.
- (iii) Towards the end of the year South Georgia experienced considerable difficulty in receiving the 1300 G.M.T. FICOL due to interference, and it was decided to re-broadcast a selection of the observations at 1315 G.M.T.

Observations from the Falklands Out-Stations and plain language reports from farms were collected throughout the year by the Government R/T Operator.

Synoptic data for the four main hours, and daily upper air data from Argentine Islands and the Air Ministry Radio-sonde unit in Stanley, were transmitted in the FICOL collective broadcasts as follows :-

Contents (Times G.M.T.)	January 1st to April 30th inclusive.		Transmission Frequencies	
	Time of transmission G.M.T.		Main (kc/s).	Second (kc/s).
0600, 1200 Synops. } 1500 Mesran Temps. }	...	1300	16362	7425
1800 Synops., 1500 Temps.	...	1900	8190	14800 + 11450
2300 Synops.	...	2400	8190	7425

+ 1 week only commencing 25th February on request Rio.

May 1st to 3rd September inclusive

0600, 1200 Synops.	}	...	1300	16362	7425
1500 Mesran Temps.		...			
1800 Synops., 1500 Temps.		...	1900	8190	5100
2300 Synops.		...	2400	8190	3700

4th September to 30th November

0600, 1200 Synops.	}	...	1300	9800	7425
1500 Mesran Temps.		...			
1800 Synops, 1500 Temps.		...	1900	19800	14800
2300 Synops.		...	2400	12300	17400

1st December to 31st December

0600, 1200 Synops.	}	...	1300	19800	14800
1500 Mesran Temps.		...			
1800 Synops, 1500 Temps.		...	1900	9800	11450
2300 Synops.		...	2400	9800	11450

With effect from the 4th September the call sign "VPC" (Falkland Radio) was dropped and the use of "VPC" frequencies discontinued.

All FICOL transmissions have since used ZHF 88 (Meteor Falklands) registered frequencies only.

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

Time (G.M.T.)	Main Transmissions	Second Transmissions.
1500	8195 kc/s	7425 kc/s
2100	8195 kc/s	7425 kc/s

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

During the year efforts were made to establish contact with the T.A.E. base, Shackleton, and the International Geophysical Year base, Halley Bay (see Reporting Stations above).

Several efforts were also made to arrange schedules with Little America, the proposed Antarctic Weather Central for the International Geophysical Year, but up to the end of the year no success had been achieved.

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

The main transmissions of FICOLS, and the forecast bulletins for whalers, were made on a Marconi Standard transmitter at Falklands Radio (VPC), with a power output of about 3.5 kw. The secondary transmissions were made from Meteor Falklands (ZHF 88) on an RCA transmitter type ET 4336B, with a power output of about 0.35 kw. All broadcast transmissions were automatic. The frequencies used for the FICOL broadcasts were chosen with the first object of providing reliable reception in Rio de Janeiro and Simonstown, but frequencies chosen for the former should prove equally suitable for Buenos Aires, Montevideo and Santiago.

No difficulty was experienced when communicating with R.R.S. John Biscoe or R.R.S. Shackleton. It is therefore assumed that reception is satisfactory for whaling ships in the area, although no actual reception reports were received from these vessels.

At South Georgia, the issue of forecasts was undertaken by the Government W/T station (ZBH), and the transmissions at 0215, 1515, and 2115 G.M.T. were all made on the two frequencies, 500 and 8747 kc/s, with a power output of 0.8 kw.

Both Stanley and South Georgia Meteorological Offices listened regularly to the Argentine (LSV) and Chilean (CCS) national broadcasts containing synoptic data for 1200, 1800 and 2300 G.M.T. Reception of these broadcasts was not always satisfactory. Due to staff shortages no efforts were made to listen to South Africa, Australia and New Zealand, except for the whalers' broadcasts mentioned above (see Ship Reports).

## 6. Climatological and other Reports

Due to dilution of trained staff at bases, the climatological returns were much simplified and the practice of sending monthly extracts to Stanley was discontinued.

The Annual Meteorological Tables for 1954 were completed and sent to the printing office, but printing had not been completed by the end of the year.

A new edition of the "Weather Messages" pamphlet was prepared, but again printing could not be completed by the end of the year.

The Daily Weather Report was issued throughout the year, although with, at times, considerable delay due to lack of trained staff. For the same reason it was not possible to recommence the daily chart for 1200 G.M.T.

The Annual Report for 1955 was completed.

## 7. Organisation

The most important change in the organisation was the placing of technical control under The Director, Meteorological Office, Air Ministry, London (see Introduction).

Plans were made during the year to implement a programme of extended meteorological work and of scientific work allied to meteorology, during the International Geophysical Year commencing 1st July 1957. This programme will involve regular measurements of solar radiation, atmospheric ozone and terrestrial magnetism. Two physicists left Stanley for Argentine Islands near the end of the year.

Plans were discussed for the erection of a new F.I.D.S. Wireless Station near the Government Station. When this is in operation it is hoped to increase the FICOL broadcasts from 3 to 8 daily.

The detachment of a forecaster for the Aerial Survey (see Forecasting Services), and general staff shortages, prevented a visit to the Antarctic bases during the year. An Assistant from the Headquarter's Office at Stanley paid a brief visit to Fox Bay and West Point, in the Falklands, during November.

## 8. Staff

Staff shortages at Stanley became acute early in the year, and it was agreed that the Air Ministry, London, should take over the staffing of the Headquarter's office.

During the year a new Chief Meteorological Officer, Junior Forecaster, Senior Assistant, and two Assistants arrived from the United Kingdom. Two other Assistants had left England for Stanley by the end of the year.

On the bases, the staff problem was even more difficult, due to shortage of trained personnel capable of assuming the duties of Senior Meteorological Observer. One base was left with three observers whose total previous meteorological experience was eight weeks. During the year Air Ministry were unable to release any personnel except for a Senior Assistant, Radio Sonde, for Argentine Islands, so that in allocating staff for 1957, one base was again left without an experienced observer.

The Radio Section at Stanley was staffed for a time by one locally entered Wireless Operator and three locally recruited apprentices, but during the year a new Senior Wireless Operator and two Wireless Operators (all United Kingdom trained) were added to the staff.

Staff serving during the year are listed in Appendix II.

## 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 much of the equipment was purchased. There were no important shortages of equipment.

It was learned during the year that the Company manufacturing "Dewcel" instruments had opened a branch in England, and two recorders were ordered.

In connection with the investigation of wind speed at Sapper Hill, Stanley, another year's records were analysed, but it was decided to wait until April 1957 (when three years records could be completed), before sending in a full report on the suitability of the site for large scale generation of electricity.

### 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, 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.

Abbreviated versions of the daily upper air ascents from Stanley and Argentine Islands were transmitted on the following morning in the MESRAN code for the South African Weather Bureau.

The 1800 G.M.T. FICOL was broadcast on a special frequency of 14800 kc/s for one week in February at the request of the Meteorological Office at Rio de Janeiro (see Communications).

A gift of 2,000 special meteorological charts of the Antarctic was received from the United States Weather Bureau.

At the request of The Director, United States Weather Bureau, the Daily Weather Reports were sent by airmail to Washington for the period May to September 1956.

### APPENDIX I

#### *Provision in Dependencies Estimates for Meteorological Services July 1956 - June 1957*

HEADQUARTERS						£
Head 4A	Personal Emoluments	...	...	...	...	11,677
..	4B Other Charges (Stores, Equipment, etc.)	...	...	...	...	1,915
..	4C Special Expenditure (including publications)	...	...	...	...	135
Total Headquarters Expenditure						£13,727
SOUTH GEORGIA						
Head 1A	Personal Emoluments (Meteorological Staff)	...	...	...	...	1,900
..	1B Meteorological Equipment	...	...	...	...	350
Total South Georgia Expenditure						£2,250
ANTARCTIC REPORTING STATIONS						
Head 5A	Personal Emoluments (Meteorological Staff)	...	...	...	...	17,911
..	5B Meteorological Equipment etc.	...	...	...	...	10,500
..	5C Special Expenditure (including experimental equipment, and new bases etc.)	...	...	...	...	6,000
Total Antarctic Bases Expenditure						£34,411
Total Expenditure — F.I.D.S.						£50,388

#### *Provision in Colony's Estimates for Meteorological Services July 1956 — June 1957 \**

Head VIII (a)	Personal Emoluments, part-time observers	...	...	...	...	100
..	(b) 2 Contribution towards cost of Headquarters	...	...	...	...	1,000
..	(b) 3-7 Stores, Equipment, etc.	...	...	...	...	510
Total Expenditure — Colony						£1,610
GROSS TOTAL						£51,998

\* Previous year should have read June, 1956, not March.

APPENDIX II

Staff List - 1956

STANLEY

Chief Meteorological Officer	-	{ G. A. Howkins (till May) P. A. Canning (from August)
Deputy and Radio-Sonde Forecaster	-	S. D. Glassey
	-	D. B. B. Powell (from June)
Senior Assistant	-	{ J. Ford (till June) R. A. Smith (from June)
* Assistants	-	P. H. Hoare J. Witcombe (from February) A. Freer (from February to November) J. Stephenson (arrived December) R. Woods (arrived December)
Senior Wireless Operator	-	L. Tyson (January-April, returned Sept.)
W/T Operators	-	J. Newing G. Davis (arrived December) S. Ward (arrived December)
Apprentice W/T Operators		J. E. Cheek C. A. Lehen R. Summers
Clerks	-	I. U. Sedgwick (Miss) (till February) D. M. Davies (Miss) (from March) † E. Reive (Miss)

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

† With effect from May, Miss Reive's duties were divided between the Meteorological Office and F.I.D.S. Office.

SOUTH GEORGIA

Forecaster-in-Charge	-	D. Borland
Senior Meteorological Assistant	-	J. McNerney
Meteorological Assistants	-	N. H. Smith A. Freer (arrived November)

BASES — WINTER STAFF ONLY.

DECEPTION ISLAND

Senior Meteorological Assistant	-	C. Johnstone
Meteorological Assistants	-	J. W. Fellows L. Maloney J. P. Smith

HOPE BAY

Base Leader/Senior Met. Assistant	-	R. F. Worswick
Meteorological Assistants	-	L. Catherall G. M. Larmour J. R. Noble P. B. Thompson R. I. Walcott

ARGENTINE ISLANDS

Base Leader/Met. Assistant	-	N. A. Hedderley
Senior Meteorological Assistant	-	D. McNab
Meteorological Assistants	-	G. R. Ibbotson R. Todd-White

ADMIRALTY BAY

Senior Meteorological Assistant	-	D. K. Brown
Meteorological Assistants		G. E. Broome R. W. Tuft

SIGNY ISLAND

Base Leader/Met. Assistant	-	W. L. N. Tickell
Senior Meteorological Assistant	-	P. W. Mander
Meteorological Assistants	-	F. B. Axtell A. B. Hall

LOUBET COAST

Senior Meteorological Assistant	-	E. M. P. Salmon
Meteorological Assistant	-	J. Thorne

HORSESHOE ISLAND

Senior Meteorological Assistant	-	G. T. Vine-Lott
Meteorological Assistants	-	D. Chalmers F. B. Ryan C. D. Scotland

FALKLAND ISLANDS OUTSTATIONS — (voluntary observers)

Darwin	-	D. M. Honeyman
Fox Bay	-	C. Maddocks
Pebble Island	-	A. Betts (till December)
	-	J. Shirtcliffe (from December)
West Point Island	-	H. M. Napier

APPENDIX III

Publications issued during 1956

1. Daily Weather Report.
3. Annual Report on the Service for the year 1955.



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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1956

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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1956

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

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Published for the Falkland Islands Dependencies Survey,  
Stanley, Falkland Islands, 1958.

## 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 - 152
Loubet Coast, Grahamland	88956	66° 54' S.	66° 48' W.	22	153 - 163
Horseshoe I., Grahamland	88959	67° 48' S.	67° 19' W.	29	164 - 175

## *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 data for 1955 have been retained in the same form in this issue. The tables published for Upper Air data from Stanley and Argentine Islands have been altered with the temperature changes from °F to °C, and height changes from feet to geopotential metres.

A new station (Loubet Coast), opened during the year, and the information available has been included in this series.

Staff shortages at Stanley and a fire at the Meteorological Office, South Georgia, caused some of the observations at these stations to be missed. Where observations have been missed, a foot-note has been added to the relevant tables.

Publication of a current Meteorological Gazetteer has again been delayed, but most of the details included in "The Meteorology of the Falkland Islands and Dependencies 1944-1950" by Dr. J. Pepper, M.A., Ph.D., are still applicable.

## 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 O+ and O-. In the Upper Air Frequency tables I to VI, 0°C has been entered alternately as O+ and O-.

#### 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*. Entries in ordinary print refer to the height of the lowest layer of significant cloud. Additional entries are made (in parenthesis) whenever *low* cloud (below 2400 metres) occurs at more than one level. These additional entries refer the total amount of low cloud to the height of the main layer. *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. The observations are made daily for 1100 Zone Time (1500 G.M.T.) the time of release normally being 1000 Zone Time (1400 G.M.T.). Almost all ascents are released within a few minutes of this time, but operational difficulties (such as strong winds) occasionally delay the release for periods up to about an hour. In very unusual circumstances the delay may be even longer, but in no case does 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°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°C/Km. or less. Where more than one tropopause was reported, the lowest has been used.

Means and Extremes Table I for Stanley, Falkland Islands, 1956.

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			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	1002.1	1017.5	12th, 13th	984.6	7th	42.7	42.1	46.0	48.1	47.5	46.4	44.1	43.2	45.0	50.4	40.5	60	29th	32	11th
February	1001.1	1013.8	12th	979.6	2nd	43.5	44.1	48.7	51.6	51.4	50.0	46.5	45.2	47.6	55.2	41.4	63	7th, 10th	37	14th, 27th
March	1001.6	1016.0	27th	975.5	15th	43.9	43.8	46.5	48.8	49.6	47.8	44.7	44.5	46.2	52.0	41.3	58	18th	35	17, 25, 27
April	1006.7	1025.7	21st	980.7	4th	40.4	40.6	42.4	45.2	45.7	43.4	42.1	41.5	42.7	47.4	38.5	54	21st	28	7th
May	1006.9	1026.9	12th	984.0	28th	38.4	38.7	39.7	41.8	42.2	40.4	40.0	39.4	40.1	43.6	37.3	48	23rd, 24th 26th, 31st	30	8th
June	1005.9	1022.4	3rd	980.3	11th	38.9	38.6	38.4	40.4	41.1	39.8	39.0	38.5	39.3	42.9	35.1	47	22nd	29	29th
July	1002.8	1022.6	19th	<u>974.2</u>	<u>4th</u>	36.7	37.1	37.3	39.5	39.7	37.7	37.3	36.5	37.7	41.6	33.6	47	7th, 8th	<u>25</u>	<u>5th, 20th</u>
August	1011.8	1026.0	26th	994.0	2nd	36.5	36.1	36.7	40.0	40.6	38.2	37.3	37.0	37.8	42.2	33.7	53	14th	26	2, 3, 17
September	1000.6	<u>1031.8</u>	<u>4th</u>	982.3	26th	35.5	35.6	38.4	42.0	42.0	39.5	37.1	36.3	38.3	44.3	33.5	52	22nd	<u>25</u>	<u>18th, 19th</u>
October	1007.4	1031.6	21st	986.8	27th	38.7	39.3	44.6	47.8	47.8	44.6	40.6	39.5	42.9	51.2	36.7	60	16th	31	8th, 13th
November	1004.8	1019.2	1st	988.2	11th	42.4	42.7	49.0	51.8	51.9	48.9	44.8	43.9	46.9	55.9	40.2	64	16th	32	10th
December	1001.7	1017.9	28th	981.0	3rd	41.6	43.5	47.6	50.2	50.6	48.0	44.7	42.4	46.1	54.2	39.2	<u>67</u>	<u>11th, 29th</u>	33	2nd, 14th
Total	12053.4	12271.4	—	11791.2	—	479.2	482.2	515.3	547.2	550.1	524.7	498.2	487.9	510.6	580.9	451.0	673	—	363	—
Mean	1004.5	1022.6	—	982.6	—	39.9	40.2	42.9	45.6	45.8	43.7	41.5	40.7	42.5	48.4	37.6	56.1	—	30.3	—

Means and Extremes Table II for Stanley, Falkland Islands, 1956.

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	91	91	83	76	78	83	87	88	85	6.8	6.9	6.8	7.1	6.6	6.6	7.1	7.1	6.9	3.7	—	16.1	92.4	16.4	7th
February	93	90	83	75	76	80	86	88	84	—	—	5.5	6.3	6.7	6.6	5.7	4.2	5.8	5.9	—	14.5	59.5	7.5	28th
March	93	92	88	79	77	82	89	89	86	—	—	6.2	6.3	6.1	6.0	5.1	5.0	5.8	4.5	—	12.5	52.1	9.8	25th
April	94	93	91	85	82	90	91	93	90	—	—	6.2	6.5	6.6	6.1	5.1	5.3	6.0	3.0	—	10.5	44.6	8.2	29th
May	90	91	90	87	85	89	87	90	89	—	—	6.4	6.6	6.8	6.3	5.4	5.6	6.2	1.7	—	8.8	57.0	9.7	28th
June	91	91	92	87	86	89	91	91	90	—	—	6.2	5.9	6.3	6.0	6.1	5.3	6.0	1.9	—	7.9	23.8	6.3	15th
July	94	93	90	88	86	90	89	90	90	—	—	6.4	6.2	6.7	6.0	4.9	5.3	5.9	1.8	—	8.3	75.1	<u>19.8</u>	<u>23rd</u>
August	90	90	90	84	81	86	89	88	87	—	—	6.2	6.3	6.3	6.5	5.8	6.2	6.2	2.7	—	9.7	34.4	12.6	25th
September	90	91	86	76	76	81	86	89	84	—	—	5.4	5.4	6.0	6.0	3.9	4.1	5.1	4.6	—	11.7	51.2	19.4	7th
October	90	88	77	67	66	74	87	89	80	—	—	5.6	5.6	5.6	5.4	5.0	4.0	5.2	6.7	—	13.7	22.3	9.4	23rd
November	87	89	74	66	63	70	82	85	77	—	—	5.5	6.0	5.5	5.3	5.4	5.0	5.5	7.1	—	15.6	25.6	12.4	24th
December	88	87	75	70	68	76	80	87	79	—	—	6.5	6.4	5.9	6.0	5.6	4.6	5.8	6.4	—	16.6	39.0	5.6	26th
Total	1091	1086	1019	940	924	990	1044	1067	1021	—	—	72.9	74.8	75.1	72.8	65.1	61.7	70.4	50.0	—	145.9	577.0	137.1	—
Mean	91	91	85	78	77	83	87	89	85	—	—	6.1	6.2	6.3	6.1	5.4	5.1	5.9	4.2	—	12.2	48.1	11.4	—

Frequency Table I for Stanley, Falkland Islands, 1956.

MONTH	M.S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. <sup>1</sup>																				
	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							2	6	27	65	62	44	32	10							
February						2	2	7	41	37	79	32	32								
March						3	3	23	16	47	65	55	29	7							
April							12	21	16	28	25	32	36	22	36	12					
May							5	19	23	49	28	28	14	13	45	24					
June							4	6	20	28	42	58	49	24	9						
July				1	7	13	15	18	35	35	55	38	22	9							
August									3	11	45	41	49	54	41	4					
September							16	45	42	31	22	23	21	9	19	8	4				
October								6	7	35	47	65	43	22	7	9	7				
November								3	11	52	46	68	42	18							
December							6	24	30	52	32	44	52	8							
Year					1	12	63	175	254	470	528	545	437	209	166	57	11				



Frequency Table III for Stanley, Falkland Islands, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :- 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	4	9	16	20	31	26	32	45	41	22
February								2	1	5	10	15	19	27	26	39	38	37	13
March									2	4	5	7	20	21	27	51	51	48	12
April										1	2	8	15	20	22	23	41	47	61
May										1	4	5	6	21	35	42	58	52	24
June										1	2	4	5	9	28	38	76	59	18
July												4	6	19	29	42	64	62	22
August										1	4	6	15	24	39	45	58	39	17
September								1	1	5	9	10	25	17	34	48	36	40	14
October					1		5	5	8	13	13	19	17	25	24	35	30	32	21
November					1	3	3	5	13	18	12	19	24	24	22	31	34	21	10
December					1			3	9	14	9	25	30	23	35	32	39	23	5
Totals					3	3	8	17	35	67	79	138	202	261	347	458	570	501	239
Mean					—	—	1	1	3	6	7	11	17	22	29	38	47	42	20

# Frequency Table IV for Stanley, Falkland Islands, 1956.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metros)																	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	4		3	2	7	26	34	59	113	10	32	45	72	84	5	5	4	13	(1) 42	(7) 64	(47) 104	(30) 6	9	1	5	4	11	(1) 24	(7) 13	(31) 21	(17) 1	3	1				
February			2	1		4	18	21	48	80	26	32	49	42	2	2		2	(8) 34	(16) 79	(12) 7	15	5	2		2	5	(4) 4	(8) 5	(8) 2	(8) 6	2	6				
March			3		2	3	26	31	35	86	42	38	40	20	3	3	1	7	(4) 26	(10) 63	(21) 40	(10) 4	26	6	3		4	(4) 9	(8) 4	(13) 1	(10) 11	1	10				
April	1	14	11	6	6	22	22	45	53	24	31	27	23	52	23	25	5	8	(1) 24	(8) 37	(21) 54	(7) 3	15	4	24	5	6	(1) 9	(7) 8	(16) 9	(5) 1		5				
May			6	1	1	11	28	51	62	28	24	33	36	58	7	7		10	(6) 37	(16) 58	(1) 43	3	17	4	7		10	(6) 17	(10) 14	(1) 2		7					
June			6	1	1	7	44	51	41	29	47	30	26	30	42	5	5	2	6	(2) 58	(5) 33	(9) 25	(2) 4	29	11	5	1	3	(2) 21	(5) 17	(6) 7	(2) 8	4	7			
July	1	4	1	5	10	37	31	71	26	33	24	42	27	54	6	6	5	21	(4) 28	(13) 44	(10) 47	(3) 2	18	5	6	4	18	(4) 15	(10) 12	(6) 6	(1) 3	1	10				
August			2	2	6	3	23	30	65	55	40	31	39	40	34	2	3	11	(1) 24	(13) 53	(10) 40	(4) 4	22	10	3	9	8	(1) 4	(6) 12	(3) 1	(3) 7	5	8				
September				2	2	4	20	26	44	82	33	50	44	22	29	2	3	2	(1) 17	(8) 46	(8) 65	(4) 8	10	7	2	2	(1) 6	(5) 7	(6) 12	(3) 1	(3) 3	3	16				
October			2	2	4	8	10	17	35	108	58	48	28	28	20	4	5	5	9	(6) 12	(9) 38	(4) 55	4	36	14	5	5	7	(5) 5	(3) 2	(3) 1	1	1	8			
November			2	2	1		11	26	36	102	39	54	37	28	18	4	4		9	(1) 17	(6) 44	(14) 56	(12) 11	26	12	4		8	(1) 4	(6) 4	(9) 3	(1) 1	8	1			
December						2	14	18	33	119	14	44	65	46	17		1	4	(3) 18	(8) 47	(20) 96	(8) 6	12	1		1	1	(2) 5	(7) 9	(9) 6		1	1				
Total	6	41	26	30	65	279	358	574	879	394	438	475	414	474	63	68	36	(1) 106	(17) 327	(98) 561	(201) 704	(97) 62	235	80	66	31	(1) 84	(16) 124	(76) 117	(120) 101	(54) 8	53	19	79			
Mean	1	3	2	3	5	23	30	48	73	33	37	40	35	39	5	6	3	(-) 9	(1) 27	(8) 47	(17) 59	(8) 5	20	7	5	3	(-) 7	(1) 10	(6) 10	(10) 8	(5) 1	4	2	7			

NOTE — No 0200 or 0500 observations after January.

Frequency Table V for Stanley, Falkland Islands, 1956.

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 = <sup>5</sup>	WIND FORCE = <sup>8</sup>	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					26	15	3	19		28		2	9		22					14	4		4		
February					24	17		20	5	25			4	1	14			1		15	4		4	1	
March					22	13		18	6	19			5		16	2		1		11	2		3		
April					23	14		15	1	15	2		11		15	1		9		11	8		1		1
May					26	16		20	1	14	2	2	9		16			11		13	4		4		2
June					17	5		21	6	8	3	2	12		17	1		13		5	6				2
July					27	13	2	17	4	20	7	2	14		12	1	2	12	1	12	6	1			2
August					13	6	2	18	4	16	8	4	6		18		1	14	1	10	3	1	1		1
September					19	11	1	15	4	16	5	7	7		9	3	1	21		13	1	1	1	1	2
October					14	6		21	7	16	3	5	3	2	8	1	1	10		9	3	2	1	2	1
November					10	5	1	22	6	15			8		10	1		2		9	2	1		1	
December					22	11		23	7	22	1	1	10		14			3		21			3	3	3
Total	0	0	0	0	243	132	9	229	51	214	31	25	98	3	171	10	5	97	2	143	43	6	22	8	14
Mean	—	—	—	—	20	11	1	19	4	18	3	2	8	—	14	1	—	8	—	12	4	1	2	1	1

NOTE: No observations of rain, snow, sleet, hail, thunder, drizzle, drift, showers, fog between 2300 and 0800 L.M.T from 7/2/56

Frequency Table VI for Stanley, Falkland Islands, 1956.

MONTH	<sup>2</sup> 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	15.7		59	125	58	6	5	8	22	23	10	7	23	57	24	19	23	21
February	16.9	8	61	105	52	6	13	9	8	3	2		16	27	38	28	45	37
March	18.1	18	50	126	49	5	28	9	8	5	3	2	13	36	21	21	43	54
April	14.1	1	40	120	64	15	24	34	9	5	3	4	21	36	19	13	29	28
May	17.6	3	66	142	33	4	45	14	7	1	2	1	8	27	26	22	24	67
June	18.1	15	64	111	45	5	27	4	1	7	1		15	10	23	24	41	82
July	16.6	9	59	117	47	16	28	35	21	2			6	20	16	21	35	48
August	16.0	9	54	112	66	7	31	16	15	7	10	12	13	23	16	13	38	47
September	16.4	16	37	133	45	9	26	3	1	2	5	2	3	20	28	38	49	54
October	17.1	9	58	124	52	5	12	6	4	1		1	7	41	36	35	44	56
November	18.1	20	60	112	41	7	13	11	3	1	2	1	10	54	39	19	25	55
December	17.6	12	62	127	47		8	4	1	4		2	12	69	36	37	41	34
Total	202.3	120	670	1454	599	85	260	153	100	61	38	32	147	420	322	290	437	583
Mean	16.9	10	56	121	50	7	22	13	8	5	3	3	12	35	27	24	36	49

# Frequency Tables VII to X for Stanley, Falkland Islands, 1956.

## 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					2		1		2	6
2		1	1		1	2	1		1	1	3	1	12
3	2	1	2		3	2	3	10	1	3	8	5	40
4	1	3	6	8	2	1	11	10	8	8	10	3	71
5	1	2	6	8			2	15	9	3	2	6	54
6		1	5	6	4	2	5	16	5	2		3	49
7	1		1	1			1	4		1		1	10
>= 8													
<b>Totals</b>	<b>5</b>	<b>8</b>	<b>22</b>	<b>23</b>	<b>10</b>	<b>7</b>	<b>23</b>	<b>57</b>	<b>24</b>	<b>19</b>	<b>23</b>	<b>21</b>	<b>242</b>

CALMS - 6

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		1	3
2		1			1	2						1	3
3	1	1	4	1			1	1	7	2	9	7	39
4	5	1	2				3	4	11	7	16	9	58
5		3	2				1	8	7	9	11	6	47
6	4	3					5	3	8	7	7	6	43
7	2						1	6	2	1	1	5	18
>= 8	1							3	3	1			8
<b>Totals</b>	<b>13</b>	<b>9</b>	<b>8</b>	<b>3</b>	<b>2</b>		<b>16</b>	<b>27</b>	<b>38</b>	<b>28</b>	<b>45</b>	<b>37</b>	<b>226</b>

CALMS - 6

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									1
2	3	1						3			3		10
3	2	2	3	1	1	1		1	4	3	8	12	38
4	10	5	1	1	2	1	4	11	4	6	16	13	74
5	4	1	3	2			5	7	6	3	11	10	52
6	5		1				1	3		8	4	10	32
7	3						2	3	1	1	1	7	18
>= 8	1						1	8	6			2	18
<b>Totals</b>	<b>28</b>	<b>9</b>	<b>8</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>13</b>	<b>36</b>	<b>21</b>	<b>21</b>	<b>43</b>	<b>54</b>	<b>243</b>

CALMS - 5

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	2
2						2	2	3	2		5	2	16
3	3	6	2	2	2	1	5	4	4	3	7	7	46
4	10	11	5	1	1		2	7	10	6	13	11	77
5	8	12	2	2		1	4	6	1	2	3	2	43
6	2	5					5	11	1	1	1	4	30
7	1						3	4	1			1	10
>= 8								1					1
<b>Totals</b>	<b>24</b>	<b>34</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>21</b>	<b>36</b>	<b>19</b>	<b>13</b>	<b>29</b>	<b>28</b>	<b>225</b>

CALMS - 15

# Frequency Tables XI to XIV for Stanley, Falkland Islands, 1956.

## 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							1				2	6
3	5	4			1				1			6	25
4	14	3			1	1	1	5	8	8	13	15	69
5	11	5	6	1			3	11	9	5	3	19	73
6	10	2	1				3	9	4	2		16	47
7	3							1	2	5		8	19
≥ 8	1											2	3
Totals	45	14	7	1	2	1	8	27	26	22	24	67	244

CALMS - 4

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	5
2							2				1		40
3	3				2	1		1	3	6	11	12	66
4	5	1	1	3			2	2	7	7	17	21	45
5	6	1						4	4	5	7	18	41
6	7						3	1	5	4	5	16	23
7	4	2					4	1	1	1	1	9	15
≥ 8	2						5	1	3			4	
Totals	27	4	1	7	1		15	10	23	24	41	82	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
2	3	1					1			2	5	4	16
3	3	1	2	1			1	1	6	3	4	8	30
4	6	5	4	1			1	3	5	7	16	13	61
5	9	11	7				3	8		4	5	9	56
6	4	11	8					1	2	3	2	9	40
7	3	4						2	1	2	2	5	19
≥ 8		1						5	2		1		9
Totals	28	35	21	2			6	20	16	21	35	48	232

CALMS - 16

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
2	1		1			1	2	1			9	5	20
3	2		3		1	6		2	8	3	11	7	43
4	9	4	2	4	4	2	3	3	5	4	10	15	65
5	7	3	4	3	5	2	5	4	2	3	3	6	47
6	7	6	4				3	4		2	5	11	42
7	3	1						5	1			2	12
≥ 8	2	2						4				1	9
Totals	31	16	15	7	10	12	13	23	16	13	38	47	241

CALMS - 7

# Frequency Tables XV to XVIII for Stanley, Falkland Islands, 1956.

## 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		4
2	1		1								1	2	5
3	1	2			1			1	5	6	14	6	36
4	10			1	3	1	2	12	8	17	22	18	94
5	3	1		1	1	1	1	3	12	7	6	3	39
6	6							3	2	5	1	5	22
7	2							1	1	2	1	8	15
>= 8	2									1	1	12	16
Totals	26	3	1	2	5	2	3	20	28	38	49	54	231

CALMS - 9

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	2
2	1				1			1	4		3	2	12
3	2	1	3			1	5	6	1	5	10	4	38
4	4	4					1	4	12	9	17	12	63
5	2		1					7	13	7	13	18	61
6	1	1						8	7	9	1	11	38
7	2							7	3	3		5	20
>= 8								5		1		3	9
Totals	12	6	4	1		1	7	41	36	35	44	56	243

CALMS - 5

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					3
2		1		1			1	1	2		2	1	9
3	2	2	3		2		1	4	5	1	3	6	29
4	10	7					3	9	9	11	10	4	63
5		1						11	10	4	4	19	49
6	1						2	15	4	3	5	18	48
7							1	2	3		1	5	12
>= 8							1	11	6			2	20
Totals	13	11	3	1	2	1	10	54	39	19	25	55	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		1		1				1			4
2	1		1	2							2	3	9
3	3			1		1	5	1	2	4	11	6	34
4	1	2					3	16	11	20	23	12	83
5	3						1	14	10	6	1	4	39
6			1				2	13	9	6	3	6	40
7							1	13	4		1	3	22
>= 8								12					12
Totals	8	4	1	4		2	12	69	36	37	41	34	248

CALMS - 0

Frequency Table XIX for Stanley, Falkland Islands, 1956.

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	1	2	2	3		3	2	3		6	3	6	31
2	11	5	4	7	3	5	9	14	6	4	36	26	130
3	29	20	22	8	12	12	26	33	48	41	102	85	438
4	85	46	21	19	13	6	36	86	98	110	183	146	849
5	54	40	31	17	6	4	25	98	83	58	69	120	605
6	47	30	19	6	4	2	29	87	47	52	34	115	472
7	24	7	1	1			13	49	20	16	8	59	198
= > 8	9	3					7	50	20	3	2	26	120
Totals	260	153	100	61	38	32	147	420	322	290	437	583	2843

CALMS 85.

Frequency Table XX for Stanley, Falkland Islands, 1956.

MONTH	RAINFALL (mms.) : Number of days of 1																																												
	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	3	4	1	1			1	1	1	2	16	3	5			2	1	1				28	1	2																				
February	1	4	1	1	1	2	1			1		12	6	3	2	2	2	1	1				29																						
March	6	3	4	1		1				1	2	18	2	2	6	2					1		31																						
April	2	5	3		2	1		1			2	16	5	4	2	2				1			30																						
May	2	3	4	2	2	1	1					15	8	1	2	1	1		2		1		31																						
June	5	8	1	5	1	1	1		2	1		25	2			1		2					30																						
July		4	2	2	3	1	3	2	1			18	3	2	3		2	1					29		2																				
August	9	9	3	2	1						1	25	3		1								29	2																					
September	6	5	3	2			1	1	1			19	3	4		3							29		1																				
October	12	5	1	1			2	1	1	1	1	25	4	1							1		31																						
November	9	11		1		2	1		1			25	1	2		1							29	1																					
December	2	7	1	2	1	2	2			2	1	20	5	1		2	3						31																						
Year	56	67	27	20	12	11	12	6	7	7	9	234	45	25	16	14	10	5	4	1	3	357	4	5																					

## Upper Air Means Table I for Stanley, Falkland Islands, 1956.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for 1100 Zone Time :-																							
	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	8.8	4.9	1.2	-2.4	-1.4	-4.8	-3.6	-8.2	-8.4	-14.6	-15.1	-22.6	-23.9	-31.8	-35.2	<sup>28</sup> -12.0	-48.1	-49.9	-48.8	<sup>30</sup> -50.5	271	9670	-54.1	
February	11.0	6.9	4.1	-0.2	1.5	-3.3	-1.6	-6.7	-7.4	-14.0	-14.7	-22.7	-23.3	-32.6	-34.4	<sup>20</sup> -38.3	-45.6	-48.2	-50.6	<sup>24</sup> -49.8	280	9510	-51.6	
March	9.2	6.3	3.8	-1.0	-1.4	-4.7	-1.2	-9.2	-6.5	-16.0	-13.7	-24.0	-21.7	-31.7	-33.6	<sup>20</sup> -10.6	-44.7	-52.8	-51.2	<sup>30</sup> -53.8	254	10210	-55.3	
April	7.1	5.4	2.0	1.6	0.0	-4.8	-2.7	-8.8	-7.9	-17.3	-15.5	-25.9	-24.3	-34.3	-35.7	<sup>25</sup> -12.8	-48.9	-55.1	-53.5	<sup>20</sup> -54.8	264	10440	-59.1	
May	5.1	3.7	1.7	-2.5	0.1	-6.0	-3.0	-9.8	-9.6	-16.7	-17.3	-25.2	-26.4	-34.7	-37.5	<sup>21</sup> -11.4	-49.5	-57.1	-54.8	<sup>20</sup> -56.4	255	10100	-59.5	
June	4.2	2.8	2.0	-4.6	-0.3	-8.3	-2.8	-12.2	-9.1	-21.1	-16.9	-28.3	-25.8	-36.0	-37.4	<sup>22</sup> -12.5	-51.0	-61.1	-58.9	<sup>20</sup> -60.9	233	10640	-63.8	
July	3.8	2.5	-0.5	-2.7	-3.6	-6.3	-5.3	-10.9	-11.4	-17.9	-18.8	-26.7	-28.3	-36.0	-39.3	<sup>18</sup> -13.6	-53.4	-61.4	-58.9	<sup>30</sup> -60.6	252	9990	-61.8	
August	<sup>27</sup> 4.0	<sup>27</sup> 1.7	<sup>27</sup> -0.7	<sup>27</sup> -6.0	<sup>27</sup> -2.9	<sup>27</sup> -10.7	<sup>27</sup> -5.0	<sup>27</sup> -15.5	<sup>27</sup> -11.3	<sup>27</sup> -21.4	<sup>27</sup> -19.0	<sup>27</sup> -28.5	<sup>27</sup> -28.4	<sup>27</sup> -37.7	<sup>27</sup> -39.5	<sup>14</sup> -14.9	<sup>27</sup> -52.3	<sup>27</sup> -60.5	<sup>27</sup> -60.1	<sup>25</sup> -62.1	243	10420	-62.6	
September	<sup>23</sup> 4.9	<sup>23</sup> 2.1	<sup>23</sup> -1.2	<sup>23</sup> -5.3	<sup>23</sup> -3.8	<sup>23</sup> -9.1	<sup>23</sup> -7.0	<sup>23</sup> -12.3	<sup>23</sup> -13.8	<sup>23</sup> -19.8	<sup>23</sup> -21.7	<sup>23</sup> -28.8	<sup>23</sup> -31.3	<sup>23</sup> -39.0	<sup>23</sup> -42.8	<sup>7</sup> -46.1	<sup>23</sup> -54.4	<sup>23</sup> -58.0	<sup>23</sup> -57.1	<sup>20</sup> -58.9	270	9480	-59.9	
October	<sup>27</sup> 8.8	<sup>27</sup> 3.8	<sup>27</sup> 2.5	<sup>27</sup> -3.2	<sup>27</sup> -0.1	<sup>27</sup> -7.1	<sup>27</sup> -3.3	<sup>27</sup> -10.3	<sup>27</sup> -9.8	<sup>27</sup> -17.7	<sup>27</sup> -17.4	<sup>27</sup> -25.3	<sup>27</sup> -26.6	<sup>27</sup> -33.9	<sup>27</sup> -38.0	<sup>19</sup> -42.8	<sup>27</sup> -51.4	<sup>27</sup> -57.5	<sup>27</sup> -56.3	<sup>27</sup> -57.9	239	10430	-61.1	
November	<sup>26</sup> 11.6	<sup>26</sup> 5.8	<sup>26</sup> 4.6	<sup>26</sup> -1.8	<sup>26</sup> 2.0	<sup>26</sup> -4.6	<sup>26</sup> -0.5	<sup>26</sup> -7.6	<sup>26</sup> -6.1	<sup>26</sup> -14.3	<sup>26</sup> -13.4	<sup>26</sup> -21.4	<sup>26</sup> -21.9	<sup>26</sup> -30.0	<sup>26</sup> -33.1	<sup>24</sup> -19.9	<sup>26</sup> -47.2	<sup>26</sup> -55.8	<sup>26</sup> -53.6	<sup>23</sup> -54.7	226	10930	-59.8	
December	<sup>26</sup> 9.7	<sup>26</sup> 5.6	<sup>26</sup> 2.1	<sup>26</sup> -1.4	<sup>26</sup> -1.0	<sup>26</sup> -4.6	<sup>26</sup> -4.4	<sup>26</sup> -7.9	<sup>26</sup> -9.6	<sup>26</sup> -15.3	<sup>26</sup> -16.9	<sup>26</sup> -22.9	<sup>26</sup> -23.4	<sup>26</sup> -31.7	<sup>26</sup> -36.0	<sup>21</sup> -40.5	<sup>26</sup> -48.7	<sup>26</sup> -54.5	<sup>26</sup> -51.9	<sup>23</sup> -51.5	246	10250	-57.9	
<b>Total</b>	88.2	51.5	21.6	-29.5	-10.9	-74.3	-40.4	-119.4	-110.9	-206.1	-200.4	-302.3	-305.3	-409.4	-442.5	-505.4	-595.2	-671.9	-655.7	-671.9	3033	122070	-706.5	
<b>Mean</b>	7.3	4.3	1.8	-2.5	-0.9	-6.2	-3.4	-9.9	-9.2	-17.2	-16.7	-25.2	-25.4	-34.1	-36.9	-42.1	-49.6	-56.0	-54.6	-56.0	253	10170	-58.9	

Upper Air Means Table II for Stanley, Falkland Islands, 1956.

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	873	1331	1816	2857	4038	5391	6983	8930	11580	13460	16120 <sup>30</sup>
February	865	1337	1823	2873	4055	5426	7008	8930	11640	13530	16160 <sup>24</sup>
March	874	1338	1823	2876	4063	5255	7026	8990	11640	13500 <sup>30</sup>	16120 <sup>29</sup>
April	913	1373	1890	2905	4093	5440	7028	8970	11580	13430 <sup>20</sup>	16050 <sup>25</sup>
May	903	1363	1787	2926	4058	5406	6979	8970	11510	13340	15120 <sup>26</sup>
June	905	1363	1846	2887	4067	5413	6993	8950	11480	13290	15250 <sup>29</sup>
July	871	1327	1806	2841	4035	5340	6899	8770	11340	13170 <sup>30</sup>	15710 <sup>28</sup>
August	942 <sup>27</sup>	1400 <sup>27</sup>	1877 <sup>27</sup>	2913 <sup>27</sup>	4079 <sup>27</sup>	5336 <sup>27</sup>	6989 <sup>27</sup>	8880 <sup>27</sup>	12050 <sup>27</sup>	13240 <sup>27</sup>	15750 <sup>25</sup>
September	856 <sup>23</sup>	1312 <sup>23</sup>	1788 <sup>23</sup>	2815 <sup>23</sup>	3803 <sup>23</sup>	5286 <sup>23</sup>	6824 <sup>23</sup>	8720 <sup>23</sup>	11280 <sup>23</sup>	13100 <sup>23</sup>	15680 <sup>20</sup>
October	915 <sup>27</sup>	1377 <sup>27</sup>	1845 <sup>27</sup>	2902 <sup>27</sup>	4073 <sup>27</sup>	5365 <sup>27</sup>	7025 <sup>27</sup>	8910 <sup>27</sup>	11490 <sup>27</sup>	13310 <sup>27</sup>	15890 <sup>22</sup>
November	907 <sup>26</sup>	1373 <sup>26</sup>	1859 <sup>26</sup>	2913 <sup>26</sup>	4103 <sup>26</sup>	5495 <sup>26</sup>	7093 <sup>26</sup>	9040 <sup>26</sup>	11590 <sup>26</sup>	13480 <sup>26</sup>	16100 <sup>23</sup>
December	869 <sup>26</sup>	1329 <sup>26</sup>	1809 <sup>26</sup>	2851 <sup>26</sup>	4025 <sup>26</sup>	5431 <sup>26</sup>	6954 <sup>26</sup>	8900 <sup>26</sup>	11510 <sup>26</sup>	13370 <sup>26</sup>	16000 <sup>23</sup>
Total	10693	16223	21969	34559	48492	64584	83801	106960	138690	160220	189950
Mean	891	1352	1831	2880	4041	5382	6983	8910	11560	13350	15830



## Upper Air Frequency Table II for Stanley, Falkland Islands, 1956.

	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges :- 1																																								
	850 mb.															800 mb.																									
	MONTH	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	24	27	30	33	-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	
	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	35	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	
January					1	3	12	4	4	5	2															1	3	6	9	5	5	2									
February							3	11	5	6	2		2														1	4	9	5	6	1	2	1							
March						2	5	6	7	2	7	2															7	5	6	5	7	1									
April						3	2	11	6	5	2	1															3	2	8	8	4	4	1								
May					1	2	7	4	7	7	2	1														1	3	7	4	7	5	3	1								
June					1	3	5	8	5	5	1	2														1	3	4	7	6	5	2	2								
July						4	16	1	7	2	1															1	3	16	2	6	2	1									
August					1	4	11	4	3	3		1															4	9	7	1	5		1								
September					2	4	9	6	1	1																2	4	8	8		1										
October						4	4	4	7	5	2	1														1	3	4	4	10	2	2	1								
November							1	7	10	3	3	2																3	3	7	9	2	2								
December							9	11	4		1	1															1	8	10	4	1	1	1								
Year					6	29	84	77	66	44	23	11	2														7	28	78	76	65	50	25	12	1						



Upper Air Frequency Table IV for Stanley, Falkland Islands, 1956.

		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges :- 4																																								
		500 mb.														400 mb.																										
MONTH	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3		
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	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	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5		
January							11	7	5	7	1																	8	8	7	4	4										
February						2	7	6	5	2	6		1																													
March					2	2	2	4	7	11	3														1	1	5	2	6	12	3	1										
April					1	3	3	8	9	5	1														1	2	4	7	7	8	1											
May					6	4	5	5	3	7	1														3	5	3	6	6	7	1											
June			1	2	3	4	10	3	7																3	2	5	10	4	5	1											
July			1	3	9	5	9	2	2																1	1	7	6	11	3	2											
August			1		5	6	3	7	3	1	1														1	2	4	9	6	3	2											
September				4	3	9	1	6															1	1	3	7	5	6														
October					1	5	6	8	5	2															1	5	3	8	7	3												
November							2	8	5	8	2	1																2	7	4	8	3	2									
December					2	5	3	6	6	3		1													1		1	4	6	9	2	2	1									
Year			1	6	25	48	52	84	53	55	15	2	1										1	4	15	37	55	88	60	57	19	5	1									

# Upper Air Frequency Table V for Stanley, Falkland Islands, 1956.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges :- 4																																							
		300 mb.															200 mb.																								
		-75	-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							1	6	12	6	5		1															2	2	1	6	9	9	2							
February								3	10	7	2	4	2		1													1	1	1	4	9	6	6	1						
March								1	7	9	7	5	1	1														3	5	5	6	3	6	1	2						
April							2	4	13	8	3															1	3	3	4	6	4	5	4								
May						1	1	8	11	7	3															4	2	3	4	2	3	3	4	6							
June					1		6	7	10	5	1															5	3	3	6	5	5		1	2							
July					1	5	4	13	7	1																2	3	3	5	9	5	3		1							
August							9	11	4	3																5	5	4	5	5	3										
September					1	5	6	8	2	1																1	1	1	2	4	4	3	2	1	3	1					
October						2	5	9	6	5																2	3	4	5	4	6	3									
November							1	6	7	4	4	4														3	1	6	2	2	4	7	1								
December						1	1	3	11	7		3															2	3	4	5	3	7	2								
Year					3	14	36	79	100	63	25	16	4	1	1											1	12	20	25	45	48	45	44	49	40	10	3				



## Upper Air Frequency Table VII for Stanley, Falkland Islands, 1956.

RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations at 1100 Zone Time, in 10% ranges:- 5

MONTH	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	2	7	8	5	5	3					1	2	3	10	9	4	2						4	3	10	7	5	2					2	1	2	7	9	5	5				
February		1			1	1	7	6	11	2						1	4	5	6	8	4	1						1	2	5	4	5	8	3	1					1	3	2	5	8	8	2		
March							3	10	7	11					4	4	3	4	8	3	5					1	2	5	4	5	8	3	1					3			2	6	3	4	4			
April								7	9	5	9							1	11	4	10	1				3	2	2	6	4	10	4						3			2	6	3	4	5	4	4	
May								3	11	12	5	9					3		1	11	4	10	1				3	1	4	4	6	4	7	1					3	4	1	2	4	5	5	6		
June								3	11	12	5	9					3		3	2	3	13	6	1				3	3	1	1	3	6	11	3					2		3	3	2	3	11	6	1
July						1		3	4	19	3				2	1	6	3	3	6	4	5				1	2	1	7	3	6	3	4	3					1	5	2	6	5	4	3	1	3	
August								3	9	13	6							3	9	7	6	6				1	1	1	1	4	8	7	5	3					1	4	3	2	5	4	4	7	1	
September							1	5	11	9	1									1	4	16	6					4	2	5	3	4	3	4	2		1	3	3	3	5	2	1	4	4	1		
October							3	7	5	8							1		2	5	5	4	6						1	3		6	7	2	4					1	4	1	5	6	3	3		
November					2	2	8	7	3	5								2	3	9	4	6						1	3	1	7	5	6	3	1					1	2	1	2	4	5	7	4	1
December					4	4	1	11	5	1								2	3	3	8	4	2					2	1	5	6	6	4	1					1	2	3	5	7	4	3	1		
Year		1			9	11	35	78	84	97	27			4	12	21	25	43	78	71	71	17		1	12	20	26	35	54	75	67	45	7	1	10	15	25	40	32	54	72	51	41	1				

Upper Air Frequency Table VIII for Stanley, Falkland Islands, 1956.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations at 1100 Zone Time, in 10% ranges :- 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	3	3	7	7	3	4		2	2	6	1	4	5	7	3	1			1	4	5	3	5	8	4	1				1	3	6	3	5	6	4				
February			1	3	3	3	8	8	3		1	1	3	1	3	4	6	8	1	1			5	2	2	4	6	5	4	1			2	3	2	4	4	6	3	2				
March	1	4	2	3		3	6	4	5	3	3	1	4	3	3	1	4	5	2	5		2	1	5	5	2	3	4	4	5			3	1	5	3	2	3	4	3	2			
April	1	3	3	3	2	1	5	6	3	3	1	1	6	4	2	6	4	3	1	2			4	5	3	6	2	5	2	3			1	1	5	5	3		8	2				
May	1	1		5	1	2	5	9	6	1		2	2	5	4	2	5	8	3				1	4	3	5	7	3	5	3					2	3	5	5	4		2			
June		4	8	4	2	3	2	1	5	1	1	4	4	8	3	2	2	3	2	1		1	4	4	5	4	3	3	3	3			2	4		2	2	3	6	1	2			
July		1	2	4	2	3	5	7	5	2		3	3	3	4	1	5	6	5	1		1	1	4	4	5	1	7	4	4			1	1	3		3	4	3	2	1			
August	1	2	5	4	2	2	5	2	3	1	1	1	7	2	1	4	4	5	2			1	4	4	2	1	5	6	2	2				4	1	1	2	3		3				
September			1	2	3	6	1	3	5	2		1	2	2	4	2	6	4	1	1			2	2	2	3	6	5	2	1			2		1	2		1	1					
October		1	3	2	3	5	3	8	1	1		2	1	6	1	5	1	9	2				1	2	3	7	3	5	6				1		3	5	5	4	1					
November		1	1	5	4	4	2	7	1	1			3	5	2	3	5	7	1				1	2	4	5	2	7	5				1	3		7	6	5	2					
December			2	2	2	2	4	6	5	2	1			1	4	1	5	2	6	6	1				1	1	6	7	3	3	5					1	4	1	3	8	4			
Year	4	18	30	38	27	37	53	68	45	21	1	7	18	38	49	29	39	49	71	29	13		5	25	39	39	51	50	61	44	28			9	19	25	32	39	43	52	25	7		

Upper Air Frequency Table IX for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS AT STATION LEVEL : Number of observations at 1100 Zone Time of :-																												
	KNOTS	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	18.4	1	19	11																										31
February	18.3	1	16	10	2													1	6		2	2	2	5	4	6	1	2	29	
March	18.9		8	5	2														4					5	4	4	4	5	15	
April	10.1	5	2	2															1					3	3	1	2	2	10	
May	20.5	1	11	12	5									1	1							1	1		1	2	2	1	30	
June	21.4	1	11	11	4	2								1	4	1				1			1	2	2	4	5	9	29	
July	18.9	5	8	14	2	1																	3	2	1	4	10	5	31	
August	15.9	5	11	10										1	5	3	1					1	1	1	1	7	3	7	27	
September	18.0	1	14	5	3	1									3	3			1			3	3	1	1	5	3	3	24	
October	19.0	2	9	15	1														1					3	4	2	5	8	27	
November	18.7	4	11	6	5																		1	1	2	9	1	5	6	26
December	19.6		15	9		2																			8	4		3	5	26
Year	18.1	26	135	110	24	6								4	19	19	10	4	4	10	13	40	39	40	48	55		305		

Upper Air Frequency Table X for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 900 mb. : Number of observations at 1100 Zone Time of :—																										
	KNOTS	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	18.7	2	16	11	2										2	2	3		1	1	2	7	4	7	1	1	31	
February	21.7	5	8	6	9	1									1				1			3	6	8	6	4	29	
March	23.3	1	4	6	4											1	1						5	3	1	4	15	
April	16.2		7	2	1													1		1		1	2	2	2	1	10	
May	24.8	3	7	9	7	4									2				1		1	4	4	1	6	11	30	
June	27.5	1	7	9	9	3									1	1				2	1	1	4	6	7	6	29	
July	24.0	5	7	10	5	4									5	3					1	1	3		6	4	8	31
August	22.6	4	9	7	3	4									1	1	2		1	1	3	1	4	4	5	4	27	
September	21.6	6	8	2	6	1	1								1	1			1			1	2	5	6	5	2	24
October	25.1	3	6	6	10	2															1		2	6	11	3	4	27
November	24.0	3	7	7	4	3										1						4	8	5	4	2	24	
December	23.3	2	7	13	2	2																4	9	10	2	1	26	
Year	22.7	35	93	88	62	24	1								13	10	6	2	4	7	9	32	57	69	46	48	303	

### Upper Air Frequency Table XI for Stanley, Falkland Islands, 1956.

WINDS at 850 mb. : Number of observations at 1100 Zone Time of :-

MONTH	MEAN WIND SPEED KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS											
		<i>1 to 9</i>	<i>10 to 19</i>	<i>20 to 29</i>	<i>30 to 39</i>	<i>40 to 59</i>	<i>60 to 79</i>	<i>80 to 99</i>	<i>100 to 119</i>	<i>120 to 139</i>	<i>140 to 159</i>	<i>160 to 179</i>	<i>&gt;179</i>		<i>345 to 014</i>	<i>015 to 044</i>	<i>045 to 074</i>	<i>075 to 104</i>	<i>105 to 134</i>	<i>135 to 164</i>	<i>165 to 194</i>	<i>195 to 224</i>	<i>225 to 254</i>	<i>255 to 284</i>	<i>285 to 314</i>		<i>315 to 344</i>										
January	18.9	2	17	8	4																																
February	23.6	2	8	8	9	2									2	3	1			1	2	8	5	7		2	31										
March	24.3		4	5	6										1				1		1	8	9	5	4	29											
April	17.9		7	3											1		1					4	4	5		15											
May	24.8	4	6	9	8	3										1			1	1	3	1	2	1	10												
June	27.7	1	6	8	10	4									3				2	4	5	2	6	8	30												
July	25.3	5	7	7	6	6										1		2		2	3	6	11	4	29												
August	23.1	3	7	10	2	5									5	3				3	2		9	2	7	31											
September	22.4	3	10	3	6	2										1	2	1	2	2	2	2	6	6	3	27											
October	26.9	1	6	8	9	3										1	1			1	2	6	5	6	2	24											
November	27.1	2	7	6	4	5												1			3	5	9	8	1	27											
December	25.7	1	5	13	5	2															2	12	4	4	2	24											
																					5	9	11		1	26											
Year	24.0	24	90	88	69	32									12	10	5	1	1	6	11	32	62	73	55	35	303										

Upper Air Frequency Table XII for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 800 mb. : Number of observations at 1100 Zone Time 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 074	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	19.6	4	12	10	5									2	1	1			1	2	7	6	7	1	3	31	
February	26.8	1	8	7	9	4								1			1					9	9	6	3	29	
March	22.3		5	5	5											1						3	4	6	1	15	
April	19.9		6	2	1																1	1	3	1	2	1	9
May	23.8	2	9	9	7	3								3						1	4	5	3	7	7	30	
June	28.4	2	4	11	7	5									1				2		1	5	6	10	4	29	
July	26.7	3	7	9	5	7								6	1	1				2	2	2	2	8	5	4	31
August	23.7	5	6	9	4	3									1	2	1		2	2	1	2	9	4	3	27	
September	22.2	3	9	4	6	2									2					1	2	7	5	5	2	24	
October	28.3	1	3	12	8	3											1				3	5	9	9		27	
November	30.3		8	4	6	5	1														3	9	3	8	1	24	
December	28.3	1	2	10	11	2													1	4	8	11	2			26	
Year	25.0	22	79	92	74	34	1							12	6	5	3		5	10	28	64	75	65	29	302	

Upper Air Frequency Table XIII for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 700 mb. : Number of observations at 1100 Zone Time 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	22.7	3	8	12	5	3									1				1	2	7	8	6	2	4	31	
February	32.4	2	2	7	10	6	2									1						11	10	6	1	29	
March	26.5	2	2	6	3	2									1						1	4	5	5		15	
April	23.1	1	4	1	2	1																1	4	1	2	1	9
May	25.2	3	8	7	7	5									4					2	1	5	4	8	6	30	
June	31.9		2	11	8	8									3				1	1	2	4	7	11		29	
July	28.1		10	8	5	8									4	2				2	2	4	5	8	4	31	
August	25.1	3	8	7	2	7										2	1	1		1	5	2	8	4	3	27	
September	24.6	1	8	6	7	2										1					1	2	8	4	4	24	
October	32.1		4	7	7	9									1						4	6	7	8	1	27	
November	36.1		7	1	6	8	2														2	4	13	4	1	24	
December	33.9		2	5	15	4														1	5	11	8	1		26	
Year	28.5	15	65	78	77	63	4								14	6	1	1		3	9	31	71	78	63	25	302

## Upper Air Frequency Table XIV for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 600 mb. : Number of observations at 1100 Zone Time 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
January	26.7	1	8	10	7	5												1	1	7	5	9	4	4	31	
February	37.0	3		4	9	11	2													3	7	11	7	1	29	
March	34.0		3	3	3	5	1														3	5	7		15	
April	23.9	2	3	1	1	2															3	3	2	1	9	
May	28.3	3	7	5	8	7								3					2	1	8	3	8	5	30	
June	35.8		2	9	5	12	1							2	1			1	1	2	4	8	10		29	
July	31.9	2	8	6	5	7	3							3	2				1	2	3	7	8	5	31	
August	32.6	2	4	6	5	7	3							1	1		2		1	1	3	1	7	7	3	27
September	27.9	2	5	6	8	3												1		2	7	5	5	4	24	
October	36.6		1	5	10	10	1							1					1	4	5	8	6	2	27	
November	42.7		1	7	3	10	2	1												2	7	9	5	1	24	
December	40.7		1	2	11	10	2												1	5	13	6	1		26	
Year	33.2	15	43	64	75	89	15	1						10	4		2		4	8	31	66	81	70	26	302

## Upper Air Frequency Table XV for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 500 mb. : Number of observations at 1100 Zone Time of :—																								NUMBER OF ASCENTS					
	KNOTS	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	29.8	4	7	5	6	9												1						8	4	8	5	3	31		
February	42.5	1	2	2	7	12	5											1	1					3	6	10	9	1	29		
March	41.6		2	3	4	3	2	1																	3	6	5	1	15		
April	28.1	1	3	1	2																						1	5		7	
May	33.4	2	6	7	5	7	3																		1	3	8	4	7	4	30
June	42.8	1	3	1	4	16	4																	1	3	8	4	7	4	30	
July	37.4	1	8	5	1	10	6												1					1	1	1	7	7	9	29	
August	39.7	2	2	6	5	6	5	1																	2	3	3	7	7	6	31
September	31.5	1	4	4	7	8													1	2				3	2	3	5	8	2	27	
October	44.9		1	4	6	11	5																		1		8	3	8	2	24
November	49.6		1	2	7	7	5	2																	1	6	3	6	9	2	27
December	49.1			1	6	12	7																			2	7	8	5	2	24
Year	39.2	13	39	41	60	101	42	4											8	6	1	1		3	9	35	64	70	80	23	300

## Upper Air Frequency Table XVI for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 400 mb. : Number of observations at 1100 Zone Time 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 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	36.5	2	6	7	2	9	5							1	1	1			2		6	6	9	4	1	31	
February	55.3		1	2	3	10	10	3											1	2	6	10	8	2	29		
March	48.9			1	3	6	4													1	3	6	4		14		
April	33.3	1			1	2	1														1		3	1	5		
May	38.7	4	3	6	6	3	3	2	2				1	5			1		2	4	3	6	7	1	30		
June	52.0	1	1	2	1	14	8	2						3	1				1	1	2	5	6	9	1	29	
July	42.4	4	3	4	3	11	4	1	1					2	1				2	1	3	3	7	8	4	31	
August	50.4		2	2	5	8	6	4						3				1		2	3	2	6	6	4	27	
September	38.5	2	1	3	7	8	3							1	1					1	3	6	4	3	5	24	
October	51.6		1	3	3	11	8	1											2	5	4	6	8	2	27		
November	60.8			2	4	7	5	4	2												4	8	5	6	1	24	
December	62.1			2	2	9	5	7	1										1	5	11	7	2		26		
Year	47.5	14	18	34	40	98	62	24	6					1	15	4	1	1	1	5	11	39	57	72	68	22	297

# Upper Air Frequency Table XVII for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 300 mb. : Number of observations at 1100 Zone Time 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 50	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	47.3	1	5	5	2	10	3	3	1		1																						
February	72.8	1			3	5	11	4	3	1	1								2		7	7	6	2	5					31			
March	65.5				4	3	2	3	2						1	1					1	9	9	9	1					29			
April	33.6		1		1	1	1														2	1	6	5						14			
May	46.0	3	3	6	4	5	4	1	4												1			2	1					4			
June	59.0		2	2	1	11	8	4	1											2	1	3	3	4	7	5	5			30			
July	49.2	1	6	4	4	7	3	4	1					1							1	1	4	4	6	9	2			29			
August	62.0		2		3	7	7	5	2												2	2	4	8	8	4				31			
September	44.8		4	2	3	10	4	1							1						1	1	2	3	7	6	4			27			
October	62.1		1		2	11	7	6														1	1	8	4	5	3			24			
November	71.6			1	1	5	10	3	2												2	4	5	5	8	3				27			
December	76.2		1		1	6	8	4	5					2									3	9	4	7	1			24			
Year	57.5	6	25	20	29	81	68	38	21	3	4	1									11	2		1		5	11	36	65	69	67	29	296

## Upper Air Frequency Table XVIII for Stanley, Falkland Islands, 1956.

WINDS at 200 mb. : Number of observations at 1100 Zone Time of :--

MONTH	MEAN WIND SPEED	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	39.7	3	2	6	7	7	5	1											1	4	7	8	9		2	31											
February	56.0			4	4	10	7	3	1												1	5	14	8	1	29													
March	58.6				2	4	5	2														1	7	5		13													
April	28.2			1	3																	1	2			4													
May	40.3	1	6	5	5	7	2	2	2					2								1	3	9	7	3	30												
June	56.2		1	4	2	11	5	4	2					1								1	3	3	8	11	2	29											
July	57.2			7	4	9	4	2	3	2												1	1	5	11	9	4	31											
August	61.5			2	4	8	6	4	3														1	5	6	11	4	27											
September	50.3			1	5	13	5															1	1	8	9	3	2	24											
October	59.3			2	3	6	12	3	1													1	2	6	8	9	1	27											
November	63.4			2	1	9	7	3	2													1	2	6	8	7		24											
December	66.5			1	1	8	10	4	1		1												6	10	9	1		26											
Year	53.1	4	9	35	41	92	68	28	15	2	1			3								1	9	24	59	98	82	19	295										

Upper Air Frequency Table XIX for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 150 mb. : Number of observations at 1100 Zone Time 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	31.0	2	5	7	6	6	2												1	2	9	9	5	2	28		
February	41.3		2	4	5	12	3													2	4	10	9	1	26		
March	44.9			2	1	6	1														1	4	5		10		
April	26.5		1	1	2																1	2	1		4		
May	29.7	2	7	8	5	4	3								1				1	3	5	9	8	2	29		
June	51.8		1	4	2	14	5	3													2	5	11	10	1	29	
July	57.0			2	7	8	7	4	1	1											1	8	13	7	1	30	
August	61.4			2	3	8	7	3	3													5	9	12		26	
September	56.6				3	13	7	1													1	7	11	5		24	
October	55.9		2	1	3	7	12	2													1	7	9	10		27	
November	48.3			2	3	14	3	1													2	8	10	3		23	
December	50.8			1	3	14	6														3	11	9	1		24	
Year	46.3	4	18	34	43	106	56	14	4	1										1	2	17	71	106	76	7	280

Upper Air Frequency Table XX for Stanley, Falkland Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 100 mb. : Number of observations at 1100 Zone Time of :—																				NUMBER OF ASCENTS								
		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	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	18.0	5	9	8	2															3	7	8	4	1	24					
February	30.1	1	1	10	5	3														1	1	12	5	1	20					
March	28.2		1	3	3	1															1	6	1		8					
April	26.0			1																			1		1					
May	32.0	2	4	8	4	3	2	1													3	3	10	7	24					
June	52.4		1	2	6	7	7	2												1	6	9	9		25					
July	61.7				2	10	9	3														5	12	7	24					
August	63.4				3	7	7	6														3	11	9	23					
September	62.9				2	5	10	2														5	9	4	1	19				
October	52.7		1	5	2	5	7	3												1	6	10	6		23					
November	36.5			2	10	5																6	10	1	17					
December	36.6			4	6	9														7	4	7	1		19					
Year	41.7	8	17	43	45	55	42	17												1	1				16	47	104	55	3	227





















Upper Air Frequency Table XXXI for Stanley, Falkland Islands, 1956.

HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 30 metre ranges:—

22

MONTH

100 mb. Mean height 15,830 metres. I.C.A.N. height 16,180 metres.

Table with columns for months (January-December) and years (1924-1997) and rows for height ranges (1524-1697). The cells contain counts of observations for each combination of month, height range, and year.

Means and Extremes Table I for Grytviken, South Georgia, 1956.

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			
		HIGH	DATE	LOW	DATE	0100	0400	0700	1000	1300	1600	1900	2200		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	993.6	1016.0	21st	967.6	1st	37.0	35.8	38.2	40.7	42.1	41.6	39.3	38.9	39.2	45.3	34.5	61	31st	31	3, 4, 6
February	996.0	1015.6	8th	967.5	3rd	41.1	39.4	40.4	42.5	44.0	43.8	42.3	41.1	41.8	48.4	36.0	69	10th, 11th	30	8th
March	1002.3	1021.3	23rd	962.5	25th	39.6	38.6	39.3	40.9	44.4	43.0	41.1	40.4	40.9	48.0	35.1	70	22nd	28	29th
April	1006.8	1023.8	18th, 20th	968.3	6th	34.1	34.0	34.6	35.8	37.8	37.8	35.5	34.1	35.5	41.8	30.5	57	26th	23	15th, 16th
May	1008.4	1029.6	13th	969.0	10th	34.1	35.1	35.6	36.0	37.6	37.6	36.2	34.8	35.9	41.5	31.0	57	4th	24	18th, 19th
June	1006.8	1027.3	5th	987.0	18th	33.9	34.0	34.2	34.9	35.5	35.3	35.5	34.6	34.7	40.2	29.6	53	22nd, 24th	21	5th
July	1004.9	1032.1	29th, 30th	956.1	5th	30.2	29.4	28.9	29.9	30.7	29.8	29.3	30.2	29.8	35.1	25.6	47	16th	18	25th, 26th
August	1010.8	1032.2	6th	963.6	2nd	32.1	31.7	31.8	32.4	35.3	35.8	33.7	33.1	33.2	40.0	27.8	52	9th, 14th	21	24th
September	998.1	1021.4	15th	970.4	8th	31.0	31.4	31.6	33.1	34.9	34.4	32.2	31.8	32.5	37.2	28.1	50	30th	21	22nd
October	1000.6	1025.5	18th	978.1	14th	35.8	36.0	37.1	39.8	41.1	39.8	37.6	36.4	37.9	44.3	32.3	54	22nd, 28th	22	10th
November	994.2	1009.9	3rd	966.4	28th	37.3	36.6	38.8	41.4	43.7	43.0	40.2	37.5	39.8	47.4	33.6	62	3rd	29	24th
December	990.8	1012.7	23rd	959.5	4th	35.7	34.8	36.8	38.8	40.2	40.5	38.9	37.1	37.9	43.7	33.0	55	12th	29	1st, 12th
Total	12013.3	12267.4	—	11616.0	—	421.9	416.8	427.3	446.2	467.3	462.4	441.8	430.0	439.1	512.9	377.1	687	—	297	—
Mean	1001.1	1022.3	—	968.0	—	35.2	34.7	35.6	37.2	38.9	38.5	36.8	35.8	36.6	42.7	31.4	57.3	—	24.7	—

Means and Extremes Table II for Grytviken, South Georgia, 1956.

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		REG.	EST.				
January	83	86	79	74	71	72	79	80	78	5.2	6.2	6.0	7.1	7.0	7.1	7.1	6.6	6.5	4.2	Not recorded	16.5	45.1	14.2	23rd
February	72	74	76	73	72	70	71	74	73	5.1	5.4	6.2	6.3	6.3	6.4	5.9	5.8	5.9	4.8		14.7	155.4	38.7	3rd
March	89	88	84	80	72	77	74	81	81	6.5	5.8	6.3	6.4	6.1	6.2	4.6	5.6	5.9	3.3		12.5	130.7	25.7	15th
April	88	88	89	87	84	82	88	90	87	4.9	5.2	6.2	7.0	6.8	6.7	6.1	5.4	6.0	2.0		10.3	101.9	22.9	21st
May	89	87	87	87	84	83	83	89	86	4.1	4.6	6.1	6.7	6.5	6.2	4.4	5.4	5.5	1.8		8.4	221.1	57.2	7th
June	87	85	83	81	82	84	81	86	84	4.6	4.4	4.4	6.0	6.5	6.4	4.8	4.2	5.2	1.9		7.4	116.3	61.3	12th
July	84	83	81	79	76	81	82	79	81	5.3	4.8	4.9	5.8	5.7	5.9	5.2	4.8	5.3	2.0		7.9	165.8	30.0	9th
August	77	81	79	83	76	74	74	76	77	4.4	4.5	5.3	6.2	5.3	5.5	4.6	4.3	5.0	3.7		9.6	132.3	77.9	2nd
September	83	83	83	78	74	75	82	83	80	5.6	5.2	6.4	6.3	6.3	6.6	6.2	5.5	6.0	3.4		11.7	167.9	36.6	16th
October	76	78	75	67	62	67	72	73	71	5.6	5.6	6.2	5.7	5.2	5.9	5.7	4.8	5.6	5.8		13.9	121.5	57.5	19th
November	77	79	73	66	58	59	67	72	69	4.2	6.0	6.2	6.2	5.7	5.8	5.4	4.6	5.5	6.7		15.9	38.9	8.1	14th
December	75	79	76	71	69	67	69	69	72	4.9	5.6	6.4	6.8	6.3	6.2	5.7	5.4	5.9	6.0		17.1	148.4	29.3	4th
Total	980	991	965	926	880	891	922	952	939	60.4	63.3	70.6	76.5	73.7	74.9	65.7	62.4	68.3	45.6		145.9	1545.3	459.4	—
Mean	82	83	80	77	73	74	77	79	78	5.0	5.3	5.9	6.4	6.1	6.2	5.5	5.2	5.7	3.8		12.2	128.8	38.3	—

Frequency Table I for Grytviken, South Georgia, 1956.

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	3	4	23	56	54	57	21	11	8	8					
February						3	3	9	18	37	31	38	48	30	11	4					
* March					4	2	2	2	3	20	19	34	20	30	39	15	7				
April						2	4	6	14	15	10	8	25	36	30	46	44				
May						2	1	2	2	7	25	17	37	41	30	38	22	24			
June										4	14	36	53	47	42	27	10	7			
July				2	2	1	4	13	11	12	34	31	20	12	24	23	19	16	24		
August					2	2		2	2	3	16	19	39	28	35	32	21	27	20		
September							3	21	27	26	18	35	31	26	21	23	9				
October								3	12	24	36	52	53	23	16	13	13	3			
November						8	10	9	16	19	53	38	56	31							
December				1	3	2	4	26	35	50	39	39	30	12	7						
Year				3	11	25	34	97	163	273	349	404	433	327	263	229	145	77	44		

\* Only 197 observations March.



Frequency Table III for Grytviken, South Georgia, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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	8	15	17	20	31	24	37	25	38	20	6	
*February				3	1	4	4	7	18	19	16	20	19	19	17	19	18	16	14	
*March					1	3	2	3	15	14	7	14	17	13	27	21	22	18	28	
April							3	1	2	11	7	11	13	14	16	31	29	32	70	
May					2			3	4	9	8	14	19	16	13	22	19	58	61	
June								4	7	13	12	20	9	13	18	31	39	53	21	
July		2			1		1		2	3	11	20	35	42	47	29	15	27	13	
August					4	5	3	2	13	18	21	13	19	12	37	27	32	31	11	
September					1	1	3	2	5	14	16	23	21	23	20	24	32	28	27	
October		1	2	2	2	4	9	8	17	16	26	26	26	21	23	17	17	18	13	
November		1	1	2	9	5	10	20	22	12	22	11	21	22	21	19	20	13	9	
December			1		1	3	5	22	18	18	17	25	20	26	27	17	22	16	10	
Totals		4	4	7	23	25	41	77	131	162	180	217	250	245	303	282	303	330	283	
Mean		—	—	1	2	2	3	6	11	13	15	18	21	20	25	23	25	27	24	

\* Only 214 observations in February.

\* Only 205 observations in March.

# Frequency Table IV for Grytviken, South Georgia, 1956.

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 - 99m		100m - 400m		1km - 2km		2km - 4km		4km - 10km		10km - 20km		20km - 40km		>40km		ALL AMOUNTS						7-8 OKTAS										
		0	1-2	3-5	6-7	8	9	0	1-2	3-5	6-7	8	9	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			
		to	to	to	to	to	to	to	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						25	42	75	106	14	39	59	73	63				(1)	(5)	(23)	(32)						(1)	(4)	(13)	(19)				
February *				2	1	1	14	35	63	98	18	45	40	52	58	1	1	2	4	11	(3)	(16)	(10)				11	(2)	(8)	(7)				
March †			2	2	3		13	53	58	74	28	43	18	44	70	2	2	2	16	(1)	(3)	(11)	(11)						(10)	(6)				
April		6	1	6	3	5	34	48	52	85	35	33	34	36	88	14	14		24	(6)	(8)	(7)												
May		5	5	1	3	6	34	31	54	109	60	35	30	46	70	7	7	1	13	(1)	(4)	(11)	(5)											
June		3	1	1	4	2	16	42	69	102	65	53	23	40	54	5	5		4	(1)	(4)	(4)	(4)											
July					5	4	29	52	48	110	51	38	17	62	76	4	4		1	15	41	(2)	(3)											
August		2		2	5	3	28	32	68	108	63	42	30	33	72	8	8		1	19	46	(8)	(2)											
September				2	8	4	36	57	38	95	29	41	23	51	91	5	5	1	6	19	39	(6)	(6)											
October					2	3	16	36	60	131	29	60	45	52	60	2	2	1	4	(1)	16	(8)	(5)											
November				2	3	1	22	38	47	127	22	66	42	62	46	2	3	2	5	11	(7)	(2)	(11)											
December				1	3	5	43	32	31	133	12	57	46	68	63	2	2		4	(7)	(3)	(18)	(16)											
Total		16	9	19	40	34	310	498	663	1278	426	552	407	619	811	52	53	9	86	(6)	(25)	(117)	(112)											
Mean		1	1	2	3	3	26	41	55	107	35	46	34	52	68	4	4	1	7	(1)	(2)	(10)	(9)											

\* Only 214 observations in February. † Only 205 observations in March.

Frequency Table V for Grytviken, South Georgia, 1956.

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 = 6 ^	WIND FORCE = 8 ^	RAIN	SNOW	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				1	18	8	1	2		17	11	4	3		24					14					2
February	2			3	20	16	5	10*	*	12*	3*	4*	1*	*	14		2		*	10*	*	1*	1*	*	3*
March	1			2	21	17	4	6†	3†	23†	7†	1†	6†	†	14				†	12†	4†	†	†	3†	†
April					18	14	4	1		12	8	4	10		18	1	11			9	4				2
May					16	14	5	4		17	5	7	6		14		7			10	7			3	
June	1				16	9	3	7		11	11	2	6		9	1	14			9	2	1		1	
July					19	17	6	8		8	19	4	3		14	4	27		6	17					4
August					14	7	2	9		10	18	1	6		10	2	14		2	14	2				2
September					21	16	5	10		8	23	3	3		12		26		3	15	1	3		1	4
October					21	12	4	11		18	16	2	5		9	1	5		3	17				3	
November				2	12	11		7		17	11	5	4		12		2			15	1			3	
December	1				21	18	6	5		15	18	7	7		16		5			20	1				3
Total	5	0	0	8	217	159	45	80	3	168	150	44	60	0	166	9	113		16	162	22	5	1	14	20
Mean	—	—	—	1	18	13	4	7	—	14	13	4	5	—	14	1	9		1	13	2	—	—	1	2

\* Observations at 0100 and 0400 missing 18th to 26th inclusive. † Observations at 0100 and 0400 missing after the 10th.

Frequency Table VI for Grytviken, South Georgia, 1956.

MONTH	2 MEAN WIND SPEED	1 WIND : Number of observations, at all hours, of :-																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
		KNOTS	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
January	5.1		2	42	124	80	22	6	5	47	15	8	2	1	7	6	14	35
*February	6.8		19	83	62	50	21	4	3	15	28	2	6	1	7	16	24	37
†March	5.9	3	8	53	63	78	20	6	5	12	15	2	1	1	3	14	20	28
April	4.3		1	36	50	153	11	1	1	6	2	2			5	24	25	10
May	2.4		7	55	42	144	10	4	1	9	13	5				6	17	39
June	5.7		8	56	53	123	16	3	3	5	10	2		3	1	13	22	39
July	7.0		12	72	47	117	11	1		3	10	6	6	5	10	18	19	42
August	7.2		17	64	61	106	22	3	4	5	4	6	2	4	12	16	21	43
September	7.5		20	68	44	108	22	1		4	8	5	2	4	4	14	29	39
October	10.3		20	98	68	62	20	6	4	8	5	1	1	4	22	20	24	71
November	6.1		8	93	78	61	21	5	2	25	10	3	3	3	13	32	21	41
December	8.0		6	75	119	48	23	4	6	37	21	12	3	1	5	24	15	49
Total	76.3	3	128	795	811	1130	219	44	34	176	141	54	26	27	89	203	251	473
Mean	6.4	—	11	66	68	94	18	4	3	15	12	5	2	2	7	17	21	39

\* Only 214 observations in February.

† Only 205 observations in March.

# Frequency Tables VII to X for Grytviken, South Georgia, 1956.

## 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	10	4	2	11	10	5	1		1	2	2	2	50
2	5	2	1	9		2			3		2	3	27
3	7		2	22	3	1	1		1	1	9		47
4				5	2			1	2	2	7	18	37
5										1	1	3	5
6										1	1		2
7													
≥ 8													
Totals	22	6	5	47	15	8	2	1	7	6	14	35	168

CALMS - 80

\* 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	4	2		4	2	1	3					1	17
2	2		3	4	2					1		2	14
3	9	1		5	6					2	2	6	31
4	3	1		2	10	1	2		3	6	7	10	45
5	3				7		1	1		6	9	11	38
6					1				3		5	6	15
7									1	1	1	1	4
≥ 8													
Totals	21	4	3	15	28	2	6	1	7	16	24	37	164

\* Only 214 observations. CALMS - 50

† 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	5	1	2	2	3	1	1			1	1	1	18
2	3	3	2	6	1	1						1	17
3	6	2		4	5			1	1	3	2	4	28
4	4		1		4					1	11	16	37
5	2				2					4	4	4	16
6										4		1	5
7									1	1	1		3
≥ 8									1		1	1	3
Totals	20	6	5	12	15	2	1	1	3	14	20	28	127

† Only 205 observations. CALMS - 78

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	5	1		2	1	1			2	3		1	16
2	4			2	1						4	2	13
3	2		1	1		1				6	7	3	21
4				1						2	9	7	21
5									1	6	6	2	15
6											1		1
7													
≥ 8													
Totals	11	1	1	6	2	2			5	24	25	10	87

CALMS - 153

# Frequency Tables XI to XIV for Grytviken, South Georgia, 1956.

## 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		2	3	1				2	1		11
2	3		1	3						2	1	2	12
3	3	3		4		2				1	6		19
4	3				8	1				1	7	14	34
5					2						5	14	21
6						1				1	2	3	7
7													
>= 8													
Totals	10	4	1	9	13	5				6	17	39	104

CALMS - 144

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	6		1	1	3	2				3		2	18
2		2	1		3				1			3	10
3	5	1	1	3	3			1		1	1	9	25
4	3			1	1			1		5	12	10	33
5	1									2	7	13	23
6								1		2	2	1	6
7	1											1	2
>= 8													
Totals	16	3	3	5	10	2		3	1	13	22	39	117

CALMS - 123

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					1	4			1	1	7	15
2	2						1	1		4	1	1	10
3	3	1		1	2	4			2	1	2	6	22
4	3			2	1	1	3		1	5	11	15	43
5	1				6				4	4	2	12	29
6	1				1			1	2	2	2	1	10
7									1	1			2
>= 8													
Totals	11	1		3	10	6	6	5	10	18	19	42	131

CALMS - 117

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	5	1	2	2	2	2	1	1		1		1	18
2	5	2	2	1	1	2	1	1	2		1	2	20
3	6			2	1			2		3	2	7	23
4	3					1				4	3	6	33
5	2					1				3	4	10	31
6	1									3	5	1	16
7											1		1
>= 8													
Totals	22	3	4	5	4	6	2	4	12	16	21	43	142

CALMS - 106

# Frequency Tables XV to XVIII for Grytviken, South Georgia, 1956.

## 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	4	1		2	2	1	1		1		1		13
2	4			2	1	1		3	1	1	1	1	14
3	4				2	1	1			2	1	6	17
4	5				4	2		1		4	12	12	40
5	2								1	5	7	13	28
6	3								1	1	6	6	17
7										1	1	1	3
≥ > 8													
Totals	22	1		4	8	5	2	4	4	14	29	39	132

CALMS — 108

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	3	2	1		1	1		2		2	1		13
2	3		2	2	1						1	2	11
3	6	3	1	3	2		1	1	8	4	1	14	44
4	8	1		3	1			1	5	5	7	29	60
5									4	5	11	18	38
6									4	2	2	8	16
7									1	2	1		4
≥ > 8													
Totals	20	6	4	8	5	1	1	4	22	20	24	71	186

CALMS — 62

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	2		8	1	1	2					4	24
2	4		1	3	1							2	11
3	5	1	1	10	3	1	1		2	4	3	12	43
4	5	1		2	3	1		2	4	10	7	17	52
5	1	1		1	2			1	6	15	8	6	41
6				1					1	3	2		7
7											1		1
≥ > 8													
Totals	21	5	2	25	10	3	3	3	13	32	21	41	179

CALMS — 61

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	6	1	2	8	1	1	1			3	1	3	27
2	7			5	4	3	1		1	2	1	5	29
3	7	2	2	19	5	2	1	1	1	5	2	16	63
4	1	1	2	5	8	1			2	7	8	21	56
5	2				1	4			1	5	2	4	19
6					2	1				2	1		6
7													
≥ > 8													
Totals	23	4	6	37	21	12	3	1	5	24	15	49	200

CALMS — 48

Frequency Table XIX for Grytviken, South Georgia, 1956.

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	56	16	10	42	29	18	14	3	4	18	8	22	240
2	42	9	13	37	14	9	3	5	8	10	12	26	188
3	63	14	8	74	32	12	5	6	15	31	25	98	383
4	38	4	3	21	42	8	3	9	23	58	102	180	491
5	14	1		1	20	5	1	2	20	57	72	111	304
6	5			1	4	2		2	14	23	25	32	108
7	1								4	6	6	3	20
= > 8									1		1	1	3
Totals	219	44	34	176	141	54	26	27	89	203	251	473	1737

CALMS 1130.

# Frequency Table XX for Grytviken, South Georgia, 1956.

MONTH	RAINFALL (mms.)     :     Number of days of 1																																							
	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	4	9	2	1	1	1		1		4		23	1	1	3	1		1				30	1																	
February	2	7	1			2					1	13	2		1	3	1	2	1		1	24	3		1			1												
March	5	5	2	1	1							14	1	1	2	4	2		2		1	27	2		1	1														
April	9	3		2	1		1					16	3	3	2		1			1		26	2		2															
May	11	4	1					1				17	3	2		1		1	1	1		26	1		1			2					1							
June	7	7	2	3	1	1						21	1	2	3							27		1	1											1				
July	8	4					1				1	14	3	2	4		1			1		25	2	1	1	1	1													
August	7	10	1	1	1	2				2		21		2		1					2	29			1												1			
September	2	7			1		3				1	14	2	1	2	2		1	2		1	25	1	2		1		1												
October	5	5	2	2			3	1			1	19	4	1	2		1					27	2	1										1						
November	11	7	1									19	4	1	2	1	1	1		1		30																		
December	3	7						1		2		13	3	4	2	2	1					25	2	1	2	1														
<b>Year</b>	<b>74</b>	<b>75</b>	<b>12</b>	<b>10</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>4</b>		<b>8</b>	<b>4</b>	<b>207</b>	<b>27</b>	<b>20</b>	<b>23</b>	<b>15</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>321</b>	<b>16</b>	<b>6</b>	<b>10</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>2</b>					<b>2</b>	<b>1</b>			<b>1</b>		

Means and Extremes Table I for Signy Island, South Orkneys, 1956.

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			
		HIGH	DATE	LOW	DATE	0000	0300	0600	0900	1200	1500	1800	2100	MAX.		MIN.	MAX.	DATE	MIN.	DATE	
January	994.7	1007.7	3rd	975.9	26th	31.8	31.7	31.9	32.7	33.3	33.3	32.7	32.4	32.5	35.0	30.1	49	21st	27	1st, 5th 6th, 15th	
February	992.9	1006.5	7th	975.5	25th	33.8	33.6	33.6	34.6	35.0	35.2	34.9	34.0	34.3	38.0	31.3	48	9th	27	26th	
March	994.0	1013.2	23rd	972.5	15th	33.8	34.1	34.3	35.1	35.7	34.7	33.9	33.7	34.4	39.0	30.0	<u>50</u>	<u>21st</u>	22	10th, 11th	
April	1001.5	1023.6	15th	974.2	5th	32.1	31.8	31.9	32.4	33.4	33.1	32.7	32.4	32.5	37.0	28.4	48	23rd	18	14th	
May	1003.2	1023.0	17th	975.2	23rd	31.8	31.9	31.7	32.0	32.0	32.6	32.3	31.8	32.0	35.7	28.5	43	1st	21	10th, 11th	
June	996.5	1013.8	4th	975.4	29th	30.8	31.4	31.0	31.0	31.0	30.1	29.7	29.3	30.5	35.3	26.2	47	5th	1	30th	
July	1000.5	<u>1027.8</u>	<u>23rd</u>	<u>954.6</u>	<u>4th</u>	20.3	20.8	21.6	21.8	22.7	22.3	21.4	21.2	21.5	26.5	15.5	38	31st	-3	8th	
August	1002.5	1026.7	22nd	965.9	18th	25.0	25.5	25.3	25.8	26.2	26.1	25.0	24.7	25.5	30.5	19.5	40	29th	-5	<u>4th</u>	
September	993.7	1018.8	13th	966.0	2nd	23.4	23.8	23.5	24.0	24.7	24.1	23.6	23.5	23.8	27.8	19.6	37	16th	5	12th	
October	991.0	1013.8	22nd	967.0	28th	27.6	27.5	27.9	28.2	28.8	29.0	28.4	27.8	28.1	33.0	23.5	46	24th	10	8th	
November	988.9	1004.9	14th	961.8	11th	30.2	30.4	31.0	31.6	32.4	32.6	31.6	30.6	31.3	33.6	28.0	48	7th	25	13th, 14th 29th, 30th	
December	989.1	1013.0	28th	967.8	4th	30.4	29.9	30.2	31.0	32.1	32.0	31.3	30.7	30.9	34.0	28.4	45	23rd	22	14th	
Total	11948.5	12192.8	—	11631.8	—	351.0	352.4	353.9	360.2	367.3	365.1	357.5	352.1	357.3	405.4	309.0	539	—	170	—	
Mean	995.7	1016.1	—	969.3	—	29.3	29.4	29.5	30.0	30.6	30.4	29.8	29.3	29.8	33.8	25.7	44.9	—	14.2	—	

Means and Extremes Table II for Signy Island, South Orkneys, 1956.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE		RAINFALL (mm.) <sup>1</sup>			
	MEAN AT <sup>1</sup>								1-2 DAILY MEAN.	MEAN AT								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	96	93	93	92	91	90	92	94	93	7.9	7.9	7.8	7.7	7.6	7.6	7.8	8.0	7.8	0.7		18.1			
February	90	92	91	88	89	90	90	90	90	6.7	7.0	7.1	7.3	7.5	7.2	7.0	7.1	7.1	2.0		15.5			
March	92	90	90	89	89	91	91	91	90	7.0	7.3	7.8	7.6	7.6	7.3	7.4	6.9	7.4	1.0		12.7			
April	91	91	89	90	89	91	91	92	91	7.1	7.3	7.5	7.3	7.0	6.9	7.0	6.8	7.1	1.1		9.8			
May	95	95	95	96	95	94	93	94	95	6.6	7.1	7.4	7.4	7.1	6.9	6.6	6.9	7.0	0.6		7.2			
June	93	92	92	93	94	95	94	95	93	5.7	6.5	6.4	7.1	7.1	6.8	6.5	6.1	6.5	0.2		5.7			
July	90	89	90	90	88	87	88	90	89	5.7	5.5	5.8	6.3	5.8	6.4	5.9	6.2	5.9	1.3		6.4			
August	91	90	91	93	93	92	92	91	92	5.6	6.3	6.5	6.7	7.4	6.6	5.9	5.5	6.3	1.0		8.8			
September	87	86	85	86	85	87	87	87	86	5.7	6.3	6.7	6.4	6.6	7.1	6.5	6.2	6.4	2.1		11.5			
October	88	88	89	89	89	88	88	88	88	6.2	6.7	7.5	7.4	7.7	7.3	7.0	7.0	7.1	1.6		14.4			
November	90	90	90	89	87	87	89	90	89	7.6	7.4	7.5	7.3	7.2	7.4	7.5	7.6	7.4	2.1		17.1			
December	91	91	89	89	88	89	90	91	90	7.5	7.6	7.8	7.5	7.2	7.5	7.4	7.3	7.5	1.8		19.0			
Total	1094	1087	1084	1084	1077	1081	1085	1093	1086	79.3	82.9	85.8	86.0	85.8	85.0	82.5	81.6	83.5	15.5		146.2			
Mean	91	91	90	90	90	90	90	91	91	6.6	6.9	7.1	7.2	7.1	7.1	6.9	6.8	7.0	1.3		12.2			

Frequency Table I for Signy Island, South Orkneys, 1956.

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 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	to 1044.9	to 1049.9	to 1054.9
January						14	11	46	55	45	54	23									
February						9	44	43	36	43	52	5									
March					13	8	27	30	30	72	51	10	7								
April					6	9	16	17	24	27	35	43	22	35	6						
May						4	7	18	43	27	30	37	36	35	11						
June						8	9	32	61	47	44	26	13								
July	2	6	8	9	11	5	14	13	32	20	12	19	5	37	36	19					
August				2	5	10	12	24	26	18	38	33	27	27	15	11					
September				1	15	16	23	35	33	40	38	24	9	6							
October				2	5	17	47	62	39	29	24	12	11								
November			10	4	10	15	41	36	46	40	38										
December				14	30	8	35	42	38	30	28	17	6								
Year	2	6	18	32	95	123	286	398	463	438	444	249	136	140	68	30					



Frequency Table III for Signy Island, South Orkneys, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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													4	14	24	18	64	107	17
February												1	8	12	25	69	48	39	30
March										1	3	4	4	10	24	44	72	55	31
April										1	2	3	6	11	25	39	65	68	20
May														2	5	32	70	104	35
June											2		5	5	10	25	39	147	7
July								1					6	22	33	54	61	71	
August									1	1	1	2	2	9	25	30	81	85	11
September										2	3	9	23	19	33	32	62	56	1
October										1	1	5	2	14	32	66	99	28	
November											1	1	2	13	24	67	119	13	
December												1	6	18	36	44	60	83	
Totals								1	1	6	13	26	68	149	296	520	840	856	152
Mean								—	—	1	1	2	6	12	25	43	70	71	13



Frequency Table V for Signy Island, South Orkneys, 1956.

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 = >	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				7		2	25	4	7		31				2	3	1					1
February	9			3				7		8	14	7	6		25				1	7		2		1	2	
March	11			15				17	2	13	12	3	13		24					1	4	2	1	1		
April	6			8				19	6	8	13	6	16		22				3	2	2		1			
May	3			1	Not recorded	Not recorded	Not recorded	22	10	12	12	8	15		21		Not recorded	Not recorded	1	2	1	2				
June	3			3				20	5	6	22	8	13		18		Not recorded	Not recorded	4	2	2	3	2	1	1	
July								16	4		26	3	4		21	1	Not recorded	Not recorded	14	7	1	4			1	
August			1					19	9	3	21	5	11		18	2	Not recorded	Not recorded	13	2	1					
September								20	9		27	3	1		21	1	Not recorded	Not recorded	19	6	1	7			4	
October	1			3				20	9	4	24	5	13		24		Not recorded	Not recorded	12	3		3	2	2	2	
November				2				20	8	3	22	9	13		26		Not recorded	Not recorded	5	1	2	2			1	
December	3			1				11	2	6	22	2	13		27		Not recorded	Not recorded	6	4					2	
Total	38	0	1	37				198	64	65	240	63	125	0	278	4			80	40	15	25	9	7	14	
Mean	3	—	—	3				17	5	5	20	5	10	—	23	—			7	3	1	2	—	1	1	

Frequency Table VI for Signy Island, South Orkneys, 1956.

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	9.1		12	78	122	36	1	9	14	63	29	8	4	6	17	11	42	8	
February	9.2		16	75	84	57	17	9	7	2	17	11	5	2	13	15	65	12	
March	13.5	7	40	94	79	28	15	14	3	3	6	19	6	1	12	24	87	30	
April	15.5	12	51	95	52	30	6	2	2	1	10	14	2	7	11	12	120	23	
May	18.0	23	83	65	45	32	3	9	5	5	42	29	4	1	1	6	88	23	
June	15.2	10	68	77	39	46	12	9	7	2	9	3	1	2	7	22	81	39	
July	13.3	6	50	88	44	60	6	11	6	5	11	19	3	2	10	30	54	31	
August	17.2	24	59	90	43	32	19	3	3		3	7	3	2	17	23	99	37	
September	17.3	22	65	75	56	22	14	7	11	6	51	26	5	1	9	15	43	30	
October	18.1	15	77	93	44	19	7	3	3		7	7	3	8	11	25	122	33	
November	17.3	10	69	92	53	16	5	11	2	2	4	4	12	8	20	26	111	19	
December	11.9	4	21	102	91	30	9	8	3	9	11	15	6	17	36	31	53	20	
Total	175.6	133	611	1024	752	408	114	95	66	98	200	162	54	57	164	240	965	305	
Mean	14.6	11	51	85	63	34	9	8	5	8	17	13	5	5	14	20	80	25	

# Frequency Tables VII to X for Signy Island, South Orkneys, 1956.

## 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	5	8	1	1			2	2	1	2	24
2		3	2	6	2	4	2	1	4	1	7	2	34
3	1	3	4	16	7	3	2	4	10	1	10	3	64
4		1		19	7			1	1	1	18		48
5			2	9	11					4	3	1	30
6			1	5	1					2	3		12
7													
≥ 8													
Totals	1	9	14	63	29	8	4	6	17	11	42	8	212

CALMS - 36

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	4	1			1		1	10
2	1	1				8	3	1		3	6	5	3	31
3	4	2		1	3	4	2			7	5	13	2	43
4	5	3	2							1	1	26	5	43
5	6	2	3			2		2	1	2	13	1	32	
6		1	2		1		1		1		7		13	
7	1										1		3	
≥ 8														
Totals	17	9	7	2	17	11	5	2	13	15	65	12	175	

CALMS - 57

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			1	3	2	9
2	1			2	3	1	3		1	3	5	3	22
3	3	1			1	8			4	9	18	4	48
4	4	5	1		1	1	1	1	4	4	20	8	49
5	2	5			1	2			2	4	27	2	45
6	5	2	2		1	1			1	2	13	7	34
7		1				1					1	2	6
≥ 8						5						2	7
Totals	15	14	3	3	6	19	6	1	12	24	87	30	220

CALMS - 28

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	2			6
2	1	1				2		1	1	2	4	1	13
3	1			1	2	2	1	3	6	3	13	1	33
4	1	1			1	3	1	1	3	4	24	3	42
5	1		1		1	2				1	40	7	53
6	2		1		1	2					24	5	35
7					1	1					10	4	16
≥ 8					2	3					5	2	12
Totals	6	2	2	1	10	14	2	7	11	12	120	23	210

CALMS - 30

# Frequency Tables XI to XIV for Signy Island, South Orkneys, 1956.

## 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		2
2		2			2	2				3	4	1	14
3	1	1			2	10	3	1	1	2	5	3	29
4	1	3	1		5	9				1	11	3	34
5	1		1	2	8	2					14	3	31
6		1	1	2	7	6	1				25	2	45
7		1	2	1	14						15	5	38
>= 8		1			3						13	6	23
Totals	3	9	5	5	42	29	4	1	1	6	88	23	216

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											1		1
2	1				1	3	3	1		2	7	3	21
3	1	3			2						9	2	17
4	2	3	2		2			1	1	10	11	8	40
5	3	2	2	1	1			1	1	2	17	7	37
6	2	1	2		1				3	2	21	14	46
7			1							1	17	3	22
>= 8	3										2	5	10
Totals	12	9	7	2	9	3	1	2	7	22	81	39	194

CALMS - 46

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	1
2			1		1	2	2	1	1			2	10
3	3	4	1	1		5	1	1	2	4	6	5	33
4	1	2		1	6	5			3	10	13	8	49
5	1	3	2	1	3	6				8	8	7	39
6		2	2	1	1	1			4	6	12	2	31
7	1			1						2	10	5	19
>= 8										5	1		6
Totals	6	11	6	5	11	19	3	2	10	30	54	31	188

CALMS - 60

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					2	1	3	1	4	2	4	1	18
3		1				3			6	4	8	3	25
4			2		1				4	7	21	5	40
5	3	2	1			3		1	3	6	28	3	50
6	6									1	20	11	38
7	4									1	11	5	21
>= 8	6									2	7	9	24
Totals	19	3	3		3	7	3	2	17	23	99	37	216

CALMS - 32

# Frequency Tables XV to XVIII for Signy Island, South Orkneys, 1956.

## 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				3	1				1	1			6
2	1		1	2	9	5	1		1		2	2	24
3	1	1	2	2	8	3	2		3	2	2		26
4	1	3	1	1	14	2	1		4	5	8	3	43
5	2	2	5		5	4	1	1		3	6	3	32
6	3		2	1	4	9				1	8	9	37
7	2	1			7	1				1	10	6	28
> 8	4				1	1				2	7	7	22
Totals	14	7	11	6	51	26	5	1	9	15	43	30	218

CALMS — 22

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			1				1	2	1	2	4	1	12
3		1			2		1	4	6	4	10	4	32
4	1					1	1	1	3	5	29	5	46
5	3	1			1	4		1		6	25	6	47
6					2	2				6	26	4	40
7	2		2						1	2	22	8	37
> 8	1	1			2						6	5	15
Totals	7	3	3		7	7	3	8	11	25	122	33	229

CALMS — 19

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						1						2
2		1	2	1	3	2	1		1	3	1		15
3	1	2		1	1		4	3	5	5	13	1	36
4	2	1				2	1	3	7	5	19	1	41
5		6					4	1	4	6	23	7	51
6	1	1					1	1	3	3	29	3	42
7										2	21	4	27
> 8										2	5	3	10
Totals	5	11	2	2	4	4	12	8	20	26	111	19	224

CALMS — 16

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
2	3			2	6	3	1	2	4	3	6	3	33
3	3	3	2	1	2	3	3	8	11	13	5	3	57
4	1	3	1	3	1	5	1	5	10	5	18	4	57
5	2			1		3	1	1	7	7	18	5	45
6		2				1		1	1	2	6	4	17
7				2	1					1			4
> 8					1				2			1	4
Totals	9	8	3	9	11	15	6	17	36	31	53	20	218

CALMS — 30

Frequency Table XIX for Signy Island, South Orkneys, 1956.

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	1	2	5	10	7	7	4	2	5	7	6	6	62
2	8	8	7	14	41	26	16	8	23	32	45	19	247
3	19	22	9	23	30	41	19	24	61	52	112	31	443
4	19	25	10	24	37	28	6	13	41	58	218	53	532
5	24	23	17	14	33	26	6	8	18	49	222	52	492
6	19	10	13	9	19	22	3	2	13	25	194	61	390
7	10	3	5	4	24	3			1	11	118	42	221
= > 8	14	2			9	9			2	6	50	41	133
Totals	114	95	66	98	200	162	54	57	164	240	965	305	2520

CALMS 408.

Means and Extremes Table I for Hope Bay, Grahamland, 1956.

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			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	998.6	1014.8	2nd	978.0	25th	29.6	29.8	30.9	32.0	32.3	32.2	31.1	29.9	31.0	34.8	27.4	44	21st	21	16th
February	991.7	1001.2	27th	980.3	5th	26.2	26.3	27.3	29.2	30.0	29.4	28.1	26.7	27.9	32.3	23.1	47	12th	11	20th
March	991.7	1012.3	23rd	964.1	29th	20.4	20.4	21.0	21.8	22.7	22.1	20.9	20.4	21.2	27.5	14.9	44	7th	06	27th
April	998.9	1015.6	26th	982.4	24th	24.3	24.6	24.9	24.9	24.5	23.8	23.2	23.4	24.2	30.9	17.8	52	19th, 21st	-03	12th, 13th
May	1004.3	<u>1023.1</u>	<u>8th</u>	978.3	23rd	17.2	16.8	17.7	17.5	17.7	18.9	18.8	17.3	17.7	24.6	12.7	48	20th	-07	26th
June	991.0	1010.2	27th	974.3	29th	22.3	21.7	21.7	22.4	22.6	21.8	22.4	23.3	22.3	29.9	15.2	50	9th	-09	30th
July	996.0	1018.3	28th	<u>947.0</u>	<u>3rd</u>	19.2	18.8	17.7	18.4	19.4	20.0	19.9	19.8	19.1	27.0	11.5	36	12th	<u>-15</u>	<u>7th</u>
August	997.0	1021.5	21st	968.5	18th	20.3	20.3	20.6	21.9	22.9	21.4	21.2	20.9	21.2	29.3	13.1	43	23rd	-13	3rd, 4th
September	990.5	1015.3	12th	949.0	14th	16.8	16.6	16.8	17.9	18.4	18.0	16.5	16.5	17.2	23.7	9.9	38	5th	-10	20th
October	985.9	1007.8	21st	959.9	27th	22.4	21.9	22.3	23.0	24.4	23.7	23.3	23.3	23.0	29.8	15.8	51	20th	-05	7th, 8th
November	984.2	1001.8	13th	962.6	30th	30.2	29.6	31.2	32.6	33.9	32.7	30.9	30.6	31.5	36.7	27.4	<u>53</u>	<u>1st</u>	22	11th
December	992.8	1011.5	27th	963.1	1st	27.0	27.4	28.8	30.4	31.1	29.9	28.7	27.9	28.9	32.9	25.3	46	29th	18	1st
Total	11922.6	12153.4	—	11607.5	—	275.9	274.2	280.9	292.0	299.9	293.9	285.0	280.0	285.2	359.4	214.1	552	—	16	—
Mean	993.5	1012.8	—	967.3	—	23.0	22.9	23.4	24.3	25.0	24.5	23.7	23.3	23.8	29.9	17.8	46.0	—	1.3	—

Means and Extremes Table II for Hope Bay, Grahamland, 1956.

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	82	83	80	79	79	77	79	83	80	6.5	6.3	6.8	6.5	6.1	6.1	5.9	6.5	6.3	4.7		19.1			
February	79	79	79	75	78	79	80	81	79	6.0	6.5	6.9	7.1	6.7	6.4	6.6	6.3	6.6	2.8		15.9			
March	83	83	84	83	84	83	83	83	83	6.6	7.1	7.3	7.4	7.2	7.2	6.9	6.3	7.0	0.8		12.7			
April	74	75	79	75	73	72	72	73	74	6.1	5.1	6.0	6.1	6.0	5.1	5.1	6.0	5.7	2.3		9.5			
May	76	76	75	74	74	73	76	78	75	6.3	5.9	6.5	6.2	6.3	6.1	5.7	6.5	6.2	1.1		6.5			
June	79	80	76	78	80	81	81	80	79	5.5	5.5	5.7	6.0	6.6	5.6	6.1	5.4	5.8	0.5		4.7			
July	82	82	81	82	82	84	79	84	82	4.7	4.5	5.3	6.1	6.0	5.3	4.6	4.9	5.2	0.8		5.6			
August	87	87	85	87	85	86	87	89	87	4.8	5.1	5.2	5.5	5.5	4.8	4.9	5.1	5.1	2.4		8.3			
September	86	86	84	86	85	88	87	86	86	6.2	6.5	6.6	6.5	6.3	6.2	6.3	5.9	6.3	2.2		11.5			
October	81	81	79	80	79	79	77	81	80	6.0	6.5	6.2	6.2	6.4	6.6	6.5	5.9	6.3	4.5		14.7			
November	78	80	77	74	74	76	77	80	77	5.5	5.9	6.2	5.8	5.8	5.9	5.6	5.5	5.8	5.7		18.0			
December	77	77	74	71	68	73	77	77	74	6.6	6.3	5.6	6.0	6.3	5.9	6.0	6.6	6.2	5.4		20.4			
Total	964	969	953	944	941	951	955	975	956	70.8	71.2	74.3	75.4	75.2	71.2	70.2	70.9	72.5	33.2		146.9			
Mean	80	81	79	79	78	79	80	81	80	5.9	5.9	6.2	6.3	6.3	5.9	5.9	5.9	6.0	2.8		12.2			

Frequency Table I for Hope Bay, Grahamland, 1956.

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									5	20	25	44	21	63	44	26					
February										24	59	80	56	13							
March						1	6	9	25	18	41	57	31	37	13	10					
April										4	38	44	52	43	26	29	4				
May									3	5	9	21	38	49	55	38	22	8			
June								7	21	22	52	64	44	22	7	1					
July		3	3	3	5	15	15	11	14	12	37	15	10	20	34	51					
August						3	8	9	26	30	34	30	26	49	18	12	3				
September		1	2	6	12	10	14	7	15	25	32	57	22	27	9	1					
October				2	2	8	11	45	56	40	33	27	20	4							
November					10	19	20	15	58	37	48	28	5								
December					1	4	4	10	51	30	45	48	18	30	7						
Year		4	5	11	31	65	88	151	313	398	539	447	328	275	172	90	11				



Frequency Table III for Hope Bay, Grahamland, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 5																		
	< 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								2	3	8	12	26	23	29	56	30	29	17	13
February				1	1		2	3	3	5	14	15	27	46	43	34	14	10	14
March										3	12	9	12	41	49	56	38	23	5
April		1	2	2	2	3	5	4	10	10	10	14	34	48	41	35	16	3	
May					3		3	4	9	12	9	21	44	55	35	26	21	6	
June						1	1	2	8	6	7	25	39	18	32	41	38	21	
July						1	2	3	6	5	9	9	17	42	21	42	43	45	1
August									2	3	4	3	24	21	42	37	29	78	3
September											2	3	2	19	60	90	40	24	5
October		1			2	2	5	4	3	3	9	13	15	31	59	51	33	17	
November					1	1	1	7	11	5	18	25	21	32	30	36	31	20	
December						1	1	2	11	10	25	33	29	54	40	22	7	10	1
Totals		2	2	3	9	9	20	31	66	70	131	196	287	436	508	500	339	274	45
Mean		—	—	—	1	1	2	3	5	6	11	16	24	36	42	42	28	23	4

# Frequency Table IV for Hope Bay, Grahamland, 1956.

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	=	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	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	> 6000		
January			1	8	8	3	22	37	84	85	6	47	31	63	99	2	3	10	22	(1) 102	(14) 102	(6) 3	5	1	2			10	16	67	(11) 35	(4) 2												
February		11	14	9	7	5	48	61	57	20	11	34	26	41	95	25	25	1	6	62	(11) 54	(20) 66	7	9	2	25	1	5	38	(6) 26	(13) 23	4	1											
March	5	14	15	7	13	30	51	59	33	21	6	26	41	34	109	32	32	5	102	(4) 58	(19) 44	1	5		32		5	63	(4) 29	(9) 18			1							1				
April		7		21	12	11	46	62	64	17	16	67	35	28	83	11	11		6	92	(8) 59	(3) 54	2	14	1	11		1	55	(6) 18	(2) 10			1	8						1			
May		14	18	20	18	11	49	63	38	17	11	56	29	26	86	40	41		10	92	(8) 59	(1) 34	(2) 1	5		40		4	59	(7) 20	(1) 3	(2)								6				
June		10	1	5	2	13	76	73	47	13	10	53	49	34	81	13	13	1	9	66	(15) 100	(14) 41		7		13		6	42	(5) 34	(8) 8									3				
July		3	8	5	12	9	67	61	61	22	20	75	41	20	86	6	10	1	9	88	(16) 96	(2) 23	1	6	5	6	1	7	51	(13) 22	(2) 8										9			
August		5	3	6	17	14	58	73	38	34	17	92	38	29	65	7	7	1	11	(2) 78	(6) 91	(15) 41	(2) 2	3	2	7	1	5	42	(4) 22	(3) 5	(1) 2								12				
September		4	13	34	17	22	58	57	26	9	4	43	45	20	113	15	15		10	87	(12) 90	(14) 30	(2) 4	3		15		9	55	(7) 31	(11) 9	(1)	1								1			
October	3	5	6	9	19	18	46	60	59	23	7	80	28	33	85	15	15		13	70	(16) 97	(5) 44	2	5	1	15		12	38	(11) 30	(2) 12										1			
November		1	1	6	8	12	32	54	76	50	34	82	26	28	65	5	5	2	10	42	(1) 64	(7) 77	6	25	5	5	2	10	25	(1) 13	(3) 26			3	4	2					4			
December			1	2	4	11	15	46	94	75	15	58	32	68	73	2	3		2	31	(8) 106	(33) 87	(2) 4	12		3		2	18	(7) 29	(27) 38	(2) 2			6						3			
Total	8	74	81	132	137	159	568	706	677	386	157	713	421	424	1040	173	180	6	101	(2) 832	(106) 976	(147) 643	(14) 33	99	17	174	5	76	(1) 502	(71) 341	(92) 195	(10) 14	23	2						41				
Mean	1	6	7	11	11	13	47	59	56	32	13	59	35	35	87	14	15	1	8	(-) 69	(6) 81	(12) 54	(1) 3	8	1	15	-	6	(-) 42	(6) 28	(8) 16	(1) 1	2	-							3			

Frequency Table V for Hope Bay, Grahamland, 1956.

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; 16</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 > 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			1				5	2	2	12	2	6		18				2		2	4			
February	2			6				12	4	7	15		7		20				8		8	5			
March				2				18	10	4	19		1		22				19	1	3	12			
April	4			8				22	6	2	18		1		13					2	6	5	1		
May	2	3	1	6	Not recorded	Not recorded	Not recorded	19	11	3	14	1	1		19	3					2	9			
June			1	1				23	10	2	22	5	1		15				23		1	5			
July		1	5					18	6		17		1		11	1					1	5			
August		1	4	2				23	8		18				12	4			20		5	4			
September		1	2					21	5		20		1		17				26	1	7	14			
October	1	2	2	4				25	7	1	18		1		16				19	1	5	4			
November				4				15	5	3	18		2		14	1			4	1	6	1			
December	1			2				11	2	1	16	1	3		11				3		1	2			
Total	11	8	15	36				212	76	25	207	9	25	0	188	9			141	6	47	70	1	0	0
Mean	1	1	1	3				18	6	2	17	1	2	—	16	1			12	1	4	6	—	—	—

Frequency Table VI for Hope Bay, Grahamland, 1956.

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	11.6	4	22	100	106	16	14	20	7	5	6	12	42	45	54	16	5	6	
February	12.8	14	30	68	87	33	15	16	13	2	4	5	21	18	62	26	12	5	
March	16.9	43	24	61	78	42	7	12	7	3	1	8	14	37	61	32	13	11	
April	16.0	12	54	92	61	21	15	5	6	3	6	11	8	13	65	44	24	19	
May	17.1	46	36	59	70	37	8	6	6	6	4	5	15	18	73	51	9	10	
June	17.6	23	61	86	48	22	18	15	16	8	8	3	13	13	30	32	42	20	
July	13.7	19	36	65	80	48	15	11	20	16	14	16	5	7	17	15	39	25	
August	15.1	20	42	84	67	35	28	15	5	16	8	20	20	11	17	24	19	30	
September	16.6	10	60	107	48	15	17	6	3	3	11	17	19	22	39	49	26	13	
October	16.5	13	63	93	55	24	24	5	8	2	8	10	19	14	40	49	24	21	
November	13.3	10	36	83	80	31	14	7	5	2	8	4	16	11	50	40	31	21	
December	12.3	7	20	106	98	17	17	5	5	1	5	11	24	25	10	57	47	24	
Total	179.5	221	484	1004	878	341	192	123	101	67	83	122	216	234	518	435	291	205	
Mean	15.0	18	40	84	73	28	16	10	8	6	7	10	18	19	43	36	24	17	

# Frequency Tables VII to X for Hope Bay, Grahamland, 1956.

## 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	2	3		1	3		1	2			14
2	4	5	3	2	3	3	6	5	4		1		36
3	7	6	2		3	7	12	6	6	3		4	56
4	3	7				1	19	20	14	5	2	2	73
5							1	9	11	4	2		27
6							1	5	8	1			15
7									6	1			7
8									4				4
Totals	14	20	7	5	6	12	42	45	54	16	5	6	232

CALMS - 16

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	5	2			2	3	2	2	1		1	19
2	4	2	5	1	1	3	5	1	4	2	2		30
3	6	4	4	1	3		7	3	4	2	1	3	38
4	4	5	2				6	7	12	3	5		44
5								3	11	7	2	1	24
6								1	13	3	2		19
7									8	3			11
8								1	8	5			14
Totals	15	16	13	2	4	5	21	18	62	26	12	5	199

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	1		1	1		1		4		1	2		11
2		1	2		1	3	3	7	3	5			25
3	1	5	1	1		2	7	11	5	4		5	42
4	3	3	2	1		2	3	7	5	3	3	4	36
5	2	3	1				1	4	6	5	3		25
6								2	6	3	2	2	15
7								1	5	1	2		9
8								1	31	10	1		43
Totals	7	12	7	3	1	8	14	37	61	32	13	11	206

CALMS - 42

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	2	2	1	3	2	2	1	5	3		2	25
3	3		1	2	3	6	1	5	5	5	2	2	35
4	3	2	2			2	4	4	7	4	5	9	42
5	6	1	1					3	17	14	5	3	50
6	1						1		11	12	7	3	35
7									11	4	4		19
8									9	2	1		12
Totals	15	5	6	3	6	11	8	13	65	44	24	19	219

CALMS - 21

# Frequency Tables XI to XIV for Hope Bay, Grahamland, 1956.

## 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			2			6
2	2	2	2	3	1	1	3	3	8	4		4	33
3		1	1	2	2		4	4	10	4	1	2	31
4	2	1	3	1		2	3	6	4	9	4	1	36
5		2				1	2	4	8	2	3	1	23
6	2				1	1		1	8	6	1		20
7	1								9	5		1	16
≥ 8									26	19		1	46
<b>Totals</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>15</b>	<b>18</b>	<b>73</b>	<b>51</b>	<b>9</b>	<b>10</b>	<b>211</b>

CALMS - 37

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	3	3	1	1	1	2	1	2	2	1	1	2	20
3	1	1	1	2	1	1	7	2	3	2	1	3	25
4	7	6	5	1	1		4	5	8	3	8	5	53
5	3	4	2	2	2		1		5	3	9	2	33
6	1	1	6					2	3	7	7	5	32
7	3		1	1	2			2	4	8	7	1	29
≥ 8				1					5	6	9	2	23
<b>Totals</b>	<b>18</b>	<b>15</b>	<b>16</b>	<b>8</b>	<b>8</b>	<b>3</b>	<b>13</b>	<b>13</b>	<b>30</b>	<b>32</b>	<b>42</b>	<b>20</b>	<b>218</b>

CALMS - 22

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		4
2	1	1	3	1	3	2	1	2	2	1	3	4	24
3	7	5	2	1	1	5	3	4	6	2	12	4	52
4	6	2	2	4	2	5	1	1	3	1	4	13	44
5			8	2	2	1			2	2	3	1	21
6		1	2	2		2			2		6	3	18
7	1	1	2	4	4				1	2	3		18
≥ 8		1	1	2	1				1	6	7		19
<b>Totals</b>	<b>15</b>	<b>11</b>	<b>20</b>	<b>16</b>	<b>14</b>	<b>16</b>	<b>5</b>	<b>7</b>	<b>17</b>	<b>15</b>	<b>39</b>	<b>25</b>	<b>200</b>

CALMS - 48

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		1			6
2	2	3	1	3	1	3	5	1	2	3	2	2	28
3	5	4		1		6	7	3		1	1	5	33
4	2	3	2	2		4	6	1	4	6	7	8	45
5	9	2		1	2	5		3	3	3	3	8	39
6	7	1	1	3				2	2	2	1	5	24
7	3	2	1	2	1		1		3	3	1	1	18
≥ 8				4	3				3	5	4	1	20
<b>Totals</b>	<b>28</b>	<b>15</b>	<b>5</b>	<b>16</b>	<b>8</b>	<b>20</b>	<b>20</b>	<b>11</b>	<b>17</b>	<b>24</b>	<b>19</b>	<b>30</b>	<b>213</b>

CALMS - 35

## Frequency Tables XV to XVIII for Hope Bay, Grahamland, 1956.

## 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		4		1		9
2			1			1	1	3	2	3			11
3	3				1	1	7	4	3	4	4	1	28
4	6	1		1	4	2	4	4	9	11	7	7	56
5	2	1	1	1		11	5	6	8	11	4	1	51
6	5	2			2	1	1	2	5	10	8	3	39
7	1	1		1	2			3	3	9	1		21
≥ 8		1	1						5	1	1	1	10
Totals	17	6	3	3	11	17	19	22	39	49	26	13	225

CALMS - 15

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	1	1	1		1		6
2	2	2	2		1	1	2	1	2	3	1	1	18
3	7	1			2	1	1	5	1	4	1	4	31
4	9	2				4	4	3	5	9	12	3	57
5	6					1		5	3	9	7	2	36
6			5			1	3	1	4	11	8	5	38
7			1		1	1		2	8	8	2	2	25
≥ 8								3	7	3			13
Totals	24	5	8	2	8	10	19	14	40	49	24	21	224

CALMS - 24

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	1		3	1	2	1	2	3	17
2	1	4	1		3		2	1	7	3	1	3	26
3	3	1	4		1	2	4	3	8	2	5	4	37
4	4	1			2	2	6	2	8	13	14	7	59
5	3				1		1	2	6	7	1	3	24
6	1								2	4	2		9
7	1							1	12	7	5	1	27
≥ 8								1	5	3	1		10
Totals	14	7	5	2	8	4	16	11	50	40	31	21	209

CALMS - 31

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	2	2	1		1	1	10
2	5	3	4	1	1	2	5	1		2	3	5	32
3	2	2	1		3	4	7	6	2	8	12	9	56
4	8				1	3	5	13	3	22	19	4	78
5	1						3	1	2	11	6	4	28
6							2	2	2	3	1	1	11
7										5	4		9
≥ 8									6	1			7
Totals	17	5	5	1	5	11	24	25	10	57	47	24	231

CALMS - 17

Frequency Table XIX for Hope Bay, Grahamland, 1956.

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	5	8	5	6	6	13	17	11	11	11	8	5	106
2	26	28	27	13	19	23	36	28	41	30	14	23	308
3	45	30	17	12	19	35	71	52	56	38	43	46	464
4	57	33	18	10	14	27	64	75	86	92	81	66	623
5	32	13	13	6	8	18	19	38	88	76	43	27	381
6	17	5	14	5	3	5	8	18	66	62	45	27	275
7	10	4	5	8	10	1	1	9	70	56	29	6	209
= > 8		2	2	7	4			3	100	70	28	5	221
Totals	192	123	101	67	83	122	216	234	518	435	291	205	2587

CALMS 341.

Means and Extremes Table I for Admiralty Bay, South Shetlands, 1956.

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	998.1	1012.9	2nd	976.7	25th	32.8	33.2	33.7	34.6	35.1	34.8	33.9	32.8	33.9	37.2	31.5	45	20th	27	4th	
February	991.5	1003.1	12th	978.8	5th	33.6	33.5	33.6	34.5	34.8	34.4	34.0	33.9	34.0	37.7	30.9	45	8th, 28th	24	20th	
March	991.0	1011.4	23rd	967.2	29th	32.8	32.9	33.8	34.9	34.8	34.1	33.5	32.7	33.7	37.1	29.8	45	18th	21	25th	
April	999.7	1019.0	16th	982.5	1st	31.6	31.4	31.7	32.7	32.4	32.0	31.5	31.4	31.8	36.1	28.2	<del>46</del>	<u>22nd</u>	15	3rd	
May	1003.9	1022.2	8th	970.4	23rd	25.7	25.1	25.4	26.2	26.1	26.1	25.3	25.8	25.7	29.8	21.7	42	13th	<u>5</u>	<u>10th</u>	
June	991.8	1013.0	27th	975.7	5th	29.5	29.0	28.9	29.0	29.2	29.9	30.1	29.6	29.4	32.6	24.4	40	3, 4, 9	12	30th	
July	996.7	1018.2	29th	<u>949.8</u>	<u>3rd</u>	24.8	24.9	25.0	25.4	25.4	25.1	25.0	25.8	25.2	29.3	23.8	35	20th, 27th	<u>5</u>	<u>1st, 7th</u>	
August	998.8	<u>1024.1</u>	<u>21st</u>	971.5	18th	27.6	26.9	27.0	28.0	28.0	28.0	28.2	28.1	27.7	31.8	23.7	42	26th	11	2nd	
September	989.8	1016.5	12th	957.4	14th	25.7	25.8	25.4	26.2	26.6	26.1	25.7	25.6	25.9	29.9	24.8	39	5th	10	12th	
October	987.5	1013.7	21st	957.2	27th	29.5	29.7	29.8	29.6	29.0	29.5	29.4	29.2	29.5	32.9	25.9	40	21st	10	7th	
November	986.8	1003.3	13th	961.4	10th	32.5	32.7	33.1	33.8	34.0	33.5	32.6	32.3	33.1	36.6	30.2	45	15th	25	11th	
December	992.1	1011.9	27th	965.0	1st	30.6	31.0	31.7	33.2	33.5	33.1	31.8	31.3	32.0	35.4	28.9	41	29th	24	13th	
Total	11927.7	12169.3	—	11613.6	—	356.7	356.1	359.1	368.1	368.9	366.6	361.0	358.5	361.9	406.4	323.8	505	—	189	—	
Mean	994.0	1014.1	—	967.8	—	29.7	29.7	29.9	30.7	30.7	30.5	30.1	29.9	30.2	33.9	27.0	42.1	—	15.7	—	

Means and Extremes Table II for Admiralty Bay, South Shetlands, 1956.

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	91	84	88	86	84	83	89	90	87	7.4	7.6	7.5	7.7	7.4	7.5	7.6	7.5	7.5	2.8	—	18.5	Not recorded	Not recorded	Not recorded
February	90	89	90	88	86	88	90	89	89	7.1	7.2	7.1	7.0	6.9	6.9	6.9	6.2	6.9	2.6	—	15.3			
March	92	90	88	87	86	90	88	89	89	7.1	7.1	7.3	7.2	7.0	7.2	6.8	6.1	7.0	1.7	—	12.6			
April	90	90	88	84	88	87	86	89	88	6.0	6.6	6.9	6.8	6.7	6.8	6.6	6.2	6.6	1.1	—	9.6			
May	90	90	89	89	90	88	90	90	89	6.6	6.5	6.5	6.7	6.9	6.5	6.6	6.6	6.6	0.5	—	6.9			
June	91	91	92	90	90	88	86	90	90	6.1	6.2	6.3	6.4	6.4	5.9	6.5	6.3	6.3	0.4	—	5.3			
July	88	89	88	88	86	89	85	87	87	5.8	5.7	6.0	6.4	6.5	6.2	6.3	5.8	6.1	1.1	—	6.1			
August	91	91	91	91	91	92	86	93	91	6.1	5.5	6.3	6.5	6.5	6.7	6.2	6.4	6.3	1.2	—	8.7			
September	92	92	91	90	90	90	89	91	91	7.0	7.1	6.8	6.5	6.9	7.0	7.3	6.7	6.9	1.4	—	11.6			
October	90	93	90	88	91	90	91	89	90	6.6	6.8	6.9	6.6	6.5	6.9	6.8	6.5	6.7	2.9	—	14.6			
November	88	88	88	87	86	88	86	90	88	7.2	7.2	7.2	6.7	6.5	6.6	6.7	6.8	6.9	3.5	—	17.6			
December	87	88	85	84	83	85	86	86	85	6.5	6.6	6.7	6.4	6.3	6.3	6.4	6.3	6.4	4.3	—	19.5			
Total	1080	1075	1068	1052	1051	1058	1052	1073	1064	79.5	80.1	81.5	80.9	80.5	80.5	80.7	77.4	80.2	23.5	—	146.3			
Mean	90	90	89	88	88	88	88	89	89	6.6	6.7	6.8	6.7	6.7	6.7	6.7	6.5	6.7	2.0	—	12.2			

Frequency Table I for Admiralty Bay, South Shetlands, 1956.

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								8	14	30	49	15	69	38	25						
February								4	29	71	59	40	29								
March						3	10	28	24	48	45	32	35	18	5						
April									5	40	52	41	15	37	31	19					
May							5	2	10	14	17	25	47	61	29	25	13				
June								9	35	68	42	52	22	5	7						
July		2	4	4	5	7	9	18	10	11	19	41	16	24	53	25					
August							4	12	18	38	25	32	37	26	33	12	11				
September				2	6	14	12	15	29	37	45	28	16	23	9	4					
October				1	3	4	16	29	58	48	28	27	21	7	6						
November					4	13	14	20	36	52	46	43	12								
December						4	11	12	34	54	37	39	18	32	7						
Year		2	4	7	18	45	81	157	302	511	464	415	337	271	205	85	24				



Frequency Table III for Admiralty Bay, South Shetlands, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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	3	6	20	43	62	62	39	10
February									1			5	10	12	33	55	57	40	19
March												2	11	27	27	52	66	43	20
April					1					1	1	1	6	18	37	59	61	46	9
May													6	12	32	49	99	50	
June										1	2	2	6	12	27	53	48	66	23
July										1	6	13	13	21	20	44	60	53	17
August										1			1	6	15	27	41	46	74
September													4	6	13	24	39	65	66
October									1				3	20	28	59	58	48	31
November											1	3	9	28	50	48	36	31	34
December											2	13	17	27	44	60	40	39	6
Totals					1				2	4	15	47	99	225	392	621	698	595	229
Mean					—				—	—	1	4	8	19	33	52	58	50	19

# Frequency Table IV for Admiralty Bay, South Shetlands, 1956.

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				2	1		23	80	126	16		8	21	56	160	3	3	1	107	(114) 118	(18) 19	(6)			3			16	(108) 57	(13) 5	(6)				
February			3		13	3	44	59	97	13	1	13	32	73	102	11	11	4	49	(1) 43	(33) 42	(1)		1	11		2	22	(38) 47	(24) 13	(1)				
March			2	7	6	9	45	94	78	7	2	12	31	68	125	10	10		27	(15) 155	(41) 53		1		10			19	(10) 84	(29) 19				2	
April				11	3	11	37	55	123		4	15	57	63	90	11	11		18	(5) 118	(45) 87	(6) 2	1		11			13	(3) 53	(23) 27	(5) 1				3
May		4	3	16	42	20	56	47	60		14	13	36	49	102	34	34	2	49	(1) 49	(10) 102	(31) 46	(1)	2	1	34		(1) 27	(10) 68	(14) 12					11
June		1	5	2	16	9	67	78	62		5	23	65	56	78	13	13	1	49	(25) 115	(23) 54	(3) 3		2	13			25	(10) 50	(13) 13			1	3	
July		1		21	25	16	33	75	70	7	19	38	61	34	84	12	12		46	(15) 90	(14) 71	(3) 10	3	7	12			27	(10) 39	(2) 21	(2) 2		2	9	
August				2	13	16	10	52	68	87	15	28	55	56	80	14	14	2	72	(23) 78	(36) 65	(7) 2	6	3	14		1	28	(14) 30	(18) 15	(6) 1	3	2	6	
September				8	22	17	12	50	61	70			15	45	56	106	18	18		47	(13) 115	60	(22)		18			29	53	15	(18)				
October		1	4	16	14	16	49	58	83	7		19	71	68	76	14	14		57	(14) 106	(52) 68	(11) 3		14			27	(7) 40	(31) 8	(3)					
November			2	7	7	5	35	73	106	5	3	12	46	107	65	7	7	4	36	(1) 36	(7) 110	(76) 78	(11) 2	3	7		3	(1) 25	(6) 25	(46) 21	(5)	1			
December					4	12	42	51	119	20	5	36	62	76	68	1	1	2	25	(15) 130	(72) 81	(18) 4	3	1				12	(10) 16	(41) 20	(12) 1	1			2
Total		7	29	117	164	123	533	799	1081	75	68	232	582	762	1136	148	148	16	(3) 582	(299) 1362	(441) 724	(89) 28	18	14	148		6	(2) 270	(226) 562	(254) 189	(58) 5	5	5	36	
Mean		1	2	10	14	10	44	67	90	6	6	19	49	63	95	12	12	1	(-) 49	(25) 113	(37) 60	(7) 2	1	1	12		1	(-) 23	(10) 47	(21) 16	(5) -	-	-	3	

Frequency Table V for Admiralty Bay, South Shetlands, 1956.

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	FOG		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	8			3				6		4	11	3	6		30					1		1				
February	11			6				14	3	13	10	2	4		19				5	1	1	1				
March	10			8				17	3	11	13	6	1		23				1	4	6					
April	10			6				8	2	5	9		6		18					2	3					
May	6			2	Not recorded	Not recorded	Not recorded	14	4	6	16		9		19	1	Not recorded	Not recorded	9	1	2	8				
June	3				Not recorded	Not recorded	Not recorded	17	9	9	17	5	2		15				5		1	5				
July					Not recorded	Not recorded	Not recorded	19	5	2	19	2	2		17	1	Not recorded	Not recorded	19			8				
August				1	Not recorded	Not recorded	Not recorded	19	10	1	18	6	3		18	2	Not recorded	Not recorded	11		2	6				
September					Not recorded	Not recorded	Not recorded	18	7		24	3	3		21				22	1	1	10		1		
October	3				Not recorded	Not recorded	Not recorded	24	7	8	20	7	8		18				19	2		10		2		
November	6			1	Not recorded	Not recorded	Not recorded	14	1	9	16	7	11		17				3	1	2	2				
December	5				Not recorded	Not recorded	Not recorded	9	2	5	21	3	3		19	1			2		1					
Total	62	0	0	27				179	53	73	194	44	58	0	234	5			96	13	19	51	0	3	0	
Mean	5	—	—	2				15	4	6	16	4	5	—	19	—			8	1	2	4	—	—	—	

Frequency Table VI for Admiralty Bay, South Shetlands, 1956.

MONTH	2 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 70	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		12	100	107	29	25	11	11	67	31	7	8	12	16	15	6	10
February	12.8	5	32	87	94	14	45	16	13	44	18	6	5	1	12	23	9	26
March	12.9	5	33	92	96	22	47	40	18	31	6	4	3	7	25	24	7	14
April	11.8	4	16	98	87	35	35	15	8	46	16	7	4	3	14	24	19	14
May	13.3	7	34	97	64	46	29	13	15	59	22	19	9	4	8	6	6	12
June	14.2	15	40	87	62	36	33	44	8	34	6	2	3	5	13	29	17	10
July	14.4	9	56	78	71	34	40	34	9	19	9	7	6	4	10	54	17	5
August	15.2	19	48	70	84	27	46	43	6	14	7	1	3	4	18	46	19	14
September	15.6	11	40	110	71	8	29	34	23	51	23	7	5	2	12	23	14	9
October	17.7	13	70	95	63	7	62	23	16	38	4	1		1	14	53	16	13
November	12.9	2	31	103	82	22	55	8	4	10	5	1	2	7	20	62	21	23
December	11.4	3	18	99	116	12	29	23	11	57	31	13	8	5	12	24	15	8
Total	162.5	93	430	1116	997	292	475	304	142	470	178	75	56	55	174	383	166	158
Mean	13.5	8	36	93	83	24	40	25	12	39	15	6	5	5	15	32	14	13

# Frequency Tables VII to X for Admiralty Bay, South Shetlands, 1956.

## 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				4
2	2	1	3	7	2	3	2	4	3	2	2	1	32
3	7	4	3	16	9	2	5	6	4	6	4	5	71
4	10	3	2	33	13	2	1	2	7	4		2	79
5	4		1	7	6				2	1			21
6	2	1	1	2	1					1		2	10
7		2											2
8													
Totals	25	11	11	67	31	7	8	12	16	15	6	10	219

CALMS - 29

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	2	2	2			1	1	2		2	15
2	7		1	4	4				4	1	1	7	29
3	10	4	1	8	4				3	6	3	11	50
4	7	4	4	10	3	3			3	11	3	6	54
5	7	3	4	10	3		1		1	2	2		33
6	6	2	1	9	1	1	1			1			22
7	4	2		1	1		2						10
8	2					2	1						5
Totals	45	16	13	44	18	6	5	1	12	23	9	26	218

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	2	1		1			1	1				8
2	6	5		2	2	2	2	2	5	3	4	5	38
3	13	5	4	3	2	2	1	3	9	3			50
4	10	5	5	13	1			1	8	8	3	2	56
5	5	10	3	6					2	8		2	36
6	5	6	1	2						2			16
7	5	6	2	4									17
8	1	1	2	1									5
Totals	47	40	18	31	6	4	3	7	25	24	7	14	226

CALMS - 22

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	2			4		1	1		2	2	2	1	15
3	5	7	4	7	6	3	1	2	8	14	7	5	69
4	15		1	14	5	2	1	1	3	6	4	5	57
5	4		2	19	3	1	1		1	1	6	3	41
6	3	5	1	1	1								11
7	2	1		1						1			5
8	3	1											4
Totals	35	15	8	46	16	7	4	3	14	24	19	14	205

CALMS - 35

# Frequency Tables XI to XIV for Admiralty Bay, South Shetlands, 1956.

## 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													
2	2	2	1	1	1		1		1		1	2	12
3	9	2	3	10	2	10	3	1	6	2		4	52
4	5	4	4	18	13	3		1	1		2	2	53
5	10	1	2	13	6	2		1		3	3	3	44
6	1	1	1	13		1	2	1				1	21
7	2	1	3	2		3	2						13
>= 8		2	1	2			1			1			7
Totals	29	13	15	59	22	19	9	4	8	6	6	12	202

CALMS - 46

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
2	1	3	1	4	4			2	1	4	5	2	27
3	5	2	2	3	1	2	2	1	5	5	4	2	34
4	8	7	1	11	1		1	1	3	6	5	2	46
5	8	11	1	7				1	2	4	3	4	41
6	2	7	2	6					1	4			22
7	6	3	1	2					1	5			18
>= 8	3	11								1			15
Totals	33	44	8	34	6	2	3	5	13	29	17	10	204

CALMS - 36

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			1		1	1		1		1		7
2	5	4	2	1		2		3	2	7	2	2	30
3	4		4	3	1		1	1	2	12	4	2	34
4	7	3	1	6		1			3	9	6	1	37
5	7	8	2	3	7	2	2		1	5	4		41
6	9	8		4	1	1	1		1	11			36
7	5	9		1			1			4			20
>= 8	1	2								6			9
Totals	40	34	9	19	9	7	6	4	10	54	17	5	214

CALMS - 34

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	5	3	2	3				1	2	5	2	2	25
3	7	4	3	6	2	1	3		4	18	6	5	50
4	7	6	1	2	3			2	6	8	5	3	43
5	2	6		3	1			1	3	7	3	1	27
6	9	13			1				2	4	1		30
7	7	5							1	1	2	2	18
>= 8	9	6								3		1	19
Totals	46	43	6	14	7	1	3	4	18	46	19	14	221

CALMS - 27

# Frequency Tables XV to XVIII for Admiralty Bay, South Shetlands, 1956.

## 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	7		2	1	2	3	1		1	2	2		21
3	4	10	7	7	5	1	2	1	1	2	5	3	48
4	8	13	9	19	3	1	1	1	2	3	1	4	65
5	3	4	3	14	10	1			2	3	5		45
6	5	4	2	6	3	1			1	2	1		25
7	1			3					1	9		1	15
≥ 8	1	2		1					4	2		1	11
Totals	29	34	23	51	23	7	5	2	12	23	14	9	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
2	2	4	2	5	1	1			1	2	4	1	23
3	10	5	3	3	2			1	2	8	1	4	39
4	14	3	4	9	1				5	8	4	4	52
5	8	3	1	7					4	15	4	1	43
6	12	4	2	11					1	8	1	1	40
7	9	2	3	3					1	10	1	1	30
≥ 8	6	2	1							2	1	1	13
Totals	62	23	16	38	4	1		1	14	53	16	13	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													
2				1	2	1	1	2	2	8	5	3	25
3	16	2	2	1	1			4	4	15	5	7	57
4	21	3	2	5	1			1	4	14	7	10	68
5	8	1		2	1		1		8	9	3	2	35
6	4	1							2	11	1	1	20
7	4	1		1						5			11
≥ 8	2												2
Totals	55	8	4	10	5	1	2	7	20	62	21	23	218

CALMS - 22

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	4	1		2	2	2		2	2	4	2	2	23
2	7	3		7	1	2	2	2	2	4	3	3	36
3	7	5	3	10	9	3	1	1	3	7	6	2	57
4	5	3	4	18	14	5	5		4	5	3	1	67
5	3	7	2	11	4	1			1	2	1		32
6		2	1	7						2			12
7	1	1	1	2	1								6
≥ 8	2	1											3
Totals	29	23	11	57	31	13	8	5	12	24	15	8	236

CALMS - 12

Frequency Table XIX for Admiralty Bay, South Shetlands, 1956.

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	12	6	4	8	6	3	2	4	5	7	3	4	64
2	46	25	14	40	19	15	10	16	26	40	33	29	313
3	97	50	39	77	44	24	19	21	51	98	45	55	620
4	117	54	38	158	58	17	9	10	49	82	43	42	677
5	69	54	21	102	41	7	5	3	27	60	34	16	439
6	58	54	12	61	8	4	4	1	8	46	4	5	265
7	46	33	10	20	2	3	5		4	35	3	4	165
=> 8	30	28	4	4		2	2		4	15	1	3	93
Totals	475	304	142	470	178	75	56	55	174	383	166	158	2636

CALMS 292.

Means and Extremes Table I for Deception Island, South Shetlands, 1956.

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			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300	MAX.		MIN.	MAX.	DATE	MIN.	DATE	
January	998.0	1012.3	2nd	977.0	25th	33.3	33.9	35.0	36.5	37.0	36.4	35.0	33.8	35.1	38.7	31.6	47	20th	28	14th	
February	990.9	1002.8	12th	980.3	5th	33.2	33.2	34.7	36.2	36.4	35.8	34.1	33.5	34.6	38.6	30.7	46	29th	21	21st	
March	989.7	1011.0	23rd	962.0	29th	32.8	33.2	33.5	34.7	35.0	34.0	33.1	32.6	33.6	36.7	30.4	45	1st	20	16th	
April	998.7	1018.1	16th	981.2	24th	30.7	31.1	30.9	31.7	31.8	31.3	30.5	30.3	31.0	34.6	27.5	45	23rd	19	5, 6, 12	
May	1002.9	1021.7	8th	969.1	23rd	28.0	27.7	27.6	27.5	27.7	27.2	27.1	27.3	27.5	30.9	24.3	42	13th	12	28th	
June	990.5	1012.1	27th	973.3	5th	28.8	28.9	29.2	29.5	29.6	29.7	29.3	28.4	29.2	32.8	25.3	41	4th	13	30th	
July	996.0	1017.4	29th	<u>951.4</u>	<u>3rd</u>	25.0	25.0	25.3	25.2	25.7	25.7	25.5	25.6	25.4	28.7	21.1	34	20th, 26th	9	<u>1st</u>	
August	997.6	<u>1023.9</u>	<u>22nd</u>	972.0	18th	27.3	27.3	27.3	28.3	28.1	27.8	27.8	27.7	27.7	31.1	23.8	40	6th, 26th	10	2nd	
September	989.3	1015.3	12th	954.1	14th	25.0	24.2	24.1	24.6	24.9	24.2	24.0	24.5	24.4	27.9	20.6	39	5th	10	3rd, 4th	
October	986.1	1012.8	21st	961.6	27th	29.1	29.1	28.5	28.1	28.1	28.9	29.6	29.1	28.8	31.7	25.5	40	22nd, 24th	11	7th	
November	986.0	1002.2	13th	962.0	10th	30.7	30.9	32.0	32.6	32.8	32.8	31.7	31.1	31.8	34.9	29.0	41	15th	23	11th	
December	991.7	1010.8	27th	964.1	1st	30.4	31.3	32.6	33.6	33.8	33.5	32.1	30.8	32.3	35.8	28.6	41	22, 26, 29	21	3rd	
Total	11917.4	12160.4	—	11608.1	—	354.3	355.8	360.7	368.5	370.9	367.3	359.8	354.7	361.4	402.4	318.4	501	—	197	—	
Mean	993.1	1013.4	—	967.3	—	29.5	29.7	30.1	30.7	30.9	30.6	30.0	29.6	30.1	33.5	26.5	41.7	—	16.4	—	

Means and Extremes Table II for Deception Island, South Shetlands, 1956.

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	86	85	82	77	75	77	80	84	81	6.4	7.1	7.1	6.8	6.7	5.5	6.4	6.3	6.5	3.9	Not recorded	18.9	Not recorded	Not recorded	Not recorded	
February	86	86	83	80	79	81	83	85	83	6.6	7.1	6.8	7.0	7.0	7.1	6.8	6.5	6.9	2.6						15.8
March	86	86	88	86	84	87	88	86	86	6.5	7.2	7.3	7.5	7.3	6.9	7.0	6.6	7.0	0.9						12.7
April	90	90	90	89	89	90	88	90	89	6.8	6.9	7.5	7.4	7.1	7.5	6.4	6.9	7.1	0.4						9.6
May	87	88	91	89	89	87	88	86	88	6.8	7.2	7.4	6.9	6.9	6.9	6.4	6.7	6.9	0.2						6.7
June	88	88	88	88	89	89	89	85	88	6.6	6.7	6.9	7.3	7.6	6.9	6.7	6.6	6.9	0.0						4.9
July	85	86	85	85	86	87	87	86	86	5.9	5.9	6.5	6.9	7.1	6.4	5.8	6.2	6.3	0.0						5.7
August	86	86	88	84	84	86	89	87	86	6.5	6.3	6.9	7.0	6.6	7.2	7.2	6.5	6.8	0.4						8.4
September	87	86	86	84	83	85	87	85	85	7.2	6.9	6.9	6.9	7.4	7.3	7.0	7.2	7.1	1.0						11.5
October	88	87	87	88	87	86	84	87	87	7.2	7.0	6.6	6.6	6.7	7.4	7.4	6.7	6.9	2.5						14.6
November	88	87	85	85	84	82	85	86	85	7.4	7.3	7.1	7.3	6.7	6.9	7.0	6.9	7.1	3.4						17.9
December	79	80	78	73	73	74	78	80	77	6.4	6.6	6.4	6.4	6.7	5.9	5.9	6.2	6.3	5.0						20.1
Total	1036	1035	1031	1008	1002	1011	1026	1027	1021	80.3	82.2	83.4	84.0	83.8	81.9	80.0	79.3	81.8	20.3	146.8					
Mean	86	86	86	84	83	84	85	86	85	6.7	6.9	6.9	7.0	7.0	6.8	6.7	6.6	6.8	1.7	12.2					

Frequency Table I for Deception Island, South Shetlands, 1956.

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						10	15	38	43	10	66	35	31								
February								38	74	57	42	21									
March			2	6	12	25	34	63	28	27	34	12	5								
April							16	43	56	25	20	34	32	14							
May				2	4	2	13	16	18	32	52	44	27	27	11						
June					2	19	37	61	50	47	13	6	5								
July	8	2	6	11	10	14	12	12	23	34	14	27	54	21							
August					7	9	26	37	26	29	37	30	29	7	11						
September	1	5	9	14	11	8	37	29	48	29	15	25	6	3							
October			3	8	24	33	50	49	26	19	22	10	4								
November			5	13	26	9	42	48	54	35	8										
December			1	2	10	14	32	51	44	35	24	29	6								
Year	9	7	26	56	106	143	352	521	473	364	326	252	199	72	22						



Frequency Table III for Deception Island, South Shetlands, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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		1	4	12	15	30	51	42	39	38	15		
February									1	5	4	16	12	42	32	55	43	22		
March										1	3	3	14	33	38	51	58	44	3	
April												4	10	13	20	42	82	63	6	
May										2	4	5	6	13	33	51	80	49	5	
June									2	2	4	3	15	12	20	49	83	48	2	
July										1	3	8	20	25	37	51	66	34	3	
August											1	11	20	27	27	59	60	43		
September								1		1	3	7	12	31	39	58	65	23		
October												2	6	10	27	39	55	64	44	1
November										1	1	8	17	37	43	47	44	41	1	
December			1				1	2	4	17	18	31	41	34	18	27	30	23	1	
Totals			1				2	3	8	34	55	117	207	345	388	584	713	449	22	
Mean			—				—	—	1	3	5	10	17	29	32	49	59	37	2	

# Frequency Table IV for Deception Island, South Shetlands, 1956.

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			2	9	9	25	31	60	111	5	35	41	36	127	4	4	3	8	50	125	(7) 52	(11) 1	2	3	4	3	8	24	(7) 27	(49) 24	(10)				
February				7	9	9	42	41	19	105	9	18	35	63	99	8	8	2	10	(2) 52	(2) 81	(39) 64	(12) 6	7		8	2	5	(1) 28	(2) 38	(28) 27	(7) 2	3		2	
March			2	12	9	16	37	50	32	90	5	10	30	65	123	15	15		11	65	83	(43) 65	(10) 4	2	2	15		10	42	(1) 32	(40) 38	(6) 2	2		1	
April				7	16	23	60	47	39	48	3	13	45	27	142	10	11	3	17	(1) 76	(4) 76	(33) 51	(3) 3	3		10	3	14	(1) 52	(4) 37	(30) 17	(2) 1	1		1	
May		4	3	11	14	34	76	39	30	37	19	17	36	47	111	18	18	3	27	74	71	(14) 25	(2) 11	14	4	18		22	55	40	(9) 13	(1) 4	8	3	1	
June		1	1	8	12	42	77	53	17	29	7	12	40	54	120	7	7	1	17	107	(1) 75	(10) 23	(9) 3	6		7	1	16	73	(1) 40	(8) 11	(8) 1			1	
July					12	11	24	72	56	36	37	17	21	52	61	89	8	8	2	(2) 27	(1) 55	(2) 54	(13) 76	(6) 9	10	2	8		17	31	(2) 24	(10) 38	(3) 5	6		5
August		1	1	14	8	30	81	60	39	14	10	20	48	53	105	12	13	1	20	93	(4) 66	(13) 45	(1)	3	1	12		13	66	(4) 30	(6) 21				6	
September		1	4	17	23	33	61	50	18	33	5	14	33	52	105	31	31		5	(1) 44	(5) 82	(9) 68	(7) 5	1	2	31		3	(1) 27	(5) 53	(7) 44	(3) 2			2	
October		7	4	12	13	24	70	48	20	50	5	27	30	55	101	30	30	1	10	(1) 68	(4) 88	(18) 44	(5) 2	3	1	30	1	9	(1) 52	(4) 33	(17) 22	(4)	2		1	
November			1	4	10	9	73	38	53	52	5	14	59	57	96	9	9	2	26	(1) 51	(13) 80	(14) 61	(8) 6	4	1	9	2	22	44	(10) 24	(12) 17	(4) 2	1		1	
December				2	7	16	48	18	25	132	10	48	43	55	85	7	7	1	4	(4) 42	(25) 70	(20) 96	(18)	7	1	7	1	4	30	(4) 20	(21) 21	(14) 9	1		2	
Total	0	15	16	108	141	269	722	531	388	738	100	249	492	625	1303	159	161	19	(3) 182	(7) 777	(35) 951	(286) 670	(100) 68	62	17	159	13	143	(5) 524	(34) 398	(235) 293	(70) 30	25	4	21	
Mean	—	1	1	9	12	22	60	44	32	61	8	21	41	52	109	13	13	2	(-) 15	(1) 65	(3) 79	(24) 56	(8) 6	5	1	13	1	12	(-) 44	(3) 33	(20) 24	(6) 3	2	—	2	

Frequency Table V for Deception Island, South Shetlands, 1956.

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 HAUL			
	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	8			6				8		7	16	8	4		22				2	1			3		1	
February	11			9				8		9	13	4	7		20				6	2			4			
March	9			3				14	1	13	18	9	11	1	24				7	4	2		5		1	
April	4			4				15	1	9	17	4	10		22				11		2		2			1
May	4			1				16	3	7	17	6	10		25				11	1	1		8			1
June	1							21	1	7	22	5	11		23				13	7			5			1
July								17	1		22	1	6		18				19	4	1		8		1	1
August								18		2	23	3	7		22				17	2	4		7		1	
September								21	4		21	3			22				26	9			11		2	
October	1							25	3	4	28	6	5		21				21	8			11		2	
November	2							17		8	18	5	10		18				6	7	2		3		2	1
December	2							16		3	20	5	4		19	1			6	6	1		1		2	
Total	42	0	0	23				196	14	69	235	59	85	1	256	1			145	51	13		68	0	12	5
Mean	3	—	—	2				16	1	6	20	5	7	—	21	—			12	4	1		6	—	1	—

Frequency Table VI for Deception Island, South Shetlands, 1956.

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	10.5		31	66	137	14	8	37	49	4	2	6	11	9	25	40	24	19
February	11.9		33	83	107	9	6	40	27	10	2	4		4	17	29	51	33
March	13.3	2	42	102	90	12	16	32	24	11	2	4	4	15	34	32	38	24
April	14.3	4	48	107	73	8	4	47	32	6	3	4	4	6	18	33	40	35
May	14.1	5	44	97	91	11	8	45	43	30	10	5	3	4	5	14	37	33
June	16.9	1	68	118	49	4	11	44	24	2	3	1	1	8	28	31	49	34
July	14.5	3	46	122	57	20	20	26	26	7	5	3		23	39	32	31	16
August	15.1		65	110	63	10	26	11	11	3	1		2	16	46	38	42	42
September	17.6	9	85	87	46	13	6	32	71	7		3		2	33	34	20	19
October	17.3	9	74	112	48	5	17	26	24	3				6	46	55	36	30
November	13.5		46	108	74	12	5	18	10	7	2	4		13	51	66	33	19
December	13.3		52	90	99	7	9	30	72	19	4	4	7	11	28	27	21	9
Total	172.3	33	634	1202	934	125	136	388	413	109	34	38	32	117	370	431	422	313
Mean	14.4	3	53	100	78	10	11	32	34	9	3	3	3	10	31	36	35	26

# Frequency Tables VII to X for Deception Island, South Shetlands, 1956.

## 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		2	4			6	5	3	24
2		3	6	1	1	4	4	2	9	12	9	7	58
3		2	7	7	2		1	5	8	10	8	5	55
4		4	6	3		1		2	5	11	2	4	39
5		1	8	13			1		3	1			27
6			13	15									28
7				3									3
≥ 8													
Totals	8	37	49	4	2	6	11	9	25	40	24	19	234

CALMS - 14

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		1	8	2	16
2	1	2	1		1	3		1	2	6	18	3	38
3			4	7	3	1	1			6	7	18	6
4			9	2	2			1	8	15	6	15	58
5		4	9	3	2				1		1	5	25
6			11	11	2							2	26
7			4	3									7
≥ 8													
Totals	6	40	27	10	2	4		4	17	29	51	33	223

CALMS - 9

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	2	1	2	3		10
2	1	5		5	1		2	1	5	3	4	2	29
3	2	3		2	1	3		6	8	12	6	8	51
4	2	6	4				1	4	14	6	19	11	67
5	6	8	4					1	5	4	5	2	35
6	5	10	12	1				1	1	3	1	1	35
7			4	1						2			7
≥ 8				2									2
Totals	16	32	24	11	2	4	4	15	34	32	38	24	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	2		1		1	2	1	3	11
2		4		1		2		1	2	2	2	3	17
3	1	3	5	1	1	1	3	2	6	4	13	5	45
4	1	12	3	1		1		2	5	18	16	14	73
5	1	13	5					1	3	4	2	5	34
6	1	12	11	2					1	2	6	5	40
7		2	5							1			8
≥ 8		1	3										4
Totals	4	47	32	6	3	4	4	6	18	33	40	35	232

CALMS - 8

# Frequency Tables XI to XIV for Deception Island, South Shetlands, 1956.

## 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			4	1	3		1			3	4	18
2		2	1	7	1	1	2	1	2	2	3	4	26
3		3	8	10	6	1	1			3	14	1	47
4	3	8	9	8	2			2	1	4	8	4	49
5	1	18	5						2	4	4	14	48
6	2	5	8	1						1	5	6	28
7		6	10										16
>= 8		3	2										5
Totals	8	45	43	30	10	5	3	4	5	14	37	33	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		1	1		2			1	1	4	2	2	14
2	2			1					1		3	2	9
3		2			1		1	2	4	4	9	3	26
4	2	4	6					2	9	12	12	5	52
5	2	14	8	1		1		1	6	7	17	9	66
6		16	9					2	6	4	6	8	51
7	4	7							1				17
>= 8	1												1
Totals	11	44	24	2	3	1	1	8	28	31	49	34	236

CALMS - 4

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			1	1	3	1	13
2	3	1				1		1		1		1	8
3		3	3	1	3	1		3	6	6	7	3	36
4	1	10	7	4				8	14	11	11	1	67
5	8	7	8	2	2			7	4	4	4	9	55
6	5	4	6					4	9	7	1	1	37
7									5	1	3		9
>= 8										1	2		3
Totals	20	26	26	7	5	3		23	39	32	31	16	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	3		1	2			1	1		3	2		13
2	2	1		1				1	1		2		8
3		2	3		1		1	2	4	7	17	5	42
4	3	4	5					5	20	19	10	9	75
5	7	1	2					4	7	5	1	8	35
6	8	3						3	12	4	8	14	52
7	3								2		2	6	13
>= 8													
Totals	26	11	11	3	1		2	16	46	38	42	42	238

CALMS - 10

# Frequency Tables XV to XVIII for Deception Island, South Shetlands, 1956.

## 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			2	2		1	9
2	1		1					2	4	4	1	4	17
3	2		5	1						8	2	2	20
4	1	14	10	2		1			3	4	6	4	45
5	1	8	13	2		1			3	4	4	6	42
6		6	25	2					11	10	5	2	61
7		2	12						7	1	2		24
≥ 8		1	4						3	1			9
Totals	6	32	71	7		3		2	33	34	20	19	227

CALMS - 13

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	1						1	2	2	2	10
2	3	1		1					1	2	2	2	12
3	1	3	1							4	8	6	26
4	3	6	4					3	6	17	11	8	58
5	2	5	3	2				1	14	8	10	9	54
6	6	6	4					2	18	16	5	5	62
7	1	1	5						2	2		1	12
≥ 8	1	2	6										9
Totals	17	26	24	3				6	46	55	36	30	243

CALMS - 5

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	2	4		14
2	1	3	1	3	1				1	4	3	1	18
3	1	4	3	2		2			4	17	6	3	42
4	1	6	3					3	12	21	15	7	68
5	1	3	2	1				1	14	11	3	4	40
6	1	2		1				6	18	11	2	3	44
7								1				1	2
≥ 8													
Totals	5	18	10	7	2	4		13	51	66	33	19	228

CALMS - 12

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	3	1	2		4	2	4	2	21
2	2	6	2	6		1	1	1	2	3	8	1	33
3	2	8	4	4	1	2	3	3	5	7	5	1	45
4	3	7	14	4			1	2	11	5	2	2	51
5	1	4	22	3				1	3	2	1	2	39
6		4	28	1				1	2	5	1	1	43
7			2					3	1	3			9
≥ 8													
Totals	9	30	72	19	4	4	7	11	28	27	21	9	241

CALMS - 7

Frequency Table XIX for Deception Island, South Shetlands, 1956.

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	12	7	9	10	9	11	9	9	13	27	37	20	173
2	16	28	12	26	5	12	9	11	30	39	55	30	273
3	11	42	46	26	15	11	10	23	55	93	111	45	488
4	24	92	70	21	3	2	3	34	108	143	118	84	702
5	35	98	88	13	2	2	1	17	65	54	52	73	500
6	28	92	129	10				19	78	63	40	48	507
7	8	22	44	1				4	18	10	7	13	127
= > 8	2	7	15	2					3	2	2		33
Totals	136	388	413	109	34	38	32	117	370	431	422	313	2803

CALMS 125.

Means and Extremes Table I for Argentine Islands, 1956.

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	998.0	1014.2	2nd	976.7	26th	33.2	32.2	33.3	33.8	34.4	34.2	33.6	32.8	33.4	36.2	31.0	41	21st, 27th	27	11th
February	989.9	1001.3	12th	978.2	9th	32.7	32.5	33.4	34.0	34.3	34.3	34.0	33.3	33.6	36.7	30.9	44	9th	25	20th
March	988.2	1011.8	23rd	962.2	29th	32.5	32.2	32.2	32.6	32.6	32.6	34.4	34.4	32.9	36.3	29.6	<del>46</del>	<u>21st</u>	24	27th
April	997.0	1014.4	13th	966.5	24th	29.8	29.8	29.8	30.8	31.0	30.1	30.1	30.1	30.2	33.5	27.3	44	14th	19	6th
May	1001.4	1022.5	8th	971.0	23rd	29.3	29.4	29.8	30.1	29.7	29.2	29.1	29.5	29.5	32.7	26.6	44	18th, 19th	19	28th, 29th
June	987.5	1011.9	27th	965.8	5th	28.7	28.9	28.9	28.9	28.5	28.2	28.1	27.8	28.5	30.7	24.6	39	16th	9	30th
July	995.3	1017.9	29th	953.2	4th	21.2	21.0	21.2	21.0	21.5	21.3	21.2	21.3	21.2	25.5	16.9	38	20th	3	7th
August	995.9	<u>1025.6</u>	<u>22nd</u>	967.0	31st	24.3	24.5	24.7	25.2	25.4	25.4	25.3	25.1	25.0	29.3	20.6	41	24th	8	2nd
September	988.2	1013.8	12th	<u>951.0</u>	<u>13th</u>	20.1	19.9	20.1	21.1	21.7	21.5	20.5	20.4	20.7	25.4	15.9	37	6th	<u>-1</u>	<u>19th</u>
October	983.5	1011.0	21st	956.8	2nd	26.4	26.1	26.6	28.1	28.8	28.5	27.8	27.3	27.5	31.9	22.6	43	22nd	12	5th
November	984.2	1000.4	13th	961.6	8th	28.4	28.7	29.0	30.6	31.0	30.4	29.4	28.6	29.5	33.5	26.1	42	15th	16	13th
December	991.9	1008.7	27th	966.7	1st	28.0	28.8	30.5	32.4	32.4	31.7	31.0	29.1	30.5	35.5	26.7	42	30th	20	1st
Total	11901.0	12153.5	—	11576.7	—	334.6	334.0	339.5	348.6	351.3	347.4	344.5	339.7	342.5	387.2	298.8	501	—	181	—
Mean	991.7	1012.8	—	964.7	—	27.9	27.8	28.3	29.1	29.3	28.9	28.7	28.3	28.5	32.3	24.9	41.7	—	15.1	—

Means and Extremes Table II for Argentine Islands, 1956.

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	89	88	87	85	85	86	87	87	7.1	7.0	7.1	6.8	6.3	6.4	6.6	6.9	6.8	3.2		20.1	72.0	24.1	9th
February	87	86	89	83	82	81	83	84	84	6.5	6.7	6.5	6.4	6.6	6.6	6.7	6.5	6.6	3.9		16.2			
March	85	85	86	86	85	86	84	87	85	6.7	6.9	7.5	7.2	6.9	6.8	6.9	6.4	6.9	—*		12.8			
April	87	87	87	88	86	88	87	86	87	7.2	6.6	7.1	6.9	6.8	7.1	6.7	6.3	6.8	—		9.4			
May	87	87	85	85	87	80	88	87	86	6.0	6.5	6.6	6.9	7.1	7.0	6.5	6.6	6.7	—		6.0			
June	83	82	84	83	85	85	86	85	84	6.7	6.5	7.1	7.3	7.2	6.7	6.1	6.3	6.7	—		3.7			
July	79	81	78	78	78	78	78	79	79	5.7	4.9	5.6	6.3	6.8	5.7	5.0	5.3	5.7	0.3		4.9			
August	87	86	87	85	86	86	86	87	86	5.9	6.0	6.6	7.1	7.0	7.5	7.5	6.9	6.8	0.9	Not recorded	8.1	Not recorded	Not recorded	Not recorded
September	83	83	82	83	81	78	82	83	82	6.7	6.7	6.9	7.0	6.7	6.5	6.7	6.7	6.7	1.9					
October	86	85	83	82	82	83	84	85	84	7.1	7.0	7.4	7.0	7.2	6.9	7.4	7.0	7.1	2.4		14.9			
November	89	87	86	83	82	84	86	86	85	7.3	7.5	7.1	7.1	6.8	7.0	7.2	7.5	7.2	3.1		18.5			
December	84	81	77	75	75	79	83	85	80	5.6	6.0	5.7	5.5	5.3	5.4	5.2	5.6	5.5	7.5		22.1			
Total	1025	1019	1012	998	994	993	1013	1021	1009	78.5	78.3	81.2	81.5	80.7	79.6	78.5	78.0	79.5	—		—	—	—	—
Mean	85	85	84	83	83	83	84	85	84	6.5	6.5	6.8	6.8	6.7	6.6	6.5	6.5	6.6	—		—	—	—	—

\* No records 1st April to 9th July, inclusive.

Frequency Table I for Argentine Islands, 1956.

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									14	8	52	31	16	27	71	29					
February									8	44	72	49	51	8							
March						6	5	9	27	67	32	34	21	31	8	8					
April							1	1	6	23	27	51	34	36	30	31					
May								5	7	13	21	25	33	43	40	25	25	11			
June							3	13	25	62	56	34	29	8	5	5					
July			4	7	6	11	9	19	8	20	24	22	21	28	53	16					
August							5	16	10	26	26	26	36	42	25	19	5	9	3		
September				1	11	15	10	4	14	28	37	38	31	23	21	7					
October					2	2	20	36	36	44	40	26	30	7	3	2					
November						8	24	18	14	46	49	53	23	5							
December							3	9	14	35	46	45	36	30	30						
Year				5	20	37	82	120	194	404	478	436	362	281	261	179	46	20	3		



Frequency Table III for Argentine Islands, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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												3	11	30	40	75	53	23	13
February								1	1	7	14	20	32	29	39	47	28	14	
March							1	3	1	7	1	12	18	21	30	39	40	68	7
April										3	7	8	8	22	27	51	47	66	1
May									1		4	5	15	29	33	55	58	44	4
June									5	10	10	13	15	25	26	28	41	61	6
July							1		10	10	14	21	25	33	43	38	45	8	
August							1	1	1	3	5	14	12	18	25	42	64	60	2
September									1	5	10	14	16	45	46	38	40	25	
October							1	1	2	5	9	13	19	34	31	33	42	58	
November									1	2	6	13	13	28	38	35	46	57	1
December									3	11	13	21	28	37	44	35	29	25	2
Totals							4	5	26	57	86	151	200	354	412	508	552	523	50
Mean							—	—	2	5	7	13	17	29	34	42	46	44	4

# Frequency Table IV for Argentine Islands, 1956.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>									LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS (metres) <sup>7</sup>															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	to 6000	> 6000	
January					5	2	24	117	47	53	38	20	15	43	132					21	90	(12) 85	(12) 14	17	7			15	56	(11) 66	(6) 9	4			14
February					6	6	37	80	22	81	41	28	39	35	89			2	12	88	(2) 72	(6) 17	(11) 28	9		2	12	(2) 47	(2) 19	(8) 10	5	2	4		
March			1	1	4	4	31	62	35	110	18	26	32	54	108	10	10	2	29	61	(1) 109	(27) 19	(9) 8	4	10	2	24	(1) 32	(24) 51	(7) 4	2	2	6		
April				1	3	1	42	70	20	103	36	21	34	36	104	9	9		24	80	(11) 80	(31) 77	(1) 14	20	9	9	16	(11) 41	(21) 33	(1) 1	5	7	7		
May				2	3		15	71	18	139	31	29	35	48	104	1	1	1	22	(13) 66	(14) 120	(1) 7	15	7	1		11	(1) 34	(2) 60	(10) 5	2	3	9		
June		1		1	2	5	30	70	35	96	21	28	39	37	107	8	8	1	18	(1) 65	(2) 124	(18) 3	(2) 15	2	8		(1) 7	(2) 43	(10) 57	(2) 7	1	4			
July				3	9	3	4	8	49	29	143	42	62	33	39	63	9	9	1	10	21	(13) 160	(5) 5	20	10	9	1	7	13	(9) 56	(3) 1	5	4	12	
August				1	16	7	5	37	67	36	79	17	40	24	42	102	23	23	1	20	(2) 63	(18) 117	(8) 7	13	1	23	1	15	(2) 41	(10) 51	(2) 5	3	3		
September				10	8	5	19	38	32	128	29	41	24	48	88	10	10		19	(6) 56	(14) 105	(5) 21	19	10	10		7	(4) 39	(8) 47	(2) 1		3			
October				2	13	12	10	38	48	32	93	19	31	30	33	120	15	15	4	39	(1) 58	(5) 95	(27) 18	(6) 16	2	15	1	23	(1) 23	(2) 35	(21) 47	(4) 7	3	1	1
November				11	12	9	55	38	29	86	14	22	26	40	134	4	4	1	18	(2) 63	(11) 71	(39) 60	(9) 9	12	2	4		(2) 11	(10) 47	(28) 16	(7) 3	1			
December					3	7	7	28	23	180	45	66	23	51	59	4	4		12	(1) 12	(2) 32	(15) 102	(18) 53	26	10	4		(1) 4	(2) 14	(13) 29	(11) 21	1	3	9	
Total	0	1	7	64	68	58	343	738	358	1291	351	414	354	506	1210	93	93	2	(2) 29	(3) 289	(56) 751	(234) 1226	(87) 187	209	73	93	0	(2) 18	(3) 188	(47) 433	(170) 532	(54) 67	38	26	69
Mean	—	—	1	5	6	5	29	61	30	108	29	35	29	42	101	8	8	—	(-) 2	(-) 24	(5) 63	(19) 102	(7) 16	17	6	8	—	(-) 1	(-) 16	(4) 36	(15) 44	(5) 6	3	2	6

Frequency Table V for Argentine Islands, 1956.

MONTH	WEATHER: No. of Days <sup>1</sup>																									
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>9</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>	10 & 16 Fog		10 & 17 HAIL			
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	>0.10 mm	>1.0 mm	>10.0 mm	WIND = 6 FORCE >	WIND = 8 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	7								5	19	3	4		22						6			1			
February	6			1	14	11	2	3	9	12		3		20						6				1		
March	3			5				8	1	8	21	5	4	22						2	1	1				
April	3			1				2	9	18	5	7		23					2			1				
May				2	Not recorded	Not recorded	Not recorded	9	3	7	13	6	5	22			Not recorded	Not recorded	3				1			
June								16	5	6	22	3	5	21					10			2				1
July								10	3	3	17		1	13			Not recorded	Not recorded	11		2	7				
August								7	2	4	19	4	6	23					12		2	6				1
September								11	2	1	17		2	19					12		1	5				
October				1				13	3	3	25	3	5	26					14	2	2	8	2			
November	1			1				6		3	23	4	5	22					5		2	6				2
December				1						1	14			10		1			1							
Total	20	0	0	12				85	19	59	220	33	47	0	243	1			70	16	11	36	3	1		4
Mean	2	—	—	1				7	2	5	18	3	4	—	20	—			6	1	1	3	—	—		—

Frequency Table VI for Argentine Islands, 1956.

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	2.2			6	95	147	4	9	3	3	2	15	46	12		1	3	3
February	5.9		10	40	87	95	40	32	6	2		13	21	5	1	5	4	8
March	7.9	2	18	42	124	62	27	63	15	16	8	18	16	11	3	7	1	1
April	6.9		5	54	108	73	37	38	18	8	5	10	16	1	4	7	3	20
May	8.8	3	25	46	105	69	50	21	5	8	6	6	14	4	3	1	16	45
June	13.1	7	42	86	70	35	53	25	10	8	10	8	27	4	6	11	22	21
July	8.9	3	21	57	119	48	38	15	5	7	7	18	48	13	10	10	7	22
August	11.5	3	25	89	113	18	51	15	12	7	2	22	42	24	12	5	3	35
September	8.8	3	25	50	110	52	26	4	3	7	3	30	45	25	4	5	3	33
October	10.7	4	20	77	131	16	49	16	7	22	8	11	22	11	9	17	9	51
November	9.1		17	76	108	39	35	8	3	2	12	17	34	13	7	24	4	42
December	3.9			16	151	81	16	5	3	12	1	37	58	21	4	4	3	3
Total	97.7	25	208	639	1321	735	426	251	90	102	64	205	389	144	63	97	78	284
Mean	8.1	2	17	53	110	61	35	21	7	9	5	17	32	12	5	8	7	24

# Frequency Tables VII to X for Argentine Islands, 1956.

## 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		5	18	2		1			30
2		2	2	2	2	4	18	8			1	3	44
3		2	3			5	8	1			2		21
4			2			1	2	1					6
5													
6													
7													
>= 8													
Totals	4	9	3	3	2	15	46	12		1	3	3	101

CALMS - 147

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			11	3						1 20
2		6	6	3	1	2	9	2		3	1	1	34
3		13	4	2	1		6	1	1	2	1	2	33
4		9	9				3	2					23
5		8	7								1	1	17
6		2	2								1	3	8
7			2										2
>= 8													
Totals	40	32	6	2		13	21	5	1	5	4	8	137

CALMS - 95

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	7	3	2	1	2	3	1	1			22
2		3	8	2	6	3	12	6	3		3	1	47
3		14	9	5	4	1	4	6	6	2	4		55
4		2	22	2	2	1		1	1				31
5			7		1	2						1	11
6		6	6	2	1								15
7			3										3
>= 8			1	1									2
Totals	27	63	15	16	8	18	16	11	3	7	1	1	186

CALMS - 62

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	5	4	2	1	2	3		1			1 20
2		5	8	7	4	2	3	8		2	1		2 42
3		9	8	3	1	2	5	5	1		2	3	7 46
4		14	9	3	1						4		6 37
5		8	5	1					1				2 17
6			2										2 4
7			1										1
>= 8													
Totals	37	38	18	8	5	10	16	1	4	7	3	20	167

CALMS - 73

# Frequency Tables XI to XIV for Argentine Islands, 1956.

## 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	7	1	4		1	7	1			1	5	29
2	8	5	1		5	1	3	1			2	6	32
3	8	5	3	3		3	3	1			2	16	44
4	12	3					1			1	1	8	26
5	10	1							1		3	5	20
6	3								1		5	1	10
7	7			1	1			1	1		2	2	15
= 8						1						2	3
> 8													
Totals	50	21	5	8	6	6	14	4	3	1	16	45	179

CALMS - 69

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	1	3	4			3	1		14
2	3	2	1	4	3	2	7	1	1		5		29
3	7	1	2	1	2	1	7	1	1	2	1	1	27
4	11	5	2	2	3	1	4	2	3	3	7	8	51
5	11	2	2			1	4			3	3	9	35
6	10	8			1		1				3		23
7	9	5	1						1		2	1	19
= 8	1	2	2									2	7
> 8													
Totals	53	25	10	8	10	8	27	4	6	11	22	21	205

CALMS - 35

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	1	4	13	2	1	1	1	2	28
2	6	1	3	1	4	2	9	4	2	4		5	41
3	6	2		4	1	8	12	3	1	2	3	8	50
4	10	1	1	1	1	3	9	4	6		2	3	41
5	4	3				1	3			2	1	2	16
6	8	2					1			1		2	14
7	4	2	1										7
= 8		2					1						3
> 8													
Totals	38	15	5	7	7	18	48	13	10	10	7	22	200

CALMS - 48

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	2		3	7	3	2			3	22
2	3	2	4	1	1	9	8	4	3	2		4	41
3	5	2	2	1	1	8	14	10	2	1	2	2	50
4	21	2	1			2	11	7	5	1	1	8	59
5	7	6	2	1			2			1		11	30
6	8		2	2								3	15
7	4	2										4	10
= 8	2	1											3
> 8													
Totals	51	15	12	7	2	22	42	24	12	5	3	35	230

CALMS - 18

# Frequency Tables XV to XVIII for Argentine Islands, 1956.

## 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	5		1	3	2	2	7	9			1		30
2	1	2		1		12	14	2		1	1	3	37
3	2		1	3	1	12	11	9	2		1	1	43
4	8	1				4	8	2					31
5	4						4	1	2	2			19
6	6	1	1				1	2		2			22
7													3
≥ 8													3
Totals	26	4	3	7	3	30	45	25	4	5	3	33	188

CALMS - 52

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			3	3	4	5	3	2	3	1	5	34
2	9	2	2	7	2	2	6	5		5	1	3	44
3	9	1	1	8	2	4	5	2	5	6	1	9	53
4	10		4	3	1	1	6		2	2	2	13	44
5	10	6		1				1		1	3	11	33
6	5	4									1	6	16
7	1	2										1	4
≥ 8		1										3	4
Totals	49	16	7	22	8	11	22	11	9	17	9	51	232

CALMS - 16

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	4	6	2	3	3	1	1	23
2	4	2	2	2	2	6	15	4	1	4		5	47
3	3	2	1		6	5	7	3		5	1	5	38
4	11	2			2	2	6	4	2	7	2	11	49
5	8	2							1	4		12	27
6	7											4	11
7	1									1		4	6
≥ 8													
Totals	35	8	3	2	12	17	34	13	7	24	4	42	201

CALMS - 39

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		8		14	14	12	2	1	2	1	56
2	6		1	4	1	13	30	7	2	2	1	1	68
3	6	1	1			8	9	2					27
4	2	1				2	3					1	9
5	1	2	1				2			1			7
6													
7													
≥ 8													
Totals	16	5	3	12	1	37	58	21	4	4	3	3	167

CALMS - 81

## Frequency Table XIX for Argentine Islands, 1956.

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	21	26	12	27	11	56	93	35	12	12	8	19	332
2	56	40	28	33	25	70	136	41	11	25	13	33	511
3	84	37	21	26	16	61	89	40	14	24	15	51	478
4	110	56	13	9	8	15	52	23	18	18	16	66	404
5	71	43	6	3	2	2	15	2	5	14	12	60	235
6	55	25	5	3	1		3	2	1	3	10	30	138
7	26	17	2	1	1			1	2	1	4	15	70
= > 8	3	7	3			1	1					10	25
<b>Totals</b>	<b>426</b>	<b>251</b>	<b>90</b>	<b>102</b>	<b>64</b>	<b>205</b>	<b>389</b>	<b>144</b>	<b>63</b>	<b>97</b>	<b>78</b>	<b>284</b>	<b>2193</b>

CALMS 735.

## Upper Air Means Table I for Argentine Islands, 1956.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °C, for 1100 Zone Time :-																							
	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	0.8	-1.4	-3.7	-8.2	-4.5	-10.3	-6.2	-12.2	-10.5	-17.6	-16.5	-24.9	-25.9	-33.0	-36.9	-42.5	<sup>29</sup> 30	<sup>30</sup> -49.7	<sup>28</sup> -17.5	<sup>21</sup> -46.2	<sup>30</sup> 265	<sup>30</sup> 9710	<sup>30</sup> -55.6	
February	1.2	-1.1	-4.5	-7.4	-7.8	-10.8	-10.3	-18.7	-16.3	-20.3	-23.9	-28.5	-31.9	-36.2	-42.7	-47.0	<sup>0</sup> 26	<sup>26</sup> -52.4	<sup>26</sup> -46.1	<sup>23</sup> -46.7	<sup>15</sup> -46.3	<sup>28</sup> 293	<sup>28</sup> 8800	<sup>28</sup> -54.9
March	0.2	-2.0	-4.1	-7.0	-6.5	-9.8	-9.3	-12.5	-14.2	-19.2	-21.2	-26.6	-29.7	-34.5	-41.1	-43.6	<sup>12</sup> -52.1	<sup>13</sup> -48.2	<sup>29</sup> -48.0	<sup>22</sup> -50.0	<sup>28</sup> 290	<sup>28</sup> 8950	<sup>28</sup> -55.2	
April	-1.0	-3.2	-4.9	<sup>20</sup> -7.5	-7.6	<sup>20</sup> -9.9	-9.4	<sup>20</sup> -11.0	-14.8	<sup>20</sup> -18.9	-21.0	<sup>20</sup> -26.7	-29.9	<sup>20</sup> -35.2	-40.9	<sup>13</sup> -43.6	<sup>30</sup> -52.6	<sup>20</sup> -54.4	<sup>20</sup> -54.3	<sup>22</sup> -54.4	<sup>28</sup> 257	<sup>28</sup> 9770	<sup>28</sup> -59.3	
May	-1.3	-3.8	-4.5	-8.1	-6.2	-10.0	-8.8	-12.9	-14.4	-19.0	-21.9	-27.5	-31.1	-34.8	-42.6	-44.9	<sup>30</sup> -56.2	<sup>30</sup> -59.3	<sup>20</sup> -59.7	<sup>27</sup> -61.9	<sup>28</sup> 261	<sup>28</sup> 10190	<sup>28</sup> -62.9	
June	<sup>20</sup> -1.9	<sup>20</sup> -4.4	<sup>20</sup> -6.5	<sup>20</sup> -9.2	<sup>20</sup> -9.1	<sup>20</sup> -11.5	<sup>20</sup> -11.9	<sup>20</sup> -14.5	<sup>20</sup> -17.8	<sup>20</sup> -21.9	<sup>20</sup> -25.7	<sup>20</sup> -31.0	<sup>20</sup> -35.1	<sup>28</sup> -40.4	<sup>20</sup> -46.7	<sup>20</sup> -42.5	<sup>20</sup> -58.6	<sup>20</sup> -63.2	<sup>20</sup> -65.5	<sup>18</sup> -67.5	<sup>20</sup> 260	<sup>20</sup> 9520	<sup>20</sup> -64.3	
July	-6.0	-9.4	-8.8	-13.1	-10.7	-15.7	-13.4	-17.1	-18.6	-24.2	-26.8	-32.2	-35.7	<sup>20</sup> -41.9	-46.8	<sup>2</sup> -45.8	<sup>2</sup> -59.4	<sup>2</sup> -68.9	<sup>21</sup> -70.5	<sup>21</sup> -73.3	<sup>21</sup> 213	<sup>21</sup> 10680	<sup>21</sup> -70.7	
August	<sup>30</sup> -1.0	<sup>30</sup> -6.1	<sup>30</sup> -7.1	<sup>30</sup> -10.0	<sup>30</sup> -9.8	<sup>30</sup> -12.7	<sup>30</sup> -12.0	<sup>30</sup> -15.3	<sup>30</sup> -17.0	<sup>30</sup> -21.7	<sup>30</sup> -24.5	<sup>30</sup> -30.1	<sup>30</sup> -34.0	<sup>30</sup> -40.3	<sup>30</sup> -45.6	<sup>30</sup> -50.0	<sup>30</sup> -59.3	<sup>30</sup> -66.1	<sup>30</sup> -69.8	<sup>26</sup> -71.8	<sup>30</sup> 216	<sup>30</sup> 10610	<sup>30</sup> -71.4	
September	-6.3	-8.7	-10.2	-13.7	-12.7	-15.6	-14.7	-17.7	-20.1	-23.6	-27.7	-31.3	-36.9	<sup>23</sup> -39.9	-47.2	<sup>1</sup> -44.0	<sup>1</sup> -58.7	<sup>1</sup> -68.1	<sup>25</sup> -70.1	<sup>25</sup> -70.2	<sup>25</sup> 235	<sup>25</sup> 10120	<sup>25</sup> -68.1	
October	-2.6	-5.5	-6.3	-9.1	-9.1	-11.9	-11.7	-14.5	-18.0	-21.7	-25.3	-29.5	-34.5	<sup>29</sup> -38.6	-45.8	<sup>4</sup> -41.1	<sup>4</sup> -57.2	<sup>30</sup> -62.8	<sup>30</sup> -61.4	<sup>28</sup> -59.2	<sup>25</sup> 253	<sup>25</sup> 9360	<sup>25</sup> -63.9	
November	-1.0	-3.6	-5.6	-7.6	-8.1	-10.4	-10.5	-13.4	-15.8	-19.8	-22.3	-26.9	-31.2	<sup>29</sup> -36.2	-41.3	<sup>12</sup> -43.7	<sup>12</sup> -54.2	<sup>20</sup> -49.2	<sup>20</sup> -48.5	<sup>20</sup> -47.6	<sup>28</sup> 282	<sup>28</sup> 9020	<sup>28</sup> -56.0	
December	0.1	-4.0	-5.5	-9.3	-8.8	-12.6	-11.6	-15.3	-16.5	-21.1	-22.8	-27.5	-30.8	<sup>8</sup> -35.8	-41.6	<sup>8</sup> -43.6	<sup>8</sup> -51.9	<sup>8</sup> -46.1	<sup>27</sup> -44.5	<sup>27</sup> -42.8	<sup>25</sup> 295	<sup>25</sup> 8760	<sup>25</sup> -54.7	
Total	-21.8	-53.2	-71.7	-110.5	-100.9	-141.2	-129.8	-175.1	-194.0	-249.0	-279.6	-342.7	-386.7	-446.8	-519.2	—	-662.3	-681.4	-686.5	-691.2	3120	115490	-737.0	
Mean	-1.8	-4.4	-6.0	-9.2	-8.4	-11.8	-10.8	-14.6	-16.2	-20.7	-23.3	-28.6	-32.2	-37.2	-43.3	—	-55.2	-56.8	-57.2	-57.6	260	9620	-61.4	

## Upper Air Means Table II for Argentine Islands, 1956.

MONTH	MEAN HEIGHTS ABOVE M.S.L. OF STANDARD PRESSURE LEVELS (metres)										
	900 mb.	850 mb.	800 mb.	700 mb.	600 mb.	500 mb.	400 mb.	300 mb.	200 mb.	150 mb.	100 mb.
January	829	1282	1761	2796	3933	5315	6866	<sup>30</sup> 8830	<sup>30</sup> 11470	<sup>28</sup> 13370	<sup>24</sup> 16050
February	763	1215	1686	2704	3848	5162	6717	<sup>28</sup> 8610	<sup>26</sup> 11270	<sup>23</sup> 13190	<sup>15</sup> 15870
March	745	1200	1664	2691	3849	5171	6785	8600	11280	<sup>30</sup> 13180	<sup>22</sup> 15850
April	811	1265	1739	2759	3915	5231	6789	8690	11290	<sup>29</sup> 13130	<sup>22</sup> 15740
May	847	1299	1773	2797	3949	5230	6813	<sup>30</sup> 8690	<sup>29</sup> 11230	<sup>29</sup> 13040	<sup>27</sup> 15590
June	<sup>29</sup> 740	<sup>29</sup> 1187	<sup>29</sup> 1656	<sup>29</sup> 2666	<sup>29</sup> 3801	<sup>29</sup> 5190	<sup>29</sup> 6618	<sup>29</sup> 8470	<sup>29</sup> 10990	<sup>27</sup> 12710	<sup>18</sup> 15230
July	792	1235	1701	2706	3834	5116	6637	8490	10960	12670	<sup>24</sup> 15020
August	<sup>30</sup> 808	<sup>30</sup> 1254	<sup>30</sup> 1722	<sup>30</sup> 2734	<sup>30</sup> 3875	<sup>30</sup> 5177	<sup>30</sup> 6704	<sup>30</sup> 8560	<sup>30</sup> 11020	<sup>30</sup> 12720	<sup>26</sup> 15110
September	737	1178	1640	2643	3769	5053	6565	8420	10900	12580	<sup>25</sup> 15020
October	708	1153	1624	2634	3770	5070	6588	8460	11010	<sup>30</sup> 12760	<sup>28</sup> 15290
November	714	1163	1635	2653	3800	5119	6662	8570	11190	<sup>29</sup> 13080	<sup>29</sup> 15730
December	777	1220	1691	2704	3850	5158	6697	8610	11260	13190	<sup>27</sup> 15780
Total	9271	14651	20292	32487	46193	61902	80441	103000	133870	155620	186280
Mean	773	1221	1691	2707	3849	5159	6703	8580	11160	12970	15520



## Upper Air Frequency Table II for Argentine Islands, 1956.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations. at 1100 Zone Time, in 3°C ranges :- 4																																														
	850 mb.																				800 mb.																										
	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	3	6	9	12	15	18	21	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	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	to								
-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23								
January									1	9	16	4	1																						4	14	12	1									
February									11	11	7																	9	13	6	1																
March								1	6	11	11	2															2	2	15	8	4																
April								4	7	8	10	1													1	2	6	9	8	3	1																
May									6	11	11	3																3	16	9	3																
June					1		1	2	11	9	5														2		2	9	12	4																	
July					1	3	3	2	10	7	4	1												1	3	2	4	10	7	3	1																
August						1	3	4	8	11	3																																				
September				1	1	3	6	6	6	6	1																1	1	1	2																	
October							2	6	10	9	4																	2	5	10	6	8															
November								2	3	7	11	7																	5	9	8	4	4														
December									3	14	12	2																	4	10	15	2															
Year				1	3	7	17	31	97	115	81	11	1															1	2	1	8	6	35	81	130	70	28	2									

### Upper Air Frequency Table III for Argentine Islands, 1956.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges :- 4																																					
	700 mb.															600 mb.																						
	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	-15	-12	-9	-6	-3	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									
-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	-17	-14	-11	-8	-5	-2	2	5	8	11									
January										1	10	13	6	1														4	7	10	9	1						
February									9	10	10																	6	8	10	5							
March								1	14	12	3		1															2	5	11	9	3	1					
April						1	2	2	12	6	7																	4	5	7	5	8	1					
May									1	4	7	11	8																									
June							2		4	7	12	4																										
July					1	3	1	6	9	4	6	1																										
August								1	3	6	15	3	2																									
September					3	1	1	6	11	6	1	1																										
October							4	3	11	7	5	1																										
November									3	9	7	5	5	1																								
December										2	7	18	2	2																								
Year					4	6	8	30	76	113	75	43	7	2														1	4	7	17	58	90	90	52	31	13	1

# Upper Air Frequency Table IV for Argentine Islands, 1956.

	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges :- 4																																												
	500 mb.																	400 mb.																											
	MONTH	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	0	-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	to				
	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8					
January								1	6	7	6	9	2																1	12	7	8	3												
February						1	1	6	14	6	1																1	5	14	6	3														
March							2	5	9	8	6	1															1	1	13	9	4	3													
April							2	7	7	8	4	1	1														1	4	8	8	6	2	1												
May					1		4	6	11	4	4	1													1	2	1	7	5	11	3		1												
June					1	5	9	6	5	3																6	8	8	3	3	1														
July					3	4	8	10	4	2																7	6	12	4	1	1														
August						2	5	15	5	3																1	9	8	8	4															
September			1	2	3	2	8	10	3	1															1	5	7	12	3	2															
October					1	6	8	5	6	5																5	6	9	6	3	2														
November							4	8	7	6	3	2																5	9	8	6	2													
December							1	9	12	7	1		1															3	14	11	2			1											
Year			1	2	9	20	52	88	89	60	25	14	4												2	26	40	74	88	78	35	15	6												



Upper Air Frequency Table VI for Argentine Islands, 1956.

		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 3°C ranges: - 4																																									
		150 mb.															100 mb.																										
MONTH		-87	-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								
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to							
		-89	-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							
January												1	5	7	11	3	1																										
February													1	7	10	5																											
March												1	6	7	15	1																											
April									2	4	6	2	8	5	2																												
May					1	1		1	2	7	9	7	1																														
June						3	6	4	6	6	2																																
July	1		1	1	4	5	5	10	4																																		
August			1	2	5	7	7	6	1	1																																	
September			1	2	8	5	5	3	1	1	2	1			1																												
October							3	10	6	3				2	3	2	1																										
November								1		1	1	1	3	6	9	5	2																										
December													1	2	11	15	1	1																									
Year	1		3	5	18	21	26	35	22	23	20	13	27	38	60	30	4	1								1	3	12	24	22	18	15	15	14	19	12	17	31	45	27	8	2	2

## Upper Air Frequency Table VII for Argentine Islands, 1956.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations at 1100 Zone Time, in 10% ranges :- 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							7	12	11	1				1		2	5	9	11	3					5	2	4	5	3	9	3			1	3	2	5	2	2	3	9	4		
February					1	3	9	7	8	1					1		5	9	13	1							3	3	8	12	3							5	2	9	10	3		
March					2	2	5	8	13	1					1	5	7	10	8					1		2	6	5	10	6	1			1	1	2	1	5	8	6	7			
April						3	2	10	15				1		1	2	1	1	11	12					1	2		1	4	9	12					1		1	2	5	7	11	1	
May					2	2	4	13	10				1	1	2	4	4	3	8	7	1			2	2	2	2	2	5	5	9	2		1	2	3	1	2	3	3	7	7	2	
June					3	3	2	8	12	1					1	1	3	7	6	11						1	1	2	4	11	10					1			3	7	8	10		
July				1	2	4	10	10	4					2	4	4	2	8	5	6				2	2	4	3	4	5	7	4			1		4	2	2	4	2	2	8	6	
August						3	7	8	12						2	1	6	4	6	11					2		2	3	7	3	13				2			2	5	3	6	12		
September					2	1	9	9	9						1	4	2	3	13	6	1					3	1	3	3	12	7	1				1	1	3	4	5	8	8		
October				1	2	2	10	4	12						1	3	3	7	7	9	1				1	1	3	4	6	6	10						1	2	5	5	9	9		
November						3	10	5	12						1		2	3	11	12	1			1			1	3	2	10	13					2	2		3	2	10	11		
December				1	4	5	11	8	2						2	4	7	5	6	7							7	4	8	6	6							6	7	6	4	8		
Year				3	18	31	86	102	120	4			2	4	16	26	45	66	107	93	4			5	14	15	29	40	60	100	96	4	1	2	13	12	15	28	43	58	92	96	3	

## Upper Air Frequency Table VIII for Argentine Islands, 1956.

MONTH	RELATIVE HUMIDITY AT STANDARD LEVELS: Number of observations at 1100 Zone Time, in 10% ranges:- 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		3	4	3	4	2		6	8	1		1	3	2	8	4	1	3	8	1				4	2	5	2	4	8	6					2		6	7	9	5				
February		1		1	3	1	6	8	8	1				1	2	3	4	4	9	6				1	3	3	3	4	9	4	1	1			1		2	2	1					
March			2	1	3	1	5	2	5	9	3		1	2	1	2	3	1	6	7	8		2		2	2	3	8	5	7	2			2		1		2	3	3	1			
April				2	3	1	2		4	10	7		1		2	5	1	1	4	8	6	1		2	1	3	1	2	10	7	2	1		1			3	1	3	2	3			
May		1	6		1	3	3	2	5	9	1			2	3		6	2	5	5	5	3		1	3	4	4	1	3	9	4	1			1	2	1	1	1	2	2			
June			1	2	2	1	6	4	8	5				3	2	4	4	2	7	7					3	1	2	4	6	10	2				1	2	1	1	1	2	2			
July	1		4	1	2	5	6	4	6	2			2	2	2	3	2	7	9	4				1	2	4	1	6	5	6	1						1				1	1		
August	1	1	1	2	2	1	5	2	11	4		1	1	1	4	1	5	5	4	7	1	2		2	3	6	4	4	7	2						1		1						
September		1		1		5	2	6	9	6			1	1			5	2	9	10	1		1	1	1	1	7	3	6	3														
October				1	2	3	7	7	4	7					4	1	3	6	5	10	2				1	5	5	6	10	2														
November		1		1	6		3	5	7	7			1		1	1	6	6	3	11	1			3	2	2	4	7	7	4						2	1	1	5	1	2			
December				4	2	5	6	3	8	3					4	3	6	2	9	5	2				4	5	4	4	10	4						3	1	2	1	1				
Year	2	10	19	22	26	33	46	56	93	55	1	4	12	16	34	30	40	52	83	80	11	4	10	22	33	35	53	70	89	27	3		3	4	5	18	16	27	17	11				



## Upper Air Frequency Table X for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 900 mb. : Number of observations at 1100 Zone Time 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	9.9	3	2	1										1	2		1			2					1			7
February	7.1	9	2	1										2		3	1		2	2	1	2			1			14
March	3.0	2														1						1						2
April	2.0	2												4					1		1							6
May	4.0	7														1			3			1		1	1			7
June	4.0	1																		1								1
July	7.8	7	7												2	2	1	1		1	1	3	1				2	14
August	13.7	2	4	2												1				3	4							8
September	8.6	6	1	1											1		1	1	3			2						8
October	8.3	6			1											1					1				2	1		7
November	9.4	5	2	1												3					2	1	1		1			8
December	8.4	14	2	3											1	3	2	1	1		4	4	3					19
Year	7.2	64	20	9	1									7	6	15	5	6	10	3	16	17	6	3	4	3		101

Upper Air Frequency Table XI for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED  KNOTS	WINDS at 850 mb. : Number of observations at 1100 Zone Time of :-																							NUMBER OF ASCENTS					
		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		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	9.4	5	1	1											2			1	1		2					1				7
February	8.3	9	5													2	1		4	1	1	4					1			14
March	2.5	2														1											1			2
April	3.8	5	1																1	1	1	2					1			6
May	4.9	6	1													1			3			2					1			7
June	5.0	1																				2					1			7
July	12.1	7	6			1															1									1
August	15.3	2	2	3	1										5	1	1	1			1	3					1	1		14
September	10.6	4	2	1												1					1	6								8
October	11.3	5	1	1												1		1	2	1		2								7
November	9.3	5	2	1												1	1	1				1						2		7
December	6.9	16	2	1												2	1		2		2	2					1			8
Year	8.3	67	23	8	1	1										11	12	6	6	10	4	14	22	5	2	5	3		100	

Upper Air Frequency Table XII for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 800 mb. : Number of observations at 1100 Zone Time of :--																									
	KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS	
		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 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	9.3	5			1																						
February	10.6	6	3	2									1														
March	3.0	2												2		1											
April	6.3	5	1																								
May	7.6	5	2																								
June	7.0	1																									
July	15.0	3	7	3		1																					
August	18.5	2	3	1	2									4	2		2			1	3	2					
September	12.3	4	2		1										1						6	1					
October	10.3	4	2	1												3					1	1		1			
November	8.9	5	2	1										1		2					1	1		1			
December	9.4	14	2	3										1	1							3		2			
Year	9.9	56	24	11	4	1								1	8	9	12	6	5	8	3	24	10	4	4	3	
																										97	

Upper Air Frequency Table XIII for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 700 <sub>mb.</sub> : Number of observations at 1100 Zone Time of :—																								NUMBER OF ASCENTS					
	KNOTS	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		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	15.2	2	2	1		1													1	1	1		1	1				6			
February	13.9	4	4	1	1														1	1		3	1		1			10			
March	4.5	2																	1					1				2			
April	8.8	4	2																1		1		1	3				6			
May	11.6	3	3	1															1	1	1		1					7			
June	6.0	1																			1							1			
July	16.2	4	7	1	1	1													1	2		1	2	1	1	2	4	14			
August	19.6		3	3	1																1	5				1		7			
September	22.1	1	3	2		1													2	1		1	1		1		1	7			
October	19.8	1	2	1	2															2			2			2		6			
November	15.3	2	3	1	1														1	1			4			1		7			
December	10.5	11	4	2															1		1	4	1	3	4	1	1	17			
Year	13.6	35	33	13	6	3													5	8	4	10	3	7	9	14	15	4	4	7	90

## Upper Air Frequency Table XIV for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED	WINDS at 600 mb. : Number of observations at 1100 Zone Time 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	19.2	1	3	1		1								1				1	1	1										6
February	15.0	1	7	1		1										1		2	1	1	3	1						1	1	10
March	11.3	1	1																								1	1		2
April	10.7	2	4														1			2	2						1			6
May	11.6	1	4											1		2					1							1		5
June	8.0	1																1												1
July	13.5	2	5	2										1	1	1			1						3	1	2			10
August	23.1	1	2	2	2														1	5								1		7
September	28.1	1	1	3		2											2		1							1				7
October	19.4	1	1	3										1		1	1					2								5
November	24.6		4	1	1	1										1					1	2				2	1			7
December	13.1	8	4	3	1											1	2	1	2	4	2	1	1			1	1			16
Year	16.5	20	36	16	4	5								1	4	2	3	6	6	5	7	14	13	6	7	8				82

Upper Air Frequency Table XV for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 500 mb. : Number of observations at 1100 Zone Time 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	22.5		4		1	1										1				1	2	1			1				6
February	22.9		4	2	1	1												1			3			3		1			8
March	14.5	1		1																			1	1					2
April	13.5	2	2	2																1	1	1	1	1	1	1			6
May	14.6	1	3	1												1						1					1		5
June	9.0	1															1												1
July	17.0	2	3	5												1		1	1			1	1	1	2	1	1	10	
August	25.0	1	1	1	3											1					1	4							6
September	29.8	1		3	1		1											1	1	1			1		1				6
October	25.0	1		3	1													1					2				1		5
November	27.1		1	4		2													1			1	2		2	1			7
December	17.5	6	2	4	3												1				2	6	3	1	1				15
Year	19.9	16	20	26	10	4	1									4	1	3	3	6	3	11	15	14	6	7	4	77	

## Upper Air Frequency Table XVI for Argentine Islands, 1956.

WINDS at 400 mb. : Number of observations at 1100 Zone Time of :-

MONTH	MEAN WIND SPEED	SPEEDS (knots)												CALMS AND LIGHT VARI- ABLE	DIRECTIONS (degrees)											NUMBER OF ASCENTS			
		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	27.0	1	1		2	1									1			1	1			2	1	1	1	5			
February	28.5		3	2	1	2												2	1	2	1	1				8			
March	19.5		1	1													1	1	2			2				2			
April	21.0	1	2	1	2										1			2		2						5			
May	22.4	2		1	1	1																				1			
June	12.0		1																1	1	1	2	1	1		10			
July	23.0	1	3	3	2	1									1					4						6			
August	35.0	1		2		2	1					1							1		1	1	1			6			
September	28.7	1		2	2	1													1		1	1				6			
October	25.0		3		1	1													1	1	1			1		5			
November	33.3		1	2	1	2															2	1		1		6			
December	20.3	5	2	3	2	1											1	1	4	5	1	1				13			
Year	24.6	12	17	17	14	12	1										5	3	3	2	3	2	8	15	13	11	4	4	73

## Upper Air Frequency Table XVII for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED  KNOTS	WINDS at 300 mb. : Number of observations at 1100 Zone Time 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 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	100 to 109	120 to 129	140 to 149		160 to 169	>170	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
January	41.8		1		1	2	1									1					1	1			1			1	5
February	39.3			3	1	1	1									1					1	1			2	1			6
March	28.5			1	1																				1		1		2
April	25.5	1	2	2			1															1	1	2					6
May	25.6	1	2	1			1									1			1				2				1		5
June	18.0		1																				1						1
July	30.1	1	2	1	4	2												2				1	2	1	1	2	1		10
August	30.7			3		1										1					1		2						4
September	38.2	1			2	1	1												1				1				1		5
October	34.0			3	1		1									1							1	2			1		5
November	39.4			3		1	1									1								2	1		1		5
December	23.9	2	2	4	3	1																3		6	1	1	1		12
Year	31.3	6	10	21	13	9	7															6	12	6	16	7	5	4	66

## Upper Air Frequency Table XVIII for Argentine Islands, 1956.

WINDS at 200 mb. : Number of observations at 1100 Zone Time of :-

MONTH	MEAN WIND SPEED	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			
	KNOTS																													
January	22.4	1	3			1									1			1					1	1					5	
February	25.8	1	2	2			1											1									2		2	
March	23.5		1		1														1				2	1	2				6	
April	22.3	1	3	1		1										1			1				1		1				4	
May	19.3		3		1																			1					1	
June	42.0					1																		1			4	2	1	10
July	28.0	3	1	1	2	2	1																						3	
August	33.3				1	1	1																						3	
September	44.0				1		1	1																					4	
October	43.3		1			1	1	1																				1	4	
November	46.4				1	1	1	2																					5	
December	46.4	1	5	3	1	1												1					2	3	2	2	2	1	11	
Year	30.9	7	19	10	8	10	6										1	1	2	1	1	4	3	10	19	11	6	1	60	

Upper Air Frequency Table XIX for Argentine Islands, 1956.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 150 mb. : Number of observations at 1100 Zone Time 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	14.0	2	2			1										1			1	1	1				1				5
February	22.3	1	2	1	1	1													1						5				6
March	33.0				1																			1		3			1
April	21.3	1	2			1																			1				4
May	31.0			1	1																				1		1		2
June	45.0					1																			1				1
July	34.6	1	1	2	2	4																			6	2	2		10
August	52.0				1	1	1																		1	2			3
September	50.5				1		1																		1	1			2
October	46.0			1		3																			1	2		1	4
November	47.0			1		3	1																		2	1	2		5
December	17.5	3	4	3	1														1		1				5	2	2		11
Year	34.5	8	11	9	8	15	3									1			1	2	2			6	25	10	7		54

## Upper Air Frequency Table XX for Argentine Islands, 1956.

WINDS at 100 mb. : Number of observations at 1100 Zone Time of :—

MONTH	MEAN WIND SPEED KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS										
		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										
January	13.4	3	1		1												3	1																5	
February	16.5	1		1																				1											1
March	33.0				1																														4
April	20.5	1	2			1																													2
May	39.5				1	1																													1
June	48.0					1																													9
July	41.3		2	2		2		3																											2
August	57.5					2																													1
September	24.0				1																														3
October	29.0					1	2																												5
November	47.4					1	4																												10
December	15.3	2	5	3															1		3	2	1	2	1										
Year	32.1	7	10	7	5	13	3											3	2		6	14	12	7	1								45		



# Upper Air Frequency Table XXII for Argentine Islands, 1956.

HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 15 metre ranges :- 23

850 mb. Mean height 1,221 metres. I.C.A.N. height 1,457 metres.

MONTH	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	1500	1515	1530				
	to 884	to 899	to 914	to 929	to 944	to 959	to 974	to 989	to 1004	to 1019	to 1034	to 1049	to 1064	to 1079	to 1094	to 1109	to 1124	to 1139	to 1154	to 1169	to 1184	to 1199	to 1214	to 1229	to 1244	to 1259	to 1274	to 1289	to 1304	to 1319	to 1334	to 1349	to 1364	to 1379	to 1394	to 1409	to 1424	to 1439	to 1454	to 1469	to 1484	to 1499	to 1514	to 1529	to 1544				
January																	1		2				2	3	1	3	1		1	2	1	4	2	4	1	1	2												
February											1	1			1		3	1	4	1	2	1	2	3	2	1	1	2	2	1			1	1															
March														1			1				2	1	2	1	2	5	1	1	1		3		2	1	2	2	2												
April														1							3			2	1	1	1	2	3		4		3	1	3	2			1	2	1								
May													1	1	1	1	1	2		4	3	4	1	4	1	1	1	2						1															
June												1				2	1	1			2		2	1		2		1	1		1	2	1	2	2	2	3	1											
July			1		1		1						1		1	1		3		1		1	2		3	3	1	4	1	1		1	1		1	2	1	1			1								
August																1	1			3		1	4	3	3	1	1		1	3			1																
September				1	1					1			1	2		1	1				1	2	4	2	4	1	1		1		2	2																	
October																	1	1	4	2	3	2	1	3	1	2	1	2	1																				
November								1			3	1						2	1	3	3		3	3	1	1	1	2	1	1	3			3															
December													1	1		1		2	1	3	3		3	3	1	1	1	2	1	1	3			3															
Total			1	1	2		1	1	1	3	4	4	6	7	9	6	9	12	14	28	17	23	24	25	26	14	11	23	10	16	9	9	15	11	8	7	2	3	1										

## Upper Air Frequency Table XXIII for Argentine Islands, 1956.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 15 metre ranges :- 22																																																	
	800 mb. Mean height 1,691 metres. I.C.A.N. height 1,949 metres.																																																	
	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				2	1	3	2	1	2	1		2	1	1	4	2	4	1	2	1										
February																						2	2	1	4	4	4	4	3	1	3		1																	
March															1	1		1			2	1	5		1	2	2	4	1	1	2	1	2	1	1			1	1											
April																	1					1		2	1	2	1	2	3	3		1	1	2	1	1	2			2	3	1								
May																	1					1	2				2	2	2		2	1	1	4			3	3	3				1	3						
June																1	1		2		2	1	3	2	5	2	3	2	1	1	2																			
July					1			1					1		1		2	1				1	2	1	1	1	1	1		1		2		2	1	4	2	1	2	2										
August																	1	1		2		3			2		1	4	2	1	2	3		1			2	2	1							1				
September							1				1			1	1		1	1			2		2	2	1	3	4	3	1	1	1		3		1															
October															3	1	1	2	1	4	1	2	2	3	2	3		1	1			3	1																	
November													1	2	2						2	3	2	3	4		1	3		3	2	1																		
December															1	1			2	1	1	3	2	1	1	4	1	2	1	3	1	1	2				1	2												
<b>Total</b>					1		1	1			1	1	3	3	6	4	9	7	3	10	11	18	19	19	25	20	28	26	18	11	18	14	13	10	8	12	17	9	7	2	5	3					1			

# Upper Air Frequency Table XXIV for Argentine Islands, 1956.

HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 30 metre ranges :—

700 mb. Mean height 2,707 metres. I.C.A.N. height 3,012 metres.

MONTH

MONTH	210 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	3	3	1	4	6	3	2	1																					
February																	1		2	4	3	2	3	6	1	4	2	2	1																								
March																			1		1	1			1	4	3	3	5	6	1	3	1																				
April																		1				2	1		2	4	2	2	6	5	2	3	1																				
May																	1		2	3	3	6	6	3	3	1		1																									
June														1	1		1	2	1		1	3	3		2		1	7	2	2	2																						
July													1	1					1	4	2	2	2	2	3	5	3	1	3	2		1		1																			
August																			1	1	1	2	1	11	2	2	2	2																									
September																		3	2	5	3	4	4	4	1	1	2	2																									
October																		3	2		3	4	6	1	2	6	3																										
November																		1	1	2	3	4	3	5	4	2	3	1	2																								
December																																																					
Year													3	1		2	2	4	8	7	14	20	28	35	43	36	40	27	18	29	24	8	11	3	1																		



# Upper Air Frequency Table XXVI for Argentine Islands, 1956.

HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 30 metre ranges :— 22

500 mb. Mean height 5,159 metres. I.C.A.N. height 5,574 metres.

MONTH

	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					
	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																											2	4		4	4	1	2	4	4			1	5													
February																							1	3	4	1	1	4	6	1	3		4	1		2																
March																					1																															
April																																																				
May																			1			1	3	3	4	2	5	3	3	1	1		1	1																		
June											1		1			1	2				2		1		3	3	1		1	1	2	3	3	2	1	2	1															
July																						1	1	2	4	1	2	3	1	1	3	6			3	1						1										
August																																																				
September									1		1					3						2		3	1	2	6	4	2	4			1																			
October																				2	1	2	2	4	4	2	2	2	3	1	3	1		1	1																	
November																																																				
December																																																				
Year										1	1	1	1			4		2	4	5	4		8	11	19	30	24	31	33	32	24	26	28	20	14	11	14	6	3	7												



# Upper Air Frequency Table XXVIII for Argentine Islands, 1956.

HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 30 metre ranges :—<sup>22</sup>

300 mb. Mean height 8,580 metres. I.C.A.N. height 9,164 metres.

MONTH

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	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
	785	788	791	794	797	800	803	806	809	812	815	818	821	824	827	830	833	836	839	842	845	848	851	854	857	860	863	866	869	872	875	878	881	884	887	890	893	896	899	902	905	908	911	914	917				
January																	1				1			4	1	5	3	5	2	3	1			5	2	2	2	1	1	1	3	1							
February									1					1						1	1	1	3	2	3	3	2	3	2	1		2		2	1	1	1												
March																			1			3	1	2		3	1	1	4	1	2	1	3		3		1	1			1	1							
April																			2	2			1				1	3	1			9	3	1	3	1	2	1											
May																2	3	3	1	3	5		2		2	4		2		1					1														
June																				2	1	2	2	1	2		3	1	2		3	1	1	2		1													
July					1		1		1		1		1	1	1					3	1	2	4	1	2	1	2	2	3	2	2	2		1	1					1									
August																				1	1	2	2	5	4	1	4	2		1		1																	
September					2					2	1									1	2	1	3	3	2		1	1	4	1	1					1		1											
October													1	2	1	1	2	2		1	2	1	3	3	2		1	1	4	1	1					1		1											
November															1		2				1		1	2	4	2	5		1	2	1		3	1	1	1													
December																				1		1	1	3	7	2	1	5	1	4		2		2								1							
Year						3		1	1	3	1	1	1	3	5	2	6	8	11	10	11	19	18	20	23	17	30	23	24	19	13	19	11	11	13	10	5	6	2	1	3	4	1						

## Upper Air Frequency Table XXIX for Argentine Islands, 1956.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 30 metre ranges																																																	
	200 mb. Mean height 11,160 metres. I.C.A.N. height 11,784 metres.																																																	
	1038	1041	1044	1047	1050	1053	1056	1059	1062	1065	1068	1071	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					
January																									1	3	1	4	5	7	1	3	3																	
February																				1							2	4	1	3	5	5	2			1	2	2				3								
March																				1					1		3	2	1	3	4	3	4						1	1										
April																1	2								1	1	2	1		4	3	6	2	1					1											
May														1	2	2	2	1	4	3	2	3	2	2																										
June													1	2	2	2	1	4	3	2	3	2	2																											
July					1	2		1		1	1	1				2	2	2		2	1	1	2	1	4	1	1	1	1	1	1	1	1																	
August												1	1	1	3	3	3	3	3	3	3	3	3	1	3																									
September			1	1						2	1					2	2	3	1	3	5	3	2		2			1																						
October								1			3	1		1	2	1	1	1		6	1		3	1	2	4							1		1	1														
November													1	1						2				1		3	2	4	2	4	2																			
December																		1				1	1	1	1		1	4	2	5	2	6																		
Year			1	1	1	2	1	2	2	5	2	2	3	6	12	9	10	6	19	15	9	15	9	14	19	18	16	15	25	21	24	10	12	12	13	9	6	1	4	4	1	2								





Means and Extremes Table I for Loubet Coast, Grahamland, 1956.

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																				
February																				
March																				
April																				
May																				
June																				
July	993.9	1017.6	29th, 30th	952.9	3rd	18.8		18.0	18.4	18.2	18.5	18.5	19.1	18.5	23.2	12.3	35	20th, 27th	-2	7th
August	993.4	<u>1024.4</u>	<u>22nd</u>	958.2	31st	20.6		20.2	21.3	22.4	21.4	21.3	20.9	21.2	26.6	13.6	35	26th	-7	15th
September	986.3	1010.9	12th	<u>941.8</u>	<u>13th</u>	15.1		15.4	16.0	17.0	16.4	15.4	15.0	15.8	21.8	8.2	<u>39</u>	<u>6th</u>	<u>-13</u>	<u>3rd</u>
October	980.6	1005.2	21st	957.7	2nd	22.3		22.6	23.7	24.5	25.1	24.0	22.6	23.5	28.4	16.8	37	21st	-5	5th
November	981.2	999.4	4th	950.1	8th	25.2		26.7	29.1	27.6	28.7	27.4	25.8	27.2	31.8	22.4	<u>39</u>	<u>15th</u>	6	12th
December	991.5	1008.7	29th	967.4	1st	26.6	27.5	28.9	31.5	32.1	31.0	29.7	28.2	29.4	34.3	23.6	<u>39</u>	<u>28th</u>	10	1st
Total	5326.9	6066.2	—	5728.1	—	128.6	27.5	131.8	140.0	141.8	141.1	136.3	131.6	135.6	166.1	96.9	224	—	-11	—
Mean	987.8	1011.0	—	954.7	—	21.4	27.5	22.0	23.3	23.6	23.5	22.7	21.9	22.6	27.7	16.1	37.3	—	-1.8	—

Means and Extremes Table II for Loubet Coast, Grahamland, 1956.

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																									
February																									
March																									
April																									
May																									
June																									
July	78		80	78	80	79	80	78	79	5.3		4.8	6.3	6.5	6.3	6.6	6.0	6.0	0.6		2.9				
August	90		90	91	91	91	90	92	91	7.0		7.1	7.5	7.6	7.5	7.3	7.0	7.3	0.3		7.3				
September	82		81	82	80	80	82	83	81	6.6		7.0	6.0	6.2	6.6	6.7	6.6	6.5	2.7		11.1				
October	91		88	88	86	89	91	92	89	6.6		6.6	6.7	7.1	7.3	7.3	6.3	6.8	2.2		14.9				
November	91		91	90	90	91	91	92	91	7.4		6.9	6.9	6.6	6.3	6.8	7.7	6.9	3.4		19.3				
December	83	82	84	81	81	85	85	84	83	5.5	5.8	5.7	4.9	4.9	4.9	5.6	5.7	5.4	8.5		23.3				
Total	515	82	514	510	508	515	519	521	514	38.4	5.8	38.1	38.3	38.9	38.9	40.3	39.3	38.9	17.7		78.8				
Mean	86	82	86	85	85	86	87	87	86	6.4	5.8	6.3	6.4	6.5	6.5	6.7	6.5	6.5	2.9		13.1				

# Frequency Table I for Loubet Coast, Grahamland, 1956.

M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. <sup>1</sup>																					
MONTH	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																					
February																					
March																					
April																					
May																					
June																					
• July			4	1	7	15	11	15	14	24	10	20	17	22	48	9					
• August				2	6	10	11	18	13	23	24	48	26	4	18	4	10				
• September	2	1	6	12	6	6	8	7	27	34	33	30	21	13	4						
• October				1	12	26	26	38	38	25	37	9	3	2							
• November			3	9	6	16	22	22	45	40	35	12									
December						3	6	18	45	41	37	33	42	23							
Year	2	1	13	25	37	76	84	118	182	187	176	152	109	64	70	13	10				

• Only 7 observations daily July to November, inclusive.



# Frequency Table III for Loubet Coast, Grahamland, 1956.

RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 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																				
February																				
March																				
April																				
May																				
June								1	2	8	19	27	21	26	22	36	26	22	2	
*July								1			2	4	3	9	14	53	49	68	14	
*August							1	1		3	12	8	27	29	42	33	28	23	1	
*September									1	1	1	2	13	13	21	42	49	57	15	
*October												3	11	12	21	23	53	65	22	
*November										1	5	12	18	48	52	46	45	20	1	
December																				
Totals							1	3	3	13	39	56	93	137	172	233	250	255	55	
Mean							—	1	1	2	7	9	15	23	29	39	42	43	9	

\* Incomplete observations July to November, inclusive.



Frequency Table V for Loubet Coast, Grahamland, 1956.

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>	<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 = 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																									
February																									
March																									
April																									
May																									
June																									
July							18	7	1	18	5	1		15	2				20	3		9		1	4
August			1		Not recorded	Not recorded	20	12	2	22	14	8		26					17		4	12		4	2
September		1	5		Not recorded	Not recorded	18	9	2	18	2			21					16		1	8			3
October			1		Not recorded	Not recorded	26	14	5	18	6	1		23	1				17	2	1	11			3
November					Not recorded	Not recorded	12	7	1	25	7			20	1				13	1	2	6		1	3
December					Not recorded	Not recorded	10	2		12	1			13	2						1				2
Total	0	1	7	0			104	51	11	113	35	10	0	118	6				83	6	9	46	0	6	14
Mean	—	—	1	—			17	9	2	19	6	2	—	20	1				14	1	1	8	—	1	2

Frequency Table VI for Loubet Coast, Grahamland, 1956.

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																			
February																			
March																			
April																			
May																			
June																			
*July	14.6	16	35	73	72	16	58	8	7	5	8	41	40		4	4	6	12	
*August	15.6	31	41	47	61	34	83	21	6	3	1	33	10	3	1	3	5	14	
*September	14.5	19	40	52	61	38	41	12	8	2	4	70	24	2	4		1	4	
*October	20.4	32	60	66	38	21	86	12	3	3	1	52	17	1	1	3	5	12	
*November	14.7	11	45	72	62	20	76	10	1		2	49	29	1	2	3	6	11	
December	10.7	4	29	74	106	35	19	5	3	3	7	102	53	1	2	3	4	11	
Total	90.5	113	250	384	403	164	363	68	28	16	23	350	173	8	14	16	27	64	
Mean	15.1	19	42	64	67	27	61	11	5	3	4	58	29	1	2	3	5	11	

\* Incomplete observations July to November, inclusive.

# Frequency Tables XI to XIV for Loubet Coast, Grahamland, 1956.

## 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													
4													
5													
6													
7													
≥ 8													
Totals													

CALMS —

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													
3													
4													
5													
6													
7													
≥ 8													
Totals													

CALMS —

\*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	4	3	4	2	3		1				19
2	3	1	1		1	2	6						15
3	5	1	1	2		16	9						38
4	9	1	1		3	17	10		1	2	3	4	51
5	9	1				4	4		1	1			22
6	14					1	3		1			4	23
7	7	1				1	3						12
≥ 8	10	3				1	2						16
Totals	58	8	7	5	8	44	40		4	4	6	12	196

\* Incomplete observations. CALMS — 16

\*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	4	7	4	1		3	3						26
2	2	1			1	6	3	2	1	1	1	1	19
3	3		1			7	3				2	3	19
4	15	1				8		1				6	31
5	9	1				3	1					2	16
6	16	2				2						1	21
7	16	1				2						1	20
≥ 8	18	8	1	2		2						1	31
Totals	83	21	6	3	1	33	10	3	1	3	5	14	183

CALMS — 34

# Frequency Tables XV to XVIII for Loubet Coast, Grahamland, 1956.

## 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	3	1	3	1	2	3	3		1		1	2	20
2	1	3	1			3	5	1					14
3	1		3			15	6	1				1	27
4	8	2	1	1	2	13	5		1				33
5	8	1				8	1		1				19
6	8					14	1						23
7	6	1				7	1		1			1	17
≥ 8	6	4				7	2						19
Totals	41	12	8	2	4	70	24	2	4		1	4	172

CALMS - 38

\* 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	1									3
2			1			1	3	1		1	3	1	11
3	7			2		7	6			1	1		24
4	14	3			1	4	5						29
5	23	1				5	1		1	1	1	4	37
6	17	1				4						3	25
7	19	1				11	2					2	35
≥ 8	6	6				20							32
Totals	86	12	3	3	1	52	17	1	1	3	5	12	196

CALMS - 21

\* 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	3		1			3	3						10
2	5	2				6	2	1	1	2	2		21
3	7	3			1	11	7					2	31
4	14	2			1	18	9				2	2	48
5	15					3	5					1	24
6	15	2				5	2				2	4	30
7	10					2			1	1		1	15
≥ 8	7	1				1	1					1	11
Totals	76	10	1		2	49	29	1	2	3	6	11	190

\* Incomplete observations. CALMS - 20

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	2		2	3	2	9	5	1		2	1	1	28
2	3	2			3	9	7		2	1	1	3	31
3	3	2	1			23	11				1	6	47
4	4				1	23	12				1	1	42
5	3					22	7						32
6	2				1	10	9						22
7	2					3	2						7
≥ 8		1				3							4
Totals	19	5	3	3	7	102	53	1	2	3	4	11	213

CALMS - 35

Frequency Table XIX for Loubet Coast, Grahamland, 1956.

• WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>

BEAUFORT FORCE	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	13	9	16	9	8	20	17	1	2	4	4	3	106
2	14	9	3		5	27	26	5	4	5	7	6	111
3	26	5	6	4	1	79	42	1		2	6	14	186
4	64	9	2	1	8	83	41	1	2	2	6	15	234
5	67	4				45	19		3	2	2	8	150
6	72	5			1	36	15		1		2	12	144
7	60	4				26	8		2	1		5	106
=> 8	47	23	1	2		34	5					1	113
Totals	363	68	28	16	23	350	173	8	14	16	27	64	1150

CALMS 164.

\* Incomplete observations July to November, inclusive.

Means and Extremes Table I for Horseshoe Island, Grahamland, 1956.

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			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	997.3	1014.2	2nd	976.0	26th	33.7	34.2	34.9	36.3	36.1	35.8	35.2	34.1	35.0	38.2	32.3	43	1st, 20th	28	24th
February	988.3	999.2	21st	971.6	9th	30.3	30.0	30.8	32.5	33.4	33.7	32.1	30.8	31.7	35.4	28.2	42	8th	20	18th
March	988.1	1011.8	24th	963.2	30th	27.8	27.5	27.7	29.0	29.8	29.2	28.0	27.5	28.3	32.5	24.5	39	1st	15	11th, 14th
April	993.5	1014.5	26th	964.7	23rd	29.3	29.5	29.3	29.3	29.9	28.9	29.3	29.3	29.3	33.1	25.5	44	14th	13	5th
May	998.6	<u>1021.7</u>	<u>8th</u>	972.5	23rd	29.0	29.1	29.0	28.9	28.8	29.1	29.1	29.2	29.0	32.5	24.9	42	18th	14	31st
June	983.7	1015.0	30th	959.4	5th	25.2	25.0	24.6	24.0	24.2	23.8	23.2	23.5	24.2	28.5	19.0	37	3rd, 9th	-2	30th
July	993.1	1016.7	30th	955.2	3rd	14.7	14.2	14.5	14.5	15.5	15.5	15.9	15.5	15.0	21.2	6.7	38	21st	-21	<u>8th, 9th</u>
August	991.8	<u>1021.7</u>	<u>22nd</u>	953.9	31st	21.2	21.7	21.5	22.6	22.8	22.6	21.9	21.7	22.0	27.8	13.2	38	5th, 26th	-8	2nd
September	986.0	1008.8	11th	<u>940.7</u>	<u>13th</u>	17.4	16.7	17.0	19.1	19.5	18.7	17.6	17.5	17.9	23.8	11.9	38	6th	-7	20th
October	979.8	1000.2	21st	958.5	24th	23.3	23.6	24.2	25.8	26.9	26.5	25.3	24.6	25.0	30.1	18.3	39	24th	5	6th
November	980.6	998.2	4th	947.2	8th	27.8	28.1	28.9	30.1	30.5	29.8	28.2	27.9	28.9	33.4	23.9	40	14th, 15th	12	12th
December	991.9	1009.1	29th	969.4	1st	29.5	30.1	31.8	33.2	33.5	33.2	32.1	30.5	31.7	35.5	27.6	43	30th	18	1st
Total	11872.7	12131.1	—	11532.3	—	309.2	309.7	314.2	325.3	330.9	326.8	317.9	312.1	318.0	372.0	256.0	483	—	87	—
Mean	989.4	1010.9	—	961.0	—	25.8	25.8	26.2	27.1	27.6	27.2	26.5	26.0	26.5	31.0	21.3	40.3	—	7.3	—

Means and Extremes Table II for Horseshoe Island, Grahamland, 1956.

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	76	75	74	71	72	73	74	75	74	6.8	6.7	6.2	6.3	6.3	6.3	6.7	6.8	6.5	4.6		22.7			
February	80	79	77	73	73	69	75	79	76	6.3	6.3	5.9	6.1	6.0	5.7	5.8	6.1	6.0	4.1		17.5			
March	76	77	76	75	71	74	75	75	75	6.0	6.5	6.9	6.5	6.5	6.9	6.3	5.3	6.4	2.3		13.5			
April	77	78	77	78	78	80	75	77	77	6.4	6.5	7.0	6.8	6.6	6.8	6.0	6.0	6.5	0.8		9.6			
May	71	71	70	69	72	71	71	71	71	5.2	5.3	5.4	6.1	6.4	6.2	5.3	4.6	5.6	0.2	Not recorded	5.3			
June	74	77	77	78	77	76	78	76	77	7.0	6.8	6.4	7.3	7.5	7.1	6.3	6.0	6.8	0.0	Not recorded	0.8			
July	76	75	72	75	74	77	75	77	75	4.1	4.1	4.8	6.0	5.9	5.8	5.0	4.8	5.1	0.0	Not recorded	2.9			
August	82	81	81	82	82	80	79	78	81	6.5	6.5	6.9	7.1	7.1	7.3	6.3	6.1	6.7	0.3	Not recorded	7.7			
September	75	75	75	71	72	77	73	73	74	6.4	6.2	6.9	6.8	7.1	7.1	6.1	6.1	6.6	1.9	Not recorded	11.8			
October	78	77	76	75	73	73	77	77	76	5.5	6.6	6.7	6.8	7.1	7.2	6.7	5.9	6.6	2.6	Not recorded	15.8			
November	76	75	74	72	72	73	79	76	75	7.2	6.9	6.8	6.6	7.1	7.4	7.3	7.0	7.0	3.5	Not recorded	20.8			
December	66	65	63	61	60	63	63	66	63	5.1	5.4	5.1	5.5	5.3	5.5	5.3	5.5	5.3	8.3	Not recorded	24.0			
Total	907	905	892	880	876	886	894	900	894	72.5	73.8	75.0	77.9	78.9	79.3	78.1	70.2	75.1	28.6		152.4			
Mean	76	75	74	73	73	74	75	75	75	6.0	6.1	6.3	6.5	6.6	6.6	6.1	5.9	6.3	2.4		12.7			

Frequency Table I for Horseshoe Island, Grahamland, 1956.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in fmb. ranges. <sup>1</sup>																				
	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								14	21	45	37	20	14	71	26						
February								7	8	46	80	64	27								
March						5	6	4	31	65	38	47	14	20	10	8					
April						1	1	9	5	19	33	77	46	25	16	8					
May								6	11	30	29	31	23	27	24	45	15	7			
June					1	13	13	22	37	36	55	39	9	8	5	1	1				
July					5	6	22	14	17	20	22	13	19	22	37	42	9				
August				2	3	7	13	10	18	16	25	39	54	19	9	18	8	7			
September		2	3	4	12	11	10	8	9	34	41	31	34	25	16						
October					1	16	36	18	45	50	45	25	10	2							
November			5	4	5	3	23	27	26	54	45	36	12								
December							3	3	17	39	51	35	35	42	23						
Year		2	8	10	27	62	127	128	238	430	509	474	303	204	211	148	33	14			



Frequency Table III for Horseshoe Island, Grahamland, 1956.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— $\bar{h}$																		
	<	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									13	32	19	13	34	62	28	20	19	8	
February								3	5	17	33	20	36	20	32	27	16	23	
March							1	3	12	21	40	24	23	27	25	12	31	29	
April									2	7	17	29	45	42	34	26	24	14	
May				3	5	4	6	7	6	14	23	25	54	39	19	24	10	9	
June								2	10	18	20	26	31	32	25	27	29	18	2
July							1	1	7	15	22	22	46	36	37	37	20	4	
August								1	1	1	12	15	28	54	47	34	37	16	2
September						1	2	5	10	16	26	33	42	17	28	23	32	5	
October							2	5	9	23	20	14	31	30	46	30	29	9	
November							1	1	19	11	30	34	22	28	25	26	33	10	
December						2	7	23	53	45	20	10	21	22	23	13	5	3	1
Totals				3	5	7	20	51	147	220	282	265	413	409	369	299	285	148	5
Mean				—	—	1	2	4	12	18	23	22	34	34	31	25	24	12	—

# Frequency Table IV for Horseshoe Island, Grahamland, 1956.

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				2	2	1	6	20	22	195	45	50	43	33	77			1	16	(1) 69	(33) 66	(13) 51	33	11					11	(1) 12	(26) 29	(8) 9	28	1	1
February				1	4	4	5	23	17	178	54	39	34	42	63			1	9	(1) 47	(27) 60	(17) 61	23	15				4	(1) 14	(20) 22	(15) 7	14	1	16	
March				1	10	11	27	22	25	152	62	37	28	30	90	1	1		14	(7) 69	(17) 72	(17) 35	24	1			11	(6) 39	(16) 39	(16) 15	8	3			
April		1		3	4	17	30	31	41	113	30	31	38	54	85	2	2		7	(2) 35	(7) 92	(12) 74	12	14	2			5	(2) 19	(7) 50	(10) 29	2	7	4	
May				1	3	5	11	26	32	170	77	55	42	38	34	2	2		2	(5) 48	(13) 112	(13) 41	17	2			2	(3) 19	(6) 23	(6) 16	5	19			
June		1	2	5	5	31	26	31	31	108	31	29	35	42	87	16	16		9	(2) 29	(9) 88	(20) 66	19	9	16		1	5	(2) 12	(6) 59	(11) 20	6	1	3	
July		2	1	11	3	22	35	28	5	141	88	43	22	25	62	8	8	1	8	(4) 66	(12) 56	(12) 29	28	8			6	(4) 10	(9) 6	(9) 7	3	31			
August		7	1	17	5	14	29	39	29	107	21	37	30	47	92	21	21		20	(1) 22	(13) 92	(27) 70	8	5	21		2	13	(11) 51	(17) 24	4	8			
September	2	4	1	9	7	12	9	17	16	163	60	53	22	28	58	19	19	3	3	(2) 15	(1) 37	(13) 87	41	16	19	2	3	12	(2) 8	(10) 19	(10) 19	3	4	3	
October		2		2		12	12	44	26	150	35	38	41	49	81	4	4		6	(6) 91	(19) 74	(19) 11	17	4			6	(5) 23	(16) 37	(16) 19	2	7			
November		1		10	11	10	13	21	22	152	21	45	42	40	78	14	14	1	1	(3) 38	(12) 73	(24) 69	15	5	14			6	(3) 12	(17) 31	(14) 15	10	1	1	
December							2	4	11	231	103	60	23	32	30				6	(4) 25	(22) 33	(22) 81	54	28			1	(3) 11	(16) 10	(16) 9	21		21		
Total	2	18	5	62	54	139	205	306	277	1860	627	517	400	460	837	87	87	5	11	(12) 374	(128) 815	(200) 873	321	189	87	3	7	93	(11) 157	(102) 410	(148) 219	126	33	117	
Mean	—	1	—	5	5	12	17	25	23	155	52	43	33	38	70	7	7	—	1	(1) 31	(11) 68	(17) 73	27	16	7	—	1	8	(1) 13	(9) 34	(12) 18	11	3	10	

Frequency Table V for Horseshoe Island, Grahamland, 1956.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			<sup>6</sup>	<sup>8</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	14			1				8	2	1	8	10			21	1			1	2		2			1
February	4			1				10	1	5	13	7	2		18	2			1	3		2			3
March								15	6	1	19	6	2		21				3	2	1				3
April	5			3				11	2	7	21	5			18				8	3		3			2
May	1			1	Not recorded	Not recorded	Not recorded	16	2	3	11	3			13	2	Not recorded	Not recorded	3			1			2
June								18	3		19	4			21				19	1		6			
July		4	5					9			18				15	3			17	3	3	9			2
August			1					12	1	3	26	3			19	1	Not recorded	Not recorded	16	2		11			2
September	1	1	1					11	4		12	1			18				15	2	3	6			
October								17	2		26	5			22				16	4	1	3			1
November	1							11	3	2	19	5	3		23					7	2	3			5
December	4			1				6	1		8	3			11	2				2					1
Total	30	5	7	7				144	27	22	200	52	7	0	220	11			99	31	10	46	0	0	22
Mean	3	—	1	1				12	2	2	17	4	1	—	18	1			8	3	1	4	—	—	2

Frequency Table VI for Horseshoe Island, Grahamland, 1956.

MONTH	<sup>2</sup> 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	10.6	6	23	57	134	28	2	37	42	31	1		21	36	38	9	3		
February	11.1	1	27	78	97	29	4	73	52	32		2	4	20	12		4		
March	13.4	16	37	79	76	40	1	53	82	45		4	4	9	8	1		1	
April	13.0	5	21	117	73	24	3	64	86	36	1		4	12	7	3			
May	14.3	2	44	115	71	16	2	69	114	39			1	3	1			3	
June	15.4	7	51	102	60	20	8	53	84	37	1		2	14	15	4	2		
July	9.1		22	76	78	72	4	56	73	12		3	6	7	8	3	1	3	
August	13.1	2	37	107	79	23	15	80	75	12			20	15	7	1			
September	10.7	5	18	87	90	40	11	64	82	14		1	3	11	11	2	1		
October	15.3	7	40	125	69	7	10	68	105	29			2	10	10	1		6	
November	12.4	5	26	100	90	19	15	62	57	22		2	8	30	19	3	1	2	
December	10.1	3	18	71	135	21	10	48	57	44		2	8	31	18	8		1	
Total	148.5	59	364	1114	1052	339	85	727	909	353	3	14	83	198	154	35	12	16	
Mean	12.4	5	30	93	88	28	7	61	76	29	—	1	7	17	13	3	1	1	

# Frequency Tables VII to X for Horseshoe Island, Grahamland, 1956.

## 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	2	2	1	1			2	3	2	1		15
2	1	2	2					7	8	12	3	2	37
3		13	10					12	21	20	5	1	82
4		12	13	1					4	4			34
5		7	8	8									23
6		1	6	9									16
7				7									7
≥ 8			1	5									6
Totals	2	37	42	31	1		21	36	38	9	3		220

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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	3	1					5	1		1		12
2		2	6	5		1	2	5	5		3		29
3	1	19	14	6		1	2	8	5				56
4		27	18	5				2	1				53
5		14	9	2									25
6	1	7	3	9									20
7	1		1	5									7
≥ 8		1											1
Totals	4	73	52	32		2	4	20	12		4		203

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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	1				1	1					4
2		7	7	3		2	1	1	2			1	24
3		7	26	1		2	2	6	3	1			48
4		19	17	5				1	2				44
5		14	15	5					1				35
6	1	4	9	11									25
7		1	3	8									12
≥ 8			4	12									16
Totals	1	53	82	45		4	4	9	8	1		1	208

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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	3	1			1	1				8
2		10	3	8			1	5		1			28
3	1	9	15	5			2	5					37
4	1	15	26	7			1	1	3				54
5	1	22	29	7					3	1			63
6		6	7	3						1			17
7		1	2	1									4
≥ 8			3	2									5
Totals	3	64	86	36	1		4	12	7	3			216

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# Frequency Tables XI to XIV for Horseshoe Island, Grahamland, 1956.

## 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	1			1						5
2		2	10	4				2				1	19
3		15	24	6				1	1				47
4	1	21	41	4								1	68
5	1	15	24	6								1	47
6		11	11	9									31
7		4	2	7									13
≥ 8				2									2
Totals	2	69	114	39			1	3	1			3	232

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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	2		1	1				3	1				8
2	1	3	2	2	1			2	1	1	1		14
3	2	10	13	3			1	7		2			38
4	2	14	23	4			1	1	9	1	1		56
5	1	13	25	3				1	3				46
6		8	10	11					1				30
7		5	8	8									21
≥ 8			2	5									7
Totals	8	53	84	37	1		2	14	15	4	2		220

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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		6	2	1		2		1			1	1	14
2	1		10	2			2		3				18
3	1	12	19	4	1	2	2	4				1	46
4		15	22	3			1	4	1	2		1	49
5	1	10	13	1			1			1			27
6	1	9	4							1			14
7		4	3	1									8
≥ 8													8
Totals	4	56	73	12		3	6	7	8	3	1	3	176

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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	3	3	2	1				5		1			15
2	2	3	3	1				5	4	1			19
3	1	14	15	3				3	7	2			45
4	3	23	24	4				2	4	1			61
5	2	13	23	1			5			1	1		46
6	1	18	6	1									27
7	1	6	2	1									10
≥ 8	2												2
Totals	15	80	75	12			20	15	7	1			225

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# Frequency Tables XV to XVIII for Horseshoe Island, Grahamland, 1956.

## 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 180	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	9	4			1		5	2	1			26
2	2	5	5	1			2	2					17
3	1	17	24	2			1	1		1			47
4	2	20	32	5				1	4				64
5		8	9	1				1	3		1		23
6	2	3	6	1				1	1				14
7		1	1	2									4
≥ 8		1	1	2					1				5
Totals	11	64	82	14		1	3	11	11	2	1		200

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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	3						2				10
2	1	3	4	3			1	1					13
3	2	14	18	3			1	5	3				46
4	3	20	36	4				3	4			2	72
5	2	18	22	6					1	1		3	53
6	2	7	11	4				1					25
7		1	8	5								1	15
≥ 8			3	4									7
Totals	10	68	105	29			2	10	10	1		6	241

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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 180	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1					3	5	1	2			13
2		1	3	3		2	1	11	2			1	24
3	4	12	15	2			3	10	6			1	53
4	7	37	21	3			1	3	5		1		78
5	3	6	5	4				1	3				22
6		4	7	4					1	1			17
7		1	4	4									9
≥ 8			2	2					1				5
Totals	15	62	57	22		2	8	30	19	3	1	2	221

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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	3				2	2	10	5	2		1	28
2		10	7	1			2	10	6	3			39
3	4	20	20	3			4	11	4	2			68
4	3	13	15	14					3	1			49
5		1	8	13									22
6		1	2	9									12
7			2	4									6
≥ 8			3										3
Totals	10	48	57	44		2	8	31	18	8		1	227

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Frequency Table XIX for Horseshoe Island, Grahamland, 1956.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>												ALL DIRECTIONS
	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	
1	15	35	19	8	2	5	14	34	16	6	2	2	158
2	8	48	62	33	1	5	24	51	32	8	6	3	281
3	17	162	213	38		4	33	84	48	11	1	2	613
4	22	236	288	59			6	24	37	4	2	4	682
5	11	141	190	57			6	3	15	4	1	4	432
6	8	79	82	71				2	4	2			248
7	2	24	36	53								1	116
= > 8	2	2	19	34					2				59
Totals	85	727	909	353	3	14	83	198	154	35	12	16	2589

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## Index to Tables and Pages

### Surface Observations.

	Tables	Stanley	Grylvikon	Signy Island	Hope Bay	Admiralty Bay	Deception Island	Argentine Islands	Loubet Const	Horseshoe Island
<b>MEANS AND EXTREMES.</b>										
Pressure and Temperature ... ..	I	1	47	60	72	84	96	108	153	164
Humidity; Cloud Amount; Sunshine; Rainfall ...	II	2	48	61	73	85	97	109	154	165
<b>FREQUENCIES.</b>										
Pressure, in 5mb. ranges ... ..	I	3	49	62	74	86	98	110	155	166
Temperature, in 2° F ranges ... ..	II	4	50	63	75	87	99	111	156	167
Relative Humidity in 5% ranges ... ..	III	5	51	64	76	88	100	112	157	168
Visibility; Low Cloud Amounts; Cloud Heights summaries	IV	6	52	65	77	89	101	113	158	169
Abnormal Temperatures; Precipitation; Weather, days of ...	V	7	53	66	78	90	102	114	159	170
Wind Forces and Directions ... ..	VI	8	54	67	79	91	103	115	160	171
Wind Forces in twelve 30° sectors, monthly ... ..	VII - XVIII	9 - 11	55 - 57	68 - 70	80 - 82	92 - 94	104 - 106	116 - 118	161 - 162	172 - 174
Wind Forces in twelve 30° sectors, annually ... ..	XIX	12	58	71	83	95	107	119	163	175
Precipitation, days of ... ..	XX	13	59							

### Upper Air Observations.

#### MEANS.

Air and Dew Point Temperatures ... ..	I	14						120		
Heights of standard pressure levels ... ..	II	15						121		

#### FREQUENCIES.

Air Temperature at standard levels ... ..	I - VI	16 - 21						122 - 127		
Relative Humidity at standard levels ... ..	VII - VIII	22 - 23						128 - 129		
Wind Speeds and Directions in twelve 30° sectors	IX - XX	24 - 35						130 - 141		
Heights of the standard pressure levels ... ..	XXI - XXXI	36 - 46						142 - 152		

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FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

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Weather Messages

1 March 1957

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This pamphlet gives details of the collective synoptic messages and forecasts issued from the Falkland Islands and Dependencies. The information is set out in the form used in W.M.O. publication No. 9.

W.M.O. Regional Association III (South America) practice is followed with the national instructions shown below.

The following international code forms are used :

FM11A - SYNOP  
 FM21A, FM22A, FM23A - SHIP  
 FM31 - NEPH  
 FM32A - PILOT  
 FM35A - TEMP  
           MESRAN TEMP  
 FM46A - IAC FLEET  
 FM71 - CLIMAT  
 FM75 - CLIMAT TEMP

Storm warnings are in plain language, in the form defined by Washington resolution 44. Synoptic situations, including a brief description of weather conditions, and forecasts are given in plain language.

### FM 11A SYNOP

- (i) Group (II) iii is used throughout in this form.
- (ii) Group  $T_a T_d j_a j_p j_p$  is used.
- (iii) Group  $(S_N s Ch s h s)$ . These groups are used in accordance with the practice of Regional Association VI (Europe).
- (iv) Group  $(S_N s S_p s_p s_p)$ . The practice of Regional Association VI (Europe) has been adopted to meet the special requirements of this Service. Codes 622, 623, 624, 634, 636, 647, 653, 655, 657, 658, 661, 662, 667, 668, 670, 671, 672, 673, 674, 675, 678, 684 and 696 are used.
- (v) Additional groups 1, 2, 3, 4 and 5. Group  $2T_g T_g E_s$  is reported by station 88890 at 1200 G.M.T.

### FM 32A PILOT

- (i) Use of sections and levels for reports in PILOT code form.

#### SECTION 1.

The interval indicator ( $i_h$ ) is reported only as code figure 4 or 9.

The following are the altitudes of the only standard levels for which wind data, if available, are included in this section :-

Surface,	4,000 feet	9,000 feet
1,000 feet	6,000 "	14,000 "
2,000 "	7,000 "	35,000 "
3,000 "	8,000 "	47,000 "

SECTION 2. Not used.

SECTION 3. In Section 3, the criteria for wind shifts, speed changes and the thickness of the layer through which these variations occur is  $45^\circ$  (or more) wind shift, a speed change of 50% (or more) between any two levels, and this change may be an increase or a decrease, and for a thickness of 5,000 ft.

SECTION 4. Section 4 is always used to indicate wind data, if available, for the levels :

5,000 ft., 10,000 ft., 18,000 ft., 24,000 ft., 30,000 ft., 40,000 ft., 53,000 ft.,  
 approximating to 850 mb., 700 mb., 500 mb., 400 mb., 300 mb., 200 mb. and 100 mb.

### FM 35A TEMP.

- (i) Use of sections.  
 Regional Association VI (Europe) practice is used.  
 Sections 1, 2, 3 and 10 are used.

### MESRAN TEMP.

The code and symbols are the same as those given for Section 1 of the TEMP code.

## LEGEND

The heading

1	2	3	4	5
---	---	---	---	---

has the following meaning :

Time of transmission	Time of observation	Type of message	Form of code used	Details of message
----------------------	---------------------	-----------------	-------------------	--------------------

**Column 1 - Time of transmission**

This is the time of the commencement of the message in G.M.T.

**Column 2 - Time of observation**

In synoptic and upper air messages this is the hour at which the observations were made. In forecast messages a reference is made to an explanatory note, which gives the period of validity.

**Column 3 - Type of message**

This is given in recognised code words, or in plain language.

**Column 4 - Form of code used (see page 1). The following international codes are used :**

Surface observations	SYNOP	FM11A
	SHIP	FM21A, FM22A & FM23A
Upper Air observations	NEPH	FM31
	PILOT	FM32A
	TEMP	FM35A
Analyses ...	IAC FLEET	FM46A
Climate summaries	CLIMAT	FM71
Aerological summaries	CLIMAT TEMP	FM75

The form of plain language storm warnings is as follows :-

1. International call (TTT).
2. Statement of type of warning (gale, etc.)
3. Time of reference (G.M.T.)
4. Type of disturbance with statement of centre of low pressure in millibars.
5. Location of disturbance in terms of latitude and longitude.
6. Direction and speed of movement of disturbance.
7. Extent of affected area.
8. Force and direction of wind in various sectors of affected area.
9. Further indications (forecast).

Plain language forecasts are given for areas which will be defined by reference to the chart on page 3.

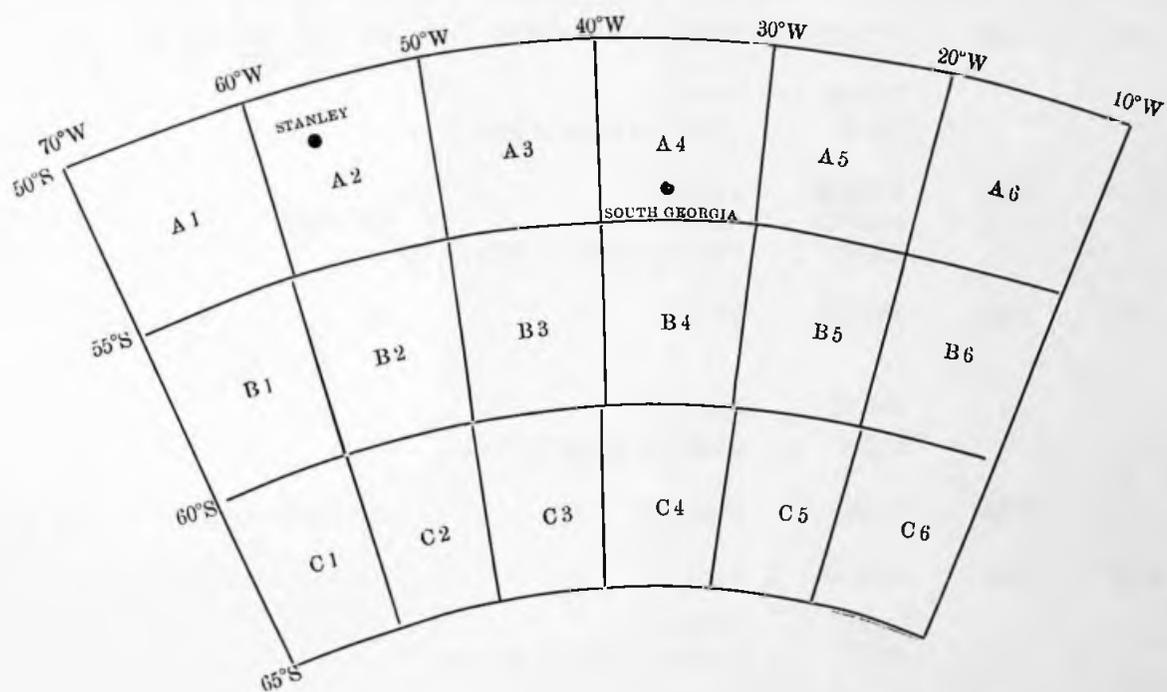
**Column 5 - Details of message**

In synoptic and upper air messages (including CLIMAT and CLIMAT TEMP), index numbers of reporting stations are shown. The regional indicator (II) is separated from the station indicator (iii) by a colon. Thus 88: 882, 884, 886 = 88882, 88884, 88886.

This column is also used to give details of the areas covered by forecasts.

# FALKLAND ISLANDS AND SOUTH GEORGIA

## WEATHER FORECAST AREAS



# FALKLAND ISLANDS

## National Broadcast.

Denomination of Broadcast - Collective message of reports from the Falkland Islands and Dependencies.

Transmitting Station Call Sign	Broadcast Times	Frequencies k(c/s)* Type of Waves	Power of Station											
Meteor Falklands ZHF 88	0000	<table border="0"> <tr><td>3700</td></tr> <tr><td>5100</td></tr> <tr><td>7425</td></tr> <tr><td>8150</td></tr> <tr><td>9800</td></tr> <tr><td>11450</td></tr> <tr><td>12300</td></tr> <tr><td>14800</td></tr> <tr><td>17400</td></tr> <tr><td>19800</td></tr> </table>	3700	5100	7425	8150	9800	11450	12300	14800	17400	19800	A1	3.5 KW.
	3700													
	5100													
	7425													
8150														
9800														
11450														
12300														
14800														
17400														
19800														
0645														
1300	0.35 KW.													
1900														

\* Two frequencies chosen from the list given will be used on each broadcast, the primary using 3.5 KW and the secondary 0.35 KW. Changes of frequency will be made on March 1st, June 1st, September 1st and December 1st, and notification of the two frequencies to be used during the ensuing three-month period will be made on broadcasts prior to the effective date.

1	2	3	4	5
0000	2300	SYNOP PILOT SHIP	FM11A FM32A FM21A, FM22A & FM23A	88: 890, 903, 925, 934, 938, 940, 942, 952, 956, 959.
0645	0600	SYNOP PILOT SHIP	FM11A FM32A FM21A, FM22A & FM23A	} See 0000
1300	1200	SYNOP PILOT SHIP	FM11A FM32A FM21A, FM22A & FM23A	88: 884, 886, 888, 890, 903, 925, 934, 938, 940, 942, 952, 956, 959.
	1500	TEMP	MESRAN	Previous day for 88: 890, 952.
1900	1800	SYNOP PILOT SHIP	FM11A FM32A FM21A, FM22A & FM23A	88: 886 to list as 0000. } See 0000
	1500	TEMP	FM35A	88: 890, 952.

### Notes:

CLIMAT reports are issued on all broadcasts on the 4th and 5th of each month as follows:

CLIMAT	88 : 890
CLIMAT (First two groups only)	88 : 903, 925, 934, 938, 940, 952, 956, 959.
CLIMAT TEMP	88 : 890, 952.

## FALKLAND ISLANDS

Denomination of Broadcast — Forecast for domestic purposes.

Station : STANLEY

Area affected : Falkland Islands and coastal waters.

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station	
Meteor Falklands (ZHF88)	0130 <sup>1</sup> ), 1515, 2115	3700A <sub>3</sub>	0.35 KW.	
1	2	3	4	5
0130	2)	Storm warnings and forecast	in clear	For area affected
1515	2)	Storm warnings and forecast	in clear	For area affected
2115	2)	Storm warnings and forecast	in clear	For area affected

1) Issued from January to March only.

2) Valid for 24 hours with further outlook for 12 hours.

# FALKLAND ISLANDS

## Weather Messages for Shipping

Denomination of Broadcast — Weather bulletins for shipping south of 50° S., between 70° W. and 40° W.<sup>2)</sup>

Stanley, Falkland Islands. — December to April<sup>1)</sup>

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station
Meteor Falklands ZHF 88	0200	9800 A <sub>1</sub>	3.5 KW.
	1500		
	2130	7425 A <sub>1</sub>	0.35 KW.

1	2	3	4	5
0200	4)	Storm warnings Situation	In clear In clear	Gale/Storm warnings. Brief description of situation in area affected.
		Forecast	In clear	Forecast for area affected <sup>2)</sup> 3).
1500	4)	Storm warnings Situation Forecast	In clear	See 0200
2130	4)	Storm warnings Situation Forecast	In clear	See 0200
		IAC Fleet	FM 46A	Surface analysis of 1800 G.M.T. chart covering area south of 40° S., between 80° W., and Meridian.

1) As required by whaling vessels.

2) Reference should be made to the preceding map for area coding.

3) Ships between 40° S. and 50° S., and south of 65° S. can be supplied with forecasts by Meteor Falklands in return for weather reports in one of the ship's codes or in plain language. Reports can be accepted between 12-1300, 18-1900 and 00-0100 G.M.T., and forecasts issued about 1500, 2100 and 0200 G.M.T., (the last from January to March only). Note that ZHF 88 does not keep listening watches for ships, and initial contact should be made through Falklands Radio (VPC) either in CQ schedules:—

1400 G.M.T. — VPC on 9800 kc/s

0200 G.M.T. — VPC on 9800 kc/s

or on 590 kc/s at any time between the hours 1230 - 1430 G.M.T. and 1830 - 0130 G.M.T.

4) Valid for 12 hours with further outlook for 12 hours.

# FALKLAND ISLANDS

(SOUTH GEORGIA)

## Weather Messages for Shipping

Denomination of Broadcast - Weather bulletin for shipping in area south of 50° S., between 40° W. and 10° W. <sup>2)</sup>)

Grytviken, South Georgia October to April <sup>2)</sup>)

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station
ZBH	0215 1515 2115	500 A <sub>1</sub> and 8642 A <sub>1</sub>	0.8 Kw

1	2	3	4	5
0215	5)	Storm warnings Situation Forecast	In clear In clear In clear	Gale/Storm warnings. Brief description of situation in area affected <sup>1)</sup> ) Forecast for area 250 miles radius from station <sup>2)</sup> ). Forecast for area south of 50° S., between 40° W., and 10° W. <sup>3)</sup> <sup>4)</sup> )
1515	5)	Storm warnings Situation Forecast	In clear	See 0215
2115	5)	Storm warnings Situation Forecast	In clear	See 0215

1) Reference should be made to the preceding map for area coding.

2) During October - April, as required by whaling vessels.

3) During December - April, as required by whaling vessels.

4) Ships between 40° S., and 50° S., and south of 65° S. can be supplied with forecasts by ZBH in return for weather reports in one of the ship's codes or in plain language. Ships should call station ZBH on 500 kc/s or in the 8 mc/s shipping band in CQ schedules at 0100, 1330 and 1930, or at such other CQ times as may be published by ZBH.

5) Valid for 12 hours with further outlook for 12 hours.

# AMENDMENT SHEET

No.	Date Issued.	Date Entered.	Signature.
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			



FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

ANNUAL REPORT

*for the year*

1957

*Presented to the Governor*

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Falkland Islands and Dependencies Meteorological Service

ANNUAL REPORT

FOR THE YEAR

1957

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# Annual Report on the Falkland Islands and Dependencies

## Meteorological Service for 1957

### 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 four stations in the Falklands, and these were also supervised by Stanley. During the International Geophysical Year, commencing 1st July 1957, additional information was received from the Royal Society base at Halley Bay and the United States Weddell Sea base, Ellsworth. Information was also received from the Trans-Antarctic Expedition, from its bases at Shackleton and Southice.

The chief Meteorological Officer is responsible to the Governor for the efficiency of the Service. The Director, 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, Shackleton, and Southice).
- (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 1957-1958 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 0200 G.M.T. was broadcast from the 14th January to the 17th 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, S.S. "Fitzroy", R.M.S. "Darwin" M.V. "Oluf Sven", and H.M.S. Protector. The 1956-1957 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 23rd. In the 1957-1958 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.

At the beginning of the year two Canso aircraft of Hunting Aero Surveys Ltd., were based at Deception Island in the South Shetlands, for the purpose of a special aerial survey of Grahamland. To assist flights over Grahamland, a Forecaster from Stanley was based at Deception, for the period of the survey (see last year's Report). These aircraft returned to Stanley on the 2nd and 4th March, and special forecast arrangements were made for these flights by Stanley Meteorological Office. Special arrangements were also made for the departure of these aircraft on the 14th and 15th March for Montevideo.

From September onwards aviation forecasts were supplied to the British Trans-Antarctic Expedition at Shackleton, and the United States Weddell Sea base, Ellsworth, on request.

During the absence, on leave, of the South Georgia Forecaster, a daily forecast was sent to South Georgia from the 4th April to the 30th September.

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 20th March. During the winter a daily forecast, for the South Georgia area, was issued by Stanley [see (a) above]. In October, twice daily local forecasts were commenced, the area covered being extended, on request, to meet the requirements of local whaling. For the 1957-1958 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 31st.

Ships receiving individual forecasts during the year included the following :- R.R.S. Shackleton, R.R.S. John Biscoe, H.M.S. Protector and the Conquistador, Magga Dan, Southern Satellite, Southern Garden, Southern Harvester, Southern Venturer and the Bloemendal.

### 3. Reporting Stations

Full synoptic observations at 0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 and 2300 G.M.T., were made at South Georgia, Signy Island, Deception Island, Hope Bay, Argentine Islands, Loubet Coast and Horseshoe Island. At Stanley the 0600 and 0900 G.M.T. observations were missed in January, but full observations commenced on the 1st February and continued throughout the year. At Admiralty Bay full observations were carried out to 22nd January, but then, due to staff shortages, the 0300, 0900, 1500, and 2100 G.M.T. observations were discontinued. Pilot balloon ascents were made whenever possible.

The observations were made in the usual code forms, Fm. 11A, and pilots in Fm. 32A, as given in the "Wireless Weather Messages", up to the end of March. They were then amended in accordance with the instructions for Regional Codes for Antarctica during the International Geophysical Year. The collection of observations was made in three radio schedules daily, in January and February, four daily from March to June, and eight from the 1st July onwards (see Communications below).

Observations were taken most of the year at Viewpoint, about 16 miles south-west of Hope Bay, and also on some sledge journeys. These were transmitted to Stanley for re-broadcast when possible, but only a few could be collected due to radio difficulties.

Communication was re-established with Signy Island on the 29th January (see last year's Report).

During the year observations from the Trans-Antarctic Expedition were received regularly from January to October, then irregularly till 27th December, when they ceased altogether. Observations from Halley Bay were received intermittently during January, and regularly from the 1st February onwards. Observations were also received from the United States Weddell Sea base at Ellsworth from about mid-June onwards.

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. Another station was maintained at Pebble Island, where observations were made at 1200 and 1800 G.M.T., but this station closed at the end of August when the observer left. Another observer to replace him has not yet been found. The observer at West Point Island continued to report wind, weather and cloud at 1200 G.M.T. 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 a daily radio-sonde ascent at 1500 G.M.T. was made from January to March. From the 1st April onwards the ascent time was changed to 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: 20th June to 29th June, 18th September to 27th 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 S.S. "Fitzroy", R.M.S. "Darwin", R.R.S. "John Biscoe", and R.R.S. "Shackleton", when at sea; 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 "Wyandotte", while operating in the Weddell Sea. All available reports were included in FICOL collective messages broadcast from Stanley.

A number of messages were received during the latter part of the year direct from the factory whaling ships Southern Harvester and Southern Venturer, but these could not be used as the key to the position code is not held at Stanley or South Georgia.

(b) Whaling Vessels 1956-1957 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 were again included. A total of 818 reports was received from January to March, of which 468 were in the Stanley and South Georgia forecast areas, and about 100 more to the west of the Stanley area in the Bellingshausen Sea.

(c) Whaling Vessels 1957-1958 season.

The procedure adopted at South Africa was unchanged, and reports were again transmitted at 1215 G.M.T. During December 396 reports were received with 144 in forecast areas and about 50 west of 70° West, in the Bellingshausen Sea.

During both seasons, 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 January and February collection of observations was made in three schedules daily. The 0000 G.M.T. observations were not collected, the minor observations at 0300, 0900, 1500 and 2100 G.M.T. were collected, but not re-broadcast, and the 0600 G.M.T. observations were included as retards in the 1300 G.M.T. transmission.

From March to June, the 0300 and 0600 G.M.T. observations were collected at 0600 G.M.T., and a new broadcast of the 0600 G.M.T. observations was introduced at 0645 G.M.T. This collection was introduced mainly to give base Meteorological Assistants practice in morse, and the main transmitter at Stanley was not available for the FICOL. The 0600 G.M.T. observations were, therefore, broadcast again at 1300 G.M.T.

On the 1st July the Radio Section left the Meteorological Office and moved into new quarters attached to the Government Wireless Station at Stanley. Since then, communication between the Meteorological Office and the Radio Section has been by Deskfax facsimile transmission. The number of collections and transmissions was increased to 8, and the minor observations at 0300, 0900, 1500 and 2100 G.M.T. each received a special broadcast. For the purpose 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-Stations were collected throughout the year by the Government R/T Operator.

Communications with the Antarctic bases were satisfactory apart from the breakdown at Signy Island from the 1st to the 28th January. During the year contacts were maintained with the Trans-Antarctic Expedition, Halley Bay and Ellsworth (see Reporting Stations above).

Contacts with Little America were, on the whole, satisfactory. They reported good reception of FICOLS, and interchange of administrative messages was always possible although with, at times, some delay.

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

1956-1957 Season		
Time (G.M.T.)	Main Transmission	Second Transmission
0200+	8195 kc/s	7425 kc/s
1500	8195 kc/s	7425 kc/s
2130	8195 kc/s	7425 kc/s

+ From the 14th January to the 17th March on R.C.A. transmitters only.

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

Main transmissions of FICOLS were normally made on a Marconi Standard Transmitter, with a power out-put of about 3.5 kw. The secondary transmissions were made on an R.C.A. Transmitter, type ET.4336B, with a power out-put of about 0.35 kw. The special 0645 G.M.T. broadcasts from March to June used R.C.A. transmitters for both frequencies, as the main transmitter was not available.

In the 1956-1957 whaling season, two R.C.A. transmitters were used for the broadcasts at 0200 G.M.T. but for the broadcasts at 1500 and 2130 G.M.T. the main transmitter was again the Marconi Standard, with the secondary an R.C.A. In the 1957-1958 whaling season 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.

The Marconi SWB. 8 Minor was also used to beam FICOLS to the Antarctic Weather Central, Little America, on 9800 kc/s (see Appendix II).

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), and the transmissions at 0215, 1515 and 2115 G.M.T. were all made on the two frequencies, 500 and 8747 kc/s, with a power out-put of 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 1954 were received from the printers, and the Annual Meteorological Tables for 1955 were sent to the printers, but were not completed by the end of the year.

A new edition of the "Weather Messages" pamphlet was completed, in March.

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 from the 1st July onwards, 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.

Three years' records of wind speed at Sapper Hill, Stanley, were analysed, and a report sent to the Windmill Research Association. No reply had been received by the end of the year.

A summary of seasonal weather at Stanley was supplied to the Government of the Falkland Islands, early in the year, to assist in a land survey.

The Annual Report for 1956 was completed.

## 7. Organisation

The main changes in organisation were due to the International Geophysical Year commencing on the 1st July.

At Stanley work was begun on measurements of solar radiation. At Argentine Islands measurements of solar radiation, atmospheric ozone, and terrestrial magnetism were made in addition to extending the radio-sonde programme (see Reporting Stations).

The F.I.D.S. Wireless Station moved from the Meteorological Office to new quarters adjoining the Government Station (see Communications).

A forecaster worked with the Aerial Survey at Deception Island at the beginning of the year, and returned to Stanley in March. Although no Forecaster could be spared, the Senior Meteorological Assistant at Stanley made a tour of the bases at the beginning of the year.

## 8. Staff

At Stanley one Forecaster left in August, and had not been replaced by the end of the year. Three Assistants arrived from the United Kingdom, but one of these was transferred to the Radio-sonde Unit after about one month, and one left for the United Kingdom on compassionate leave in October. In addition, the last F.I.D.S. trained Assistant left at the end of October, so that the office was left with only three Assistants to cover a 24-hour watch. Two new Assistants were promised early in 1958.

At South Georgia the position improved somewhat, and at the year's end there was a full staff complement.

On the bases three stations had only three Assistants each instead of four, and at one base the programme had to be modified (see Reporting Stations). The position improved late in the year, and all bases have a full complement of staff for the 1958 season.

The Radio staff at Stanley was unaltered for much of the year, with new arrivals in November and December.

## 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. Except for some shortages of hydrogen cylinders, 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.

167 copies of the 1954 Tables were distributed to Institutions and individuals all over the world.

From January to June abbreviated versions of daily upper air ascents from Stanley and Argentine Islands were transmitted on the following morning in the Mesran code, for the use of the South African Weather Bureau. This had to cease, however, from the 1st July, due to the increased radio traffic.

At the request of The Director, United States Weather Bureau, the Daily Weather Reports were sent by airmail to Washington for the period March to August.

## 11. General

The Stanley Office, South Georgia, and most of the bases, were visited by His Royal Highness, the Duke of Edinburgh, during January.

During February and March, Mr. Crawford Brooks, of the United States Embassy in Montevideo, toured the bases and visited the Stanley Meteorological Office to discuss the Service.

Visits were exchanged between the Meteorological Staff at Stanley and the Meteorological Staff of H.M.S. Warrior during August, but as the ship had a complete meteorological service, no forecasts were supplied.

In August, after special aviation forecasts had been supplied to the Trans-Antarctic Expedition to help in a rescue in the Weddell Sea, telegrams of thanks were received from Dr. Fuchs and members of the rescued air crew.

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## APPENDIX I

### *Provision in Dependencies Estimates for Meteorological Services, July 1957 - June 1958*

#### HEADQUARTERS

				£
Head 4A	Personal Emoluments	...	...	13,222
..	4B Other Charges (Stores, Equipment, etc.)	...	...	1,990
..	4C Special Expenditure (including publications)	...	...	935
	Total Headquarters Expenditure			£16,147

#### SOUTH GEORGIA

Head 1A	Personal Emoluments (Meteorological Staff)	...	...	2,815
..	1B Meteorological Equipment	...	...	350
	Total South Georgia Expenditure			£3,165

#### ANTARCTIC REPORTING STATIONS

Head 5A	Personal Emoluments (Meteorological Staff)	...	...	20,660
..	5B Meteorological Equipment etc.	...	...	8,000
..	5C Special Expenditure (including experimental equipment, etc.)	...	...	2,100
	Total Antarctic Bases Expenditure			£30,760
	Total Expenditure — F.I.D.S.			£50,072

### *Provision in Colony's Estimates for Meteorological Services, July 1957 - June 1958*

Head VIII 1	Personal Emoluments, part-time observers	...	...	100
..	2 Contribution towards cost of Headquarters	...	...	1,000
..	3-5 Stores, Equipment, etc.	...	...	195
	Total Expenditure — Colony			£1,295
	GROSS TOTAL	...	...	£51,367

## APPENDIX II

### *1st January to 28th February.*

Contents (Times G.M.T.)	Time of transmission G.M.T.		Transmission Frequencies	
			Main (kc/s).	Second (kc/s).
0600, 1200 Synops. } 1500 Mesran Temps. }	...	1300	19800	14800
1800 Synops., 1500 Temps.	...	1900	9800	11450
2300 Synops. ...	...	2400	9800	11450

### *1st March to 30th June.*

0600 Synops. ...	...	0645	14800	9800 7425
0600, 1200 Synops. } 1500 Mesran Temps. }	...	1300	19800	14800
+ 1800 Synops., 1500 Temps.	...	1900	19800	14800
2300 Synops. ...	...	2400	9800	11450

+ Temps changed to 1200 G.M.T. with effect 1st April.

### *1st July to 3rd September.*

0300 Synops, 0000 Temps.	...	0430	9100	11450
0600 Synops.	...	0645	9100	11450
0900 Synops.	...	1030	9100	11450
1200 Synops.	...	1300	17400	12300
1500 Synops, 1200 Temps.	...	1600	17400	12300
1800 Synops.	...	1900	17400	12300
2100 Synops.	...	2215	17400	12300
2300 Synops	...	2400	9100	12300

### *4th September to 31st December.*

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

In addition, a transmission of all FICOLS was made from 1st July on 9800 kc/s, for the benefit of the Antarctic Weather Central, Little America.

APPENDIX III

Staff List - 1957

STANLEY

Chief Meteorological Officer	-	P. A. Canning
Forecaster	-	S. D. Glassey (till August)
		D. B. B. Powell
Senior Assistant	-	R. A. Smith
• Assistants	-	F. D. Byrne (February only)
		M. J. Byrne (from April)
		P. H. Hoare (till May)
		A. F. Lewis (arrived February)
		E. M. P. Salmon (till October)
		J. Stephenson
		J. Witcombe (left January)
		R. W. Woods
Senior Wireless Operator	-	L. Tyson
W/T Operators	-	G. Davis
		I. Joyner (arrived December)
		J. Newing
		B. Pinnock (arrived November)
		S. Ward
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.

† Miss Reive's duties were divided between the Meteorological Office and F.I.D.S. Office up to the end of May.

SOUTH GEORGIA

Forecaster-in-Charge	-	D. Borland
Senior Meteorological Assistant	-	J. Ford (arrived May)
		J. McInerney (till April)
Meteorological Assistants	-	J. Cochran (arrived May)
		A. Freer
		N. H. Smith (till October)

BASES — WINTER STAFF ONLY.

DECEPTION ISLAND

Base Leader/Met. Assistant	-	J. Paisley
Senior Meteorological Assistant	-	J. Witcombe
Meteorological Assistants	-	J. E. Dagless
		P. O. White

HOPE BAY

Senior Meteorological Assistant	-	C. Johnstone
Meteorological Assistants	-	D. K. Brown
		M. J. F. Reuby
		P. B. Thompson
		R. W. Tuft
		R. I. Walcott

ARGENTINE ISLANDS

Scientific Officer	-	J. C. Farman
Assistant Scientific Officer	-	D. A. Simmons
Senior Meteorological Assistant	-	E. R. Hughes
Meteorological Assistants	-	G. R. Ibbotson
		J. M. de Nantes
		R. L. Tapp

ADMIRALTY BAY

Base Leader/Met. Assistant	-	A. Precious
Meteorological Assistants		R. H. Hillson
		D. R. K. Stephens

SIGNY ISLAND

Base Leader/Met. Assistant	-	C. D. Scotland
Senior Meteorological Assistant	-	D. W. McDowell
Meteorological Assistants	-	S. E. Black
		D. Statham

LOUBET COAST

Senior Meteorological Assistant	-	W. McDowell
Meteorological Assistants	-	J. P. Smith
		J. Thorne

HORSESHOE ISLAND

Senior Meteorological Assistant	-	L. Maloney
Meteorological Assistants	-	J. W. Fellows
		G. M. Larmour

FALKLAND ISLANDS OUTSTATIONS — (voluntary observers)

Darwin	-	D. M. Honeyman
Fox Bay	-	C. Maddocks
Pebble Island	-	J. Shirtcliffe (till August)
West Point Island	-	H. M. Napier

APPENDIX IV

Publications issued during 1957

1. Daily Weather Report.
2. Wireless Weather Messages.
3. Annual Meteorological Tables 1954.
4. Annual Report on the Service for the year 1956.



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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1957

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FALKLAND ISLANDS AND DEPENDENCIES  
METEOROLOGICAL SERVICE

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Annual Meteorological Tables  
1957

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

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Published for the Falkland Islands Dependencies Survey,  
Stanley, Falkland Islands, 1958.

# 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 1956 have been retained in the same form in this issue.

On the 1st April, the time of the upper air ascents at Stanley and the Argentine Islands changed from 1500 G.M.T. to 1200 G.M.T. Additional ascents were done at 0000 G.M.T. from the 18th to the 27th September inclusive, and from the 12th to the 21st December inclusive, and at Argentine Islands only, extra 0000 G.M.T. ascents were made from the 20th to the 29th June inclusive.

At Stanley the 0600 and 0900 G.M.T. observations were missed during January due to staff shortages.

At Stanley, Radio-Sonde, due to staff shortages and faulty radar, no upper winds were reported during March, April and July, and a number of records were missed during other months for these reasons.

At Admiralty Bay observations were done only at the four main hours - 0000 G.M.T., 0600 G.M.T., 1200 G.M.T., and 1800 G.M.T.

At Argentine Islands, due to the 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-. ~~Tables I to VI, 0°C 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.* (~~Entries in ordinary print refer to the height of the lowest layer of significant cloud. Additional entries are made (in parenthesis) whenever low cloud (below 2400 metres) occurs at more than one level. These additional entries refer the total amount of low cloud to the height of the main layer.~~) 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 95,000 yards.

21. Up to the 31st March observations were made daily for 1100 Zone Time (1500 G.M.T.) the time of release normally being 1000 Zone Time (1400 G.M.T.). From the 1st April these times were changed to 2000 Zone Time (0000 G.M.T.), and 1900 Zone Time (2300 G.M.T.) respectively. A number of additional ascents were done during World Meteorological Intervals of the International Geophysical Year (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°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°C/Km. or less. Where more than one tropopause was reported, the lowest has been used.

Means and Extremes Table I for Stanley, Falkland Islands, 1957.

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	997.5	1015.3	31st	985.2	21st	43.0	44.0	47.1	50.0	49.9	49.0	45.7	43.4	46.5	54.2	40.5	68	20th	34	18th, 27th	
February	1008.2	1023.1	6th	989.8	24th	46.5	45.5	50.0	54.3	54.4	52.7	48.6	47.5	49.9	58.2	43.6	66	5th, 20th	34	28th	
March	1003.1	1021.8	16th	985.8	2nd	45.3	45.4	49.2	53.5	54.0	50.6	47.0	45.7	48.8	57.5	42.0	65	21st	33	28th	
April	1012.4	1029.4	9th	<u>961.5</u>	<u>1st</u>	43.0	43.0	43.9	47.3	47.5	45.1	43.6	42.5	44.5	50.1	39.6	61	5th	31	9th	
May	1004.6	1028.2	2nd	982.6	30th	38.8	38.5	38.3	42.1	42.6	40.1	38.7	38.7	39.7	44.5	35.2	54	5th	28	19th, 31st	
June	1002.4	1027.4	12th, 13th	981.2	17th	34.8	34.6	34.8	36.6	36.9	35.4	35.3	34.7	35.4	39.1	31.7	45	4, 14, 15,	23	17th	
July	1002.9	<u>1031.4</u>	<u>29th</u>	968.8	8th	34.0	34.0	34.5	36.3	37.6	35.2	34.3	33.9	35.0	39.4	30.9	48	19th	<u>27</u>	<u>3rd</u>	
August	1004.2	1026.8	31st	971.1	9th	33.8	33.9	34.2	36.6	36.7	35.3	34.7	34.6	35.0	38.3	31.5	46	24th	22	14th	
September	1005.7	1028.6	2nd	982.1	9th	36.5	36.5	38.8	42.1	42.3	39.8	37.5	36.8	38.8	44.9	34.4	52	30th	30	2, 20, 23, 28	
October	998.8	1018.7	31st	976.9	15th	36.5	36.6	40.4	44.5	44.2	41.7	37.5	36.8	39.8	47.6	33.4	65	21st	27	15th	
November	1008.6	1028.7	13th	976.0	29th	41.6	42.3	46.7	50.3	49.7	47.5	43.5	42.3	45.5	53.8	39.7	63	23rd	27	6th	
December	998.3	1023.5	8th	976.0	1st	41.9	42.8	46.2	49.7	48.4	46.5	44.0	42.8	45.3	52.6	39.9	<u>70</u>	<u>24th</u>	33	18th	
Total	12046.7	12302.9	—	11737.0	—	475.7	477.1	504.1	543.3	544.2	518.9	490.4	479.7	504.2	580.2	442.4	703	—	343	—	
Mean	1003.9	1025.2	—	978.1	—	39.6	39.8	42.0	45.3	45.3	43.2	40.9	40.0	42.0	48.3	36.9	58.6	—	28.6	—	

Means and Extremes Table II for Stanley, Falkland Islands, 1957.

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	86	79	71	71	74	82	88	80	—	—	6.2	6.6	6.3	6.3	5.5	4.9	6.0	6.4	—	16.1	83.7	17.1	27th
February	91	92	85	75	73	75	89	91	84	5.6	5.9	5.4	5.6	6.1	5.8	5.8	5.2	5.7	6.4	—	14.5	16.4	3.7	17th
March	89	90	84	71	69	77	87	90	82	3.8	4.6	5.4	5.5	5.5	5.3	4.4	4.3	4.9	6.1	—	12.5	17.6	5.4	13th
April	91	90	90	81	79	85	88	91	87	6.0	5.9	6.1	6.3	6.0	6.3	5.7	5.2	5.9	3.2	—	10.5	38.8	15.3	10th
May	92	89	89	80	79	84	89	94	87	5.0	5.5	5.8	5.2	5.7	5.3	5.0	5.5	5.4	3.3	Not recorded	8.8	63.3	23.8	21st
June	90	89	89	86	84	87	88	90	88	5.5	6.3	6.7	6.6	6.5	6.2	5.9	5.7	6.2	1.8	—	7.9	45.0	5.7	7th
July	88	89	88	84	83	86	87	88	87	5.3	5.6	6.0	5.9	5.6	5.7	5.1	5.5	5.6	2.6	—	8.3	66.5	18.6	4th
August	91	90	89	85	85	91	92	91	89	6.0	6.2	6.6	6.9	7.2	7.1	6.2	6.5	6.6	1.5	—	9.7	50.1	12.0	3rd
September	89	89	86	78	77	85	90	91	86	5.6	5.5	6.1	6.3	6.3	5.9	5.9	5.8	5.9	4.2	—	11.7	19.6	4.2	17th
October	86	86	78	65	64	70	84	86	77	5.0	5.9	6.2	6.7	6.7	6.0	5.4	4.9	5.9	5.9	—	13.7	30.1	7.3	6th
November	91	89	78	66	71	77	87	91	81	5.5	5.9	6.0	5.9	6.1	6.1	5.7	5.7	5.9	6.3	—	15.6	22.5	3.5	21st
December	90	90	83	74	77	81	86	87	83	6.5	6.9	6.8	6.5	6.9	6.4	6.5	6.3	6.6	4.9	—	16.6	141.3	22.7	14th
Total	1076	1069	1018	916	912	972	1049	1078	1011	59.8	64.2	73.3	74.0	74.9	72.4	67.1	65.5	70.6	52.6	—	145.9	594.9	139.3	—
Mean	90	89	85	76	76	81	87	90	84	5.4	5.8	6.1	6.2	6.2	6.0	5.6	5.5	5.9	4.4	—	12.2	49.6	11.6	—

Frequency Table I for Stanley, Falkland Islands, 1957.

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								42	52	67	51	21	14	1							
February								2	23	11	29	51	66	27	15						
March								5	27	52	69	54	24	12	5						
April			4	3	2	1	1	2	1	9	22	32	47	46	45	25					
May								2	9	32	51	36	45	43	13	5	12				
June								4	11	28	68	56	27	19	15	6	6				
July				1	4	11	11	23	25	36	26	29	33	18	17	10	4				
August					6	4	6	18	24	34	31	31	47	20	18	9					
September								8	18	17	23	33	69	31	14	10	17				
October						6	26	16	29	51	49	37	26	8							
November						11	13	9	16	17	17	25	40	22	51	19					
December						1	5	35	50	49	52	26	20	4	6						
Year			4	4	12	34	76	190	324	468	471	447	410	200	178	98	4				



Frequency Table III for Stanley, Falkland Islands, 1957.

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		3	7	9	17	23	19	32	29	28	40	30	9	
February					2		1	1	4	3	7	16	14	22	23	32	44	42	13	
March					2		3	3	6	13	9	17	21	14	21	35	51	29	24	
April									1		7	8	14	25	28	42	56	44	15	
May										2	3	4	5	16	20	40	44	58	31	25
June												3	7	17	28	32	25	47	67	14
July										2	3	12	9	30	36	42	65	31	18	
August									1	1	1	4	11	21	27	34	56	63	29	
September								1	3	6	9	6	16	18	30	50	41	32	28	
October					3	2	6	4	6	14	13	25	21	35	26	31	27	19	16	
November						3	1	8	9	9	16	13	15	14	23	34	38	29	28	
December						2		1	3	5	7	16	16	29	40	37	47	32	13	
Total					7	9	11	21	42	65	96	152	189	288	355	434	570	449	232	
Mean					1	1	1	2	3	5	8	13	16	24	30	36	47	37	19	

# Frequency Table IV for Stanley, Falkland Islands, 1957.

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			2	1		6	18	24	35	100	8	30	53	64	29	2	2	2	9	(6) 26	(18) 45	(26) 86	(20) 8		5	2	2		5	(6) 6	(13) 8	(9) 7	(13) 2					1
February			2	2	1	4	30	57	38	90	38	62	27	43	50	4	4	4	9	(1) 33	(21) 35	(10) 87	(13) 14		22	6	4	4	3	(12) 11	(20) 11	(7) 19	(5) 3		3	2	10	
March			2	4	11	5	31	66	43	86	69	59	26	36	54	4	6	15	8	(3) 36	(12) 46	(5) 60	(5) 8		19	17	6	14	7	(3) 14	(9) 7	(2) 7		3	3	33		
April			4	2	2	6	39	65	58	64	26	31	31	76	69	4	4	5	11	(1) 39	(14) 80	(17) 64	(8) 11		7	6	4	5	9	(1) 20	(12) 38	(13) 20	(5) 3		2		13	
May		3	4	4	6	10	39	39	66	77	47	48	37	54	56	6	7	8	(1) 9	(1) 33	(6) 50	(19) 80	(17) 14		11	18	7	7	(1) 6	(1) 21	(5) 8	(15) 20	(7) 1	4	5	18		
June		1		4	4	6	57	72	62	34	12	27	39	95	65	2	2	2	7	(6) 53	(14) 76	(47) 84	(11) 4		1	2	2	2	3	(6) 27	(14) 23	(33) 28	(7) 1	1		9		
July		6			4	15	49	52	76	46	26	57	48	55	56	6	6	6	7	(14) 36	(29) 61	(6) 97	(6) 9		10	3	6	4	6	(10) 13	(16) 25	(4) 2	4		13			
August			2	1	16	20	55	78	41	35	7	19	33	103	85	1	2	6	17	(3) 58	(38) 92	(40) 64	(2) 2		1		1	5	9	(3) 30	(34) 31	(28) 34	(1) 7		6			
September			2	2	4	7	11	41	53	58	62	37	54	35	47	64	3	3	12	14	(6) 44	(14) 59	(21) 62	(10) 9		17	12	3	10	7	(6) 22	(9) 12	(10) 14	(7) 1	3	4	8	
October		5	1	2	4	3	11	31	80	111	55	57	44	72	13	7	7		1	(4) 14	(11) 78	(8) 87	(10) 6		35	14	7		1	7	(3) 11	(22) 8	(9) 1	(8) 8	5	6		
November			1	2	4	12	44	27	36	114	44	63	31	43	56	3	4	6	10	(4) 50	(11) 66	(8) 53	(10) 7		34	8	4	6	9	(2) 29	(9) 11	(4) 11	(8) 1	8	1	2		
December					4	8	22	47	46	121	20	34	26	95	73		2	2	12	(1) 36	(19) 98	(42) 71	(21) 7		10	9	2	2	11	(1) 21	(16) 27	(33) 17	(14) 1	2	1	1		
Total	0	17	20	26	63	106	436	611	639	940	389	544	430	783	670	42	49	68	(1) 114	(29) 458	(176) 786	(306) 895	(134) 99		172	97	48	59	(1) 76	(27) 231	(148) 207	(205) 210	(82) 15	38	21	120		
Mean	—	1	2	2	5	9	36	51	53	78	32	45	36	65	56	3	4	6	(-) 9	(2) 38	(15) 65	(25) 75	(11) 8		14	8	4	5	(-) 6	(2) 19	(12) 17	(17) 17	(7) 1	3	2	10		

NOTE: No 0200 or 0500 observations in January.

Frequency Table V for Stanley, Falkland Islands, 1957.

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
	>50°F	<32°F	<23°F	>68°F																					
January					30	18	2	21	4	12		1	5	1	7			4		18	4		2	2	7
February	1				10	6		14	3	11			10		9			2		6	3			1	
March					14	5		20	3	13			9	1	7			7		6	6			2	1
April					14	8	1	17	4	13		3	16		10	1		5		5	5			1	
May					23	13	1	16	2	12	1	11	9	1	18	2	6	14		13	7		1	3	1
June					26	16		19	7	17	13	15	14		15		11	20	2	19	3	2	1	6	2
July		2	1		19	10	2	21	7	16	11	6	10		11	1	5	20		16	3			5	1
August				1	20	11	1	17	5	17	9	9	15		20		4	21	1	13	2	1		4	
September					14	7		21	4	15	4	8	12		13			13		7	7		1	5	
October					18	9		28	8	15	11	16	4		13		3	18		17	6		1	13	
November					16	9		24	7	13		5	9	1	10	1		3		9	4			5	
December				1	23	17	5	22	4	24		6	12	6	20			6		17	1		3	2	1
Total	1	2	2	1	227	129	12	240	58	178	49	80	125	10	153	5	29	133	3	128	51	3	9	49	13
Mean	—	—	—	—	19	11	1	20	5	15	4	7	10	1	13	—	2	11	—	11	4	—	1	4	1

NOTE: No observations of rain, snow, sleet, hail, thunder, drizzle, drift, showers and fog between 2300 and 0800 L.M.T. in January.

Frequency Table VI for Stanley, Falkland Islands, 1957.

MONTH	<sup>2</sup> MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
		FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	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	280 to 280	290 to 310	320 to 340	
January	17.3	9	60	126	51	2	12	10	6	4	4	4	9	61	39	36	35	26	
February	16.4	10	40	115	56	3	14	16	9	2	3	2	23	37	15	15	41	44	
March	17.4	11	47	142	48		20	4	3	1	2	3	5	14	22	18	72	84	
April	16.9	13	45	126	52	4	5	7	2				13	39	34	27	55	54	
May	14.4	4	36	114	89	5	27	12	2	1	1	7	11	3	28	29	66	56	
June	16.8	13	42	126	54	5	12	7	6	8	6	11	10	26	33	45	41	30	
July	17.7	14	54	134	37	9	9	5	4	5	3	1	7	25	29	47	59	45	
August	16.3	18	49	95	68	18	36	15	15	16	13	8	40	17	19	15	17	19	
September	17.2	8	70	124	34	4	39	4	3	2	1		2	28	23	26	52	56	
October	16.3	11	84	121	27	5	7	4	1		2		1	30	37	51	76	34	
November	19.9	11	77	125	24	3	30	7	3	2	1	4	8	10	8	27	52	85	
December	18.9	9	76	125	34	4	9	14	19	9	7	3	22	54	25	22	32	28	
Total	205.5	131	680	1473	574	62	220	105	73	50	43	43	151	344	312	358	598	561	
Mean	17.1	11	57	123	48	5	18	9	6	4	4	4	13	29	26	30	50	47	

# Frequency Tables VII to X for Stanley, Falkland Islands, 1957.

## 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		4
2	1						2	1	1	1	3	1	10
3	1		3	1	2		2	5	4	2	12	5	37
4	2	4	3	2	1	2	3	9	9	12	14	8	69
5	5	3		1	1	2	1	13	8	13	3	7	57
6	2	1						18	11	6	1	3	42
7		2					1	7	5	1		2	18
≥ 8	1							7	1				9
<b>Totals</b>	<b>12</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>9</b>	<b>61</b>	<b>39</b>	<b>36</b>	<b>35</b>	<b>26</b>	<b>246</b>

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					1	1		4
2		1	1				1	3		1	1	1	9
3	2	6	5	2	2		4	5	2	3	11	1	43
4	6	7	3				1	14	10	3	15	10	69
5	2	1				2	3	9	1	6	8	14	46
6	2						3	5	2	1	3	10	26
7	2						2	1			2	7	14
≥ 8							9					1	10
<b>Totals</b>	<b>14</b>	<b>16</b>	<b>9</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>23</b>	<b>37</b>	<b>15</b>	<b>15</b>	<b>41</b>	<b>44</b>	<b>221</b>

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				1		1	1	1		5
2			1		1					1	1	1	5
3		1	1	1	1	2	3		5	1	14	9	38
4	9	3					1		5	10	41	21	90
5	5					1		5	7	3	10	21	52
6	4							1	1	2	5	14	27
7	2							2	1			15	20
≥ 8								6	2			3	11
<b>Totals</b>	<b>20</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>14</b>	<b>22</b>	<b>18</b>	<b>72</b>	<b>84</b>	<b>248</b>

CALMS - Nil

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		3
2								1	1	1	3	1	7
3	2						3	2	5	5	17	8	42
4	1	3	1				6	6	14	13	14	13	71
5	1	2					3	9	10	7	10	13	55
6	1	1						10	1	1	6	12	32
7			1				1	2	1		4	4	13
≥ 8								8	2			3	13
<b>Totals</b>	<b>5</b>	<b>7</b>	<b>2</b>				<b>13</b>	<b>39</b>	<b>34</b>	<b>27</b>	<b>55</b>	<b>54</b>	<b>236</b>

CALMS - 4

# Frequency Tables XI to XIV for Stanley, Falkland Islands, 1957.

## 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				2	2	2	9
2	1	1								2	11	3	18
3	4	2		1	1		3		12	3	20	16	62
4	8	3					2	1	7	9	17	15	62
5	7	4	1			1	3		5	9	8	14	52
6	6					2	1	1	2	4	1	3	20
7	1	1				3	2	1	2		5	1	16
≥ 8											2	2	4
Totals	27	12	2	1	1	7	11	3	28	29	66	56	243

CALMS - 5

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	1	3
2	1								1		3	2	7
3	1	3	2	3		1	1	4	6	4	12	7	44
4	6	3	3	5	3	5	1	2	6	16	13	5	68
5	3	1			3	4	4	3	9	14	12	5	58
6	1					1	4	6	3	6		2	23
7								6	5	4		4	19
≥ 8								5	3			5	13
Totals	12	7	6	8	6	11	10	26	33	45	41	30	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	4
2		1	1	1				1		1	6	2	13
3	2	1			1		1		1	6	7		20
4		1	3	2	1		3	12	13	19	9		63
5	2	1		1	1	1	3	6	9	22	18	7	71
6	1						2	6	3	7	6	10	35
7							1	4	2	1	3	8	19
≥ 8	4							5	2	2		1	14
Totals	9	5	4	5	3	1	7	25	29	47	59	45	239

CALMS - 9

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	3	9
2	2		1	3	2		2			1	1	1	13
3	5	2	8	5	7	3	1	2	3	5	3	2	46
4	11	3	5	2	2	4	3	1	5	3	5	6	50
5	5	3	1	2		1	8	10	4	3	3	5	45
6	6	1		1	1		12	2		1	3	1	28
7	3	3		3	1		4		5	1		1	21
≥ 8	2	2					10	2	2				18
Totals	36	15	15	16	13	8	40	17	19	15	17	19	230

CALMS - 18

# Frequency Tables XV to XVIII for Stanley, Falkland Islands, 1957.

## 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			3
2							1			2	1	1	5
3	4	2		2	1			1		4	12		26
4	7	1	2					1	9	7	20	9	56
5	10	1	1					5	8	7	15	21	68
6	9						1	6	4	3	3	18	44
7	8							9	1	1	1	6	26
≥ 8	1							6				1	8
Totals	39	4	3	2	1		2	28	23	26	52	56	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											1
2					1				1	1	2	1	6
3		2	1		1					2	8	6	20
4	2							1	6	15	21	6	51
5	3	1						7	14	13	24	8	70
6	1						1	9	8	10	9	7	45
7	1							10	7	5	11	5	39
≥ 8								3	1	5	1	1	11
Totals	7	4	1		2		1	30	37	51	76	34	243

CALMS - 5

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		3	1	5
3		1	3	1			2		1	3	3	5	19
4	1	1		1	1	1	1	4	4	5	14	15	48
5	6				2	3	4	1	7	27	27	77	
6	13				1		2	1	6	3	20	46	
7	8	2					1		5	1	14	31	
≥ 8	2	3					1		1	1	3	11	
Totals	30	7	3	2	1	4	8	10	8	27	52	85	237

CALMS - 3

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
2	1				1		1	1		1		2	7
3		2		2	1	1	4	4	3	4	2	3	26
4	2	3	4	4	4	2	5	11	6	6	8	4	59
5	4	3	8	3	1		8	16	5	5	7	6	66
6	1	3	3				3	11	7	5	10	7	50
7		1	1				1	10	4	1	4	4	26
≥ 8		2	3					1			1	2	9
Totals	9	14	19	9	7	3	22	54	25	22	32	28	244

CALMS - 4

Frequency Table XIX for Stanley, Falkland Islands, 1957.

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	3	6	3	1	1	1	1	2	2	9	11	6	46
2	6	3	4	4	5		7	7	5	12	35	17	105
3	21	22	23	18	17	7	24	23	42	37	120	69	423
4	55	32	24	16	12	14	23	53	93	112	201	121	756
5	53	20	11	7	6	14	36	87	81	109	145	148	717
6	47	6	3	1	1	4	27	77	43	52	50	107	418
7	25	9	2	3	1	3	13	52	33	19	31	71	262
=> 8	10	7	3				20	43	13	8	5	22	131
Totals	220	105	73	50	43	43	151	344	312	358	598	561	2358

CALMS 62.

Frequency Table XX for Stanley, Falkland Islands, 1957.

MONTH	RAINFALL (mms.) : Number of days of 1																																									
	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		1	2	3	5			1			1	13	4	7	1	2		1		1		29	1	1																		
February	9	9	2			1					1	22	2	2	2							28																				
March	4	13	3	2	1	3						26	2	1		1	1					31																				
April	2	14	2		2		1				1	22	3	3					1			29		1																		
May	4	4	3	2	2	1	1	1				18	5	3	1		2		1			30			1																	
June	1	3	2	3		2	1	1	1			14	7	3	2	2	2					30																				
July	3	9	2		2	1	2		1	1		21	1	4	1			1		1		29	1	1																		
August	1	10	1		3	1		1			2	20	4	3	1	2						30	1																			
September	3	13	1	1	1	2			1	1		23	3	1	2	1						30																				
October	5	8	1	1	1	2	1	1	1	1		22	4	1	2	1			1			31																				
November	6	8	2		3		1		1			21	3	5	1							30																				
December	2	6	4		2							14	4	1	2	1		1	1	1	1	26	2	1	2																	
Year	40	98	25	12	22	13	7	5	5	7	2	236	42	34	15	10	5	3	4	3	1	353	5	4	3																	

## Upper Air Means Table I for Stanley, Falkland Islands, 1957.

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	27 9.8	27 5.8	27 1.7	27 -1.7	27 -1.2	27 -5.0	27 -3.8	27 -9.2	27 -9.8	27 -18.0	27 -16.0	27 -26.5	27 -25.9	27 -35.9	27 -36.6	18 -42.8	27 -47.8	27 -48.4	20 -48.0	23 -41.0	27 268	27 9690	27 -54.3
February	24 11.8	24 8.2	24 5.8	24 1.5	24 4.1	24 -2.9	24 2.3	24 -6.0	24 -3.6	24 -11.9	24 -10.1	24 -19.4	24 -19.1	24 -29.1	24 -29.9	24 -38.2	24 -44.8	24 -54.2	24 -55.5	23 -55.8	24 226	24 11110	24 -58.7
March	26 11.7	26 7.4	26 6.2	26 0.2	26 3.8	26 -3.9	26 0.9	26 -6.0	26 -5.4	26 -13.2	26 -12.3	26 -22.2	26 -21.5	26 -30.5	26 -32.5	25 -41.3	26 -42.3	26 -50.4	25 -53.7	21 -54.8	26 248	26 9410	26 -55.1
April	26 6.1	26 4.7	26 3.7	26 -2.0	26 1.8	26 -7.2	26 -0.4	26 -10.6	26 -6.1	26 -17.5	26 -12.0	26 -26.5	26 -22.1	26 -35.5	26 -33.5	25 -39.7	26 -48.0	26 -58.9	26 -56.8	22 -57.2	26 219	26 11180	26 -62.8
May	25 3.5	25 1.8	25 0.1	25 -4.4	25 -2.3	25 -8.3	25 -4.8	25 -13.6	25 -10.1	25 -23.5	25 -17.9	25 -29.1	25 -26.9	25 -35.5	25 -38.5	15 -42.4	25 -51.9	25 -58.3	21 -57.1	10 -59.0	25 248	25 10180	25 -61.2
June	25 1.7	25 0.0	25 -2.7	25 -4.8	25 -5.4	25 -9.1	25 -8.0	25 -13.4	25 -14.7	25 -20.7	25 -21.4	25 -28.4	25 -30.5	24 -38.3	25 -41.2	8 -41.7	25 -55.4	25 -61.6	23 -59.3	18 -62.0	24 247	24 10010	24 -63.7
July	1.5	-0.5	-1.4	-5.7	-3.7	-9.8	-6.4	-13.0	-12.3	-20.7	-19.7	-28.2	-28.9	-38.6	-40.4	10 -44.0	-53.3	-57.1	30 -56.3	20 -58.6	256	9790	-61.0
August	30 1.3	30 -0.2	30 -4.0	30 -6.3	30 -6.0	30 -10.0	30 -8.6	30 -14.8	30 -14.7	30 -23.3	30 -23.0	30 -31.2	30 -32.8	30 -40.5	30 -44.2	2 -45.9	30 -55.4	30 -55.6	27 -56.2	25 -58.7	30 279	30 9200	30 -59.7
September	40 4.2	40 1.3	40 -0.1	40 -6.0	40 -4.8	40 -9.7	40 -6.0	40 -12.6	40 -12.5	40 -20.9	40 -20.3	40 -30.7	40 -30.5	40 -39.2	40 -40.9	40 -44.6	40 -53.8	40 -60.0	37 -58.2	32 -60.2	40 247	40 10100	40 -62.6
October	4.4	1.2	-0.6	-6.2	-3.7	-9.8	-7.0	-12.4	-13.8	-20.1	-21.3	-27.8	-30.3	-36.7	-41.5	13 -41.5	-53.1	-60.2	30 -59.1	25 -59.9	253	9950	-62.0
November	7.8	4.4	4.5	-2.5	1.1	-5.3	-1.3	-9.1	-7.8	-15.6	-15.6	-23.6	-24.7	-32.5	-36.5	20 -42.8	-49.3	-56.9	28 -56.4	27 -57.4	28 237	28 10600	28 -59.9
December	41 7.1	41 5.2	41 1.9	41 -1.2	41 -0.7	41 -4.3	41 -3.0	41 -8.2	41 -9.1	41 -15.1	41 -16.6	41 -23.3	41 -26.0	41 -33.0	41 -37.3	41 -42.5	41 -50.6	41 -50.0	39 -49.4	36 -50.1	41 268	41 9730	41 -56.5
Total	70.9	39.3	15.1	-39.1	-15.0	-85.3	-46.1	-128.9	-119.9	-220.5	-206.2	-326.9	-318.2	-425.3	-453.0	-507.4	-605.7	-671.6	-666.0	-674.7	2996	120950	-717.5
Mean	5.9	3.3	1.3	-3.3	-1.3	-7.1	-3.8	-10.7	-10.0	-18.4	-17.2	-27.2	-26.5	-35.4	-37.7	-42.3	-50.5	-56.0	-55.5	-56.2	250	10080	-59.8

## Upper Air Means Table II for Stanley, Falkland Islands, 1957.

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	27 833	27 1294	27 1774	27 2811	27 3990	27 5334	27 6911	27 8850	27 11520	28 13490	23 16040
February	24 944	24 1412	24 1903	24 2968	24 4159	24 5553	24 7179	24 9170	24 11740	24 13640	23 16220
March	26 912	26 1363	26 1852	26 2911	26 4104	26 5472	26 7081	26 9050	26 11690	25 13530	21 16130
April	26 963	26 1410	26 1911	26 2968	26 4160	26 5526	26 7131	26 9090	26 11670	26 13490	22 16070
May	25 903	25 1362	25 1841	25 2876	25 4050	25 5390	25 6963	25 8880	25 11450	25 13250	19 15830
June	25 848	25 1299	25 1773	25 2797	25 3949	25 5270	25 6821	25 8720	25 11250	23 13050	18 15590
July	26 861	26 1315	26 1806	26 2822	26 3984	26 5317	26 6875	26 8780	26 11350	26 13180	20 15740
August	30 864	30 1328	30 1784	30 2807	30 3956	30 5234	30 6799	30 8680	30 11250	27 13090	25 15650
September	40 892	40 1347	40 1824	40 2855	40 4003	40 5344	40 6916	40 8800	40 11350	37 13150	32 15690
October	30 842	30 1296	30 1772	30 2799	30 3960	30 5276	30 6829	30 8730	30 11290	30 13090	25 15630
November	36 968	36 1398	36 1883	36 2934	36 4122	36 5468	36 7054	36 9020	36 11590	28 13430	27 15990
December	41 833	41 1292	41 1777	41 2775	41 3995	41 5341	41 6922	41 8850	41 11490	39 13370	36 16010
Total	10663	16116	21900	34323	48432	64525	83481	106620	137640	159670	190590
Mean	889	1343	1825	2860	4036	5377	6957	8890	11470	13310	15880



Upper Air Frequency Table II for Stanley, Falkland Islands, 1957.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents :- <sup>1</sup>																																															
		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	to	to									
	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26	29	32	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	5	8	11	14	17	20	23	26									
January							1	10	10	1	4		1																2	8	10		5	1	1														
February								1	2	9	4	4	3	1																2	5	7	7	2	1														
March								1	2	8	6	6	3																2	2	4	8	6	3	1														
April								2	2	2	8	7	4	1															1	3	1	8	8	5															
May						1	4	3	9	5	3																		2	4	3	6	6	4															
June						3	11	7	1	2			1																4	8	7	3	2		1														
July						2	7	5	4	3	3	5	2																	2	4	5	6	4	4	4	2												
August						1	6	6	14	2		1																1	4	6	14	4		1															
September							1	6	15	12	2	4																	2	6	12	10	8	2															
October						3	9	6	8	3		2																	3	8	8	8	2		2														
November							2	4	4	8	4	6	1	1																2	4	4	7	6	4	2	1												
December							3	10	15	6	3		2	1	1															3	6	17	7	3	1	3	1												
Year					3	21	49	77	70	55	41	24	12	3	1													3	19	45	73	71	53	48	29	11	4												

## Upper Air Frequency Table III for Stanley, Falkland Islands, 1957.

MONTH	AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents:- 4																																									
	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		
January					1	2	8	6	4	3	3																1	5	7	5	3	5	1									
February								1	5	8	7	2	1																													
March						1	2	3	4	8	7		1																													
April						1	1	5	4	10	4	1																1														
May					1	3	6	6	1	7	1																															
June				1	4	10	5	2	2	1																																
July				4	1	3	9	4	9	1																																
August					5	7	15	2	1																																	
September					3	4	17	11	4	1																																
October				1	6	7	4	9	2	2																																
November						3	4	6	6	5	5		1																													
December						2	8	15	7	4	3	2																														
Year					6	21	43	79	70	49	50	30	5	3														5	12	28	60	76	48	63	39	21	3	1				

## Upper Air Frequency Table IV for Stanley, Falkland Islands, 1957.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents: - 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	-06	-03	-00	-03	-06	-09	-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						
		-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11	-8	-5	-2	2	-68	-65	-62	-59	-56	-53	-50	-47	-44	-41	-38	-35	-32	-29	-26	-23	-20	-17	-14	-11				
January							1	7	6	4	3	4	2																			4	7	6	3	2	4		1						
February										2	6	6	6	2	2																	2	5	6	6	2	1	2							
March							1			2	4	7	7	5																1	1	3	6	10	3	1	1								
April							1				7	10	4	3	1																1			6	10	4	5								
May						1	1	2	3	3	8	3	4																			3	5	3	5	5	3	1							
June						1	1	5	10	4	1	1	1	1																	1	5	8	5	3	1		2							
July						1	3	4	7	3	5	5	3																		1	1	4	8	6	5	4	2							
August						2	5	8	6	8	1																				1	3	7	10	9										
September						1	2	3	11	11	9	3																			1	1	1	2	10	10	13	1	1						
October				1	2	3	2	6	9	4	4																				1	2	2	2	7	7	3	6	1						
November						1	2	1	5	7	8	3	1	2																			1	4	3	10	7	2	1	2					
December										9	11	8	6	4	2	1																	6	12	9	6	5	2	1						
Year				1	8	16	29	60	62	60	56	36	20	6	2																2	5	8	25	63	63	65	54	36	24	6	3	2		





Upper Air Frequency Table VII for Stanley, Falkland Islands, 1957.

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						2	7	6	7	5							2	1	8	12	4					1		3	2	10	7	4					1	2		2	5	10	5	2
February						1	7	2	7	6	1				2	5	4	3	4	6			1			4	1	3	5	4	3	3				2	4	4	4	4	2	2	2	
March						3	6	6	5	3	3				2	2	5	6	3	3	4	1				3	1	12	2	4	3		1			1	1	3	7	9	3	1		1
April								1	9	11	5	1	1	1	2	3	3	2	5	8			1	2	4	4	2	4	2	3	4			2	5	1	7	1	1	3	4	2		
May								1	12	11	1			1	3		2		5	4	10				3	1	4	2	1	2	5	6	1	3	4	1	2	1	3	3	3	5		
June								4	6	12	3						2	3	8	11	1						1	3	3	6	6	5	1	1			4	5	2	4	6	3		
July						2	3	12	12	2					3	1	2	2	6	10	7				2	1	2	5	6	3	8	4		2	1	4	8	7	2	5	2			
August						1	6	5	13	5						3	1	4	11	10	1					1	2	2	6	2	10	6	1	1	2		7	5	3	1	5	5	1	
September						3	5	11	17	4		1	1	1	5	5	6	7	6	7			1	1	2	2	3	6	6	5	8	5		1	2		1	4	3	10	6	6	6	
October					2	3	9	12	4	1					2	2	5	3	10	7	2				2	1	2	5	5	6	8	2				2	4	2	5	4	5	9		
November					2	5	7	7	9					2	2	1	5	6	8	3	2		1			3	2	4	7	3	6	3		1		2	3	2	1	8	5	4	3	
December					2	4	13	21	1					1	2	1	1	1	5	6	24				2	1	2	1	1	7	15	12		2	1	1	1	1	6	8	14	7		
Year					10	36	54	106	124	26		2	6	18	14	38	35	64	79	95	3		1	4	13	22	24	48	48	54	82	54	4	2	10	21	21	40	43	62	52	64	37	2

Upper Air Frequency Table VIII for Stanley, Falkland Islands, 1957.

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	>
	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	=
	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	1	1	4	6	5	6	2			1	3	1	5	4	4	2	6	1			1	2	4	2	5	4	5	4					2	2	2	6	3	2	1			
February		1	2	2	3	4	3	4	4	1			3	1	2	7		5	4	2				3	4	4	4	3	1	2	3				1	3	5	4	5	4	2			
March			4	2	4	2	2	5	4	2	1	1	1	4	4	2	4	2	5	1	2		1	1	4	3	5	2	3	4	2	1		1	1	4	6	4	5	1	2	1		
April		6	1	5	3	1		6	2	2		2	6	4	2	4	3	2	1	2				7	7	3	1	3	3	2					4	7	5	2	5	1	1			
May	2	8	1	2	1	3	2	2	2	2		1	4	4	3	3	2	2	2	4			2	6	2	3	2	1	7	2				4	2			2	4	3				
June			1	5	2	4	2	2	4	5				4	3	2	3	3	6	4			1		4	6		2	3	7	1				2	1		1	1	3				
July			3	9	3	3	4	3	5	1			1	5	6	3	5	4	1	5	1			4	6	7	2	1	3	6	2			3	4	1		1	3	4				
August		2	2	6	4	3	7	1	4	1		2	2	5	7	5	1	5	3			1	3	7	6	5	2	6					1			1		1						
September		3	3	4	3	11	3	7	2	3		2	5	4	2	7	7	5	3	4			1	6	6	5	5	4	3	6	3			1	2	1	2		4	3	2	2		
October			1	4	2	9	2	7	2	4				1	6	4	5	7	4	3	1		1		2	3	7	5	4	6	2					2	1	3	3	4				
November		2	1	4	1	3	8	5	4	1			1	3	5	2	3	5	6	4			2	4	1	3	4	7	7	1				5	4	3	5	3	2					
December	1	1	1	3	2	5	8	6	11	3		1	2	4	5	7	6	7	8	1		1		2	6	6	9	5	6	5	1		1		4	5	3	5	2	5	1			
Year	4	24	21	47	32	54	46	54	46	25	1	7	27	35	47	50	48	44	50	41	5		6	28	52	49	47	44	40	63	21	2		3	17	34	33	24	39	28	29	4		

Upper Air Frequency Table IX for Stanley, Falkland Islands, 1957.

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		
	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	21.5	1	7	14	4									1	1			2	1			1	6	10	2	1	2	27
February	18.4	3	9	2											1						1	4	1	1	2	4	14	
March	—																										0	
April	—																										0	
May	13.5	9	7	6	1										2	1					1	1		2	6	7	3	23
June	19.2	2	8	2	4										1	1			1	1	2	2	4	2		2	16	
July	—																										0	
August	13.3	11	6	1	3	1								2	3	2		1	1	2	4	1	2	3		3	24	
September	15.0	12	15	11	2										6	1	1				1	2	7	11	5	6	40	
October	20.7	2	6	14	2	1									1						1	1	5	8	4	5	25	
November	16.4	4	17	5	3										8	1					1	1	4	3	6	5	29	
December	14.2	7	20	7	2	1								1		4	3	2	2	1	8	4	3	6	3	1	38	
Year	16.9	51	95	62	21	3								4	23	10	4	5	5	6	19	21	38	42	28	31	236	

## Upper Air Frequency Table X for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED	WINDS at 900 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	25.0	2	6	9	8	2									2		1			1	5	8	6	3	1	27	
February	19.4	1	6	4	2	1														1	2	2	3	3	3	14	
March	—																									0	
April	—																									0	
May	26.3	3	7	3	6	4									2					1	1	1	8	6	3	23	
June	24.5	1	5	3	4	2									1	1		1	1	1	1	5	1	1	2	15	
July	—																									0	
August	20.0	8	8	2	3	3									3	1	1	2	2	2	6	1		4	1	1	24
September	25.0	2	10	13	11	4									3	1	1				7	6	7	9	6	40	
October	30.9	1	2	4	13	5															2	6	10	4	3	25	
November	28.1	1	9	5	9	5									1		1		1		1	5	6	5	9	29	
December	21.3	9	8	12	7	2									4	2		1	2	4	5	8	6	5	1	38	
Year	24.5	28	61	55	63	28									14	7	3	4	3	7	14	25	41	51	37	29	235

## Upper Air Frequency Table XI for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 850 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	27.0	2	3	9	10	3											1			1	5	8	7	3	2	27						
February	23.3		6	4	3	1													1	2	2	5	2	2	14							
March	—																									0						
April	—																									0						
May	29.1	3	6	2	5	6	1													2	1	2	7	5	3	23						
June	24.8	2	4	4	3	2													1	2	1	6		1	2	15						
July	—																									0						
August	19.7	7	10	1	1	5													3	4	4	1	2	4	1	1	24					
September	26.8		8	15	12	5													2	2		8	6	8	7	7	40					
October	33.6		2	4	11	8															3	4	11	5	2	25						
November	28.5	1	7	8	8	5													2		1	5	6	6	8	29						
December	23.2	3	12	12	6	3	1												1	2		6	6	12	3	3	38					
Year	26.2	18	58	59	59	38	2												1	11	3	3	1	4	7	14	28	47	51	35	30	235

## Upper Air Frequency Table XII for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED	WINDS at 800 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 90	100 to 110	120 to 130	140 to 150	160 to 170	>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	28.5	2	2	10	10	3								1				1		1	4	9	9	2		27	
February	23.4		5	4	5														1	1	3	5	2	2		14	
March	—																										0
April	—																										0
May	33.1	1	5	4	6	5	1	1						2				2				4	8	3	4	23	
June	26.3	2	2	6	3	2								1				1			3	6		2	2	15	
July	—																										0
August	20.8	6	8	4	3	3								1		1		1	4	6	1	2	2	2	4	24	
September	27.8	1	8	16	10	5								1	1	1					6	3	12	11	5	40	
October	35.6		1	6	10	8															3	5	11	3	3	25	
November	29.8		7	7	8	7								2				1			1	4	8	8	5	29	
December	25.9	2	7	15	10	3	1							1	1					5	3	17	5	6		38	
Year	27.9	14	45	72	65	36	2	1						9	2	2		2	8	13	22	53	60	39	25	235	

Upper Air Frequency Table XIII for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED  KNOTS	WINDS at 700 mb. : Number of observations at all ascents of :-																							NUMBER OF ASCENTS												
		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		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	32.5		5	5	10	5	2																														
February	25.2		4	5	4	1													1	4	9	8	4	1												27	
March	—																		1	1	5	3	2	2												14	
April	—																																			0	
May	33.4	1	2	6	6	6	2																													0	
June	28.0	2	2	5	3	2	1												2		4	8	5	2												23	
July	—																		1		2	6	2	2	2											15	
August	22.0	4	9	4	4	3																														0	
September	28.7	3	5	10	16	6												1	1	5	5	2	2	4	2										24		
October	37.9			6	7	12													1	1																40	
November	31.4		3	13	7	4	2														3	8	7	5	2										25		
December	28.2	1	9	13	7	7	1													1	2	3	10	6	5										29		
																			1		4	6	17	7	2	1									38		
Year	29.7	11	39	67	64	46	8											5	4	1		1	5	11	30	37	59	40	22					235			

Upper Air Frequency Table XIV for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED	WINDS at 600 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	39.2		4	1	9	10	3													1	3	11	6	6							27	
February	28.4		4	4	3	3															1	1	4	2	4	2						14
March	—																															0
April	—																															0
May	37.2	1	2	3	7	8	2												1		1		3	9	6	1					23	
June	32.2	2	2	3	3	4	1															2	6	3	1						15	
July	—																															0
August	23.1	4	7	4	5	3													1	1	4	5	4	1	3	2					24	
September	31.1	1	7	10	11	11																4	6	11	11	6					40	
October	43.1		1	2	7	12	2	1															3	7	6	8	1				25	
November	33.8		2	12	5	9	1																3	4	8	6	5				29	
December	32.8	1	6	9	11	9	2												1		1	4	16	12	2						38	
Year	33.4	9	35	48	61	69	11	1											1	8	2		1	2	5	8	25	61	58	47	17	235

Upper Air Frequency Table XV for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 500 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 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	47.3		3	2	1	14	6	1																		1	4	9	7	6		27						
February	33.6		2	4	4	3	1																			1		4	3	4	2	14						
March	—																															0						
April	—																															0						
May	45.8	1		5	1	8	8																			1	1	2	3	6	6	3	23					
June	35.0	1	3	2	2	6	1																			3	3	3	4	1	1	15						
July	—																															0						
August	30.3	2	6	2	8	5	1																			1	1	1	2	7	2	4	2	24				
September	35.0	1	7	8	11	10	3																			1		4	9	7	12	5	40					
October	52.2		1	2	2	14	5				1																	3	6	5	9	2	25					
November	35.4		5	4	9	10	1																				1	7	8	4	7	29						
December	37.9		6	7	7	13	5																			1	3	16	10	4	2	38						
Year	39.2	5	33	36	45	83	31	1			1															3	4		1	2	4	9	27	59	54	48	24	235

Upper Air Frequency Table XVI for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED KNOTS	WINDS at 400 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 49	50 to 59	60 to 69	80 to 89	90 to 99	100 to 109	120 to 129	140 to 149	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		
		1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19		20	21	22	23	24	25	26	27	28
January	60.5	1	2		2	9	6	4	2	1							1							3	10	7	6			27	
February	42.5				2	6	5		1								1			1	1	4	1	4	2					14	
March	—																													0	
April	—																													0	
May	53.5	1			2	6	5	5	4										1				1	3	8	7	2			23	
June	37.5	1	1	4	1	7		1											1				3	7	2	2				15	
July	—																													0	
August	39.3		4	6	3	8	1	2											2	2		1	1	3	5	2	4	3	1	24	
September	43.1	1	4	6	7	15	6	1											2		1		1	3	3	8	6	8	8	40	
October	58.2				2	1	11	9	1		1													4	6	4	10	1		25	
November	40.9	1	3	4	7	8	6												1				1	3	8	4	7	5		29	
December	43.8	1	2	9	4	14	5	2	1											1			1	3	14	10	6	2		38	
Year	46.6	6	16	35	37	82	38	16	3	2									7	3	1	3	3	2	8	26	62	46	53	21	235

Upper Air Frequency Table XVII for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED	WINDS at 300 mb. : Number of observations at all ascents of :-																															
		SPEEDS (knots)												CALMS AND LIGHT VARIATIONS	DIRECTIONS (degrees)										NUMBER OF ASCENTS								
	1 to 9	10 to 19	20 to 29	30 to 39	40 to 50	60 to 70	80 to 90	100 to 110	120 to 130	140 to 150	160 to 170	>170	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	72.2			2	2	5	8	5	3	2							1				3	11	7	4	1	27							
February	49.3		2		4	4	3			1								2		1	3	1	4	2	14								
March	—																									0							
April	—																									0							
May	67.0		1		4	6	5	2	5												1	1	9	8	2	23							
June	43.0	1		4	1	6	3									1					4	4	4	1	1	15							
July	—																									0							
August	41.6	1	4	2	4	8	8	2									2	1	1		1	2	1	4	2	5	2	3	24				
September	51.5	1	4	4	5	12	8	5	1										2		1	2	5	7	8	7	7	40					
October	66.0		1	1	1	8	9	4		1												3	3	7	9	3	25						
November	49.0		4	2	7	7	6	3											1			2	4	6	7	7	2	29					
December	50.6		5	5	6	13	3	3	1	1	1										1	4	15	10	5	2	38						
Year	54.5	3	21	20	34	69	48	24	10	5	1										5	2	4	1	3	3	8	29	52	58	47	23	235

## Upper Air Frequency Table XVIII for Stanley, Falkland Islands, 1957.

MONTH	MEAN WIND SPEED  KNOTS	WINDS at 200 mb. : Number of observations at all ascents of :—														CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)										NUMBER OF ASCENTS
		SPEEDS (knots)													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	62.1	1		2	2	7	11	1	2	1									4	8	9	6		27			
February	36.6	1		4	5	2	2							1				2		5	2	3	1	14			
March	—																							0			
April	—																							0			
May	63.9		2	1	1	5	6	6	1									1	1	3	7	9	1	22			
June	47.6			1	5	5	4												1	5	9			15			
July	—																							0			
August	41.9			8	5	8	1			1					1		1	1	4	11	5			23			
September	51.1		1	3	7	14	12	2							1				5	9	12	11	1	39			
October	74.0				2	3	9	7	3											7	7	10		24			
November	43.1		5	2	6	7	5	1	1						1			1	2	8	6	9		27			
December	46.9		2	4	10	15	4	1	2										5	16	13	3	1	38			
Year	51.9	2	10	25	43	66	54	18	9	2					1	2			1	5	19	65	76	56	4	229	

12th Nov 1957



Upper Air Frequency Table XX for Stanley, Falkland Islands, 1957.

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 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	33.0		1	6	8	5													1	5	10	4					20	
February	16.2	1	6	6														1	3	6		1	2				13	
March	—																											0
April	—																											0
May	52.6			2		6	4														1	7	4				12	
June	58.2					4	2														3	3					6	
July	—																											0
August	52.1					10	6	1													3	13	1				17	
September	61.8				1	11	7	4											1	4	15	3					23	
October	70.0					1	6	2													3	3	3				9	
November	32.1		7	5	5	4	2												3	7	11	2					23	
December	27.3		9	8	12	3													2	17	9	3					32	
Year	44.8	1	23	27	26	44	27	7										1	10	49	71	21	2			155		







## Upper Air Frequency Table XXIV for Stanley, Falkland Islands, 1957.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— <sup>22</sup>																																																											
	700 mb. Mean height 2,860 metres. I.C.A.N. height 3,012 metres.																																																											
	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	336 to 338	339 to 341	342 to 344	345 to 347	348 to 350	351 to 353															
January																	3	3	3	6	5	4	1		1	1																																		
February																			1	1			3	2	4	4	6		2	1																														
March																			1	1	4	2	4	4	5	2	1	2																																
April																1	1		1				1	2	3		4	4	4	2	3																													
May																		2	1	3	3	4	3	2	3	2	2																																	
June																1	2		5	5	4	2	3		1	1	1																																	
July																2	1	2	1	2	2	5	3	3	2	5		2	1																															
August												1			1	1	2	1	5	1	1	6	3	3	2	2		1																																
September															1			3	3	2	4	5	8	2	5	2		4	1																															
October											1		1				2	3	5	2	4	3	1	5	3		1																																	
November																2	1		1	1		3	2	1	2	1	3	3	4	4	2																													
December															1	1	2	2	3	8	6	7	1	3	2		3	2																																
Year											2		1	5	6	12	14	29	28	35	41	32	29	31	19	23	24	11	8	6																														



# Upper Air Frequency Table XXVI for Stanley, Falkland Islands, 1957.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 30 metre ranges :— <sup>22</sup>																																																						
	500 mb. Mean height 5,377 metres. I.C.A.N. height 5,574 metres.																																																						
	468 to 470	471 to 473	474 to 476	477 to 479	480 to 482	483 to 485	486 to 488	489 to 491	492 to 494	495 to 497	498 to 500	501 to 503	504 to 506	507 to 509	510 to 512	513 to 515	516 to 518	519 to 521	522 to 524	525 to 527	528 to 530	531 to 533	534 to 536	537 to 539	540 to 542	543 to 545	546 to 548	549 to 551	552 to 554	555 to 557	558 to 560	561 to 563	564 to 566	567 to 569	570 to 572	573 to 575	576 to 578	579 to 581	582 to 584	585 to 587	588 to 590	591 to 593	594 to 596	597 to 599	600 to 602										
January																	3		6	3	4	4	3	2	2																														
February																						1	1				3		2	2	3	5	2	3		2																			
March																			2			1	4	1	3	3	2	4	2	2	2																								
April																			2	1					3	1		4	2	3	2	1	3	3	1																				
May																		1	3	1	3	2	2		4	1	1	3	2	2																									
June												1			1	1	2	2	6	1	3	3	1	2				1				1																							
July										1			1	1	1	2	1	1	1	3	2	4	5		2	2	3	1		1		1																							
August										1			1	1	1	3	2	1	3	2	2	4	3	2	3				1																										
September												1				3		2	3	3	3	5	5	3	1	4	2	1	1	3																									
October									1			1			1	1	4	4	2	2	3	1	1	4	1	1	3	1																											
November														1			2	1		2				1	1	3	2	1	3		2	5	2	2	1	1																			
December														1			2	3	3	5	5	7	2		4	2	1	1	1	2	1	1																							
Year									1		2	3	1	2	6	10	13	18	23	28	24	31	26	19	24	21	15	19	12	18	16	8	8	4	4																				









Upper Air Frequency Table XXXI for Stanley, Falkland Islands, 1957.

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

MONTH

100 mb. Mean height 15,880 metres. I.C.A.N. height 16,180 metres.

	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	1641	1644	1647	1650		
January																					1			1	4	3	1	5	1	1	1	1	1	1	1	1	1						1				
February																																															1
March																																															
April																											2	1																			
May														3	1									3	3	3	2	1																			
June	1						1		1			1	4	3	2		1	2		1				3	3	3	2	1																			
July																		6	1	2	2	2	3	3										1													
August							2		2			2	1		3	2	3	2	1	3	2	1			1		2																				
September		1			1					1		1	2	2	3	1	1	1	3	3	5	2				3																					
October			1		1		1		2	1		1	2	1	1	2	1	1	4	2	1	1					1	1																			
November																				2		4	2			3	1	2	2	3		2	1	2	1												
December																				1			1	3	4	5	5	4	2	2	2	1	3	1					1	1							
Year	1	1	1		2		4		3	5		7	10	9	12	6	7	12	11	14	10	11	9	12	11	20	17	14	16	5	8	9	13	11	7	7	6	2	4		1	1			1		

Means and Extremes Table I for Grytviken, South Georgia, 1957.

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	0100	0400	0700	1000	1300	1600	1900	2200		MAX.	MIN.	MAX.	DATE	MIN.	DATE	
January	991.7	1021.0	2nd	967.0	9th	37.8	36.9	37.7	39.7	41.2	40.8	39.9	38.4	39.1	44.7	34.5	<u>60</u>	<u>22nd</u>	31	1st	
February	1002.8	1019.9	14th	978.4	27th	39.9	38.6	39.6	42.3	45.9	46.0	43.3	41.2	42.1	50.2	36.1	<u>69</u>	<u>21st</u>	30	10th	
March	1000.0	1024.4	10th, 11th	967.5	14th	43.5	44.1	43.9	46.0	47.8	47.4	45.1	44.6	45.3	52.9	38.5	62	12, 30, 31,	32	22nd	
April	999.4	1018.2	10th	977.9	3rd	38.2	38.4	39.1	39.3	41.1	40.9	39.4	38.6	39.4	45.6	33.8	68	7th	27	12th	
May	999.9	1027.1	27th	964.7	15th	37.5	37.0	37.3	36.9	37.6	36.9	36.1	36.9	37.0	43.2	31.2	56	5th, 30th	20	16th	
June	994.3	1014.7	3rd	964.2	25th	29.4	29.8	30.5	31.2	31.6	31.1	30.3	29.9	30.5	35.6	25.0	52	15th	17	28th	
July	995.8	1025.4	29th	960.4	11th	31.5	31.0	31.5	31.2	32.0	31.5	31.3	31.0	31.4	37.1	26.1	50	8th, 23rd	17	30th	
August	1001.3	1024.9	16th	969.5	11th	25.4	24.3	24.0	24.4	28.1	28.1	26.0	25.7	25.7	31.4	21.2	45	31st	<u>15</u>	<u>26th</u>	
September	1005.9	1026.9	14th	972.7	11th	32.5	31.9	31.8	33.1	35.0	35.0	32.8	32.7	33.1	39.2	28.2	50	18th	17	15th	
October	989.9	1012.6	23rd	<u>942.5</u>	<u>27th</u>	34.0	33.3	34.1	35.5	36.9	37.0	35.7	34.7	35.1	41.8	30.1	53	25th	24	17th	
November	1003.2	<u>1032.3</u>	<u>11th</u>	963.7	5th	37.2	36.0	37.5	40.4	43.4	42.7	39.7	38.4	39.4	47.7	33.2	61	25th	25	5th, 6th	
December	992.9	1010.4	10th	976.0	29th	34.6	34.4	35.6	38.0	39.6	39.8	37.5	35.6	36.9	43.2	31.7	66	7th	27	10th	
Total	11977.1	12257.8	—	11604.5	—	421.5	415.7	422.6	438.0	460.2	457.2	437.1	427.7	435.0	512.6	369.6	701	—	282	—	
Mean	998.1	1021.5	—	967.0	—	35.1	34.6	35.2	36.5	38.3	38.1	36.4	35.6	36.3	42.7	30.8	58.4	—	23.5	—	

Means and Extremes Table II for Grytviken, South Georgia, 1957.

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	79	83	81	77	72	74	76	79	78	6.1	6.5	7.0	7.1	7.3	7.3	7.0	6.7	6.9	2.8	2.9	16.5	164.3	33.4	26th
February	78	82	80	71	63	63	71	77	73	4.9	5.7	5.9	5.9	5.6	5.7	5.8	5.7	5.7	6.0	6.3	14.7	50.6	19.2	27th
March	70	68	71	70	66	66	69	68	69	3.9	4.0	5.5	5.7	6.0	5.8	4.8	3.4	4.9	4.9	5.2	12.5	126.5	27.7	16th
April	80	79	75	78	73	73	76	76	76	5.3	5.3	6.0	6.2	6.3	6.2	5.9	5.6	5.9	2.0	2.7	10.3	133.8	35.7	2nd
May	70	73	70	72	71	71	75	75	72	4.7	4.7	5.2	5.8	6.0	5.9	5.3	5.2	5.3	0.8	2.5	8.5	102.2	18.0	15th
June	79	77	75	77	72	75	76	76	76	4.8	5.2	5.6	6.4	6.2	6.0	5.4	4.4	5.5	0.1	1.6	7.4	173.1	<u>79.1</u>	<u>16th</u>
July	79	82	80	75	73	74	75	78	77	6.2	6.1	5.2	5.7	5.9	6.0	4.9	4.7	5.6	0.6	2.4	7.9	204.7	39.2	11th
August	77	83	80	81	75	73	76	77	78	4.5	3.9	4.4	5.3	5.8	5.5	5.3	4.0	4.8	2.0	3.4	9.5	152.2	42.3	11th
September	79	78	80	78	75	80	84	79	79	5.4	5.0	6.0	6.4	6.4	6.6	6.5	5.5	6.0	3.1	4.0	11.6	244.4	67.6	10th
October	77	79	76	74	71	70	71	74	74	6.1	5.8	6.3	6.7	6.5	6.6	6.6	6.0	6.3	4.3	4.7	13.8	191.0	42.4	19th
November	76	78	76	71	65	66	73	75	73	5.2	6.1	6.7	6.5	6.1	5.8	6.0	5.6	6.0	5.6	5.6	15.8	32.6	9.4	18th
December	81	82	78	70	67	64	72	79	74	6.4	6.5	6.5	6.9	6.8	6.7	6.7	6.7	6.7	5.1	5.1	17.0	41.5	17.4	29th
Total	925	944	922	894	843	849	894	913	899	63.5	64.8	70.3	74.6	74.9	74.1	70.2	63.5	69.6	37.3	46.4	145.5	1616.9	431.4	—
Mean	77	79	77	75	70	71	75	76	75	5.3	5.4	5.9	6.2	6.2	6.2	5.9	5.3	5.8	3.1	3.9	12.1	134.7	35.9	—

Frequency Table I for Grytviken, South Georgia, 1957.

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							4	6	16	36	68	33	40	24	6	5	6	4			
February									3	3	7	14	71	52	23	25	26				
March							1	5	7	5	8	41	46	63	38	17	8	9			
April									3	6	23	46	48	50	36	22	6				
May						1	4	7	11	11	21	22	40	31	49	19	16	10	6		
June						1	5	3	13	23	38	45	43	25	19	25					
July						3	5	11	14	28	26	27	28	31	34	29	3	6	3		
August							2	10	19	14	7	14	19	41	59	35	16	12			
September								3	6	8	9	15	34	37	22	37	47	15	7		
October		3	1		7	8	5	7	23	18	28	35	44	49	17	3					
November						1	6	6	15	8	13	18	31	24	32	22	22	18	16	8	
December									23	36	46	35	41	37	27	3					
Year		3	1		7	14	32	58	153	196	294	345	485	464	362	242	150	74	32	8	



Frequency Table III for Grytviken, South Georgia, 1957.

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	3	11	10	11	22	22	21	22	23	25	31	25	20
February				1	1	3	10	10	15	21	25	12	13	18	19	18	26	19	13
March			1	4	3	10	10	12	22	26	23	15	23	17	21	12	31	12	6
April	1				5	3	7	6	15	13	12	19	19	23	18	24	28	26	21
May				2	1	9	5	15	15	16	17	20	24	25	18	33	29	13	6
June							2	5	5	24	20	20	30	32	30	25	29	14	4
July						1	1	5	11	18	15	23	24	33	41	22	17	27	10
August	1					1	2		3	7	22	31	31	47	37	22	8	33	3
September							2	4	8	13	18	23	16	24	30	37	28	19	18
October			1	1	2	4	2	7	11	20	26	16	32	27	16	35	24	18	6
November		1	2		6	5	8	9	14	10	18	24	26	18	24	24	27	18	6
December		1				3	5	11	12	15	16	24	32	31	27	30	18	18	5
Total	2	2	4	8	19	40	57	95	141	194	234	249	291	317	304	307	296	242	118
Mean	—	—	—	1	2	3	5	8	12	16	19	21	24	26	25	26	25	20	10

# Frequency Table IV for Grytviken, South Georgia, 1957.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>11</sup>									LOW CLOUD AMOUNTS <sup>7</sup> (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	1	3	4	38	59	56	86	7	22	41	66	107	2	2	(1) 5	12	(1) 32	(4) 46	(31) 127	(37) 17	6	1	2		5	(1) 23	(3) 22	(26) 41	(30) 2	4		
February				6	5		13	32	46	122	32	54	47	49	37	5	5	2	6	18	(2) 22	(18) 103	(13) 36	25	2	5	1	3	11	(1) 9	(16) 14	(10) 7	6	1	5
March						2	17	34	43	152	63	51	48	38	48				2	9	(2) 25	(25) 123	(8) 26	35	6			1	(1) 9	(20) 28	(8) 5	3	3	22	
April					5	3	19	42	50	121	32	36	42	47	83			1	7	(2) 21	(3) 52	(14) 125	(3) 2	17			4	(2) 14	(3) 33	(12) 41	(2) 1	4		15	
May				3	8	1	13	33	62	128	23	50	51	57	63	4	4	1	6	(1) 8	(8) 53	(22) 145	(7) 10	8	2	4		2	(5) 28	(21) 40	(7) 1	1		13	
June			1	2	7	5	30	40	67	88	30	40	43	42	80	5	5			12	(2) 50	(26) 138	(11) 5	6	1	5		7	(2) 29	(22) 42	(7) 1			23	
July				9	7	5	36	56	52	83	34	43	34	61	65	11	11			8	(3) 44	(18) 147	(3) 4	7	2	11		2	(2) 31	(14) 57	(3) 1	1		25	
August			1	13	4		30	16	43	141	57	51	30	43	52	15	15		5	(1) 9	(1) 30	(20) 121	(2) 11	15	6	15		3	(1) 14	(15) 44	(2) 2	4		36	
September		1	1	14	13	6	12	13	47	133	37	42	48	40	53	20	20	1	12	(3) 21	(4) 36	(38) 107	(1) 6	9	12	20		6	(3) 5	(3) 11	(25) 33		2	2	16
October			1	14	10	6	26	37	52	102	16	50	52	45	69	16	16		2	(8) 52	(32) 146	(6) 1	9	4	16		2	6	(5) 24	(19) 41	(2) 1	1		3	
November	2	2		2	13	2	7	26	66	120	11	51	84	41	46	7	7		7	(2) 29	(6) 36	(52) 141	(11) 9	7	1	7		1	(2) 4	(5) 23	(27) 1			3	
December			1	4	12	1	18	40	77	95	3	24	64	76	77	4	4			28	(16) 63	(99) 142	(26) 8	3		4			(11) 12	(51) 40	(4) 1				
Total	2	3	6	68	87	35	259	428	661	1371	345	514	587	605	780	89	89	(1) 10	59	(10) 210	(59) 509	(394) 1563	(128) 135	147	37	89	1	24	(8) 86	(42) 226	(268) 444	(75) 18	20	12	161
Mean	—	—	1	6	7	3	22	36	55	114	29	43	49	50	65	7	7	(-) 1	5	(1) 17	(5) 42	(33) 130	(11) 11	12	3	7	—	2	(1) 7	(3) 19	(22) 37	(6) 1	2	1	13

Frequency Table V for Grytviken, South Georgia, 1957.

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	DROPT	SHOWERS	True	Pseudo	True	Small	Soft
	>41°F	<23°F	<14°F	>59°F																					
January	1			2	24	20	4	6		22	19	9	9		23		4			14		2	3	1	1
February	1			3	13	9	1	9	1	17	4	4	2		12					6	3			1	
March	7			8	19	13	4	14	1	23	4	4	1		7	2				16				4	
April	2			3	23	15	3	10	3	21	14	4	10		12	1	4		2	19				6	
May	3				23	20	3	13	2	19	16	6	7		12	1	8		4	20	1	2	1	2	2
June					23	13	2	9		7	25	6	1		13	1	25		9	18		4		2	4
July					26	21	7	11	1	9	25	8	5		10	2	31		14	22		9			9
August					18	11	5	6		1	19	1	2		9	5	31		10	11	2	8			1
September					15	9	6	4		11	15	3	4		16	1	30		2	13	6	2	1	2	1
October					24	22	7	15	2	18	25	7	5		15		25		9	23	1	10		2	7
November	1			2	15	10		8		19	11	3	6		15		2		2	20	4	2		2	
December				2	13	8	3	5		13	24	6	9	1	19		5			19	1	4		1	1
Total	15	0	0	20	236	171	45	110	10	180	201	61	61	1	163	13	165		52	201	18	43	5	23	26
Mean	1	—	—	2	20	14	4	9	1	15	17	5	5	—	14	1	14		4	17	1	4	—	2	2

Frequency Table VI for Grytviken, South Georgia, 1957.

MONTH	2 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	7.3		12	67	88	81	21	6		24	26	12		2	3	18	18	37
February	7.6	2	12	57	82	71	20	2	2	26	22	3	3		9	17	17	32
March	11.8	1	32	110	57	48	15	5		14	8	3	5	5	7	48	25	65
April	8.6	4	17	63	77	79	20	9	6	13	7	4	7	3	6	20	30	36
May	11.9	2	27	119	46	54	7	1	2	3	14	5	2	2	4	33	43	78
June	11.2		18	119	52	51	18	1		2	13	8	3	1	7	23	49	64
July	10.9	1	25	110	51	61	33	4	2	5	2	1	3		6	22	35	74
August	5.5		8	43	77	120	17	1		9	8	4	7	4	17	29	14	18
September	6.6		5	65	60	110	18	3	5	5	7	3	4	1	10	23	27	24
October	12.1	4	28	111	57	48	16	1	2	12	13	3	1	4	17	33	44	54
November	8.9		18	62	101	59	25	6	6	27	19	5		6	14	34	39	
December	8.9		15	69	112	52	22	14	3	24	46	9	2	2	7	14	16	37
Total	111.3	14	217	995	860	834	232	53	28	164	185	60	37	24	99	294	352	558
Mean	9.3	1	18	83	72	69	19	4	2	14	15	5	3	2	8	25	29	47

# Frequency Tables VII to X for Grytviken, South Georgia, 1957.

## 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	4	2		7	9	1						3	26
2	8	2		5	2	1		1			2	1	22
3	4	2		10	4	6		1			3	8	40
4	3			2	8	4				8	3	16	44
5	2				3					4	7	7	23
6									3	4	2	2	11
7											1		1
≥ 8													
Totals	21	6		24	26	12		2	3	18	18	37	167

CALMS - 81

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	3		1	8	7		2		1	1	1		24
2	4	1	1	4	1	1			1	1	1		14
3	7	1		14	8	1	1		2	2	2	6	44
4	5				6	1			1	8	3	17	41
5	1								1	4	6	4	16
6									2	1	4	4	11
7												1	1
≥ 8									1	1			2
Totals	20	2	2	26	22	3	3		9	17	17	32	153

CALMS - 71

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		6	3		2	1	1				14
2	2	2		5	2	1	1		1			1	15
3	7	2		2	2	1	2		2		3	7	28
4	4			1		1		2	1	18	8	28	63
5	2				1			1	1	11	9	22	47
6								1		10	5	7	23
7										9			9
≥ 8									1				1
Totals	15	5		14	8	3	5	5	7	48	25	65	200

CALMS - 48

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	1	3	2		3						13
2	6	2	1	2	3			1	1	3	1	2	22
3	8	5	3	7	1		2		1	2	4	9	42
4	3			3	1	1	1		1	4	11	15	40
5	1				1		1		2	4	7	7	23
6			1							5	5	3	14
7									1	1	1		3
≥ 8								2		1	1		4
Totals	20	9	6	13	7	4	7	3	6	20	30	36	161

CALMS - 79

# Frequency Tables XI to XIV for Grytviken, South Georgia, 1957.

## 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					2			5
2	1		1	1		3		1		1	2	2	12
3	2		1	2	10	2	2			3		7	29
4	1				3				4	8	13	35	64
5	1							1		10	19	24	55
6	1									6	7	9	23
7										2	1	1	4
>= 8										1	1		2
Totals	7	1	2	3	14	5	2	2	4	33	43	78	194

CALMS - 54

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	1			1							4	2
3	9			1		3	2			5	12	11	43
4	6			1	7	3	1		5	7	16	38	84
5	2				4	2		1		8	11	7	35
6					1				1	2	4	5	13
7									1	1	2	1	5
>= 8													
Totals	18	1		2	13	8	3	1	7	23	49	64	189

CALMS - 51

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
2	6	1		1			1		1	2	4	2	18
3	8	1	1	3		1			3	3	10		30
4	9	2	1	1	1				3	7	13	30	67
5	5				1				4	9	24		43
6	4								1	5	6	8	24
7	1												1
>= 8									1				1
Totals	33	4	2	5	2	1	3		6	22	35	74	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					1	4
2	9			4	2		2	2	2	16		1	38
3	6	1				3	4	2	4	3	3	9	35
4	1			3	4				4	6	3	4	25
5				1	1				3	3	6	4	18
6				1	1				4	1	1		8
7													
>= 8													
Totals	17	1		9	8	4	7	4	17	29	14	18	128

CALMS - 120

# Frequency Tables XV to XVIII for Grytviken, South Georgia, 1957.

## 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	4
2	3	1	1	4	2	1	1		2	5		1	21
3	8	2	2	1	2	2			1	4	7	6	35
4	5		1		2		2		3	5	6	9	33
5	1		1				1		4	5	13	7	32
6								1		3	1		5
7													
≥ 8													
Totals	18	3	5	5	7	3	4	1	10	23	27	24	130

CALMS - 110

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	2	2	1	1	1	1	2			2
3	7	1	1	8	7	1		2	2	3	2	6	40
4	6			1	1			1	3	13	22	24	71
5									4	8	12	16	40
6					1	2	1		6	4	6	5	25
7						1			1		1		3
≥ 8										3	1		4
Totals	16	1	2	12	13	3	1	4	17	33	44	54	200

CALMS - 48

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		2	1	1						1	8
2	5	3		4	3	1				1	1	4	22
3	15	2	5	16	9	2			1	3	3	15	71
4	1		1	5	5	1			3	5	14	7	42
5	2				1				1	1	7	8	20
6									1	3	8	3	15
7										1	1	1	3
≥ 8													
Totals	25	6	6	27	19	5			6	14	34	39	181

CALMS - 59

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		1						6
2	6	5		6	7	4				1	2	4	35
3	10	6	2	15	20		1			1	4	12	71
4	3	1	1	1	11	4	1			3	5	8	47
5	2			1	7	1		1		1	3	1	22
6									2	3	1	5	11
7									1	1		2	4
≥ 8													
Totals	22	14	3	24	46	9	2	2	7	14	16	37	196

CALMS - 52

Frequency Table XIX for Grytviken, South Georgia, 1957.

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	15	9	2	27	25	3	11	1	3	4	2	6	108
2	54	18	5	36	24	16	6	6	9	31	17	22	244
3	91	23	15	79	63	22	13	6	13	31	46	106	508
4	47	3	4	18	49	15	5	3	31	94	120	232	621
5	19		1	2	19	3	2	4	17	65	107	135	374
6	5		1	2	4	1		2	20	47	50	51	183
7	1				1				4	15	7	6	34
= > 8								2	2	7	3		14
Totals	232	53	28	164	185	60	37	24	99	294	352	558	2086

CALMS 834.

### Frequency Table XX for Grytviken, South Georgia, 1957.

MONTH	RAINFALL (mms.) : Number of days of																																									
	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	1	6	1	1			1		1			11	1	5	2	3	2	1			2	27	1	1				2														
February	7	8	1			2				1		19	4		2					1	1	27		1																		
March	8	4	1	1			1	2			1	18	1		2	1	2		3			27	2		1	1																
April	3	4	3	1		1	1	2				15	4	2			3		1	1	1	27	1				1	1														
May	1	7		2		1						11	4	5	3	1	2	1	1			28	1	2																		
June	2	5			1		3	3		1	2	17	1	2	2	1	1	1	1	1	1	28						1												1		
July	3	2	1		1		1			1	1	10	2	5	3	1	2				1	24	3		1	1	1	1	1													
August	11	2	1	1				2	2	1		20	1		3		2					26	1	1			1	1	1													
September	5	10	1	2	1		1		1			21	1		1		1					24	1		1	1							2			1						
October	2	5		1					1			9	7	3	2	1			2			24	2	3		1			1													
November	4	11	1			2		1	1			20	5	1	1	2					1	30																				
December	3	15				2		1			2	23	3	1					1			28	1	2																		
Year	50	79	10	9	7	4	8	11	6	4	6	194	34	24	21	10	15	3	9	3	7	320	13	10	3	4	6	3	2			2				1			1			

Means and Extremes Table I for Signy Island, South Orkneys, 1957.

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	0000	0300	0600	0900	1200	1500	1800	2100		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	990.1	1012.9	1st, 2nd	961.0	4th	32.5	32.5	33.1	34.1	34.6	34.7	33.8	33.8	33.6	36.8	30.9	47	3rd	27	13th
February	997.4	1018.5	10th	980.2	20th	34.4	34.2	34.3	34.8	35.7	36.0	36.0	35.0	35.1	38.9	31.8	53	13th	27	2nd
March	986.7	1008.7	10th	961.4	3rd	35.4	35.0	34.9	35.2	36.1	35.6	34.7	35.1	35.3	40.2	31.2	52	10th	22	27th, 28th
April	994.9	1013.0	9th	964.4	2nd	31.0	31.1	31.3	31.4	32.1	31.9	30.5	30.7	31.3	36.4	26.4	44	7th	16	3, 4, 11
May	991.7	1018.3	25th	962.5	14th	25.4	25.3	25.4	26.0	26.5	26.3	26.0	25.5	25.8	30.8	20.6	41	5th	-3	15th
June	989.6	1013.8	6th	954.7	16th	10.1	10.7	9.7	10.9	10.9	10.5	9.4	9.2	10.2	17.6	0.5	36	15th	-21	26th
July	988.7	1019.9	29th	964.2	4th	14.4	14.6	14.0	15.1	17.0	18.0	17.9	15.8	15.9	24.7	5.8	40	11th	-23	1st, 2nd
August	1004.9	1016.4	12th	981.3	1st	11.5	10.7	10.0	11.3	13.8	13.4	11.9	11.1	11.7	17.4	2.8	36	16th	-16	23rd
September	996.1	1018.1	14th	974.2	22nd	26.1	25.5	25.5	26.3	27.6	27.7	26.6	26.6	26.5	33.5	20.1	44	17th	0	3rd
October	986.0	1015.9	31st	954.3	8th	21.3	21.1	20.6	21.2	22.1	22.4	21.6	20.5	21.3	26.5	16.1	37	6th, 7th	5	17th
November	999.5	1023.6	12th, 13th	957.8	4th	29.8	29.3	29.3	30.7	32.1	32.4	32.2	31.5	30.9	37.3	26.4	52	21st	5	1st
December	993.0	1016.1	9th	971.4	16th	28.9	28.6	29.0	30.2	31.1	31.4	30.4	29.4	29.9	33.5	27.3	40	24th	21	13th, 14th
Total	11918.6	12195.2	—	11587.4	—	300.8	298.6	297.1	307.2	319.6	320.3	311.0	304.2	307.5	373.6	239.9	522	—	60	—
Mean	993.2	1016.3	—	965.6	—	25.1	24.9	24.8	25.6	26.6	26.7	25.9	25.3	25.6	31.1	20.0	43.5	—	5.0	—

Means and Extremes Table II for Signy Island, South Orkneys, 1957.

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	90	89	88	87	87	86	86	87	87	7.6	7.3	7.3	7.6	7.4	7.4	7.4	7.2	7.4	2.0		18.1			
February	85	87	89	89	87	84	83	85	86	7.1	7.5	7.4	7.7	7.5	7.3	7.1	7.1	7.3	1.7		15.5			
March	90	92	92	92	88	91	92	91	91	7.2	6.9	7.7	7.4	7.0	7.4	7.5	7.3	7.3	1.5		12.7			
April	89	90	89	91	88	87	89	88	89	7.1	7.1	7.8	7.4	7.4	6.8	7.3	6.8	7.2	0.9		9.8			
May	85	85	82	86	83	85	85	86	85	6.5	6.5	6.4	6.7	6.8	6.8	6.3	6.4	6.5	0.7		7.2			
June	82	82	82	83	82	84	85	83	83	6.7	6.3	6.8	7.4	7.1	6.8	6.5	6.4	6.7	0.2		5.7			
July	85	83	87	86	85	86	87	85	85	6.4	6.0	6.3	6.7	6.4	7.1	6.8	6.1	6.5	0.5		6.4			
August	82	85	84	84	81	84	85	84	84	4.3	4.2	3.8	4.8	5.0	5.1	5.1	4.3	4.6	3.2	Not recorded	8.8	Not recorded	Not recorded	Not recorded
September	87	83	85	85	85	86	86	88	86	6.3	5.7	6.5	7.0	7.0	6.8	7.4	6.2	6.6	1.7		11.5			
October	84	84	83	80	84	78	81	84	82	6.9	6.4	6.9	7.0	6.9	6.7	7.0	6.8	6.8	2.3		14.4			
November	90	88	88	84	82	82	87	86	86	7.3	7.2	6.8	6.7	6.6	7.1	6.5	7.2	6.9	4.9		17.2			
December	89	89	87	86	84	84	83	85	86	7.4	7.5	7.9	7.5	7.5	7.2	7.4	6.9	7.4	2.5		18.9			
Total	1038	1037	1036	1033	1016	1017	1029	1032	1030	80.8	78.6	81.6	83.9	82.6	82.5	82.3	78.7	81.2	22.1	—	146.2	—	—	—
Mean	87	86	86	86	85	85	86	86	86	6.7	6.5	6.8	7.0	6.9	6.9	6.9	6.6	6.8	1.8	—	12.2	—	—	—

Frequency Table I for Signy Island, South Orkneys, 1957.

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						4	3	4	18	42	57	48	34	23	5	10					
February										16	36	38	58	32	23	11	10				
March						4	4	19	38	39	48	52	26	12	6						
April						3	2	2	4	9	28	64	62	48	12	6					
May						4	16	7	10	30	39	51	26	25	18	10	12				
June				1	6	14	15	10	12	23	27	31	25	44	23	9					
July						1	10	18	24	60	32	29	28	17	13	11	5				
August										4	11	17	26	39	69	75	7				
September								3	9	37	38	37	17	30	35	23	11				
October				2	5	4	8	15	31	40	50	43	31	11	2	5	1				
November					3	3	4	3	7	6	23	36	33	40	30	11	24	17			
December								9	10	42	45	34	30	52	16	7	3				
Year				3	14	37	62	90	163	348	434	480	396	373	252	178	73	17			



Frequency Table III for Signy Island, South Orkneys, 1957.

MONTH	RELATIVE HUMIDITY : Number of observations, at all hours, in 5% ranges :— 1 & 5																		
	< 15	15 to 10	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								1		4	1	10	22	35	52	64	58		1
February					1		1		3	4	11	15	26	15	38	53	42		15
March								1	1	3	2	5	11	22	40	64	72		27
April								1	3	1	3	11	22	28	35	46	84		6
May									3	6	13	23	33	33	39	50	44		4
June							1	1	3	6	6	13	32	67	62	30	19		
July									5	3	10	20	32	30	38	62	45		3
August						1		3	4	7	11	22	28	34	55	47	36		
September								1	2	1	3	8	8	26	41	55	61	34	
October								2	3	6	7	32	41	40	63	36	18		
November			1					1	1	1	4	5	17	27	33	46	58	38	
December										3	3	26	35	39	48	48	40		8
Totals			1		1	1	4	12	27	50	80	202	335	417	571	619	530		70
Mean			—		—	—	—	1	2	4	7	17	28	35	48	52	44		6

# Frequency Table IV for Signy Island, South Orkneys, 1957.

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	=	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	to 30	to 60	to 120	to 300	to 600	to 1200	to 2400	to 6000	> 6000		
January			1		11	13	35	44	54	90	21	13	40	37	125	12	12	2	4	(1) 43	(10) 72	(24) 69	(17) 25	10	10	12	1	3	(1) 31	(8) 26	(18) 39	(12) 12	5		1									
February				1	7	6	27	42	72	69	10	12	26	44	131	1	1	3	19	(3) 58	(9) 57	(13) 68	(11) 8	8	1	1	3	16	(3) 44	(8) 25	(13) 46	(5) 1		1										
March		2	1	2	9	4	19	96	71	44	11	16	23	43	147	8	9	4	8	(3) 61	(1) 85	(36) 64	(15) 6	8	2	8	3	6	(1) 44	(7) 47	(32) 35	(11) 2		1										
April				5	23	9	46	84	45	28	4	18	28	33	150	7	8	6	21	(1) 21	(4) 59	(14) 11	(3) 11	1	2	7	6	(1) 19	(7) 46	(10) 36	(2) 3	1		1										
May		1	1	3	27	4	36	91	36	49	17	28	32	34	117	20	20	6	62	(4) 81	(10) 48	(6) 14	(3) 2	6	6	20	6	52	(3) 52	(6) 15	(6) 3			9										
June		1	2	1	19	7	48	64	53	45	14	21	23	44	117	21	21	3	30	(2) 88	(10) 64	(10) 23	(6) 3	1	21		24	(2) 59	(9) 34	(10) 11	1	1	10											
July		1	4	10	20	23	51	50	39	50	27	23	17	33	116	32	33	2	41	(2) 69	(6) 56	(13) 20	(6) 6	4	32	2	33	(2) 49	(4) 24	(11) 11	1	1	17											
August				9	15	9	30	27	53	105	71	44	26	39	60	8	8	2	15	(2) 38	(7) 47	(9) 19	(9) 14	10	8	7	7	(1) 23	(6) 25	(8) 15	(8) 4	2	3	47										
September				4	5	7	46	47	71	60	17	27	44	59	91	2	5	2	4	(2) 64	(7) 54	(26) 82	(10) 12	8	3	2	1	3	(2) 47	(19) 22	(7) 29	(7) 2		6										
October				2	5	11	41	70	56	63	18	23	16	55	126	10	10	1	34	(2) 78	(17) 91	(11) 16	(11) 6	9	10		1	28	(2) 52	(17) 58	(10) 6	1		3										
November			2	4	8	5	22	58	66	75	9	35	26	62	108		2	2	(2) 65	(4) 53	(30) 75	(17) 14	5	4	1	2	14	(4) 29	(27) 40	(13) 3														
December				6	10	5	43	76	53	55	3	18	31	54	141	1	1	2	17	(1) 17	(4) 72	(28) 95	(5) 4	3		1	2	13	(4) 34	(20) 57	(5) 1	3												
Total		5	11	47	159	103	444	749	669	733	222	278	332	537	1429	122	130	23	(6) 117	(12) 609	(53) 829	(221) 818	(127) 172	74	52	123	18	(3) 90	(10) 443	(40) 467	(183) 428	(101) 57	15	5	96									
Mean		-	1	4	13	9	37	62	56	61	19	23	28	45	119	10	11	2	(-) 10	(1) 51	(4) 69	(18) 68	(11) 14	6	4	10	1	(-) 7	(1) 37	(3) 39	(15) 36	(8) 5	1	-	8									

Frequency Table V for Signy Island, South Orkneys, 1957.

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 <sup>6</sup> $\wedge$	WIND FORCE <sup>8</sup> $\wedge$	RAIN	SNOW	SLEET	DRIZZLE	TRUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SLOWERS	True	Pseudo	True	Small	Soft	
	> 32°F	< 5°F	< -1°F	> 41°F																						
					Not recorded	Not recorded	Not recorded																			
January	7			3				14		8	25	7	12		28				3	4						2
February	11			7				17	3	9	10	6	15		23				3	2	1					2
March	12			12				30	7	16	14	8	20		26				3	4	2	1		1		1
April	2			2				23	5	8	18	8	16		19					3	2	2				1
May								22	3	7	24	4	10		23	1	Not recorded	Not recorded	11	4		3				2
June		5	10					17	4		26		2		25				18	2		3				1
July		2	9					24	9	2	25	6	6		20	1	Not recorded	Not recorded	25		1	7				
August		5	12					14	3		14		3		14	6	Not recorded	Not recorded	14		2	3				
September				2				19	6	4	18	10	14		19	1			11	4	4	2				
October								16	4	1	29	3	4		21	1			17	1		1				
November	5			10				19	3	9	16	3	12		22				3	1	1	1				1
December								10	1	1	27	4	3		23				6	2		5				
Total	37	12	31	36				225	48	65	246	58	117	0	263	10			114	27	13	29	0	1		10
Mean	3	1	3	3				19	4	5	21	5	10	—	22	1			9	2	1	2	—	—		1

Frequency Table VI for Signy Island, South Orkneys, 1957.

MONTH	2 MEAN WIND SPEED	WIND : Number of observations, at all hours, of :— <sup>1</sup>																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	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	11.0		26	99	81	42	13	20	11	13	38	11	10	10	23	17	34	6
February	15.3	7	58	94	44	21	1		1		8	4	4	4	20	29	110	22
March	19.6	13	100	92	24	19	4	2	1	6	3	1		20	42	93	43	14
April	15.8	12	67	70	58	33	6	1	4	20	4		11	28	23	93	15	2
May	15.9	11	61	88	66	22	9	3	1	22	5		5	34	20	106	13	8
June	12.7	9	45	71	64	51	2	1	1	7	12	8	1	27	24	89	15	2
July	16.6	21	66	74	59	28	6	4	9	28	12	4	4	11	11	108	17	6
August	10.9	5	38	69	56	80	8	1	3	44	10	4	2	9	11	72	4	
September	16.2	13	72	80	35	40	8		3	1		3	1	13	11	109	34	17
October	13.0	5	40	90	92	21	9	11	12	45	20	7	2	20	18	69	12	2
November	13.1	4	51	81	62	42	9	7	3	21	7	5	4	10	9	102	16	5
December	11.7	1	33	92	78	44	11	6	5	45	23	3	14	17	19	55	3	3
Total	171.8	101	657	1000	719	443	86	56	54	252	142	50	58	203	231	942	316	87
Mean	14.3	8	55	83	60	37	7	5	5	21	12	4	5	17	19	79	26	7

# Frequency Tables VII to X for Signy Island, South Orkneys, 1957.

## 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										2
2	1	2		3	6	3	2	4	2	1	5	3	92
3		2	2	5	10	1	7	1	5	5	9		47
4	4	5	4	3	7	5	1	3	10	7	15	2	66
5	4	5	2		7	1		2	5	4	2	1	33
6	2	4		2	8	1			1				20
7	2	2	1								1		6
≥ 8													
Totals	13	20	11	13	38	11	10	10	23	17	34	6	206

CALMS - 42

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		2	8
2					5	2	4	1	4	3	3		22
3	1		1			2		1	1	3	4	1	14
4								1	9	9	18	5	42
5					1				2	8	37	4	52
6							1	3	3	30	3		40
7										12	6		18
≥ 8										6	1		7
Totals	1		1		8	4	4	4	20	29	110	22	203

CALMS - 21

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				2
2	2	1	1	1	1				1	2	1	1	11
3				1				4	2	3	1		11
4	1	1			2			4	4	18	4	1	35
5	1			2		1		3	13	24	11	2	57
6				1				6	13	26	17	4	67
7								2	7	14	8	2	33
≥ 8								1	1	6	1	4	13
Totals	4	2	1	6	3	1		20	42	93	43	14	229

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				1	1					1		2	5
2	1		3	6			1	5	2	2			20
3				5			4	6	4	12	2		33
4	1	1		2			4	6	12	16			42
5	1			3	1		2	6	3	11	1		28
6	1			1	1			3	1	35	7		49
7			1	2	1			2	1	9	2		18
≥ 8	2									7	3		12
Totals	6	1	4	20	4		11	28	23	93	15	2	207

CALMS - 33

# Frequency Tables XI to XIV for Signy Island, South Orkneys, 1957.

## 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			9	2		1	3	2	4			22
3			1	6	1		2	10	2	12	5	3	42
4	4	1		3			1	15	6	12	3	1	46
5	1	1		2			1	5	5	23	3	1	42
6	3			1				1	4	30	2	2	43
7				1	2					14		1	18
≥ 8		1								10			11
Totals	9	3	1	22	5		5	34	20	106	13	8	226

CALMS - 22

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		3		5	1	2	1	2	16
2				1	2	3	1	8	6	2	2		25
3	1			1	2	1		6	3	6	3		23
4	1	1	1		3	1		6	1	17	3		34
5				1				2	6	25	3		37
6				1	1				6	22	3		33
7					1				1	10			12
≥ 8				1	3					5			9
Totals	2	1	1	7	12	8	1	27	24	89	15	2	189

CALMS - 51

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	3		4
2	1		3	4		1			2	3	2		16
3	1		2	4	4	3	4	6	4	8	2	1	39
4		1	2	7	3			3		23	1	1	41
5	1			7	1			1	4	18	1		33
6	1	2	1	3	2				1	26	1	2	39
7	1		1	3	2			1		15	3	1	27
≥ 8	1	1								14	4	1	21
Totals	6	4	9	28	12	4	4	11	11	108	17	6	220

CALMS - 28

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			2						4	1		9
2		1		3	1	1	2	1	2	1			12
3			2	11	1	2		3	3	12	1		35
4	2			7	7	1		2	5	9	2		35
5	2		1	9	1			1		20			34
6	2			8				2		15			27
7				3					1	7			11
≥ 8				1						4			5
Totals	8	1	3	44	10	4	2	9	11	72	4		168

CALMS - 80

## Frequency Tables XV to XVIII for Signy Island, South Orkneys, 1957.

## 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				3		2	1	2	10
2			1			1		2	2			3	9
3	1					1		2	3	6	2	1	16
4	3				1	1		5	2	17	8	3	40
5	3		1					1	3	20	8	4	40
6									1	36	5	3	45
7			1							19	6	1	27
>= 8										9	4		13
Totals	8		3	1		3	1	13	11	109	34	17	200

CALMS - 40

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	8				4		1		1	16
2	2		1	6	4	3	2	2	3	5	1		29
3		2	2	11	6	2		9	4	10	1		47
4	2	2	2	12	5	2		5	6	15	2		53
5	3	4	2	6	4				3	13	1	1	37
6		1	2	2					2	15	4		26
7	2	1								8	3		14
>= 8			2		1					2			5
Totals	9	11	12	45	20	7	2	20	18	69	12	2	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	1	1	2	2			1			3			10
2	1	1	1	3		2	1	2	1	3	5	1	21
3	1	3		9	2	1			1	14			31
4	3	2		5	3	2	1	1	4	20	1		42
5				1	2		1	4	3	21	4	3	39
6	3			1				2		31	2	1	40
7								1		6	4		11
>= 8										4			4
Totals	9	7	3	21	7	5	4	10	9	102	16	5	198

CALMS - 42

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		6
2	2	1		2	2		3	1	2				13
3	1	4	2	12	5	1	6	4	9	12	1	2	59
4	5	1		12	9	1	5	6	7	14			60
5	1		2	3	5			3	1	16		1	32
6	1		1	5	2			1		10			20
7	1			7				2		3			13
>= 8				1									1
Totals	11	6	5	45	23	3	14	17	19	55	3	3	204

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Frequency Table XIX for Signy Island, South Orkneys, 1957.

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	4	2	5	20	3	4	1	12	4	18	8	9	90
2	11	6	10	38	23	16	17	29	29	26	19	8	232
3	6	11	12	65	31	14	23	52	41	103	31	8	397
4	26	15	9	51	39	13	13	57	66	177	57	13	536
5	17	10	8	34	22	2	4	28	48	203	71	17	464
6	13	7	4	25	14	1		16	32	249	73	15	449
7	6	3	4	16	6			8	10	105	39	11	208
= > 8	3	2	2	3	4			1	1	61	18	6	101
Totals	86	56	54	252	142	50	58	203	231	942	316	87	2477

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Means and Extremes Table I for Hope Bay, Grahamland, 1957.

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		1 EXTREMES			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	992.5	1008.8	11th	979.1	29th	29.2	29.2	30.4	31.7	32.4	31.8	30.2	29.7	30.6	34.8	26.4	45	1st	17	25th
February	991.1	1009.8	8th	971.5	20th	33.5	33.8	35.0	37.2	38.2	33.8	37.1	33.6	35.3	41.8	29.5	54	10th	22	25th
March	982.2	996.6	17th	965.6	14th	25.0	25.4	26.1	27.8	28.7	27.1	25.9	25.9	26.5	32.6	21.2	47	1st	-2	26th, 27th
April	991.1	1007.8	22nd	976.0	3rd	29.4	28.0	27.5	29.1	30.5	29.4	28.5	28.7	28.9	38.1	19.9	52	12th, 18th	-1	3rd
May	989.4	1007.0	12th	967.2	30th	17.1	17.0	17.7	18.1	18.4	18.4	18.2	17.6	17.8	25.7	11.1	52	24th	-13	14th
June	991.7	1017.2	5th	<u>950.1</u>	<u>17th</u>	0.9	0.6	0.5	0.4	1.6	1.6	2.2	2.1	1.2	11.4	-6.4	39	9th	-18	16th, 30th
July	987.4	1014.2	28th	962.7	4th	7.6	8.2	7.9	7.8	7.9	7.5	7.4	8.0	7.8	15.1	-0.6	39	29th	<u>-19</u>	<u>1st</u>
August	1006.4	<u>1024.1</u>	<u>11th</u>	979.5	1st	15.0	14.9	14.3	15.3	16.2	15.1	14.6	14.3	15.0	22.2	8.2	38	29th	-11	10th, 11th
September	989.5	1011.9	2nd	962.9	22nd	20.4	19.2	19.3	21.1	22.4	21.0	20.6	20.4	20.5	27.4	11.5	50	16th	-6	11th
October	988.3	1008.2	30th	960.4	13th	9.1	9.4	10.4	12.5	13.2	11.9	10.4	9.4	10.8	16.9	4.4	36	13th	-2	10th, 11th
November	994.7	1014.9	13th	965.5	18th	28.0	28.8	29.5	31.5	32.3	31.2	30.1	28.8	30.0	36.8	23.9	<u>55</u>	<u>14th</u>	2	5th
December	996.3	1010.9	9th	975.3	31st	27.9	28.5	30.3	32.2	32.9	31.8	29.5	28.4	30.2	34.7	25.7	48	5th	20	23rd
Total	11900.6	12131.4	—	11615.8	—	243.1	243.0	248.9	264.7	274.7	260.6	254.7	246.9	254.6	337.5	174.8	555	—	-11	—
Mean	991.7	1010.9	—	968.0	—	20.3	20.3	20.7	22.1	22.9	21.7	21.2	20.6	21.2	28.1	14.6	46.3	—	-0.9	—

Means and Extremes Table II for Hope Bay, Grahamland, 1957.

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	82	79	74	73	75	79	78	78	7.6	7.3	7.2	7.1	6.5	6.6	6.8	7.1	7.0	2.9		19.1			
February	76	78	70	67	67	78	67	77	73	5.6	5.8	6.1	5.6	5.4	4.8	5.1	5.2	5.5	6.1		15.9			
March	83	82	84	78	78	80	80	83	81	5.9	6.3	6.1	6.4	6.6	6.8	6.7	6.1	6.4	3.5		12.7			
April	76	77	78	74	74	78	78	78	77	4.8	5.4	6.6	6.0	5.9	6.5	5.0	4.5	5.6	2.3		9.5			
May	80	81	77	75	76	79	80	79	78	4.7	5.5	6.2	6.4	6.6	6.1	5.6	5.3	5.8	0.8	Not recorded	6.6	Not recorded	Not recorded	Not recorded
June	73	74	73	71	69	70	72	70	71	4.5	4.4	5.3	5.4	4.9	3.7	4.6	4.4	4.7	0.7		4.7			
July	75	75	76	78	78	78	77	75	77	5.2	4.9	5.6	5.7	5.9	5.0	5.0	5.4	5.3	0.6		5.6			
August	79	78	76	77	78	75	77	78	77	3.2	2.5	4.5	4.8	3.7	3.6	3.4	3.1	3.6	3.7		8.4	Not recorded	Not recorded	Not recorded
September	80	82	85	83	84	83	83	85	83	5.5	5.8	6.4	6.4	6.2	5.7	5.4	5.7	5.9	2.7		11.5			
October	78	78	77	74	76	76	79	79	77	6.6	6.5	6.4	6.0	6.0	6.2	6.4	6.2	6.3	4.0		14.7			
November	81	80	78	75	76	75	75	77	77	6.6	6.3	5.5	6.6	6.3	6.4	6.3	5.8	6.2	5.1		17.7			
December	83	81	78	76	73	75	80	81	78	6.3	6.1	6.5	5.9	5.4	5.9	6.3	6.7	6.1	6.0		20.4			
Total	945	948	931	902	902	922	927	940	927	66.5	66.8	72.4	72.3	69.4	67.3	66.6	65.5	68.4	38.4		146.8			
Mean	79	79	78	75	75	77	77	78	77	5.5	5.6	6.0	6.0	5.8	5.6	5.5	5.5	5.7	3.2		12.2			

Frequency Table I for Hope Bay, Grahamland, 1957.

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									4	19	82	85	20	17	21							
February								11	21	25	42	44	38	33	10							
March							12	40	42	66	43	31	14									
April									16	29	60	70	41	18	6							
May									10	11	20	42	35	50	34	41	5					
June				7	1	3	7	16	8	19	31	48	30	33	13	18	6					
July						2	8	22	23	49	55	35	21	13	12	8						
August									1	4	1	10	33	51	74	41	13	20				
September						3	5	20	26	49	27	32	16	27	30	5						
October						5	4	13	10	46	77	49	21	15	8							
November							5	7	8	11	36	37	61	42	4	29						
December									7	28	58	23	16	32	77	7						
Year				7	1	13	51	140	186	387	547	514	345	322	260	108	19	20				



Frequency Table III for Hope Bay, Grahamland, 1957.

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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	100
January						1	3	3	9	11	12	21	30	34	34	51	28	11	
February			2	1	4	4	2	11	10	15	25	15	19	17	28	31	28	10	2
March					2	2	1	4	6	11	11	15	25	17	25	41	48	27	13
April				2	2	2	4	6	8	12	17	11	26	24	44	33	29	19	1
May		1		2		2	2	1	3	5	11	19	34	36	42	53	23	13	1
June					1	3		11	11	22	13	26	35	41	53	16	7	1	
July					1	1	3	2	5	9	18	28	29	38	43	37	22	12	
August			1		3	4	5	10	3	4	10	10	24	34	50	53	22	14	1
September						3	2	3		5	4	4	16	27	45	56	34	40	1
October								2	3	6	22	25	30	42	55	45	14	4	
November			2	3	8	4	4	9	10	8	8	10	15	21	26	31	32	39	10
December							3	3	4	8	14	29	25	28	42	47	31	14	
Total		1	5	8	21	26	29	65	72	116	165	213	308	359	487	494	318	204	29
Mean		—	—	1	2	2	2	5	6	10	14	18	26	30	41	41	27	17	2

# Frequency Table IV for Hope Bay, Grahamland, 1957.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS (metres) <sup>7</sup>															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	1	8	6	16	39	48	97	32	14	31	21	52	127	3	4	7	66	(15) 96	(69) 60	(11) 1	14	4	3	30	(15) 25	(63) 29	(11)	4								
February	1	2	10	7	14	36	50	74	30	24	56	42	43	54	5	5	3	41	(1) 86	(7) 53	(23) 12	(11) 11	2	5	(1) 22	(4) 25	(15) 6	(5)								11	
March	1	10	7	25	9	13	46	49	55	33	8	49	50	31	90	20	21	3	8	(7) 73	(17) 71	(7) 13	1	5	21	3	7	35	(5) 27	(10) 22	(5)					1	2
April			1	8	7	2	44	44	66	38	32	53	54	27	61	10	10	8	4	(2) 48	(9) 99	(19) 12	17	6	10	2	3	17	(2) 17	(5) 23	(13) 5	3	4			9	
May	3	18	7	13	7	15	56	59	45	25	22	57	48	26	72	23	32	3	4	(1) 41	(2) 61	(4) 68	(1) 17	7	4	23	4	24	(2) 31	(2) 21	5					11	
June	3	6	6	5	8	4	59	58	42	49	52	46	44	23	61	14	15		43	(1) 56	(12) 59	(2) 15	6	1	14		27	(1) 16	(10) 17	(1) 6	2					45	
July	7	9	3	19	7	13	56	44	71	19	30	56	45	37	64	16	17	2	47	(2) 75	(30) 74	(2) 3	6	1	16	1	26	29	(16) 11	(2) 2	1					23	
August		5		21	22	8	19	48	74	51	123	41	21	15	40	8	8	9	40	(2) 38	(13) 21	(2) 9	17	24	8	2	22	(1) 10	(5) 6	(2) 2	3	5				82	
September		11	2	22	18	15	56	47	58	11	38	39	27	20	85	22	22	2	72	(3) 44	(17) 52	(3) 10	16	4	22	2	59	(2) 17	(0) 9	(2) 7	6	2			18		
October		12	16	29	15	10	51	32	49	34	21	40	31	32	108	16	16	7	83	(1) 46	(18) 67	(1) 8	7	6	16	6	65	(1) 23	(11) 20	(1) 2	6	3			8		
November			1	11	11	16	33	41	83	44	16	71	26	24	97	6	6	1	30	(3) 83	(27) 96	(8) 8	9	4	6	1	22	(1) 43	(24) 15	(7) 6	1	1			3		
December				5	9	3	14	20	69	128	26	57	40	48	76	1	1		26	(4) 54	(27) 129	(17) 12	14	12	1		18	(2) 18	(27) 31	(10) 5	3	4					
Total	14	73	46	176	126	129	509	570	783	494	406	596	449	387	938	144	157	14	47	(2) 567	(49) 760	(266) 849	(34) 120	125	69	146	5	30	(1) 367	(36) 281	(194) 210	(59) 40	29	20	212		
Mean	1	6	4	15	11	11	42	47	65	41	34	50	37	32	78	12	13	1	4	(-) 47	(4) 63	(22) 71	(7) 10	10	6	12	-	3	(-) 31	(3) 23	(16) 17	(5) 3	2	2	18		

Frequency Table V for Hope Bay, Grahamland, 1957.

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		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	<-1°F	>41°F	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	True	Pseudo	True	Small	Soft
January				4				4		1	16	3	6		23				8		1	5			
February	7			13				15	2	3	8	2	4		11	1			2		3	4			
March	2			5				20	7	8	21	4	3		17				13	1	6	12			1
April	1			11				22	6	5	17		3		12				15	1	2	4		1	
May		2	4	4	Not recorded	Not recorded	Not recorded	21	12	1	18	1			13		Not recorded	Not recorded	21			13			
June		11	15					19	13		20				9	6			14		2	6			
July		6	10					21	16		21		1		11	3			18		2	10			
August		1	3					8	1		8				9	12			10		6	7			
September	1		1	8				21	3		22				17				19		1	13			
October								20	8		28				18	2			27			17			
November	2			11				15	10	3	21	1	1		15	1			6		3	4			
December				3				7	1		18		1		13				4	1		4			
Total	13	20	33	54				193	79	21	218	11	19	0	169	25			157	3	26	99	0	1	1
Mean	1	2	3	5				16	7	2	18	1	2	—	14	2			13	—	2	8	—	—	—

Frequency Table VI for Hope Bay, Grahamland, 1957.

MONTH	<sup>2</sup> MEAN WIND SPEED	<sup>1</sup> 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	8.8		8	86	111	43	16	8	11	8	13	16	55	29	11	13	15	10
February	11.5	3	27	78	86	30	21	15	5	11	7	7	21	15	22	42	13	15
March	14.9	14	41	110	54	29	21	15	3	4	1	9	24	37	44	28	19	14
April	14.2	14	35	95	60	36	12	8	4	2	12	16	17	20	39	45	11	18
May	19.8	47	50	71	54	26	16	7	4	4	2	7	15	59	39	47	10	12
June	15.9	30	46	59	61	44	2	1	1		4	11	26	61	54	23	11	2
July	18.1	54	34	67	64	29	14	2	3	5	7	8	23	73	40	24	5	15
August	9.6	3	22	82	60	81	11	7	2	5	5	21	20	40	33	13	8	2
September	14.1	9	56	75	45	54	19	14	4	2		6	6	33	49	21	17	15
October	17.7	25	68	73	49	33	5	3		2	5	9	16	95	56	15	3	6
November	14.9	18	38	88	57	39	23	11	4	1	8	17	8	18	30	49	16	16
December	6.3	1	22	69	97	59	13	6	1	5	23	24	43	37	14	13	6	4
Total	165.8	218	447	953	799	503	173	97	42	49	87	151	274	517	431	333	134	129
Mean	13.8	18	37	79	67	42	14	8	3	4	7	13	23	43	36	28	11	11

# Frequency Tables VII to X for Hope Bay, Grahamland, 1957.

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	4	1	2	2	2	3	1	1		2	20
2	4	3	5	1	4	9	6	2	1	6	2	2	43
3	5	3		4	2	18	5	2	1	3	1	4	48
4	5	1	2	1	1	7	22	4	2	4	3	4	56
5	1			1	2	2	4	8	3	5	3	1	30
6					2			3	1	1			7
7						1							1
>= 8													
Totals	16	8	11	8	13	16	55	29	11	13	15	10	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		2		2	1	2	3	2	1	4		2	19
2	1	1	2	3		2	4	3	6	5	4	2	33
3	6	3		2	1	7	4	1	3	1	6	3	34
4	5	2	1	3	1	2	2	4	2	9	5	3	39
5	6	3	1		3		3	2	7	11	3		39
6	2			1					3	6			14
7	1	3	1		1	1			2	3		1	13
>= 8		1							1		1		3
Totals	21	15	5	11	7	7	21	15	22	42	13	15	194

CALMS - 30

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		2	1	1	3	1			13
2	1	1	1	1		2	4	1	1	1	1		14
3	6	4		1	1	1	1	2	6	3	2	1	27
4	5	4	1	1	1	3	16	13	6	9	5	5	69
5	4	3			1	2	5	13	7	1	5	2	41
6	1	1					5	5	3	3	5	2	22
7	2	1					6	5	2	3			19
>= 8							5	8		1			14
Totals	21	15	3	4	1	9	24	37	44	28	19	14	219

CALMS - 29

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				7
2	2	1		1	1	5	2	1	1	1		1	15
3	2	3	1	1	9	3	3	2	3	7	2	2	38
4	5	4	1		1	5	9	7	9	9	4	4	58
5	1	1				1	3	7	10	5	4	6	37
6	2							2	8	7	1	3	23
7								1	3	7		1	12
>= 8									4	9		1	14
Totals	12	8	4	2	12	16	17	20	39	45	11	18	204

CALMS - 36

# Frequency Tables XI to XIV for Hope Bay, Grahamland, 1957.

## 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	4	1	3	1	2			13
2	1		2	3	1	1	1	2	2	1	1		15
3	2	1	2	1	4	4	4	1	4			2	26
4	7	6			1	4	6	5	4	4	4	4	41
5	5					1	9	6	6	1	2		30
6	1						11	7	9	1	2		32
7							6	6	5			1	18
≥ 8							21	9	16	1			47
Totals	16	7	4	4	2	7	15	59	39	47	10	12	222

CALMS - 26

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	4		1				8
2	1	1	1		1	2	7	2	1	5	2		23
3					1	4	9	5	3	7		1	30
4					1	2	4	11	9	1	3	1	32
5	1						1	9	7	5	4		27
6						1	1	8	10	4	2		26
7								10	9	1			20
≥ 8								16	14				30
Totals	2	1	1		4	11	26	61	54	23	11	2	196

CALMS - 44

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					4
2	2		1		2	1	4	2	2	2		2	18
3	3	1	1	3	4	6	13	4	4	2		1	42
4	7	1		1	1	1	14	4	2	1	5		41
5							11	4	3	2	5		26
6	1						8	5	3	1	2		20
7							7	7					14
≥ 8							1	26	14	12	1		54
Totals	14	2	3	5	7	8	23	73	40	24	5	15	219

CALMS - 29

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	1	7	1	3	2	2			21
2	1				3	3	3		3				13
3	2	2	1		1	5	7	3	2		2	1	26
4	5	3		2		5	6	13	11	5	2	1	53
5	3		1					13	7	1	4		29
6						1	2	3	4	2			12
7							1	5	4				10
≥ 8										3			3
Totals	11	7	2	5	5	21	20	40	33	13	8	2	167

CALMS - 81

## Frequency Tables XV to XVIII for Hope Bay, Grahamland, 1957.

## 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			5
2	2	3				2	2	2		3	1	1	16
3	5	1	4			1	1	1	7	2	2	1	25
4	8	4		1		2	2	8	5	2	6	3	41
5	3	4						7	8	5	3	4	34
6		2						6	14	5	3	4	34
7							1	4	11	3	2	1	22
≥ 8								5	3			1	9
Totals	19	14	4	2		6	6	33	49	21	17	15	186

CALMS - 54

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		1	1				1	6
2	4	1			1	3	1	4	3	1			18
3		1			1	4	2	8	4	1	1	3	25
4	1	1			1	2	5	16	6	8	1	3	44
5				1			3	16	7	2			29
6							3	9	8	2			22
7							1	28	16	1			46
≥ 8								13	12				25
Totals	5	3		2	5	9	16	95	56	15	3	6	215

CALMS - 33

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		3								6
2	2	5	2		1	3	1			1			15
3	7	2	1		2	8	4			4	3	5	36
4	10	2		1	1	6	2	6	4	10	8	4	54
5	3	1			1		1	5	3	14	2	4	34
6								4	5	4	2		15
7								1	6	13	1	2	23
≥ 8								2	12	3		1	18
Totals	23	11	4	1	8	17	8	18	30	49	16	16	201

CALMS - 39

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	5	1	2	2		1			16
2	6	1		2	6	6	3	4		1	2	1	32
3	5	3		1	7	12	5	8	4	1	2	1	49
4	1			1	5	4	13	8	7	5		1	45
5						1	4	10	2	4	2	1	24
6							13	1					14
7							3	4		1			8
≥ 8									1				1
Totals	13	6	1	5	23	24	43	37	14	13	6	4	189

CALMS - 59

Frequency Table XIX for Hope Bay, Grahamland, 1957.

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	7	9	10	11	17	20	18	13	11	14	4	4	138
2	27	17	14	11	19	30	41	26	20	22	17	11	255
3	43	24	10	13	29	52	74	46	37	35	18	25	406
4	59	28	5	11	13	40	89	110	70	68	42	38	573
5	27	11	2	2	6	5	23	102	77	68	29	28	380
6	7	3		1	2	2	22	60	70	46	15	13	241
7	3	4	1		1	2	6	72	69	36	6	6	206
= > 8		1					1	88	77	44	3	4	218
Totals	173	97	42	49	87	151	274	517	431	333	134	129	2417

CALMS 50%.

Means and Extremes Table I for Admiralty Bay, South Shetlands, 1957.

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	991.3	1009.2	11th	979.1	15th	32.7		33.9		35.6		33.7		34.0	37.5	31.1	47	3rd	25	18th
February	993.7	1009.8	9th	967.0	20th	36.3		37.2		38.4		36.7		37.1	41.1	34.5	49	18th	29	24th, 25th
March	982.4	1000.8	16th, 17th	960.8	24th	34.1		34.8		35.8		34.7		34.9	38.4	31.5	45	11th	19	24th
April	994.0	1009.6	9th	979.5	3rd	33.2		33.1		34.0		33.8		33.5	38.0	30.5	47	18th	22	11, 22, 23
May	989.9	1004.9	26th	967.6	28th	26.8		27.2		27.2		26.4		26.9	31.2	23.2	39	23rd	5	14th
June	991.5	1018.4	5th	959.0	17th	17.3		16.9		15.7		16.4		16.6	22.5	10.4	33	3, 12, 13, 14	-6	30th
July	987.9	1019.5	28th	960.3	15th	17.7		17.9		17.9		17.4		17.7	24.3	10.1	34	21st, 22nd	-10	2nd
August	1007.7	1023.8	11th	988.9	1st	16.0		16.8		18.3		16.3		16.9	23.4	10.2	40	30th	-6	12th
September	989.7	1014.7	2nd	964.5	21st	26.6		27.0		29.2		27.7		27.6	32.8	23.0	40	5th	13	9, 10, 12
October	986.8	1009.8	31st	963.5	1st	20.2		21.1		22.7		21.4		21.3	27.2	15.4	37	22nd	6	14th
November	996.9	1020.6	13th	964.0	18th	31.0		32.1		33.3		31.7		32.0	37.0	28.1	45	14th, 15th	15	4th, 5th
December	996.9	1016.1	9th	970.8	31st	29.8		31.5		32.6		30.1		31.0	34.3	28.5	41	31st	22	15th
Total	11908.7	12157.2	—	11625.0	—	321.7		329.5		340.7		326.3		329.5	387.7	276.5	497	—	134	—
Mean	992.4	1013.1	—	968.7	—	26.8		27.5		28.4		27.2		27.5	32.3	23.0	41.4	—	11.2	—

N.B. No observations at 0500, 1100, 1700, 2300 L.M.T.

Means and Extremes Table II for Admiralty Bay, South Shetlands, 1957.

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		81		86		85	7.4		7.1		6.9		7.1		7.1	3.1		18.4							
February	90		87		82		88		87	6.8		6.8		6.5		6.7		6.7	3.9		15.6							
March	90		85		83		87		86	6.6		7.0		6.7		7.0		6.8	2.1		12.7							
April	88		87		85		86		87	5.9		7.0		7.4		6.6		6.7	0.7		9.7							
May	86		85		84		86		85	6.4		7.3		7.1		6.8		6.9	0.1	Not recorded	6.9	Not recorded	Not recorded	Not recorded				
June	81		80		81		80		81	6.3		7.2		6.9		6.7		6.8	0.1		5.3							
July	84		86		85		84		85	7.1		7.2		7.0		6.3		6.9	0.4		6.1							
August	77		78		72		79		77	4.3		4.9		4.1		4.3		4.4	0.9		8.6							
September	88		87		84		87		87	6.3		6.8		6.4		6.2		6.4	1.7		11.8							
October	84		85		83		81		83	7.1		7.6		7.2		7.1		7.3	1.4		14.6							
November	85		88		85		86		86	6.5		6.8		6.6		6.3		6.5	3.7		17.5							
December	85		81		77		83		81	6.7		7.1		6.5		6.7		6.7	3.4		19.5							
Total	1027		1015		982		1013		1010	77.4		82.8		79.3		77.8		79.2	21.5						146.7	—	—	—
Mean	86		85		82		84		84	6.5		6.9		6.6		6.5		6.6	1.8						12.2	—	—	—

See footnote page 81.

Frequency Table I for Admiralty Bay, South Shetlands, 1957.

MONTH	M.S. L. PRESSURE : Number of observations, at all hours, in fmb. 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								3	14	47	33	8	10	9							
February							2	7	4	9	16	16	21	26	11						
March						4	6	12	26	30	22	16	6	2							
April									1	14	16	36	28	15	10						
May							3	10	9	11	21	27	18	25							
June					2	4	3	7	6	8	17	20	22	16	8	5	2				
July						1	6	11	18	20	12	24	9	8	7	5	3				
August											2	9	13	18	25	34	17	6			
September						1	6	14	17	10	17	8	11	12	13	11					
October						2	5	4	15	38	18	17	15	5	5						
November						1	2	2	3	13	11	15	26	19	12	6	9	1			
December								2	1	3	30	22	8	27	26	4	1				
Year					2	13	33	69	103	170	229	243	185	183	126	65	32	7			

See footnote page 84.



Frequency Table III for Admiralty Bay, South Shetlands, 1957.

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											3	5	12	17	12	24	23	23	5
February										1	3	2	7	10	17	24	18	29	1
March									1	1	2	3	8	18	24	17	15	24	11
April										1	2	3	10	14	17	22	17	27	7
May												6	9	15	27	25	23	16	3
June									1	2	4	2	15	30	25	22	14	2	3
July											1	4	8	17	20	38	16	18	2
August		1	2	1	3		5	1	3	5	2	2	10	19	16	32	21	1	2
September									1		1	4	7	7	25	25	26	23	1
October											3	5	15	22	17	22	29	10	1
November											4	9	20	20	20	23	23	1	1
December											4	5	20	29	19	18	19	10	
Total		1	2	1	3		5	1	6	10	29	50	141	218	239	292	244	184	34
Mean		—	—	—	—		—	—	1	1	2	4	12	18	20	24	20	15	3

See footnote page 84.

# Frequency Table IV for Admiralty Bay, South Shetlands, 1957.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS (metres) <sup>7</sup>															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				2	3	8	25	20	54	12	1	13	29	39	40	2	2			21	(6) 53	(45) 39	(12) 8		1	2			8	(6) 7	(32) 8	(6) 3								
February					2	8	19	26	34	23	2	20	45	18	25	2	3		1	(1) 29	(7) 28	(25) 48	(14) 1		1	2		11	(1) 3	(13) 2	(11) 2									
March		3		2	5	5	30	38	32	9	2	20	48	23	21	10	10	1		(3) 15	(17) 38	(26) 53		2		10		9	(1) 4	(14) 10	(20) 2		1							
April					2	9	30	38	35	6	1	18	36	28	37				(1) 13	(2) 32	(12) 71	(10) 3		1			(1) 7	(1) 17	(6) 16	(8) 3										
May	1			4	3	35	23	39	15	4	5	6	39	29	38	7	7			(4) 22	(9) 41	(3) 48		4		7		16	(3) 15	(5) 10	(1) 2					2		1		
June	2	3		4	8	18	14	33	24	14	4	18	33	26	32	7	7			(1) 3	(12) 40	(15) 55		3		7		2	(4) 11	(10) 6	(2) 2								1	
July		2	3	3	14	20	20	32	19	11	7	12	31	15	52	7	7			13	(2) 51	(15) 38	(14) 8		3	2	7	10	(2) 19	(8) 15	(9) 4					2		2		
August				16	6	3	12	25	33	29	41	22	13	11	32	5	5	1		(1) 4	(7) 27	(4) 39		9	7	5	1	2	(1) 12	(4) 15	(2) 3							25		
September		1	1	8	6	9	15	42	36	2	7	21	29	17	40	6	6			3	(2) 47	(25) 52	(14) 5		4	2	6	1	(1) 25	(17) 7	(8) 3		1						1	
October			5	6	4	23	21	31	30	4		19	30	25	39	11	11			11	(3) 51	(20) 47	(12) 4			11		4	(2) 24	(14) 10	(18) 2									
November				1	3	6	17	38	35	20	10	31	37	17	24	1	1	1	2	(1) 13	(5) 28	(8) 56	(20) 9		9	1		(1) 7	(5) 9	(4) 7	(13) 1			3					1	
December				1		3	8	23	66	23	3	20	35	44	21					6	(5) 35	(27) 70	(20) 10		3			3	(5) 8	(12) 12	(14) 4			2						
Total	3	9	9	47	56	147	234	385	413	157	83	220	406	292	401	58	59	2	4	(3) 153	(41) 471	(222) 616	(104) 72	39	13	58	0	1	(2) 80	(28) 165	(133) 123	(120) 28	13	0	31					
Mean	—	1	1	4	5	12	19	32	34	13	7	18	34	24	33	5	5	—	—	(—) 13	(3) 39	(10) 51	(16) 6	3	1	5	—	(—) 7	(2) 14	(11) 10	(10) 2	1	—	3						

See footnote page 84.

Frequency Table V for Admiralty Bay, South Shetlands, 1957.

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	10			3				5		4	19	4	2		24				1			2			
February	22			12				14	5	12	3	2	15		16					1					
March	15			4				23	7	14	19	10	9		23					5		5		1	
April	9			5				15	2	10	16	6	9		21					4				1	
May	2				Not recorded	Not recorded	Not recorded	21	6	5	28	3	5		22		Not recorded	Not recorded		10	2		4		1
June			1					7	3		27	1	2		21				11	3		6			1
July			4					12	2	1	28	2	4		22	1	Not recorded	Not recorded	16	3		8		1	
August			1					2	1		14	1	1		11	6			5	1		6		1	
September								7	2		23	4	5		19				16	2	1	5		1	
October								13			27	1	1		26				21	2		5			1
November	6			5				9	3	6	13	5	8		20	1			4	1		2			1
December	1							1		1	17	1	3		24					2		1	1	2	1
Total	65	0	6	29				129	31	53	234	40	64	0	249	8			87	26	1	44	1	8	2
Mean	5	—	1	2				11	3	4	19	3	5	—	21	1			7	2	—	4	—	1	—

See footnote page 84.

Frequency Table VI for Admiralty Bay, South Shetlands, 1957.

MONTH	<sup>2</sup> 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	10.2		9	43	55	17	12	4	9	26	22	6	7	5	4	4	7	1
February	13.5	6	11	44	43	8	22	4	22	4	2	1		3	2	9	16	19
March	16.5	11	30	37	37	9	7	10	30	7	11	5	2	2	3	1	16	21
April	13.9	2	20	46	46	6	15	13	16	5	5	3	6	2	5	10	20	14
May	16.2	8	24	52	35	5	6	5	21	6	12	6	9	3	6	3	26	16
June	10.3	7	5	32	52	24	6	5	7	4	16	9	6	2	3	2	24	12
July	12.8	3	18	47	35	21	11	10	16	14	2	1	4	5	17	13	6	4
August	5.8	2	3	20	44	55	7	4	6	15	8	6	2	4	3	10	1	3
September	11.8	2	12	44	57	5	25	33	11	7	4	7	1	3	10	5	5	4
October	12.5		17	58	34	15	8	6	15	31	15	3	2	7	4	9	3	6
November	11.3	4	11	41	48	16	15	5	13	13	9	5	3	2	2	19	12	6
December	9.4		1	54	49	20	4	5	15	17	11	1	16	11	4	10	5	5
Total	144.2	45	161	518	535	201	138	104	181	149	117	53	58	49	63	95	141	111
Mean	12.0	4	13	43	45	17	11	9	15	12	10	4	5	4	5	8	12	9

See footnote page 84.

## Frequency Tables VII to X for Admiralty Bay, South Shetlands, 1957.

## 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	2	1						2	1	9
2	1	2	1	3			3	1					11
3	3	1	2	12	6	3	1		1	3	3		35
4	5		2	2	7	2	2	1	2		2		25
5	2			5	4	1	1	3	1	1			18
6			1	2	4								7
7			2										2
>= 8													
Totals	12	4	9	26	22	6	7	5	4	4	7	1	107

CALMS - 17

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		1			2			1		7
2	4	1		1						1	3	4	14
3	6	2	3	1			1	1	4	2	2	2	22
4	4		5	1		1			1	2	7	6	27
5	4	1	4	1	1						1	5	17
6	1		2							2	2	1	8
7	1		1									1	3
>= 8			6										6
Totals	22	4	22	4	2	1		3	2	9	16	19	104

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						1	2
2	1	3		1	1		1	1	2		1	4	15
3	2	2	1	2	1	4	1		1		2	4	20
4	1	1	4	2	3						1	4	16
5	1	1	8	2	1		1			1	5	1	21
6	1	2	7		2						3	2	17
7	1	1	4		3						2	2	13
>= 8			6								2	3	11
Totals	7	10	30	7	11	5	2	2	3	1	16	21	115

See footnote page 84.

CALMS - 9

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		1	2			9
2	2	3	3		1		1	1	2		1		14
3	7	2	1	1		2			2	3	2	3	23
4	6	2	3	1	2		1	1		2	5		23
5		2	3	2		1	1			1	6	7	23
6		3	3	1						2	4	1	14
7			2								2	2	6
>= 8			1									1	2
Totals	15	13	16	5	5	3	6	2	5	10	20	14	114

CALMS - 6

# Frequency Tables XI to XIV for Admiralty Bay, South Shetlands, 1957.

## 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			1	4
2		1	2	3	1	1	3						11
3	4	1	3	1	1	2	1					5	20
4	1	2	3	1	3		3	1	3	2		9	29
5	1		2	1	3	1	2		1			6	23
6			5		1	2		1	1	1		3	16
7			1		3							3	8
= 8			5									3	8
Totals	6	5	21	6	12	6	9	3	6	3	20	16	119

CALMS - 5

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	1	3			1	2		14
2	2				3	3	1		2		4	5	20
3	1	2	2	2	3	1	2			1	2	2	18
4		1	1	2	5	1		1			3	3	17
5	1		1		3	3					6	1	15
6					1						1	1	3
7											2		2
= 8			1				1	1		4			7
Totals	6	5	7	4	16	9	6	2	3	2	24	12	96

CALMS - 24

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		3
2	1							2	4	2	1		10
3	3	1	3	2		1	3	1	3	3	1	1	22
4	3	5	7	5			2	5	2	2		1	32
5		2	3	6	2			1	1				15
6	3	1		1				2	2				9
7	1		1				1	2	3	1			9
= 8			2									1	3
Totals	11	10	16	14	2	1	4	5	17	13	6	4	103

See footnote page 84.

CALMS - 21

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				2			9
2	1		2	4	1		2			1		2	13
3	3	1	3	4	2	3		1	2	1	1	1	22
4	1	1	1	4	5	1							15
5		1		2	1			1					5
6										2			2
7										1			1
= 8								1	1				2
Totals	7	4	6	15	8	6	2	4	3	10	1	3	69

CALMS - 55

## Frequency Tables XV to XVIII for Admiralty Bay, South Shetlands, 1957.

### 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	5	2			1	1			2		1	1	13
2	4	5	3				1	2	2		2	1	20
3	1	7	2	2	2	4		1	2		1	2	24
4	9	7	5	5	1	1			4	4			36
5	1	3	1			1				1	1		8
6	3	5											8
7	1	3											4
≥ 8	1	1											2
Totals	25	33	11	7	4	7	1	3	10	5	5	4	115

CALMS - 5

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				1	1		6
2		1	1			2		1	2	1		2	13
3	3		1	2	1			3			2	1	15
4	2		4	11	5	2	1	2	2	5		1	35
5	2	1	7	9	3					1			23
6		1	2	6	3	1							13
7		2		2									4
≥ 8													
Totals	8	6	15	31	15	3	2	7	4	9	3	6	109

CALMS - 15

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		1			1	1		7
2	2		1	1	2	2	1			3	2	2	16
3	3	1	2	3	2	2	1		1	7	3		25
4	5	2	4	2	3			2	1	5	5	3	32
5	1	1	1	3		1				1	1	1	9
6	1	2	2	2	1					1			9
7	1									1			2
≥ 8	1		3							1			4
Totals	15	5	13	13	9	5	3	2	2	19	12	6	104

See footnote page 84

CALMS - 16

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		5
2		1	1	2	1		4					3	12
3	2	1	8	6	2		3	4	1	4	1		32
4	2	3	6	7	5	1	5	5	1	2	2	2	41
5				2	1		2	2	2	4			13
6							1						1
7													
≥ 8													
Totals	4	5	15	17	11	1	16	11	4	10	5	5	104

CALMS - 20

Frequency Table XIX for Admiralty Bay, South Shetlands, 1957.

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	14	10	4	6	10	4	10	3	6	7	10	4	88
2	18	17	14	15	11	7	16	9	11	9	17	25	169
3	38	21	31	38	20	22	12	11	14	28	24	19	278
4	39	24	45	43	39	9	12	15	19	26	36	21	328
5	13	11	30	33	19	8	6	7	5	11	26	21	190
6	9	14	22	12	12	3	1	1	3	10	13	7	107
7	5	6	11	2	6		1	2	3	3	9	6	54
= > 8	2	1	24					1	2	1	6	8	45
Totals	138	104	181	149	117	53	58	49	63	95	141	111	1259

See footnote page 84.

CALMS 201. 207.

Means and Extremes Table I for Deception Island, South Shetlands, 1957.

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	991.4	1009.7	11th	979.7	15th	32.6	33.0	34.2	35.2	35.9	35.2	33.7	32.9	34.1	38.0	30.8	45	1st	27	8th, 22nd
February	992.9	1008.4	9th	964.9	20th	35.4	35.4	36.3	37.5	37.7	37.5	35.7	35.5	36.4	40.5	32.8	<u>48</u>	<u>9th</u>	22	24th
March	980.9	998.5	16th	959.7	24th	33.3	33.3	33.6	34.5	35.4	34.4	33.8	33.4	34.0	39.7	29.7	43	5th, 10th	21	29th
April	992.8	1007.4	8th	978.9	3rd	32.7	32.4	32.5	33.0	33.3	33.1	32.5	32.1	32.7	35.7	29.4	40	6th	22	3rd
May	989.1	1003.0	22nd	968.3	8th	27.0	26.4	26.6	27.0	27.3	27.3	27.6	27.1	27.0	30.8	23.5	37	5th, 26th	5	15th
June	990.4	1014.4	6th	958.0	17th	16.8	16.7	17.2	17.2	17.7	17.3	17.0	17.0	17.1	22.2	12.7	33	3rd, 13th	2	30th
July	987.5	1019.1	28th	963.6	15th	15.0	15.5	16.2	<u>15.9</u>	15.5	15.6	15.5	15.4	15.6	26.8	9.3	33	21st	<u>-0</u>	<u>30th</u>
August	1007.3	<u>1022.6</u>	<u>11th</u>	987.5	17th	18.7	18.2	18.1	19.0	19.4	18.8	19.3	18.8	18.8	23.6	13.6	35	15th, 16th	-3	23rd
September	988.5	1014.5	2nd	<u>957.2</u>	<u>21st</u>	26.6	26.5	26.8	27.3	27.7	27.1	27.0	26.6	26.9	30.6	23.8	37	5th, 14th	10	10th
October	986.2	1009.5	31st	964.1	1st	21.1	21.5	22.2	23.0	22.7	21.9	21.6	21.6	21.9	26.0	17.5	34	22nd	6	14th
November	996.3	1020.0	13th	967.2	18th	29.9	30.2	31.2	32.9	32.7	31.9	30.7	30.4	31.2	35.5	27.7	42	10th, 15th	18	5th
December	997.1	1016.0	9th	971.6	31st	30.5	31.2	32.9	34.2	34.4	34.2	32.3	30.9	32.6	36.4	29.2	43	9th	25	7th, 14th
Total	11900.4	12143.1	—	11620.7	—	319.6	320.3	327.8	336.7	339.7	334.3	326.7	321.7	328.3	385.8	280.0	470	—	146	—
Mean	991.7	1011.9	—	968.4	—	26.6	26.7	27.3	28.1	28.3	27.9	27.2	26.8	27.4	32.1	23.3	39.2	—	12.2	—

Means and Extremes Table II for Deception Island, 1957.

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	86	84	82	80	77	79	82	86	82	7.0	6.6	7.3	7.4	7.0	7.0	7.1	7.0	7.1	2.5		18.9							
February	92	90	87	84	85	87	90	90	88	6.9	6.8	7.0	7.1	6.6	6.8	6.5	6.3	6.7	2.3		15.9							
March	89	86	86	85	83	84	88	90	86	5.7	6.9	6.7	6.6	6.5	6.7	6.9	6.7	6.6	2.3		12.7							
April	88	89	87	90	89	88	87	89	88	6.3	6.9	6.7	7.3	7.2	7.1	6.8	6.4	6.8	0.6		9.6							
May	83	82	83	83	83	84	84	84	83	6.3	6.9	7.5	7.3	6.8	6.8	6.4	5.7	6.7	0.0	Not recorded	6.7	Not recorded	Not recorded	Not recorded				
June	82	83	82	82	82	82	83	83	82	7.0	6.8	6.9	7.0	7.2	6.7	6.7	6.6	6.9	0.0		4.9							
July	87	87	87	89	86	86	87	89	87	6.0	6.4	6.9	6.6	6.9	7.0	6.2	6.4	6.5	0.0		5.7							
August	88	89	89	86	87	88	89	89	88	4.9	5.2	5.5	5.2	5.3	6.1	5.1	5.0	5.3	1.6		8.4							
September	91	91	92	92	89	92	91	92	91	6.8	7.2	7.4	6.9	6.6	6.9	7.3	7.0	7.0	1.4		11.5							
October	89	89	86	86	86	87	87	88	87	6.7	7.5	7.3	7.3	7.3	7.2	7.4	7.1	7.2	1.7		14.6							
November	89	90	89	85	87	88	88	88	88	6.6	6.6	6.9	7.0	7.0	6.6	6.5	6.6	6.7	3.5		17.9							
December	83	81	77	75	73	74	79	82	78	6.8	6.3	6.3	5.8	5.9	6.1	5.9	6.5	6.2	5.4		20.1							
Total	1047	1041	1027	1017	1007	1019	1035	1050	1028	77.0	80.1	82.4	81.5	80.3	81.0	78.8	77.2	79.7	21.3						146.9	-	-	-
Mean	87	87	86	85	84	85	86	87	86	6.4	6.7	6.9	6.8	6.7	6.7	6.6	6.4	6.6	1.8						12.2	-	-	-

Frequency Table I for Deception Island, South Shetlands, 1957.

MONTH	M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. <sup>1</sup>																				
	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	34	87	70	15	20	20						
February						1	7	10	7	19	32	41	39	51	17						
March					1	12	14	35	41	68	41	28	8								
April									2	34	47	68	49	25	15						
May								5	23	18	27	54	37	62	22						
June					4	9	7	13	14	24	32	40	39	33	16	9					
July						2	10	27	36	37	38	39	14	15	18	6	6				
August											3	24	33	23	53	61	42	9			
September					1	5	17	24	35	28	24	22	20	23	23	18					
October						2	12	7	26	83	36	38	29	5	10						
November							4	8	8	22	26	31	55	34	19	14	18	1			
December								6	3	3	62	37	15	50	62	9	1				
Year					6	31	76	153	192	379	482	475	378	301	253	117	67	10			



Frequency Table III for Deception Island, South Shetlands, 1957.

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	9	15	30	38	39	42	31	32	5
February										6	5	4	12	10	23	38	41	79	6
March							1				2	11	17	23	35	47	60	50	2
April										3	1	13	6	13	32	42	47	76	7
May							2		2	4	6	14	23	29	32	50	58	25	3
June							3			2	1	11	30	34	48	62	36	12	1
July												4	3	22	32	89	77	20	1
August									1	1	1	1	6	17	29	61	99	32	
September												5	1	8	23	43	57	92	11
October												1	12	21	46	64	70	34	
November										2	2	8	8	15	39	47	46	63	10
December							1	3	4	10	15	19	30	55	36	38	16	15	6
Total							1	9	9	33	42	106	178	285	414	623	638	530	52
Mean							—	1	1	3	3	9	15	24	35	52	53	44	4

# Frequency Table IV for Deception Island, South Shetlands, 1957.

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																	
		0	1-2	3-5	6-7	8	9	0	30 to 30	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	= >																	
		30	60	120	300	600	1200	2400	6000	30	60	120	300	600	1200	2400	6000	30	60	120	300	600	1200	2400	6000																	
January	2	1	6	10	8	46	47	38	90	1	31	48	59	102	7	7	5	(1) 10	(1) 60	(3) 79	(35) 70	(33) 16	1	7	5	9	(1) 39	10	(25) 16	(21) 5	1											
February					7	20	55	56	43	43	4	21	38	37	124			6	20	(1) 77	(6) 78	(30) 35	(7) 4	1	1	5	20	(1) 67	(6) 24	(15) 7	(6) 2	1						2				
March	5	9	14	14	12	50	37	44	63	6	35	48	32	111	16	19	1	11	(10) 79	(26) 75	(2) 55	(2) 4	1	3	16	1	9	(5) 67	(10) 26	(8) 8	2			2				2				
April	2	1	7	8	17	41	63	40	61	5	23	28	30	149	5	9	8	22	(5) 84	(6) 52	(14) 51	(1) 6	3		8	8	22	(4) 70	(6) 30	(9) 12	(1) 3							2				
May	2	5	1	13	10	38	71	55	53	9	21	43	44	125	6	6	1	24	(2) 71	(16) 70	(11) 64	(1) 3	3		6	1	24	(2) 55	(4) 35	(7) 29			2					6				
June	16	15	8	10	10	23	37	62	59	9	14	18	56	115	28	28		6	(1) 49	(1) 60	(8) 87	(1) 1	1		28		6	(1) 44	(1) 43	(4) 45	1							8				
July	12	8	20	14	18	44	58	20	54	24	18	23	58	92	33	33		9	(4) 58	(10) 83	(7) 37	(1) 4	14		33		8	(2) 43	(9) 42	(4) 19	2	4							10			
August			3	6	7	11	35	57	38	91	48	32	36	55	74	3	8	1	(1) 9	(5) 51	(3) 91	(1) 37	5	6	5		(1) 7	(1) 40	(3) 44	(3) 10			2						37			
September	5	2	6	15	11	55	63	31	52	9	23	23	40	134	11	11	3	(1) 8	(1) 94	(6) 83	(11) 32		5	3	11	3	(1) 7	(1) 77	(4) 50	(8) 10			1						1			
October	8	6	3	17	23	43	64	22	62	7	16	15	59	135	16	17		1	(5) 66	(20) 84	(1) 68	(1) 5	3	3	17		1	(4) 52	(18) 48	2	1	1							1			
November				6	10	7	35	58	46	78	14	32	36	33	120	5	6	6	(6) 62	(16) 68	(4) 46	(11) 11	9	4	6	5	25	43	(6) 30	(11) 17	(3) 4	2	1	1						1		
December					4	3	23	21	40	157	29	50	46	51	70	2	2	1	3	(14) 30	(11) 40	(11) 126	(11) 17	21	7	2	1	1	26	22	(11) 29	(11) 8	4	3	1						1	
Total	0	52	50	77	129	150	488	632	479	863	165	316	402	554	1351	132	146	32	(3) 150	(16) 781	(68) 863	(105) 709	(62) 74	67	27	139	29	(2) 139	(13) 630	(48) 408	(125) 250	(42) 29	18	7	71							
Mean	—	4	4	6	11	13	41	53	40	72	14	26	33	46	113	11	12	3	(-) 13	(1) 65	(6) 72	(10) 59	(5) 6	6	2	12	2	(-) 12	(1) 53	(4) 34	(10) 21	(3) 2	1	1	6							

Frequency Table V for Deception Island, 1957.

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 <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	18			3				7		6	19	2	6		25				4	5	5			1		
February	8			9				8	1	12	8	4	16		17					1						1
March	9			3				20	6	10	20	4	8		17				5	6	4	8	1	1		
April	7							19	1	11	9	2	16		20				7	11	5	4				3
May	3				Not recorded	Not recorded	Not recorded	14		5	25	6	6		21				17	4		3				2
June								16	2		22		2		21	1			22	2		10				
July			3					20	8		27				19		Not recorded	Not recorded	29	7						
August								11	5	1	10	2	2		11	3			13	3		3	1			
September								12	2	2	25	5	2		21				19	2		7	1			
October								17	7		28				24				25	7		8				1
November	2			2				13	1	4	16	3	3		13				10		1	3				
December	1			2				7			13	2	2		14	1			2		1			1		2
Total	48	0	3	19				164	33	51	222	30	63	0	223	5			153	48	16	46	4	2		9
Mean	4	—	—	2				14	3	4	19	3	5	—	19	—			13	4	1	4	—	—		1

Frequency Table VI for Deception Island, South Shetlands, 1957.

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	12.9		20	128	93	7	9	12	65	49	3		1	2	17	29	30	24
February	13.9	1	28	134	57	4	22	4	12	8	3			5	32	59	29	46
March	16.1	11	55	112	66	4	21	14	33	11	6	3	3	2	9	54	37	51
April	15.5	2	57	119	53	9	13	4	12	1			2	8	35	49	56	51
May	14.4		39	143	55	11	18	11	30	19	5	3	9	7	38	35	31	31
June	15.0	5	59	98	56	22	5	5	48	23	4	2	5	11	32	61	14	8
July	17.5	12	75	103	38	20	9	1	48	37	5	4	3	6	27	50	24	14
August	12.9	12	41	79	89	27	12	7	22	31	3		2	4	11	32	54	43
September	13.1	8	29	102	80	21	17	36	19	10	3			5	9	25	54	41
October	15.1	11	56	85	77	19	8	10	78	21	3			2	22	32	31	22
November	12.2	1	34	93	91	21	27	10	25	40	1	1		2	2	30	34	47
December	10.7		16	101	121	10	9	5	33	35	13	4	5	3	19	70	19	23
Total	169.3	63	509	1297	876	175	170	119	425	285	49	17	30	57	253	526	413	401
Mean	14.1	5	42	108	73	15	14	10	35	24	4	1	3	5	21	44	34	33

# Frequency Tables VII to X for Deception Island, South Shetlands, 1957.

## 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					2	1	3		9
2	2	1	3	1			1		2	3	9	3	25
3	1	4	7	2	2			1	7	13	10	12	59
4	5	5	13	17	1			1	7	10	10	6	75
5	1	1	29	20					1	1			53
6		1	8	8									17
7			3										3
8													
Totals	9	12	65	49	3		1	2	17	29	30	24	241

CALMS - 7

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			3	2	11
2	1		1	1	2			1		4	1	4	15
3	2	3	1	1					1	10	9	4	31
4	11		4	4				2	8	23	12	28	92
5	5		4	1				1	8	13	4	6	42
6	2		2						11	6	1	2	24
7									4				4
8				1									1
Totals	22	4	12	8	3			5	32	59	29	46	220

CALMS - 4

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	1	2				2	2	14
2	2			1	1	1	1			2	4	3	14
3				2	1				1	14	8	12	38
4	8	6	6	3				1	2	15	17	11	69
5	5	4	4	1		1			3	14	2	9	43
6	2	2	9		2			1	3	4	3	13	39
7		1	5	3					5	1	1		16
8	1		9	1									11
Totals	21	14	33	11	6	3	3	2	9	54	37	51	244

CALMS - 4

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	2	6
2										3	4	2	9
3	1	2	2					2	1	4	11	15	38
4	3	1	3	1			1	2	5	16	24	20	76
5	4								8	15	9	7	43
6	4		3					1	19	10	5	5	47
7		1	2					3	2		1	1	10
8			2										2
Totals	13	4	12	1			2	8	35	49	56	51	231

CALMS - 9

# Frequency Tables XI to XIV for Deception Island, South Shetlands, 1957.

## 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 180	to 220	to 250	to 280	to 310	to 340	
1										1	1	1	3
2	1	2		3		1			2		1	3	13
3	2	3	2	4	2	2	3	1	5	7	4	4	39
4	7	3	6	6	1		6	5	13	13	11	20	91
5	6	2	9	5				1	8	13	6	2	52
6	2	1	10	1	1				9	1	8	1	34
7			3		1				1				5
$\geq$ 8									1				5
Totals	18	11	30	19	5	3	9	7	38	35	31	31	237

CALMS - 11

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 180	to 220	to 250	to 280	to 310	to 340	
1	1	1					1					1	5
2	1	1	3	2		1		1	1	5		2	17
3	1		5	6	2		2	4	2	9	1	2	34
4	2		9	12			2	4	7	22	6	1	65
5		2	10	3	1		1	2	3	6	4	1	33
6		1	18		1				8	11	3	1	43
7			3						6	7			16
$\geq$ 8									5				5
Totals	5	5	48	23	4	2	5	11	32	61	14	8	218

CALMS - 22

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 180	to 220	to 250	to 280	to 310	to 340	
1	1					1	1		1	2	1	2	9
2			1	1	2		1		1	3		1	10
3	1		1	6	1	3		1	1	2	1	2	19
4	1	1	7	6	2		1	5	5	14	6	5	53
5	4		13	5					7	13	5	3	50
6	2		11	8					7	8	8	1	45
7			10	8					3	7	2		30
$\geq$ 8			5	3					2	1	1		12
Totals	9	1	48	37	5	4	3	6	27	50	24	14	228

CALMS - 20

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 180	to 220	to 250	to 280	to 310	to 340	
1	3	1	2	1	3		2			1	6	6	25
2	2	3		4			3			3	6	8	29
3	1		3	1						5	14	11	35
4	2		2	2					1	12	24	18	61
5	3	2	2	3					3	4	1		18
6	1	1	1	5					4	2	1		15
7			7	11				1	1	4	2		26
$\geq$ 8			5	4					2	1			12
Totals	12	7	22	31	3		2	4	11	32	54	43	221

CALMS - 27

# Frequency Tables XV to XVIII for Deception Island, South Shetlands, 1957.

## 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					5	5		13
2	1	1		1	2			1		4	8	6	24
3	1	3							2	7	15	11	43
4	6	9	1	3				1	6	8	18	13	65
5	6	10	3	3				2	1		5	7	37
6	1	5	3	3						1	3	4	21
7		2	3	3									8
> 8			3	5									8
Totals	17	36	19	10	3			5	9	25	54	41	219

CALMS - 21

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		1	2					2	2	3	3	15
2	1	1			1				2	6	7	3	21
3	1	1	3	3				1	4	12	11	5	41
4	2	2	14	3	2			1	3	10	7	9	53
5	1	1	14	6					4	2	3	1	32
6	1	1	15	2					6			1	26
7			3	22	4				1				30
> 8		1	9	1									11
Totals	8	10	78	21	3			2	22	32	31	22	229

CALMS - 19

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		1		1		1	1			3	10
2		1	2	1				1		4	6	7	22
3	9	1	5	9	1					9	13	12	59
4	9	1	9	10					1	6	10	22	68
5	3	5	2	8						2	2	3	25
6		1	7	7						7	3		25
7		3		4						2			9
> 8	1												1
Totals	27	10	25	40	1	1		2	2	30	34	47	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	3	1	1	2	3	1	1			2		3	17
2	3		1	4	1	2				5	7	5	28
3	1	2	7	10	5	1	4	1	5	21	8	11	76
4	2	2	14	9	3			2	11	27	2	4	76
5			4	6	1				1	12	1		25
6			6	4					2	3	1		16
7													
> 8													
Totals	9	5	33	35	13	4	5	3	19	70	19	23	238

CALMS - 10

Frequency Table XIX for Deception Island, South Shetlands, 1957.

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	17	8	6	8	10	5	7	2	4	20	23	27	137
2	14	10	11	18	9	5	3	7	8	42	53	47	227
3	21	16	40	44	14	6	9	11	29	113	105	104	512
4	58	33	83	76	9		10	24	69	176	147	154	844
5	38	27	94	61	2	1	1	6	47	95	42	39	453
6	15	13	93	38	4			3	69	53	36	28	352
7	5	8	58	30	1			4	18	25	6	2	157
= > 8	2	4	35	10					9	2	1		63
Totals	170	119	425	285	49	17	30	57	253	526	413	401	2745

CALMS 175.

Means and Extremes Table I for Argentine Islands, 1957.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)															
	1-2 DAILY MEAN	EXTREMES				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	991.3	1009.1	11th	979.0	28th	33.5	32.7	33.0	33.3	34.7	34.9	31.6	34.3	33.9	37.0	31.5	41	7th	30	8, 9, 17, 23, 24, 26,	
February	991.5	1005.3	8, 9, 25,	966.0	20th	33.5	33.0	33.1	33.2	34.2	34.4	34.6	34.1	33.8	37.9	32.1	47	10th	24	23rd	
March	978.1	994.7	16th	961.0	26th	32.3	32.3	31.8	32.1	32.7	32.4	32.4	32.3	32.3	35.9	29.7	43	10th	22	27th	
April	990.3	1005.7	11th	971.5	28th	29.7	29.7	29.8	29.6	29.8	29.9	30.0	30.0	29.8	33.1	26.7	37	15th, 20th	18	3rd	
May	987.9	1001.5	12th	966.3	6th	26.1	25.5	24.7	25.0	25.3	25.5	25.4	25.8	25.4	29.5	21.8	36	5th	10	14th	
June	991.5	1014.1	5th	963.1	17th	9.7	10.3	9.9	10.0	9.8	9.9	9.7	10.0	9.9	14.8	4.6	30	3, 13, 14,	-12	25th, 30th	
July	988.9	1020.4	28th	967.8	20th	7.2	7.0	6.5	6.6	6.7	6.7	6.0	6.4	6.6	14.6	-2.0	34	7th, 8th	-20	5th	
August	1008.7	1024.5	12th	981.2	17th	6.9	6.4	6.0	5.7	7.7	9.0	7.2	6.7	6.9	14.1	-1.0	37	17th	-20	14th	
September	986.4	1016.2	2nd	958.9	21st	22.4	21.9	22.3	22.8	23.9	24.6	24.3	23.6	23.2	30.2	16.2	38	4th	-7	2nd	
October	986.1	1010.1	31st	963.4	1st	16.9	16.8	16.2	17.3	19.9	20.9	20.1	18.1	18.3	24.5	10.9	34	4th, 22nd	-5	12th	
November	994.4	1015.2	13th	970.6	18th	29.9	28.9	29.2	29.8	30.7	31.4	31.3	30.4	30.2	34.8	26.2	42	13, 14, 15,	10	5th	
December	997.7	1013.3	9th	971.7	31st	29.4	28.1	28.4	29.5	30.7	31.1	30.6	30.5	29.8	33.4	26.9	40	18th	18	8th	
Total	11892.8	12130.1	—	11620.5	—	277.5	272.6	270.9	274.9	286.1	290.7	286.2	282.2	280.1	339.8	223.6	459	—	59	—	
Mean	991.1	1010.8	—	968.4	—	23.1	22.7	22.6	22.9	23.8	24.2	23.9	23.5	23.3	28.3	18.6	38.3	—	5.0	—	

Means and Extremes Table II for Argentine Islands, 1957.

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	87	84	81	79	79	81	82	82	6.6	6.8	6.6	7.0	7.1	7.4	6.8	6.4	6.8	3.7		20.1	—	—	—
February	90	91	91	89	86	86	87	89	89	7.4	7.6	7.7	7.6	7.4	7.4	7.4	7.3	7.5	1.8		16.3	37.8	11.7	7th
March	84	85	85	86	84	84	84	86	85	6.9	7.1	7.4	7.4	7.2	7.5	7.5	7.3	7.3	0.9		12.8	54.2	9.5	10th
April	85	89	88	88	88	89	88	86	88	6.1	6.6	7.1	7.0	7.1	7.4	7.3	6.5	6.9	0.6		9.4	67.5	9.5	13th
May	80	83	84	83	83	82	82	82	82	6.3	7.0	6.5	6.8	7.1	6.9	6.9	6.2	6.7	0.3		6.0	18.5	4.2	25th
June	82	82	80	77	81	82	80	81	81	4.8	5.1	5.5	5.1	5.5	5.7	5.5	5.3	5.3	0.2		3.7	22.3	4.5	13th
July	80	81	84	83	82	80	79	83	81	5.7	5.6	5.0	5.0	6.0	5.5	4.9	5.0	5.3	0.8		4.9	12.9	2.6	12th
August	86	85	85	84	84	84	85	85	85	4.2	4.6	4.3	5.2	4.9	5.4	4.8	4.0	4.7	3.0		8.1	9.9	3.9	16th
September	91	91	90	89	88	87	87	88	89	6.3	6.6	6.9	7.6	7.2	7.4	7.4	7.3	7.1	1.0		11.4	13.2	2.6	14th
October	83	84	84	84	83	84	84	82	83	6.0	6.1	6.8	6.4	6.5	6.8	7.1	6.3	6.5	3.1		14.4	8.2	4.1	23rd
November	87	86	87	88	90	87	90	87	88	7.3	7.2	7.5	7.5	7.6	7.6	7.6	7.4	7.5	1.6		18.5	52.9	11.5	10th
December	85	85	84	81	79	82	82	81	82	6.2	6.0	6.4	6.2	5.8	6.3	6.3	6.0	6.1	6.1		22.1	8.8	4.4	5th
Total	1017	1029	1026	1013	1007	1006	1009	1012	1015	73.8	76.3	77.7	78.8	79.4	81.3	79.5	75.0	77.7	23.1		147.7	306.2	68.5	—
Mean	85	86	85	84	84	84	84	84	85	6.1	6.4	6.5	6.6	6.6	6.8	6.6	6.3	6.5	1.9		12.3	27.8	6.2	—

Frequency Table I for Argentine Islands, 1957.

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									3	31	93	71	14	16	20						
February							10	11	19	14	27	43	44	46	10						
March						22	25	34	56	58	39	14									
April								3	18	39	56	49	42	30	3						
May							9	11	28	29	51	58	58	4							
June						5	11	13	17	27	27	31	38	41	20	10					
July							3	36	38	40	29	40	14	15	13	13	5	2			
August										4	4	25	29	17	23	82	39	25			
September					3	14	23	30	27	26	21	15	24	21	20	6	10				
October						3	10	10	29	84	36	33	23	10	8	2					
November								14	10	25	39	38	61	26	15	9	3				
December									7	3	5	54	38	12	40	81	8				
Year					3	44	91	169	248	382	476	455	359	266	213	130	57	27			



Frequency Table III for Argentine Islands, 1957.

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	1	3	9	14	24	37	46	55	40	17	1	
February											5	7	6	16	20	43	56	70	1
March									3	3	7	7	27	28	25	44	57	46	1
April									2	3	5	5	14	25	24	37	45	63	17
May						2	1	4	4	2	9	7	19	27	48	48	53	23	1
June					1		2		2	6	7	12	18	31	69	66	15	11	
July									1	8	7	10	20	44	65	50	33	10	
August										1		2	8	12	102	74	35	13	1
September								1	1	2	5	7	5	7	20	49	75	65	3
October							1	1	2	6	4	9	9	32	37	84	47	16	
November											1	5	19	24	20	53	51	60	7
December		1			1	2	3	4	4	6	6	13	15	22	24	57	48	41	1
Total		1			2	4	7	11	20	40	65	98	184	305	500	660	555	435	33
Mean		—			—	—	1	1	2	3	5	8	15	25	42	55	46	36	3

## Frequency Table IV for Argentine Islands, 1957.

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		2	1	5	1	15	30	46	148	19	71	34	56	64	4	4	3	(2) 25	(3) 53	(15) 118	(16) 26	19	4			(1) 10	(3) 26	(12) 30	(13) 11	6					
February		2		2	10	8	48	64	44	46	5	25	26	36	127	5	6	1	1	61	(4) 62	(22) 73	(29) 15	5	5	1	1	36	(4) 35	(19) 25	(22) 3	1			
March			4	7	3	63	58	54	59	10	28	33	43	134					39	(7) 85	(48) 105	(11) 9	8	2			26	(5) 44	(38) 31	(5) 3	2	1			
April				18	10	2	55	53	54	48	12	29	26	32	136	5	6	3	13	48	(4) 68	(33) 83	(4) 7	11		6	2	9	42	(3) 45	(27) 30	(2) 1	7		1
May		1		6	6	4	50	58	29	94	21	45	24	20	127	11	11		26	47	(25) 126	(1) 17	16	1	11		20	28	(18) 61	(1) 5	5		4		
June			2	9	8	1	49	42	25	104	32	69	21	9	95	14	14		3	20	(11) 47	(2) 112	(2) 12	10	2	14		1	16	35	(10) 37	(1) 3	2	1	20
July			3	5	12		33	43	35	117	36	92	25	15	73	7	7	1	11	19	(1) 49	(6) 111	(3) 14	17	1	7		8	13	(1) 28	(5) 28	(1) 7	1	18	
August		1	1	13	2	10	33	33	51	104	61	86	21	21	55	4	5	23	(1) 17	(1) 23	(5) 40	(11) 70	9	22	9	4		(1) 12	(1) 21	(4) 19	(7) 2	4	3	30	
September		1	4	21	8	13	59	53	37	44	17	37	28	20	126	12	12	8	14	33	(8) 85	(20) 56	(10) 15	12	1	12	2	13	22	(7) 44	(10) 26	(5) 3	5		4
October			3	11	11	7	26	43	47	100	25	59	28	20	112	4	4	2	18	29	(1) 62	(5) 80	(16) 28	(18) 17	3	4		8	17	(4) 29	(15) 24	(4) 15	4		5
November		1	1	11	5	1	26	67	48	80	11	29	23	27	144	6	6	1	2	38	(8) 73	(10) 84	(40) 25	11		6		2	25	(7) 30	(15) 30	(42) 11	4		
December				1	7	4	14	37	37	148	42	76	23	29	77	1	2	1	9	20	(4) 50	(26) 93	(17) 31	31	5	1		8	16	(4) 15	(10) 14	(10) 10	9		6
Total	0	6	16	102	91	54	471	581	507	1092	291	646	312	328	1270	73	77	(1) 40	(1) 91	(5) 381	(45) 721	(240) 1111	(108) 208	179	24	74	5	50	(3) 255	(39) 380	(201) 355	(122) 67	56	6	88
Mean	-	1	1	9	8	5	39	48	42	91	24	54	26	27	106	6	6	(-) 3	(-) 8	(-) 32	(4) 60	(21) 93	(14) 17	15	2	6	-	4	(-) 21	(3) 32	(17) 30	(10) 6	5	1	7

Frequency Table V for Argentine Islands, 1957.

MONTH	WEATHER: No. of Days <sup>1</sup>																								
	TEMPERATURE <sup>8</sup>				PRECIPITATION <sup>1</sup>			9 WIND FORCE = $\wedge$	10 WIND FORCE = $\wedge$	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 = $\wedge$	>10 mm = $\wedge$	>10.0 mm = $\wedge$														True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-1°F	>41°F																					
January	7				*	*	*	1		6	12	2	2		24					3	1	2		2	
February	11			3	14	9	1	8		14	18	10	6		25	1				2	1	1		2	
March	3			1	17	10		13	4	4	24	5	3		27				4	4	1	3		5	
April					21	17		14	2	7	26	7	8		23				10	6	5	2		3	1
May					20	6		14	3	2	25	3	5		19				14	3		4			2
June		6	6		13	6		5			15	1	2		13	4			10		3	2			
July		7	12		11	5		8	2		21	1	1		9	3			13		2	4			
August		6	12		8	4		2	1	1	9		2		11	4			4		9	1			
September			2		17	4		9	1	3	23	3	5		27		Not recorded	Not recorded	13	2	6	10			1
October			1		6	3		3	1		18				22	2			12	1	5	2		1	
November	1			3	14	9	1	7	1	7	21	5	4		27				3	4	3	5		1	
December					9	2					14	1	1		18	2			1	1		1			
Total	22	19	33	7	150	75	2	84	15	44	226	38	39	0	245	16			84	26	36	37	0	14	4
Mean	2	2	3	1	14	7	—	7	1	4	19	3	3	—	20	1			7	2	3	3	—	1	—

\* Not recorded.

## Frequency Table VI for Argentine Islands, 1957.

MONTH	2 MEAN	WIND : Number of observations, at all hours, of :— <sup>1</sup>																	
	WIND SPEED	FORCES (Beaufort)					DIRECTIONS (degrees)												
	KNOTS	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	5.0		1	18	179	50	22	18	7	16	1	28	45	21	4	11	6	19	
February	10.0		12	74	113	25	50	35	4	12	3	11	39	14	13	3	4	11	
March	12.6	5	35	87	98	23	45	59	9	9	5	21	23	8	9	9	8	20	
April	12.3	3	28	99	76	34	51	38	8	4	4	17	14	18	4	12	14	22	
May	11.4	7	29	74	98	40	19	27	27	5	6	22	40	16	19	12	9	6	
June	7.4		10	49	131	50		7	16	14	5	4	32	54	21	17	17	3	
July	10.0	4	24	48	146	26	2	20	18	7	7	10	34	96	17	4	4	3	
August	5.8	1	8	29	149	61		9	7	7	2	7	37	74	32	7	4	1	
September	9.7	1	26	60	104	49	9	46	40	7	2	6	18	23	9	17	5	9	
October	7.0	1	3	42	155	47	2	24	20	4	5	14	50	39	17	17	4	5	
November	8.4	1	21	74	82	62	11	84	13	5	1	1	18	19	10	9	3	4	
December	2.5			14	159	75	5	11	3	2	10	12	24	57	29	15	4	1	
Total	102.1	23	197	668	1490	542	216	378	172	92	51	153	374	439	184	133	82	104	
Mean	8.5	2	16	56	124	45	18	31	14	8	4	13	31	37	15	11	7	9	

# Frequency Tables VII to X for Argentine Islands, 1957.

## WIND FORCES IN TWELVE 30° SECTORS

TABLE VII — JANUARY.

BEAUFORT FORCE	350 to 400	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	5	10	10	2	3	3	1	2	43	
2	6	7	1	8	12	18	11		4	2	5	74	
3	11	2	3	3	6	15	7	1	3	3	8	62	
4	2	3				2	1				4	13	
5	2	3										5	
6		1										1	
7													
≥ 8													1
Totals	22	18	7	16	1	28	45	21	4	11	6	19	198

CALMS - 50

TABLE VIII — FEBRUARY.

BEAUFORT FORCE	350 to 400	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		2	5	1		1	2	1	21
2	4	2		3	2	2	9	5	1	1	1	1	31
3	9	6	3	6	1	6	17	4	5	1		3	61
4	5	9		1		1	7	2	3		1	4	33
5	22	10	1				1	2	4			1	41
6	7	3											11
7		1											1
≥ 8													
Totals	50	35	4	12	3	11	39	14	13	3	4	11	199

CALMS - 25

TABLE IX — MARCH.

BEAUFORT FORCE	350 to 400	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	5	5	2	1			2	17
2	1	6	3	2	1	5	8	2		1	1		30
3	6	8	5	1	2	5	7	2	5	3	4	3	51
4	13	19		1	1	3	3	2	2	1	1	9	55
5	11	11				3			1	2	1	3	32
6	9	8	1	2								3	24
7	3	6								1	1		11
≥ 8	1	1		3									5
Totals	45	59	9	9	5	21	23	8	9	9	8	20	225

CALMS - 23

TABLE X — APRIL.

BEAUFORT FORCE	350 to 400	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		6	2	1				2	12
2		1		1		5	3	4		1		3	18
3	8	3	3	2	3	5	6	5			4	7	46
4	12	6	2			1	2	4	3	6	7	7	50
5	21	14	1		1		1	3	1	3	2	2	49
6	8	8								2			18
7	2	4	1					1			1	1	10
≥ 8		2	1										3
Totals	51	38	8	4	4	17	14	18	4	12	14	22	206

CALMS - 34

# Frequency Tables XI to XIV for Argentine Islands, 1957.

## 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			4	7	2	1	1	1		18
2	3	2	1	1	3	3	4	3	4	3	1	1	29
3	4	4	2	1	1	6	13	6	6	5	3		51
4	7	8	3	1		3	6	3	4	3	3	4	45
5	4	8	8		1		2	2	3			1	29
6		2	6			2	2				1		14
7		1	5	1	1	3	4						15
≥ 8		2	1	1		1	2						7
Totals	19	27	27	5	6	22	40	16	19	12	9	6	208

CALMS - 40

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			8	13	1	1	1		26
2		1		8	2	3	7	15	6	2	6	1	51
3		1	2	5	2		10	20	4	3	5	2	54
4		2	3		1	1	5	5	7	4	5		33
5		1	3				2	1	3	6			16
6		2	3							1			6
7			4										4
≥ 8													
Totals		7	16	14	5	4	32	54	21	17	17	3	190

CALMS - 50

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			2	2	1	10	1	3	1		21
2				3	2	8	14	22	1				50
3		1	1	1	3		12	48	7		1	1	75
4		3	1	1			6	15	6		1	1	34
5		5	4				1	1	1		1	1	14
6		5	5	2					1	1			14
7	1	5	4										10
≥ 8	1		3										4
Totals	2	20	18	7	7	10	34	96	17	4	4	3	222

CALMS - 26

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	15	12	4	1		52
2				1	1	2	12	20	5	2	1		44
3				1		1	15	29	6		1		53
4		2					10	8	1				21
5		2	3					1		1	1		8
6		4	1	2									7
7			1										1
≥ 8				1									1
Totals		9	7	7	2	7	37	74	32	7	4	1	187

CALMS - 61

# Frequency Tables XV to XVIII for Argentine Islands, 1957.

## 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				1	3	3	2	2	3		17
2	2	2	3	2	1	4	8	9	4	8	1	2	46
3	1	7	2	1		1	7	9	2	7	1	3	41
4	2	12	10	1	1			2				3	31
5	1	12	13	1				1				1	29
6	1	2	11	1									15
7	2	8		1									11
≥ 8			1										1
Totals	9	46	40	7	2	6	18	23	9	17	5	9	191

CALMS - 49

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			3	5	8	9	2	5	1	1	36
2			2	1	1	5	18	11	7	7	2	3	57
3	1	11	2	2		4	21	13	3	5			62
4		6	2	1			1	5	4			1	20
5	1	5	11				2	1	1		1		22
6			3										3
7													
≥ 8					1								1
Totals	2	24	20	4	5	14	50	39	17	17	4	5	201

CALMS - 47

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		2			8	5	3	1			22
2		3	1	1	1	1	4	2	1	4		1	19
3	5	11	2	1			5	7	3	4		3	41
4	3	32	4	1			1	4	3		1		49
5	2	19	1					1			2		25
6	1	11	3										15
7		4	2										6
≥ 8		1											1
Totals	11	84	13	5	1	1	18	19	10	9	3	4	178

CALMS - 62

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	1	3	2	10	12	8	7	4	1	54
2	2	3	1	1	2	4	11	34	12	7			77
3		1			2	3	3	10	8	1			28
4	1	4	1		3	2		1	1				13
5						1							1
6													
7													
≥ 8													
Totals	5	11	3	2	10	12	24	57	29	15	4	1	173

CALMS - 75

Frequency Table XIX for Argentine Islands, 1957.

WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually <sup>1</sup>

BEAUFORT FORCE	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	8	19	8	14	11	41	77	75	34	28	15	9	339
2	18	27	12	32	16	54	116	138	43	40	15	17	528
3	45	55	25	24	14	37	131	160	48	32	22	30	623
4	45	106	26	7	6	11	33	54	41	16	19	33	397
5	64	90	45	1	2	4	9	11	16	11	8	10	271
6	26	45	34	7		2	2		2	5	1	4	128
7	8	30	16	2	1	3	4	1		1	2	1	69
= > 8	2	6	6	5	1	1	2						23
Totals	216	378	172	92	51	153	374	439	184	133	82	104	2378

CALMS 542.

## Upper Air Means Table I for Argentine Islands, 1957.

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	1.3	-1.6	-4.5	-7.1	-7.3	-10.2	-10.4	-12.7	-15.5	-19.2	-21.4	-25.4	-29.9	-35.0	-40.6	-43.3	-53.3	-44.2	-43.4	-42.2	275	900	-54.6
February	0.9	-1.0	-3.7	-5.4	-6.1	-8.3	-8.3	-10.4	-12.6	-16.6	-18.8	-22.8	-30.7	-33.0	-37.3	-41.2	-48.1	-46.2	-45.1	-46.3	281	930	-53.3
March	0.3	-1.6	-4.2	-5.8	-7.3	-8.9	-10.5	-12.0	-16.8	-18.9	-24.1	-27.9	-32.5	-37.0	-42.5	-43.9	-50.9	-45.1	-45.6	-47.1	302	840	-45.6
April	-1.3	-3.2	-5.1	-7.4	-7.4	-10.0	-9.8	-12.6	-14.5	-19.0	-21.5	-23.7	-30.4	-36.9	-40.7	-42.2	-50.6	-52.0	-51.7	-53.3	277	930	-57.3
May	-3.7	-6.0	-7.9	-10.3	-10.5	-13.0	-12.9	-16.1	-18.1	-24.1	-25.6	-30.9	-34.5	-39.2	-45.4	-43.3	-57.0	-57.1	-60.4	-63.3	267	930	-63.0
June	-14.0	-17.0	-14.9	-17.9	-16.0	-19.9	-17.5	-21.5	-21.4	-26.6	-27.8	-29.8	-36.4	-41.0	-46.7	-43.0	-59.0	-65.2	-65.5	-67.8	249	960	-66.0
July	-14.4	-15.7	-14.2	-16.3	-15.8	-17.9	-17.9	-20.2	-22.9	-25.8	-29.0	-31.9	-38.5	-40.3	-48.1	-42.3	-59.1	-63.8	-65.7	-68.1	267	920	-61.1
August	-13.9	-15.9	-7.0	-10.7	-8.1	-13.1	-11.0	-14.3	-15.4	-22.8	-23.1	-29.5	-33.3	-40.1	-45.0	-42.1	-59.1	-70.0	-70.6	-72.8	214	1080	-72.1
September	-14.5	-15.8	-5.6	-7.4	-7.9	-10.6	-10.5	-15.1	-16.6	-21.7	-24.1	-28.8	-34.1	-38.4	-45.7	-43.7	-58.6	-68.8	-70.1	-70.7	233	1010	-68.8
October	-8.5	-10.6	-9.3	-11.7	-11.7	-14.2	-14.6	-17.2	-20.0	-23.9	-26.7	-30.7	-35.7	-39.8	-46.8	—	-59.3	-67.5	-68.5	-68.7	235	990	-67.9
November	-1.3	-3.2	-4.6	-6.7	-7.0	-9.7	-9.5	-12.0	-14.0	-18.1	-20.2	-24.1	-28.8	-33.0	-39.4	-41.4	-52.5	-55.3	-54.8	-56.7	259	970	-59.7
December	-1.3	-4.2	-4.1	-7.4	-8.7	-12.1	-11.7	-14.8	-15.7	-20.5	-21.3	-26.3	-30.0	-36.7	-40.8	-40.6	-52.2	-45.7	-44.3	-43.9	289	890	-55.4
<b>Total</b>	-70.4	-95.8	-85.1	-114.1	-113.8	-147.9	-144.6	-178.9	-203.5	-257.2	-283.6	-331.8	-394.8	-450.4	-519.0	—	-659.7	-680.9	-685.7	-700.9	3148	11350	-724.8
<b>Mean</b>	-5.9	-8.0	-7.1	-9.5	-9.5	-12.3	-12.1	-14.9	-17.0	-21.4	-23.6	-27.7	-32.9	-37.5	-43.3	—	-55.0	-56.7	-57.1	-58.4	262	950	-60.4

## Upper Air Means Table II for Argentine Islands, 1957.

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	774	1219	1694	2700	3861	5180	6735	8630 <sup>30</sup>	11300 <sup>30</sup>	13230 <sup>30</sup>	15960 <sup>20</sup>
February	777	1230	1703	2729	3889	5227	6840	8740	11460	13350 <sup>20</sup>	16040 <sup>22</sup>
March	668	1118	1586	2601	3741	5049	6585	8480	11170	13080	15770 <sup>20</sup>
April	765	1214	1661	2682	3829	5168	6704	8620	11250	13120	15740 <sup>20</sup>
May	731 <sup>30</sup>	1167 <sup>30</sup>	1631 <sup>30</sup>	2639 <sup>30</sup>	3795 <sup>30</sup>	5073 <sup>30</sup>	6596 <sup>30</sup>	8460 <sup>30</sup>	11000 <sup>30</sup>	12790 <sup>30</sup>	15320 <sup>25</sup>
June	742 <sup>40</sup>	1174 <sup>40</sup>	1633 <sup>40</sup>	2622 <sup>40</sup>	3745 <sup>40</sup>	5032 <sup>40</sup>	6544 <sup>40</sup>	8410 <sup>40</sup>	10900 <sup>40</sup>	12650 <sup>30</sup>	15100 <sup>36</sup>
July	697	1129	1584	2573	3690	4970	6477	8330	10830	12580 <sup>30</sup>	15030 <sup>25</sup>
August	876	1321	1785	2807	3953	5260	6790	8650	11100	12820 <sup>20</sup>	15210 <sup>23</sup>
September	704 <sup>40</sup>	1150 <sup>40</sup>	1616 <sup>40</sup>	2645 <sup>40</sup>	3774 <sup>40</sup>	5077 <sup>40</sup>	6601 <sup>40</sup>	8460 <sup>35</sup>	10930 <sup>40</sup>	12600 <sup>35</sup>	15070 <sup>24</sup>
October	786	1142	1604	2614	3732	5025	6541	8390	10870	12600 <sup>30</sup>	15040 <sup>20</sup>
November	790	1241	1708	2730	3887	5215	6777	8690	11280	13120	15680 <sup>28</sup>
December	817 <sup>41</sup>	1264 <sup>41</sup>	1731 <sup>41</sup>	2745 <sup>41</sup>	3896 <sup>41</sup>	5220 <sup>41</sup>	6771 <sup>41</sup>	8680 <sup>41</sup>	11330 <sup>41</sup>	13250 <sup>41</sup>	15970 <sup>30</sup>
Total	9127	14369	19936	32087	45792	61496	79961	102540	133420	155190	185930
Mean	761	1197	1661	2674	3816	5125	6663	8550	11120	12930	15490

# Upper Air Frequency Table I for Argentine Islands, 1957.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents :- 4																																							
		Surface																900 mb.																							
		-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	15	-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	to			
January													3	25	3																										
February												1	6	16	5													1	1	6	11	5	3	1							
March												1	12	18														1	9	13	7	1									
April											1	8	12	9														1	3	8	12	5	1								
May										1	5	15	7	2																											
June							3	6	13	3	6	7	2											5	4	13	9	8	1												
July				1	3	4	5	2	6	3	3	3		1												1	2	1	2	10	5	4	5	1							
August					4	5	1	7	3	4	3	2	2													1		2	5	13	7	3									
September							1	1	4	2	8	7	11	6															2	5	15	14	3	1							
October							1	3	5	6	7	6	3																2	6	8	7	7	1							
November										1	2	5	11	10	1																										
December											2	9	20	7	3																										
Year				1	7	12	14	26	21	23	38	59	87	94	12												1	2	6	7	26	30	53	104	115	40	9	1			





Upper Air Frequency Table IV for Argentine Islands, 1957.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents :- 4

MONTH	500 mb.																				400 mb.																							
	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-21	-18	-15	-12	-9	-6	-3	0	-78	-75	-72	-69	-66	-63	-60	-57	-54	-51	-48	-45	-42	-39	-36	-33	-30	-27	-24	-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	to	to				
January									1	6	15	3	6																						5	8	10	7	1					
February											3	11	4	2	5	2	1																				3	9	5	7	2	2		
March											4	14	5	6																						2	12	4	8	5				
April						1	1	5	3	7	5	4	2	2															1	2	7	8	5	5	2									
May						1	3	1	6	11	3	3	2																															
June						2	1	10	11	8	7	1																																
July				1			4	6	9	9	2																																	
August										10	8	9	4																													1		
September						2	2	2	9	12	6	5	2																															
October							1	5	10	13	1		1																														6	
November								1	2	5	3	8	8	3																														
December							1		2	6	24	6	2																															
Year					1	5	13	26	69	98	93	45	27	12	4	1														1	3	22	64	92	67	79	40	20	4	2				



# Upper Air Frequency Table VI for Argentine Islands, 1957.

MONTH		AIR TEMPERATURE AT STANDARD LEVELS: Number of observations in 3°C ranges for all ascents: - 4																														
		150 mb.														100 mb.																
		-87	-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	
to	to	to	to	to	to	to	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																																
February																																
March																																
April																																
May																																
June																																
July																																
August																																
September																																
October																																
November																																
December																																
Year																																

Upper Air Frequency Table VII for Argentine Islands, 1957.

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	0	19	29	39	49	59	69	79	89	99	100	9	19	29	39	49	59	69	79	89	99	100	0	19	29	39	49	59	69	79	89	99	100							
January					2	5	6	9	9							2	4	6	8	11							2	6	7	7	9									2	9	11	9							
February					1		6	7	13	1							1	4	8	14	1						2		2	4	4	14	2																	
March					2	1	3	12	9	4						1	1	4	8	13	4							1	1	2	6	18	3										2	3	6	17	3			
April					1		5	10	9	5						1	1	4	7	12	4							2	2	3	9	11	2																	
May							4	2	13	11							6	4	7	12	1							1	2	4	2	7	13	1																
June					2	7	9	7	10	5				1	4	9	4	9	9	4								4	3	9	5	11	5	3																
July							1	5	20	5							2	2	7	11	8								1	1	3	7	8	10																
August								6	19	6						1	1	2	5	8	6	6							1		2	4	6	7	8	1														
September								3	14	22	1							2	8	10	19	1							2		3	8	10	17																
October					1	1	5	18	6								1	2	9	7	12								1	5	6	8	11																	
November								6	10	14							1	1	5	12	11								1		3	3	13	10																
December		1			1	1	4	9	11	14		1					3	9	6	11	11								1		2	4	4	6	10	14														
Year		1			3	15	25	63	153	123	11		1		2	5	22	38	74	104	133	11		1	2	4	13	26	44	66	95	131	8		1	4	8	16	31	42	64	100	120	4						

## Upper Air Frequency Table VIII for Argentine Islands, 1957.

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	2	6	7	9				1	1	2	4	5	5	11	2				2	7	5	5	9	3																1	2	2	3	3	3																		
February				2	2		3	5	10	6				1	1	5	6	5	7	3					4	5	5	3	7	4																	3	3	6	6	3																		
March						2	1	7	9	11	1				2	2		2	6	5	11	3				1	2	1	6	4	9	5	3															1	1	2	4	1															2		
April				3	2	6	1	3	10	4				2	4	2	5	4	4	8					1		9	1	5	2	8	2															1	3	2	2	5	3																	
May			2	4	3	1	2	11	2	5				3	4	2	3	5	6	4	3				2	3	4	4	5	3	3	1																																					
June						1		5	14	19	1						1	1	9	12	6	10	1				2	3	5	5	6	10	2																																			1	
July				2	1	4	2	4	6	11						1	2	2	5	6	8	6				1	2	1	2	4	11	5																																			1		
August		2	1	1	7	4	3	5	2	4			3	2	3	6	4	2	5	2	2				1	2	5	5	5	4	2	3	2																																				
September		1	2	2	2	7	4	8	4	10			1	3	2	3	4	9	5	8	5				1	3	7	3	10	3	8	1																																					
October				1	1	4	6	3	9	7					2	2	8	4	4	6	5				1	2	4	2	7	4	5																																						
November			1	2	1	5	4	1	9	7					3	2	5	1	5	9	5				1		5	4	4	7	8																	1	2	1	5	4	3	1													2		
December		1		2	3	4	10	4	10	7			1		4	3	10	5	7	8	3				2	3	7	7	7	6	6	2																																					
Year		4	6	20	26	40	43	71	97	82	1			5	13	27	26	53	61	69	88	47	1			2	13	38	52	53	61	79	54	9															4	13	14	27	23	16	7	2													

## Upper Air Frequency Table IX for Argentine Islands, 1957.

MONTH	MEAN WIND SPEED	WINDS at STATION LEVEL : Number of observations at all ascents of :—																									NUMBER OF ASCENTS							
	KNOTS	SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)																			
		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	4.3	18	3																10	3	7			4	4	1						1	1	31
February	9.5	9	13	1															5	4	8		1	1	2	3	2					1	1	28
March	13.2	6	13	7	2														3	12	10			2			1	2	1				31	
April	12.5	6	12	6	1														5	3	7	3	2	1	2	2	2	1				2		30
May	11.2	7	12	3	2														6	2	6	2			1	6		2	1	3	1		30	
June	6.5	16	9	3															12		1	2	3	1		7	8	2	2	2			40	
July	10.8	22	2	2	4														1	1		3	1	1	1	4	13	4	1		1		31	
August	5.9	14	6	2															9		1	1		1	1	5	8	4	1				31	
September	11.3	8	12	6	3														11	1	6	12		1	1	3	2	1	1		1		40	
October	6.9	14	4	4															8	2	1	3	1	1	1	5	2		3	2	1		30	
November	7.3	9	9	2															10	2	13		1			2	1	1					30	
December	3.8	19	5																17	1	3			1	5	2	6	3	3				41	
Year	8.6	148	100	36	12														97	31	63	26	9	10	18	43	45	19	14	10	8		393	

Upper Air Frequency Table X to XX for Argentine Islands, 1957.

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 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					
X	900 mb.	8.2	44	14	2	2																				4	3	6	1	7	14	9	9	1	3	1	4	62	
XI	850 mb.	10.1	36	18	6	1	1																			4	4	4	1	7	10	10	10	3	2	3	4	62	
XII	800 mb.	12.5	22	30	8	2																				4	3	6	3	4	8	11	10	6	2	3	2	62	
XIII	700 mb.	16.1	19	19	15	3	1																			2	7	3	2	5	4	14	6	8	2	1	3	57	
XIV	600 mb.	19.0	8	19	13	10	2																					3	2	1	3	10	9	1	9	4	1	6	52
XV	500 mb.	21.7	12	11	14	8	2	2																		2	2	2	1	2	8	9	7	5	5	3	3	49	
XVI	400 mb.	24.7	3	9	11	11	8		1																	3	1	3		4	6	7	4	6	6	1	2	43	
XVII	300 mb.	32.5	5	8	4	8	13	1		1																	4	1	1	2	10	5	5	6	3		3	40	
XVIII	200 mb.	25.1	3	12	11	6	3			1																		3		2	5	7	8	2	4	1	4	36	
XIX	150 mb.	21.1	4	14	5	2	4		1																			1	1	2	1	7	5	4	3	2	4	30	
XX	100 mb.	20.1	6	11	7		1		1																				1	2	2	7	4	5	2	2	1	26	

# Upper Air Frequency Table XXI for Argentine Islands, 1957.

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

900 mb. Mean height 761 metres. I.C.A.N. height 988 metres.

MONTH	405	420	435	450	465	480	495	510	525	540	555	570	585	600	615	630	645	660	675	690	705	720	735	750	765	780	795	810	825	840	855	870	885	900	915	930	945	960	975	990	1005	1020	1035	1050	1065			
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	410	431	440	461	470	491	500	521	530	551	560	581	590	611	627	641	659	674	689	701	719	731	740	761	779	794	809	824	839	851	869	884	899	914	929	944	959	974	989	1004	1019	1031	1049	1064	1079			
January																			3	1	1	3	10	2	6				1	1			2		1													
February												1		1		1		2			1	2		2	1	3	2	2	3	1	2	4																
March									2		2	1	1		2	2	3	2	3	1	5	1	3	1		2																						
April																		2	2	1	3	3	2	2	3	1	4	1	3		1	2																
May												1	1	1	1	2		1		2	1	3		4	3	6	3		1																			
June							1		1			1				3	3	1		1	1	3	3	4	5	1	2	1	6	1				1	1													
July											1	1	1	3		5	1	2	2	2	1	4	3				1			1		1		2														
August																								2	2	2		3	1	2	1	1	3	3	5	2	1		2			1						
September								1	2		3	1	2		2	1	6		1	2	1	2	4		2	1	2		2				2			1	1	1										
October									1		1		1			1	3	4	5	3	1	3	1	1	1	1		2	1			1																
November															1		1				1	3	2	1	2	1	4	2	4	1	1		1	2	1						1	1						
December																1							5	6	4			1	1		1	2	2	13	3	1		1										
Total						1	1	6		7	6	6	6	6	16	16	14	14	15	18	29	26	32	20	29	16	13	20	8	8	24	13	7	7	4	2	1	2			1							

# Upper Air Frequency Table XXII for Argentine Islands, 1957.

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

850 mb. Mean height 1197 metres. I.C.A.N. height 1457 metres.

MONTH	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	1500									
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to						
	854	869	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	1514									
January													1		1			2		1	2	1	1	7	3	2	4	1			1		2	1	1																			
February													1		1	2	2	3	3	1	3	4	2	3			2																											
March										1	1	2	1						2	3			3	4	1	2	3	1	4	1	2	1			3																			
April														2	1		1	2		1	1	3	1	1	3	2	3	7	1																									
May																	3	4		1		3	1	4	3	5	1	2																										
June						1		1			1																																											
July													2		5	1	1	4	1	2	3	1	3	3			1	2	2	1	3	1	2		1	1	4	5	3	2		1	1			1								
August																																																						
September									1		1	2	2	2	1	1	2	1	5		1	3		2	3	1	3		2																									
October										1																																												
November																	1		1																																			
December																																																						
Total						1		2		3	4	7	7	7	5	10	18	13	17	14	18	19	28	30	24	21	25	16	17	14	6	12	22	9	12	4	4	1	2	1			1											

### Upper Air Frequency Table XXIII for Argentine Islands, 1957.

MONTH	HEIGHT AT STANDARD LEVELS : Number of observations at all ascents in 15 metre ranges :- 22																																																		
	800 mb. Mean height 1,661 metres. I.C.A.N. height 1,949 metres.																																																		
	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	1965						
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to				
1310	1334	1349	1361	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	1979							
January																		1	2	1	4	10	1	5	2	1							3			1															
February													1		1		1	1	1			2	1	1	3	2	1		4	3	2	1	1		1																
March							1		1		1	2				2	3	2	4	2	1	5	1	4			1	1																							
April																		1	3	2		1	4	2	1	4	1	2	1	1	2			2	3																
May												1	2			2	1		2		2	2	3	4	2	5	3	1																							
June					1	1			1						4	2	3			1	1	3	4	2	4	2	1	1	6	1			2																		
July											2	1	2	2	2	1	2	3	2	1	2	3	2	1	1			2				2		2																	
August																						1		1	2	2	2	1	3		1	4	5	5	1			2					1								
September							1		2		2	3	1	1	2		6		2	2		3	1	2	2	1	1	1	2			2				2															
October									1		2				1		3	4	3	3	3	2	2	1	2			1	2			1	2			1															
November														1		1				2	3	1	1	2	1	4	2	2	3		2			2		2								1	1						
December																1						3	3	5	3	1		1	2			2	9	5	3	1	1	1													
Total					1	1		2	1	4	2	6	8	6	9	10	14	17	15	12	14	24	27	26	29	21	20	15	18	14	7	16	13	16	7	11	3	1	1	2					1						





# Upper Air Frequency Table XXVI for Argentine Islands, 1957.

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

500 mb. Mean height 5,125 metres. I.C.A.N. height 5,574 metres.

MONTH	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	570								
	to 440	to 443	to 446	to 449	to 452	to 455	to 458	to 461	to 464	to 467	to 470	to 473	to 476	to 479	to 482	to 485	to 488	to 491	to 494	to 497	to 500	to 503	to 506	to 509	to 512	to 515	to 518	to 521	to 524	to 527	to 530	to 533	to 536	to 539	to 542	to 545	to 548	to 551	to 554	to 557	to 560	to 563	to 566	to 569	to 572								
January																					1		2	5	6	6	3	2	2	3	1							1															
February																		2		2	6	6	4	4	4	1				2																							
March																		1					3	3	2	3	2	3	3	1	2																						
April																	1	3		1		3		4	9	1	1	2	3		2																						
May																		2	2	2	3		6	2	2	6	4	3	3	1																							
June											1	1		1	1																																						
July												1	1			1	1	4	5	1	1	4	6					1		1	1	1																					
August																	1	4		5	4	2	2	2	2	3	5	1		1	4	1	1	1	1																1		
September																1	2	1	7	3	4																																
October																						1		3	2	1	3		4	4	5	2	2																				
November																					1			1	2	5	2	3	2	7	6	6	4																				
December																																																					
Year											1	2	1	1	2	2	2	11	16	5	19	21	28	28	33	33	35	22	23	25	26	20	13	10	7	2	4																











Means and Extremes Table I for Loubet Coast, Grahamland, 1957.

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	990.5	1008.9	11th	976.9	28th	31.0	31.0	31.5	32.7	33.4	33.6	32.8	31.5	32.2	35.1	28.6	<u>40</u>	<u>4th</u>	23	25th
February	988.8	1003.3	8th	967.6	20th	31.2	31.0	31.5	31.6	32.0	32.2	31.6	31.3	31.5	34.3	28.6	<u>40</u>	<u>2nd, 10th</u>	18	24th
March	975.4	991.5	16th	954.9	5th	26.9	27.0	27.1	27.0	27.1	27.1	26.8	26.8	27.0	29.6	23.9	38	10th	10	26th
April	987.3	1002.5	11th	967.7	29th	27.8	27.4	27.5	27.6	28.1	27.9	27.6	27.3	27.7	30.7	24.4	36	20th	15	3rd
May	986.4	1000.7	12th	965.0	5th	21.0	20.9	21.2	21.9	21.9	22.1	21.5	21.1	21.5	25.3	17.7	32	23rd, 24th	08	14, 15, 31
June	990.9	1013.4	5th	961.3	17th	6.4	6.5	6.6	6.6	6.5	6.5	6.3	5.8	6.4	10.8	1.9	27	13th	-11	30th
July	986.6	1018.2	28th	958.2	20th	2.6	2.3	2.2	1.7	1.5	2.5	3.2	2.8	2.3	10.1	-3.8	31	29th	-25	<u>5th</u>
August	1007.9	<u>1024.7</u>	<u>12th</u>	978.1	17th	4.5	3.9	3.1	5.0	7.9	6.1	5.9	4.8	5.1	13.9	-1.3	33	17th	-22	14th
September	984.3	1016.8	1st	<u>954.1</u>	<u>20th</u>	19.6	19.1	18.6	19.5	21.0	20.0	19.2	19.8	19.6	25.9	13.2	35	26th	-02	1st, 3rd
October	985.5	1009.4	30th	961.7	13th	13.6	13.9	14.1	15.3	16.1	15.9	14.9	14.3	14.8	19.9	9.5	31	3rd	03	12th
November	991.3	1009.7	14th	967.1	20th	28.3	28.0	28.8	29.0	29.4	29.2	29.1	28.8	28.8	31.5	26.0	38	29th	09	4th
December	997.2	1010.9	9th	972.6	31st	28.0	28.3	29.2	29.9	31.5	30.8	29.8	28.6	29.5	33.0	26.3	<u>40</u>	<u>21th</u>	16	8th
Total	11872.1	12110.0	—	11585.2	—	240.9	239.3	241.4	247.8	256.4	253.9	248.7	242.9	246.4	300.1	195.0	421	—	42	—
Mean	989.3	1009.2	—	965.4	—	20.1	19.9	20.1	20.7	21.4	21.2	20.7	20.2	20.5	25.0	16.3	35.1	—	3.5	—

Means and Extremes Table II for Loubet Coast, Grahamland, 1957.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)								SUNSHINE		RAINFALL (mm.)				
	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	87	87	87	84	82	82	83	87	85	6.8	7.0	6.9	6.5	6.0	6.0	6.0	6.1	6.4	5.4		20.6			
February	89	90	88	89	88	89	89	88	89	7.3	6.9	6.9	7.0	7.0	7.2	7.1	7.3	7.1	2.6		16.4			
March	89	91	89	90	88	89	89	88	89	7.2	7.3	7.4	7.3	7.5	7.4	6.9	6.5	7.2	1.1		12.5			
April	89	88	89	89	89	90	87	87	89	6.2	6.5	6.8	6.9	7.2	7.2	6.5	5.7	6.6	1.2		8.7			
May	87	86	86	82	82	84	85	85	85	5.5	5.6	6.0	6.3	6.2	6.1	5.5	5.8	5.9	0.8	Not recorded	4.7	Not recorded	Not recorded	Not recorded
June	82	81	82	81	81	82	82	82	82	4.4	4.6	4.4	5.1	5.5	5.1	5.2	4.7	4.9	0.2	Not recorded	0.5	Not recorded	Not recorded	Not recorded
July	86	86	85	84	85	85	86	87	85	5.2	5.2	4.9	5.3	5.4	5.3	4.9	5.5	5.2	0.7	Not recorded	2.9	Not recorded	Not recorded	Not recorded
August	87	87	86	86	87	87	86	87	87	4.1	3.9	4.0	5.4	5.4	5.4	4.5	4.3	4.7	2.6	Not recorded	7.3	Not recorded	Not recorded	Not recorded
September	88	88	87	87	87	89	90	90	88	7.3	7.2	7.1	7.3	7.3	7.5	7.5	7.6	7.3	1.1		11.1			
October	86	83	84	84	84	84	85	85	84	5.5	6.1	6.4	6.3	6.1	6.2	6.2	5.8	6.1	4.5		14.9			
November	89	91	90	90	89	92	90	90	90	7.0	7.3	7.1	7.2	7.1	7.1	7.0	7.1	7.1	3.0		19.3			
December	85	84	84	84	79	81	82	83	83	6.4	6.6	6.2	6.3	6.2	6.2	6.1	6.0	6.3	5.9		23.3			
Total	1044	1042	1037	1030	1021	1034	1034	1039	1036	72.9	74.2	75.0	76.9	76.9	76.7	73.4	72.4	74.8	29.1		142.2	-	-	-
Mean	87	87	86	86	85	86	86	87	86	6.1	6.2	6.3	6.4	6.4	6.4	6.1	6.0	6.2	2.4		11.9	-	-	-

# Frequency Table I for Loubet Coast, Grahamland, 1957.

M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. 1

MONTH	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								10	29	100	60	18	12	19								
February							16	18	14	15	37	59	33	32								
March				1	4	26	39	42	55	48	27	6										
April							2	5	35	61	42	53	34	8								
May							7	14	19	57	58	62	28	3								
June						5	12	14	18	26	28	40	29	37	21	10						
July					2	3	1	34	44	44	32	37	9	14	13	11	4					
August								4	4	8	22	24	18	29	73	42	24					
September				1	10	17	25	22	30	27	21	21	19	19	10	9	9					
October						5	8	5	41	85	31	32	26	6	9							
November							4	15	10	19	50	59	42	24	17							
December								8	2	16	43	33	16	48	78	4						
Year				2	16	56	114	177	282	431	477	484	278	221	196	107	55	24				



Frequency Table III for Loubet Coast, Grahamland, 1957.

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	1	7	32	33	33	49	49	41	2
February										1	3	7	14	18	19	28	50	66	18
March											3		10	13	47	46	60	58	11
April										2	6	11	12	19	22	30	47	74	17
May							1	2	2	2	1	11	22	28	44	50	49	31	7
June									1	4	7	32	33	80	52	29	2		
July								2	1	3	7	7	38	35	50	76	29		
August												12	14	51	95	55	19	2	
September									1	5	9	17	18	21	32	67	69	6	
October									1	5	12	35	17	34	52	68	24		
November										1	8	9	9	29	34	57	92	1	
December							1	1	4	6	16	17	38	43	57	42	21	2	
Total							2	5	14	38	95	219	273	458	575	649	526	66	
Mean							—	—	1	3	8	18	23	38	48	54	44	5	

# Frequency Table IV for Loubet Coast, Grahamland, 1957.

Number of observations, at all hours, of:-

MONTH	VISIBILITY <sup>6</sup>										LOW CLOUD AMOUNTS (oktas)					CLOUD HEIGHTS <sup>7</sup> (metres)																CLOUD NO				
	< 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				1	4	1	21	30	45	146	54	40	36	28	90				15	35	58	(29) 53	(38) 33	38	15				8	20	15	(21) 8	(29) 5	9	1	1
February				8	11	5	40	38	45	77	23	19	29	30	122	1	1	1	14	54	(2) 64	(29) 50	(11) 17	21	2	1		12	44	(2) 29	(23) 20	(8) 2		6		
March		5	3	9	7	21	51	43	71	38	19	17	33	42	125	12	12		3	53	(1) 83	(29) 45	(40) 35	10	7	12		3	42	43	(18) 11	(30) 10		1	4	2
April		1	1	13	20	16	44	34	67	44	16	25	41	35	123				3	53	(3) 91	(30) 48	(36) 29	5	3			2	44	(3) 36	(21) 10	(24) 4	4		8	
May		6	1	15	14	18	17	40	64	73	29	48	28	39	98	6	6	1	1	21	113	(5) 45	(26) 32	(20) 16	7	6			16	67	(3) 11	(16) 1	(14) 1	1	1	6
June		1	2	7	4	2	24	40	79	81	49	59	17	31	78	3	3	2	7	17	(22) 64	(19) 73	(19) 25	21		3	2	4	9	29	(19) 20	(12) 5	2		28	
July	1	12	5	10	17	1	30	19	69	84	72	41	25	21	78	11	11			52	(2) 40	(9) 49	(8) 24	56	1	11			41	(1) 13	(6) 18	(4) 3	7	1	15	
August			2	16	9	8	41	28	48	96	87	49	26	16	66	4	4	37	21	31	32	(5) 17	(8) 19	63	4	4	5	10	23	17	(3) 7	(5) 4	4		20	
September	1	4	9	29	32	22	53	33	30	27	25	15	12	25	153	10	15	15	35	72	(2) 42	(10) 22	(18) 14	22	3	11	9	27	62	(2) 30	(8) 9	(16) 9	8	1		
October		1	4	13	9	6	46	29	50	90	58	37	24	26	98	5	5	5	8	47	(2) 53	(16) 35	(10) 37	44	9	5	4	6	(2) 29	(1) 8	(11) 13	(10) 9	9	4	5	
November			6	17	23	13	38	35	46	62	28	16	25	27	144				6	55	(1) 55	(3) 29	(19) 19	28			6	50	42	(3) 10	(11) 14	(12) 10	12			
December			2	1	5	9	15	24	39	153	27	63	31	40	85	2	7	9	12	38	(1) 56	(2) 45	(11) 54	24		4	5	10	21	(1) 11	(9) 8	(32) 16	12		3	
Total	2	30	35	139	155	122	420	393	653	971	487	429	327	363	1260	54	64	76	(1) 174	(3) 532	(21) 740	(235) 509	(271) 338	348	51	57	31	(1) 132	(2) 393	(16) 332	(166) 144	(196) 82	75	12	88	
Mean	—	3	3	12	13	10	35	33	54	81	41	36	27	30	105	5	5	6	(-) 15	(-) 44	(2) 62	(30) 42	(23) 28	29	4	5	3	(-) 11	(-) 33	(1) 28	(14) 12	(16) 7	6	1	7	

Frequency Table V for Loubet Coast, Grahamland, 1957.

MONTH	WEATHER: No. of Days																								
	TEMPERATURE				PRECIPITATION			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
	>32°F	<5°F	<-4°F	>41°F																					
January							9			14	6	1		18					6		3				
February	3						13	6	5	17	7	4		20					9	1	2	3			
March	1						23	11	3	28	3	1		24					22	2	1	7		1	
April							21	7		26	6	2		19	1				21		2	7			
May							24	11		23				15	1				20			9			
June		10	4		Not recorded	Not recorded	12	6		16				9	3				9		1	4			
July		10	15		Not recorded	Not recorded	19	9		19				9	4				20			10			
August		8	15		Not recorded	Not recorded	9	3		10				8	2				8		4	5			
September							22	12		26	2	1		25					23		3	14			
October							20	12		17				18	1				23		2	6			
November							22	8	1	26	8			21					15			6			
December							8	1		15				15	1				4		3				
Total	4	28	34	0			202	86	9	237	32	9	0	201	13				180	3	21	71	0	0	1
Mean	—	2	3	—			17	7	1	20	3	1	—	17	1				15	—	2	6	—	—	—

Frequency Table VI for Loubet Coast, Grahamland, 1957.

MONTH	2 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	9.9		18	93	90	47	47	9	4	3	7	97	20	1	2	1	1	9
February	15.8	13	47	91	60	13	93	2	2	2	6	51	8	2	6	9	5	25
March	20.8	41	57	101	43	6	79	13	4	2	5	106	7		2	4	20	
April	15.4	16	51	78	69	26	94	9	1	3	6	40	11		6	12	7	25
May	18.7	34	55	80	65	14	48	4	4	2	6	100	19	3	6	9	12	21
June	12.1	13	32	65	84	46	23	3	1	2	12	91	30	4	3	1	8	16
July	15.5	28	39	60	91	30	33	13	6	1	14	46	17	63	3	2	11	9
August	7.9	11	24	33	77	103	34	10	7	4	10	53	16	2	4	2		3
September	17.8	36	53	69	56	26	67	15	2	1	11	79	12		1	2	5	19
October	18.6	39	57	68	73	11	34	2	5	1	17	144	16				5	13
November	17.7	38	61	68	54	19	102	12	3	2	6	57	9	2			2	26
December	8.4	1	22	49	118	58	44	15	2	1	11	52	21	2	5	6	6	25
Total	178.6	270	516	855	880	399	698	107	41	24	111	916	186	79	36	46	66	211
Mean	14.9	23	43	71	73	33	58	9	3	2	9	76	15	7	3	4	5	18

# Frequency Tables VII to X for Loubet Coast, Grahamland, 1957.

## 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	5	4	2	2	1	3	5			1	1	1	25
2	2	1	2	1	1	9	3		1			1	21
3	12	2			3	15	8	1	1			2	44
4	17	2			1	32	3					2	57
5	8				1	23	1					3	36
6	3					15							18
7													
>= 8													
Totals	47	9	4	3	7	97	20	1	2	1	1	9	201

CALMS - 47

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		5
2	3	1	1		1	3	3	2	1	2	3	4	24
3	10	1		1	3	6	1		1	2	1	5	31
4	28				2	11	2		4	3		12	62
5	20					6	2					1	29
6	11					9						3	23
7	15		1			8							24
>= 8	5					8							13
Totals	93	2	2	2	6	51	8	2	6	9	5	25	211

CALMS - 13

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	1		1							4
2	2					2				1		1	6
3	3	2			2	16	2			1	2	5	33
4	28	4	2	1	3	16	2					8	64
5	21	1				10	1				2	2	37
6	14					13	1					4	32
7	4	5				15	1						25
>= 8	7	1				33							41
Totals	79	13	4	2	5	106	7			2	4	20	242

CALMS - 6

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		3	1	3	2		3		1		14
2	1				1	2				1	2	2	9
3	7	2	1		3	12	4			4	3	10	46
4	13				1	10	4		2	6		6	42
5	23	2				4	1		1		1	4	36
6	21	1				2				1		2	27
7	17	3				3						1	24
>= 8	12					4							16
Totals	94	9	1	3	6	40	11		6	12	7	25	214

CALMS - 26

# Frequency Tables XI to XIV for Loubet Coast, Grahamland, 1957.

## 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	7		1	1				11
2	1	1	2	2		4			2	2			18
3	1	1	1		3	17	2	1		1	2	2	36
4	8				2	24	5		1	1	6	7	54
5	5					11	2		1	4	2	1	26
6	11					13	4		1	1		3	33
7	10					9	2					1	22
≥ 8	12	2				15	4	1					34
Totals	48	4	4	2	6	100	19	3	6	9	12	21	234

CALMS - 14

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				2	1	4	2	1				17
2	3	1			1	5	3	2	1		1	2	21
3	2	1	1		7	21	7	1	1		2		46
4	4				3	25	7		1		2	4	46
5	3					6	7			1		2	19
6	3	1				8	1					6	19
7	2					9	2						13
≥ 8	2					10	1						13
Totals	23	3	1	2	12	91	30	4	3	1	8	16	194

CALMS - 46

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	1	3	3	1				1	14
2	1	1	3		3	6	2	2					18
3	8	4	1		8	23	4	7	2		1	1	59
4	3	3			2	12	3	8			3	3	37
5	6					1	2	8	1	2	2	1	23
6	8	2				1		7			2	2	22
7	1						3	11			2		17
≥ 8	5	2						19			1	1	28
Totals	33	13	6	1	14	46	17	63	3	2	11	9	218

CALMS - 30

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	4	2	7	5	2	1	1		1	28
2	4	2	2		1	10	5		2	1			27
3	2	2	2		3	8	4					1	22
4	3	1			3	14	2						23
5	4					5						1	10
6	10				1	5							16
7	3	1				4							8
≥ 8	8	2						1					11
Totals	34	10	7	4	10	53	16	2	4	2		3	145

CALMS - 103

# Frequency Tables XV to XVIII for Loubet Coast, Grahamland, 1957.

## 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	3	1		1	1	2			1	2	3	17
2	3	1		1	2	6	1		1				17
3	4	1	1		1	7	2			1	2	3	22
4	8	2			4	8	6				1	5	34
5	18	1				12						4	35
6	8	1			2	11	1					2	25
7	17	1			1	9							28
≥ 8	6	5				25							36
Totals	67	15	2	1	11	79	12		1	2	5	19	214

CALMS - 26

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	3							5
2	2		1	1	1	4	1				2		12
3	9	1	4		13	19	4				1	5	56
4	7					28	3				2	7	47
5	2	1			1	14	2					1	21
6	5					20	1						26
7	5				1	25							31
≥ 8	3					31	5						39
Totals	34	2	5	1	17	144	16				5	13	237

CALMS - 11

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	1	3	1	1	1	5	1					2	15
3	6	2	2		2	11	2	1			2	4	32
4	12				1	13	4	1				18	49
5	13					5						1	19
6	19	1				9	1					1	31
7	25	4				1							30
≥ 8	26	1				11							38
Totals	102	12	3	2	6	57	9	2			2	26	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	1	4			1	3	3	1	2	2	2	2	21
2	6	7	1	1	3	7	3	1		1	2	9	41
3	15	2	1		6	19	1		3	3	1	5	56
4	9	2				5	3					1	29
5	8				1	5	6						20
6	5					8	3						16
7						5	1						6
≥ 8							1						1
Totals	44	15	2	1	11	52	21	2	5	6	6	25	190

CALMS - 58

Frequency Table XIX for Loubet Coast, Grahamland, 1957.

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	16	16	11	15	12	37	23	6	7	7	8	10	168	
2	29	18	13	7	15	63	22	7	8	8	14	25	229	
3	79	21	14	1	54	177	41	11	8	12	17	48	483	
4	140	14	2	1	22	198	44	9	8	10	15	81	544	
5	131	5			3	102	24	8	3	7	7	21	311	
6	118	6			3	114	12	7	1	2	2	23	288	
7	99	14	1		2	88	9	11			2	2	228	
≥ 8	86	13				137	11	20	1		1	1	270	
<b>Totals</b>	698	107	41	24	111	916	186	79	36	46	66	211	2521	

CALMS 399.

Means and Extremes Table I for Horseshoe Island, Grahamland, 1957.

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	990.5	1009.5	11th	975.7	28th	32.8	33.2	34.6	36.2	37.0	35.7	33.8	36.5	35.0	38.8	31.5	42	8th	28	22nd	
February	988.2	1003.6	24th	965.0	28th	32.1	32.4	32.7	33.2	33.6	34.0	33.0	32.6	32.9	36.6	29.4	46	10th	19	24th	
March	974.9	989.2	16th	954.0	5th	27.6	27.7	27.5	28.3	28.7	28.1	27.4	27.4	27.8	31.5	23.6	40	5th	11	25th, 26th	
April	986.0	1002.0	11th	969.4	29th	27.1	26.8	27.0	27.6	27.8	27.2	26.7	26.6	27.1	31.5	22.0	39	18th	11	2nd	
May	987.1	1005.4	31st	968.7	5th	17.0	16.8	16.8	16.5	17.1	17.0	17.4	17.0	16.9	22.4	11.0	38	24th	-1	18th	
June	992.4	1014.6	5th	963.2	17th	-4.5	-4.1	-3.7	-3.2	-3.0	-3.3	-4.9	-4.6	-3.9	3.1	-10.3	23	12th	-23	11th, 24th	
July	986.6	1015.9	31st	953.0	20th	0.1	0.2	-1.0	-0.3	-0.7	-0.2	0.5	1.2	0.0	9.5	-10.0	30	29th	-30	2nd, 27th	
August	1008.3	1025.7	11th	978.3	17th	3.2	3.0	3.5	4.4	5.8	4.0	3.9	3.7	3.9	13.6	-4.5	35	17th	-27	14th	
September	983.5	1017.2	1st	954.2	20th	20.7	19.2	18.2	21.1	22.7	23.2	22.4	21.8	21.2	27.9	12.8	37	16th	-25	1st	
October	986.3	1007.5	30th	962.5	13th	10.0	9.5	11.3	14.5	15.7	14.8	12.3	10.8	12.4	19.6	3.5	29	3rd, 4th	-17	12th	
November	990.5	1009.9	14th	966.0	19th	27.3	27.1	28.8	30.9	31.0	30.2	28.9	28.1	29.0	34.1	24.0	42	29th	-2	5th	
December	997.4	1008.2	21st	975.7	31st	27.8	28.1	29.8	31.8	31.5	31.6	30.3	28.7	29.9	34.7	23.8	44	10th	12	8th	
Total	11871.7	12108.7	—	11585.7	—	221.2	219.9	225.5	241.0	247.2	242.3	231.7	229.8	232.2	303.3	156.8	445	—	-44	—	
Mean	989.3	1009.1	—	965.5	—	18.4	18.3	18.8	20.1	20.6	20.2	19.3	19.1	19.3	25.3	13.1	37.1	—	-3.7	—	

Means and Extremes Table II for Horseshoe Island, Grahamland, 1957.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT <sup>1</sup> (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	73	71	69	61	62	65	69	63	67	6.3	6.5	6.3	6.3	5.9	6.1	6.1	6.0	6.2	6.4	22.7				
February	80	79	76	78	75	75	79	80	78	7.2	6.9	7.3	7.3	7.6	7.5	7.3	7.3	7.3	1.5	17.6				
March	72	72	73	71	70	71	73	71	72	6.4	6.4	6.8	6.9	6.8	7.2	6.8	6.3	6.7	2.0	13.5				
April	76	77	73	75	77	78	78	76	76	6.3	6.3	6.6	7.0	6.9	7.2	6.7	6.5	6.7	0.7	9.6				
May	74	75	75	76	76	79	76	75	76	5.7	5.2	5.9	6.0	6.4	6.3	5.7	5.6	5.9	0.3	5.3				
June	79	79	80	80	79	80	79	78	79	3.7	3.6	3.6	4.9	4.9	3.7	4.1	3.8	4.0	0.0	0.6				
July	78	78	79	78	78	80	79	79	79	4.8	4.8	4.2	5.7	5.7	5.4	4.6	6.0	5.0	0.0	2.9				
August	82	81	80	80	80	81	80	81	81	4.4	3.8	5.0	5.0	5.2	5.0	3.8	3.8	4.5	1.2	9.8				
September	74	75	77	76	74	71	73	76	75	5.6	5.7	6.1	6.5	6.8	7.0	6.1	5.7	6.2	1.9	11.8				
October	75	76	73	73	73	75	75	76	75	5.2	6.3	6.2	6.3	5.7	5.8	5.7	4.8	5.7	1.5	17.9				
November	80	81	79	76	77	78	80	79	79	6.8	6.7	6.5	6.6	6.9	6.9	7.0	6.8	6.8	4.0	20.8				
December	78	77	73	71	71	71	74	75	74	6.6	6.5	6.4	6.5	6.7	6.5	6.4	6.5	6.5	5.1	24.0				
Total	921	921	907	898	892	904	915	909	911	69.0	68.7	70.9	75.0	75.5	74.6	70.3	68.1	71.5	24.6	156.5	—	—	—	
Mean	77	77	76	75	74	75	76	76	76	5.7	5.7	5.9	6.3	6.3	6.2	5.9	5.7	6.0	2.1	13.0	—	—	—	

# Frequency Table I for Horseshoe Island, Grahamland, 1957.

M. S. L. PRESSURE : Number of observations, at all hours, in 5mb. ranges. <sup>1</sup>

MONTH	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							10	16	23	17	49	51	37	21	13	16						
February									11	38	92	57	21	13	16							
March				2	7	17	35	56	56	45	30											
April							1	7	45	62	57	42	21	5								
May									1	7	45	62	57	42	21	5						
June									3	13	31	47	68	48	26	11	1					
July									2	8	13	21	24	34	24	48	21	30	15			
August				2	2	2	2	18	51	49	40	34	10	13	11	12	2					
September									3	5	12	19	21	19	24	82	25	35	3			
October									3	5	12	19	21	19	24	82	25	35	3			
November									1	8	18	26	21	36	32	15	25	20	18	3	11	6
December									3	8	7	29	69	51	35	31	7	8				
Year				5	17	42	96	167	327	419	559	424	290	197	186	120	33	35	3			

12 men 60



# Frequency Table III for Horseshoe Island, Grahamland, 1957.

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						3	9	26	29	30	16	21	26	24	22	27	10	5	2
February								3	13	10	10	16	33	33	32	26	28	18	
March								1	29	43	22	25	26	20	26	23	29	4	
April									3	8	25	28	45	41	23	41	21	5	
May							2	5	9	15	17	16	29	44	38	54	17	2	
June										3	5	11	17	74	91	34	5		
July									1	3	6	10	43	55	83	41	3	3	
August											5	7	33	57	70	44	25	7	
September									8	17	18	19	55	51	31	33	8		
October								6	18	21	24	16	13	24	46	61	19		
November									3	8	18	11	36	38	48	52	23	3	
December						6	7	9	10	12	17	16	29	42	39	37	14	10	
Total						9	18	50	123	170	183	196	385	503	549	473	202	57	2
Mean						1	1	4	10	14	15	16	32	42	46	39	17	5	—

# Frequency Table IV for Horseshoe Island, Grahamland, 1957.

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					3	6	9	19	211	61	75	29	29	54								(8)	(36)																
February			2	2	10	6	27	45	36	96	21	15	34	40	104	10		1	3	17	(2)	(20)	(33)	39	22				1	1	7	(7)	(26)			11	6		
March			2	9	12	6	40	51	66	62	62	28	41	28	67	22	22		1	7	(1)	(15)	(7)	55	6	10	1	3	12	(1)	(16)	(27)			3				
April		3	1	17	9	5	67	69	44	25	39	24	32	42	74	29	29		3	16	(2)	(6)	(11)	30	5	22		1	4	13	(13)	(5)			18	4	2		
May		4	3	23	9	11	50	45	43	60	78	17	26	28	65	34	34		3	25	(4)	(1)		50	1	29		3	11	(1)	(6)	(9)			10		3		
June	1	3	6	13	7	9	32	24	107	38	138	3	5	10	67	17	17		4	16		(1)		56	4	34		2	20	16	29	15	16	1	18				
July		3		16	6	7	48	35	74	59	140	22	12	12	46	16	16	1	5	7	(1)			20	6	17		3	14	27	17	12	8	1	75				
August		1	2	6	15	14	70	18	64	58	126	15	19	10	68	10	10	2	7	20	19	36	28	56	14	10		3	15	14	24	16	12	46		42			
September				6	2	5	39	41	75	72	104	22	24	21	60	9	9		1	1	16	(1)		87	3	9		1		12	29	(1)				1	56		
October			2	6	5	5	25	21	46	138	132	35	8	7	50	16	16		4	12	6	39	39	75	42	16		3	10	3	27	12	32	12	15				
November				3	6	2	38	51	58	82	54	28	20	28	99	11	11	1	1	17	27	(11)	72	32	17	11		1	15	20	36	(10)			5	5			
December		1		1	4	3	42	29	48	120	71	33	21	27	89	7	7	1	8	17	44	(3)	(16)	55	4	7		5	8	21	(2)	(15)			34		12		
Total	1	15	18	102	85	76	484	438	680	1021	1026	317	271	282	843	181	181	6	41	162	(5)	(57)	(117)	656	128	181	3	31	114	(2)	(47)	(95)			251	30	242		
Mean		1	1	9	7	6	40	37	57	85	85	26	23	23	70	15	15	1	3	13	(-)	(5)	(10)	55	11	15		3	9	(-)	(4)	(8)			21	3	20		

Frequency Table V for Horseshoe Island, Grahamland, 1957.

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 = 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	12			1				4		3	12	5	3		19	2				2					
February	8			6				8	1	9	16	7	5		25				3	11		2		2	
March	1							20	1	2	18	1	1		23				13	2		7			
April	1							16	3	2	26	3			21	1			17	3	1	12		2	
May					Not recorded	Not recorded	Not recorded	16	5	1	21	1			20	2		Not recorded	Not recorded	16		13			
June		18	21		Not recorded	Not recorded	Not recorded	9	2		17				10	8			12			7			
July		11	20					12	4		16				10	4		Not recorded	Not recorded	12		1	10		
August		9	16					6			12	1	4		11	7		Not recorded	Not recorded	6		2	6		
September			3					19	4		17				17	1			28			4			
October			9					8	4		13				17	2			9		1	4			
November	5			1				14	2	5	16	7	1		22	1			5	4		3		1	
December				3				8	1		18	1	1		22	2			2		2				
Total	27	38	69	11				140	27	22	202	26	15	0	217	30			118	22	7	68	0	5	0
Mean	2	3	6	1				12	2	2	17	2	1	—	18	3			10	2	1	6	—	—	—

*27 May*

Frequency Table VI for Horseshoe Island, Grahamland, 1957.

MONTH	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	9.3		10	92	109	37	6	48	65	41			14	20	13	1	3		
February	10.3	1	21	77	98	27	6	48	50	28		5	8	20	22	2	6	2	
March	15.0	1	55	113	69	10	19	63	68	74	2	1	2	4	2	1	1	1	
April	11.8	3	32	86	90	29	11	47	58	39		1	10	10	21	9	4	1	
May	12.0	10	43	63	75	57	15	28	44	54	5	3	6	16	12	4	2	2	
June	6.4	5	20	38	52	125	6	18	26	31		1	7	8	15	2	1		
July	9.4	10	22	73	42	101	16	37	48	10	2	1	7	11	9	1	3	2	
August	3.8		10	32	43	163	5	27	19	4	2	1	6	12	5	2		2	
September	15.8	15	36	125	42	22	13	62	78	48	1		6	4	1	1		2	
October	8.8	7	19	66	81	75	11	27	54	23	3		10	21	21	3			
November	11.2	2	31	83	80	44	18	60	55	15		3	8	15	18	2	1	1	
December	7.8	3	20	37	135	53	2	20	41	25	1	1	35	33	25	4	4	4	
Total	121.6	57	319	885	916	743	128	485	606	392	16	17	115	176	167	32	26	17	
Mean	10.1	5	27	74	76	62	11	40	51	33	1	1	10	15	14	3	2	1	

# Frequency Tables VII to X for Horseshoe Island, Grahamland, 1957.

## 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	5	1			3	3	6				21
2	1	6	2	2			6	13	4	1	3		38
3	3	16	13	8			4	4	2				50
4	1	21	28	13					1				64
5		3	13	11			1						28
6			3	4									7
7			1	2									3
>= 8													
Totals	6	48	65	41			14	20	13	1	3		211

CALMS - 37

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	3		4	1	2			5	1	21
2		4	10	2			1	5	4				26
3		12	8	5			5	6	11	2	1	1	51
4	4	19	17	3		1		6	7				57
5		8	8	3				1					20
6		3	5	7									15
7				5			1						6
>= 8	1												1
Totals	6	48	50	28		5	8	20	22	2	6	2	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	3	3	2	1				1					10
2		2	6	3	1			2	1				15
3	3	11	17	10		1	1					1	44
4	5	31	19	15			1	1	1	1			74
5	5	9	11	13	1								39
6	2	7	8	18						1			36
7	1		5	13									19
>= 8				1									1
Totals	19	63	68	74	2	1	2	4	2	1	1	1	238

CALMS - 10

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			5	1	3	2	1		18
2	2	1	2	7			2		3	1	1		19
3	1	14	15	7		1	2	5	6	2			53
4	1	14	13	7			1	1	7	4		1	49
5	4	12	10	4				3	2		2		37
6	1	5	16	5									27
7	1			4									5
>= 8				3									3
Totals	11	47	58	39		1	10	10	21	9	4	1	211

CALMS - 29

# Frequency Tables XI to XIV for Horseshoe Island, Grahamland, 1957.

## 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		1	3	3	3	2	3	1				20
2	2	2	2	3	1		1	2	2	1	1		17
3	2	2	10	10	1		3	6	2	1	1		38
4	2	9	7	8				4	3	1		1	35
5	3	7	10	4				2	1			1	28
6		8	7	9			1	1					26
7	2		2	13									17
>= 8			5	4					1				10
Totals	15	28	44	54	5	3	6	16	12	4	2	2	191

CALMS - 57

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	3	2	4			1	1	7	2			22
2	2	7	1	2				3	1				16
3		2	3	1		1	2	1	3		1		14
4	2	2	7	4			3	3	4				25
5		3	6	3			1						13
6		1	7	9									17
7				3									3
>= 8				5									5
Totals	6	18	26	34		1	7	8	15	2	1		115

CALMS - 125

*12 March 1960*

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		1	2	2		2		12
2		2	3	1	1		2	4					13
3	1	3	5	3		1	2	2					17
4	3	16	17				1	2	3		1	1	44
5	8	8	8	1			1	1	2				29
6	2	1	2	2					2				9
7	2	3	7	1									13
>= 8		3	5							1		1	10
Totals	16	37	48	10	2	1	7	11	9	1	3	2	147

CALMS - 101

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	2	1	2	1		1	5	1	1		2	18
2	1	4	1		1		1	3	1				12
3	1	4	3			1	1	3					13
4		10	7				3	1	1				22
5		4	5	1									10
6	1	3	1						2	1			8
7			1	1									2
>= 8													
Totals	5	27	19	4	2	1	6	12	5	2		2	85

CALMS - 163

# Frequency Tables XV to XVIII for Horseshoe Island, Grahamland, 1957.

## 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	4				1		1	1	2			2	11
2	3	1	1	1				2		1			10
3	3	9	4	2				2	1				21
4	1	28	33	7			1	1	1				72
5	1	19	26	7									53
6	1	5	11	8									25
7			2	9									11
= 8			1	14									15
> 8													
Totals	13	62	78	48	1		2	6	4	1	1	2	218

CALMS - 22

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	1		2	3		7	1	8	3			27
2			2				2	5	9				18
3	2	5	12	2				12	3				36
4	3	14	17	7			1	2	1				45
5	3	4	11	2				1					21
6	1	2	4	5									12
7		1	5	1									7
= 8			3	4									7
> 8													
Totals	11	27	54	23	3		10	21	21	3			173

CALMS - 75

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	2		1		1	1	2	3	2			14
2	2		4	2		1	4	6	5		1		25
3	3	8	14	3		1	3	3	6				41
4	4	22	17	2				4	3				52
5	4	10	14	2								1	31
6	3	13	6	4					1				27
7		4											4
= 8		1		1									2
> 8													
Totals	18	60	55	15		3	8	15	18	2	1	1	196

CALMS - 44

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	2	1	1	2	1	1	9	5	8	1	3	3	37
2		4	3	1			12	12	6	2	1	1	42
3		6	11	5			12	13	9				56
4		5	7	3			2	3	2	1			23
5		3	7	4									14
6		1	10	4									15
7			2	3									5
= 8				3									3
> 8													
Totals	2	20	41	25	1	1	35	33	25	4	4	4	195

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Frequency Table XIX for Horseshoe Island, Grahamland, 1957.

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	18	17	23	10	9	32	27	41	11	11	8	231
2	13	33	37	24	4	1	31	57	36	6	8	1	251
3	19	92	115	56	1	6	35	57	43	5	3	2	434
4	26	191	189	69		1	13	28	34	7	1	3	562
5	28	90	129	55	1		3	6	6	1	2	2	323
6	11	49	80	75				1	6	1	1		224
7	6	8	25	55			1						95
= > 8	1	4	14	35					1	1		1	57
Totals	128	485	606	392	16	17	115	176	167	32	26	17	2177

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