ANNUAL REPORT

on

The Falkland Islands & Dependencies

METEOROLOGICAL SERVICE

[Presented to the Governor]

FOR THE YEAR

1950

Annual Report on the Falkland Islands and Dependencies Meteorological Service for 1950

1. Introduction

Bases have been maintained in the Falkland Islands Dependencies since 1944, first as a naval expedition, then by the Colonial Office and, from 1st April 1948, by the Dependencies Administration under the direction of the Governor. Meteorologists were attached to all Bases and synoptic reports were transmitted to Port Stanley, East Falklands, where they were used for local forecasting, and whence, after the war, they were retransmitted as a national collective for use by South American countries, South Africa, and ships operating in the area.

For many years the whaling companies operating in South Georgia have been required, by a clause contained in their leases, to make simple meteorological observations and, before the war, the station at Grytviken transmitted synoptic observations to Uruguay (Station CXF). These transmissions were cancelled for the duration of hostilities and the messages are now passed to Port Stanley, Falkland Islands, for inclusion in the FICOL collective broadcasts issued by Falklands Radio (VPC).

Observations have been taken at Cape Pembroke or Port Stanley in the Falkland Islands since 1850, with occasional intervals, and a forecasting office was opened at Port Stanley by the Royal Navy in 1941. The administration of this was transferred to the Meteorological Office, London, in 1947 and an Upper Air Unit was opened in the same year.

As a result of negotiations between the Colonial Office, the Meteorological Office, London, and the Governor of the Falkland Islands, meteorological activities in the Falkland Islands and Dependencies have now been co-ordinated into a unified service under the Falkland Islands and Dependencies Administration, with headquarters at Port Stanley. The Upper Air Unit at Port Stanley continues to be operated by the Meteorological Office, London, but close liaison is maintained with the meteorological section of the Survey.

2. Functions of the Service

The Meteorological Service is the Government service of the Falkland Islands and Dependencies. Most of its stations are in the Antarctic Dependencies and the service is therefore constituted as an integral part of the Falkland Islands Dependencies Survey. The Chief Meteorological Officer works in close liaison with the Secretary of the Survey, who assists the Governor in its general administration.

General policy is directed by the Governor after consultation, as required, with the Secretary of State for the Colonies. The Chief Meteorological Officer is responsible to the Governor for the technical efficiency of the meteorological service, and seeks advice, as required, from the Director of the Meteorological Office, London. The Colony is represented in the international field by the appropriate United Kingdom department, while the Chief Meteorological Officer at Port Stanley deals with routine matters such as the distribution of synoptic and climatic data.

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.

(ii) Provision of local forecasts in the Falkland Islands for the general public 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 borne on the Falkland Islands Dependencies votes, with a contribution from the Colony. The estimates for the financial year 1950–51 are shown at Appendix I.

3. Forecasting Services

(a) Port Stanley. – The main forecasting office is at Port Stanley, East Falklands, whence local forecasts were broadcast for the Falkland Islands at 1500 and 2100* G.M.T. daily on 4500 Kc/s. for the benefit of farmers and the general public. Information was supplied on request, to the Government Air Service which operates over the Falkland Islands and forecasts were supplied by R/T to Deception Island, during the air operations in the Dependencies connected with the evacuation of Marguerite Bay. Regular forecasts were also passed to s. v. "John Biscoe" and H.M.S. "Bigbury Bay" while the ships were operating in Falkland Islands and Dependencies waters during the summer of 1949–50.

The projected services for whalers operating in the area *70° W* to *40° W* and South of *50° S*, was not introduced owing to inadequate W/T communications.

(b) South Georgia. – On 1st January the observing station at Grytviken was taken over from the Compania Argentina de Pesca, which had previously maintained it. A forecaster was attached to the station and a limited forecasting service was started on January 20th. Two forecasts were issued daily at 1530 and 2030 G.M.T. on 500 and 8333 Kc/s for the area *50° S* to *65° S* and *60° W* to *0° W*. These were retransmitted in Norwegian by Salvesens of Leith Harbour, for the benefit of their catchers. The service was continued to the end of the whaling season. Preliminary reports indicated that it proved useful to both pelagic and shore-based whaling concerns and the service was therefore resumed in the 1950–51 season.

4. Reporting Stations

It is difficult to find suitable sites for observing stations in the Antarctic because open locations with free exposures in all directions are very rare and permanent stations must be close to sheltered anchorages. There are also problems in relieving stations in certain areas, due to ice conditions. These factors militate against the even geographical distribution which is desirable.

Full synoptic reporting stations were maintained at :–

Port Stanley	...	East Falklands
Grytviken	...	South Georgia
Signy Island	...	South Orkneys
Admiralty Bay	...	South Shetlands
Deception Island	...	South Shetlands
Port Lockroy	...	West Grahamland
Argentine Islands	...	West Grahamland

With very few exceptions, observations were taken at 3–hourly intervals and pilot balloon ascents were made whenever conditions were suitable. Reports for 12, 18 and 23 G.M.T. and the results of all balloon ascents were transmitted to Port Stanley for inclusion in the collective messages (FICOLS) which were issued by Falklands Radio Station (VPC). The stations were all fully equipped and were manned by trained meteorological observers seconded from the Air Ministry. Reports from the Antarctic stations are invaluable now that forecasts are issued to the whaling fleets.

Subsidiary reporting stations were maintained at :—

Port Stephens	...	West Falklands
Fox Bay	...	" "
Pebble Island	...	" "
Darwin	...	East Falklands

Reports were transmitted once or twice daily to Port Stanley by R/T or W/T and were used primarily to aid local forecasting for the Air Service and the general public. The stations were well equipped with essential instruments and were maintained by enthusiastic part-time observers who are rapidly gaining experience.

5. Ship Reports

The provision of forecasts for the whaling companies was hampered by the paucity of ships' observations. Very few ships operate in the area apart from whaling vessels, and the latter encypher their position when making synoptic reports. This problem was further aggravated by the late arrival of the ships' position cyphers and by inadequate W/T facilities at both South Georgia and Port Stanley.

* Weekdays only

6. Communications

Almost all communications for the service were handled by Falklands Radio (VPC). Synoptic reports from the Antarctic stations were collected through Deception Island and the reports from Grytviken, South Georgia, were transmitted direct to VPC. The synoptics from Port Stanley and upper air soundings obtained by the British Meteorological Office unit were included with the reports from all other main reporting stations in collective messages (FICOLS), which were broadcast at 1315, 1915 and 0100 G.M.T.

For the greater part of the year, reports from subsidiary stations in the Falklands were collected by land line or by W/T. Later, however, the Meteorological Office was placed on the Colony's R/T link and reports from all stations except Fox Bay were collected direct. Reports from the subsidiary stations were used for local forecasting only and were not included in the FICOL transmission. Use was sometimes made of the R/T service to collect special reports and that channel has also been employed to communicate with the aircraft during flight.

Most of the synoptic information received from South America was handled by VPC but this had to be limited to data for 12 and 18 G.M.T. owing to other commitments at the radio station. Shortage of staff prevented the introduction of a scheme to train meteorological observers to handle these messages, though the work was eventually taken over from VPC after the acquisition of a W/T operator for the Meteorological Office.

In South Georgia the transmission of synoptic messages to VPC and the issue of forecasts to whalers was undertaken by the Government Radio Station (ZBH). Broadcast synoptic messages required for forecasting were taken by a meteorological observer with previous experience as a W/T operator and he was assisted, later in the year, by another observer who taught himself to read morse.

7. Climatology

Plans were drawn up in consultation with the Director, Meteorological Office, London, for the following publications :—

Daily Weather Report, Monthly Weather Report, Annual Climate Summaries.

It is expected that the first issue of these publications will be made during 1951 and arrangements are being made for data from previous years to be prepared for publication under the supervision of the Climatological Section of the British Meteorological Office.

Detailed monthly climatological returns were prepared by all main reporting stations on the lines of those used by stations in the British Isles and simpler returns were started at the subsidiary stations in the Falklands.

In previous years, forecasters from various sources were often engaged as Base meteorologists and, while these officers were sometimes well equipped to undertake special work, they lacked experience in preparation of standard climatological returns. The task of preparing these had been greatly simplified by the secondment of trained and experienced observers from the British Meteorological Office.

8. Organisation

On January 1st the office at Port Stanley was transferred from the British Meteorological Office, to become the head-quarters of the newly constituted local service (FIDS). The Chief Meteorological Officer was loaned to take charge of the service and the Director, Meteorological Office, London, agreed that the R/Sonde Officer-in-Charge of the Upper Air Unit in Port Stanley (which remains a United Kingdom commitment) should render assistance with forecasting duties and act as deputy to the Chief Meteorological Officer whenever the latter was absent from Port Stanley.

Meteorological Instructions were drawn up at headquarters, covering observing and reporting techniques, climatological summaries, instruments (with particular reference to their operation under Antarctic conditions), stores, etc. These instructions, which incorporated helpful advice from the Arctic Section of the Canadian Meteorological Service, were issued to all main reporting stations.

Senior meteorological observers were appointed at each station, who came under the instructions of the base leader for all purposes but were responsible to the Chief Meteorological Officer for the technical aspects of their work. No difficulty was experienced.

9. Staff

The headquarters establishment of one senior assistant and four observers were all locally recruited Government officers but three resignations occurred in the early part of the year, two of them due to changes of domicile, and only one apprentice was obtained to undergo training. The staff shortage became still more critical with the death of the Senior Assistant in September, and a Senior Assistant and three observers were obtained on secondment from the British Meteorological Office. The loss of the locally recruited staff (three of whom were able to receive broadcast synoptic messages) resulted in the failure of a scheme to handle all incoming messages at the Meteorological Office, though the provision of a W/T operator in November ensured that the essential services were maintained.

The station at South Georgia was manned by a forecaster who had had considerable experience in the British Meteorological Office, and three observers, two of whom had been trained there.

The Director, Meteorological Office, London, undertook to supply a nucleus of trained men in future years, provided that his own staff situation permits.

10. Instrumental Equipment

All supplies were handled by the Crown Agents for the Colonies, with the help and advice of the Instrument Branch of the British Meteorological Office, from whom much of the equipment was purchased. All main stations were fully equipped with modern instruments for taking routine observations and discussions were opened with the Instrument Development Branch of the British Meteorological Office about special equipment for operation under Antarctic conditions.

11. Publications

In addition to the climatological publications referred to at paragraph 7, a Gazetteer of stations is in course of preparation and should be ready for publication towards the end of 1951.

12. International Cooperation

Synoptic reports and Upper Air data for the Falkland Islands and Dependencies area have been transmitted by fast air mail to the Massachusetts Institute of Technology as part of the Southern Hemisphere Chart Project.

APPENDIX I

Provision in Dependencies Estimates for Meteorological Services July 1950 – June 1951

HEADQUARTERS

			£	
Head	4A	Personal Emoluments	3,786	
,,	4B	Stores, Equipment etc.	1,665	
,,	4C	Extension to Headquarters buildings and permanent equipment	557	
		Total Headquarters Expenditure		£6,008

ANTARCTIC REPORTING STATIONS, INCLUDING SOUTH GEORGIA

Head	5A	Personal Emoluments (Meteorological Staff) ...	5,880	
,,	5B	Meteorological Equipment and Publications ...	4,100	
,,	5C	Special Expenditure on Meteorological Equipment ...	2,000	
		Total Expenditure		£11,980
		Total Expenditure – Dependencies		£17,988

Provision in Colony's Estimates for Meteorological Services – 1950

Head	VIIIa	Personal Emoluments, voluntary observers ...	100	
,,	VIIIb2	Contribution towards cost of Headquarters ...	196	
,,	VIIIb3–6	Stores equipment etc.	125	
,,	XVIIIb	Equipment for subsidiary stations	650	
		Total Expenditure – Colony		£1,071
		GROSS TOTAL		£19,059

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PRICE ONE SHILLING.

FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

Annual Meteorological Tables

1951

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Prepared in conjunction with

The Meteorological Office, London.

CONTENTS

Note: Full details of sites and exposures will be published in the Meteorological Gazetteer which is in course of preparation.

Notes on the Tables

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

Maximum, minimum temperatures and rainfall are read twice, at the synoptic hours closest to 0900 and 2100 Zone Time (*i.e.* 1200 and midnight G.M.T. for all stations), and the day for these purposes therefore ends at midnight G.M.T. Thus the term *daily* is used in the tables to imply twenty-four hours in either of the two senses defined above.

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

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

4. Days of abnormal maximum and minimum temperatures. These entries are intended to pick out occasions of abnormally high or low maxima or minima. Different limits are therefore chosen for stations as follows :—

	Stanley	Grytviken	All other Stations
High minima	$\geq$ 50°F.	$\geq$ 41°F.	$\geq$ 32°F.
Low maxima	$\leq$ 32°F.	$\leq$ 23°F.	$\leq$ 5°F.
Low minima	$\leq$ 23°F.	$\leq$ 14°F.	$\leq$ –4°F.
High maxima	$\geq$ 68°F.	$\geq$ 59°F.	$\geq$ 41°F.

5. A *day of wind speed* = $\geq$ *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.

6. A *day of rain*, *snow*, *sleet*, *drizzle*, *hail*, *thunder* or *fog* is a day on which an occurrence was observed at the station, at any time of that day. Ice needles are counted as *snow*; granular snow and soft hail as *hail*, for this purpose.

7. 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 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 less than 4 oktas.

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

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

10. 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.

11. The cloud height summary is concerned primarily with significant cloud (international definition) and 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 8000 ft.) 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 8000 ft.; it is then counted as *low* cloud for the purposes of this summary.

* At Stanley, observations were taken from 0800–2000 daily. The three night-time observations (2300, 0200 and 0500) were extracted from autographic records, supplemented by eye observations of weather, cloud height and amount taken at Cape Pembroke Lighthouse.

FALKLAND ISLANDS AND DEPENDENCIES
METEOROLOGICAL SERVICE

ANNUAL METEOROLOGICAL TABLES 1951

Amendments dated 1st November 1952

Annual Meteorological Table for Stanley, Falkland Islands, 1951

Page 1. Under DAILY MEAN SEA LEVEL PRESSURE *amend as follows* :—

May	1001.8	to read	1001.3
Total	12034.3	to read	12033.8
Mean	1002.9	to read	1002.8

Annual Upper Air Data for Stanley, Falkland Islands, 1951

Page 7. *Insert the following note below the table* :—

Total number of ascents — 308, of which :—

308 reached 400 mbs.	293 reached 300 mbs.
280 reached 200 mbs.	220 reached 100 mbs.

Page 8. *Insert the following note below the table* :—

Directions in twelve 30-degree sectors *i.e.* directions from 345° to 014° fall in column headed 350 to 010.

Annual Meteorological Table for Stanley, Falkland Islands. 1951.

MONTH	M. S. L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	Mean [1] Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	997.1	1016.6	28th	974.5	14th	43.5	43.9	48.5	50.3	50.7	49.5	46.0	43.8	47.0	54.1	41.3	66	12th	35	9th
February	1000.9	1024.8	14th	979.3	1st	43.5	43.5	48.7	51.8	52.0	49.5	46.6	44.6	47.5	55.2	41.6	68	8th	34	25th
March	1001.7	1023.3	4th	977.8	16th, 17th	42.2	41.9	45.2	48.5	49.4	46.9	43.9	42.7	45.1	51.8	40.0	62	25th	34	5, 22, 31
April	1012.1	1028.4	20th	980.1	29th	43.1	42.5	44.3	48.7	49.5	46.8	44.8	43.9	45.9	51.1	40.3	60	2nd	35	13th, 21st
May	1001.8	*1029.3*	28th	977.3	1st	38.4	38.1	38.7	41.5	41.7	40.1	39.6	38.8	39.6	43.7	35.3	50	12th, 22nd	29	28th, 29th
June	1000.8	1027.3	19th	*958.2*	4th	35.5	35.0	35.5	37.8	38.5	36.3	36.0	35.3	36.2	40.3	31.6	47	11th	*22*	7th
July	1001.1	1024.1	7th	973.8	17th	34.8	34.9	35.2	37.5	38.1	36.1	35.8	35.2	35.9	40.2	32.0	47	24th	24	19th, 20th
August	1005.3	1026.5	27th	980.2	21st	36.2	36.4	37.0	39.3	40.1	38.3	37.3	36.6	37.7	41.8	33.5	51	31st	23	2nd
September	1006.0	1027.1	17th	976.0	21st	34.5	34.4	35.8	39.7	39.3	37.4	35.4	34.7	36.4	42.3	31.7	49	1st	25	28th
October	1001.3	1028.7	1st	981.5	27th	36.6	36.4	40.1	42.7	43.0	41.0	38.0	37.2	39.4	45.3	34.5	56	31st	25	16th
November	1000.1	1019.7	30th	966.5	13th	39.3	39.8	43.7	45.2	44.9	43.4	40.7	39.7	42.1	47.6	37.2	57	10th	34	2, 11, 18, 24
December	1006.1	1023.7	1st	980.2	5th	44.2	45.2	49.9	52.6	52.9	51.3	47.4	45.3	48.6	56.7	42.6	*71*	25th	37	6th, 9th
Total	12034.3	12299.5	—	11705.4	—	471.8	472.0	502.6	535.6	540.1	516.6	491.5	477.8	501.4	570.1	441.6	624	—	357	—
Mean	1002.9	1025.0	—	975.5	—	39.3	39.3	41.9	44.6	45.0	43.1	40.9	39.8	41.8	47.5	36.8	52.0	—	29.8	—

Annual Meteorological Table for Stanley, Falkland Islands, 1951.

MONTH.	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at [1]								12 Daily Mean.	Mean at [1]								12 Daily Mean	Mean (Hrs)	% of Poss.	Total.	Max. Fall	Date
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	88	86	79	74	72	76	84	89	81	6.5	6.5	6.5	6.2	6.1	6.1	6.2	6.0	6.3	6.94	43.0	83.7	9.6	8th
February	91	91	81	74	75	79	85	90	83	5.6	6.2	6.1	6.2	6.5	6.5	6.3	5.6	6.1	5.61	38.8	65.3	*26.9*	12th
March	91	91	83	73	72	79	86	90	83	5.3	5.7	6.1	5.8	5.3	5.8	5.5	5.2	5.6	5.63	45.2	43.0	8.9	14th
April	94	93	91	82	78	86	91	93	89	5.5	5.5	6.0	6.2	5.5	5.3	5.2	5.3	5.6	4.16	39.6	32.8	20.8	24th
May	89	89	88	85	81	86	86	86	86	5.9	6.0	6.0	6.1	6.3	7.0	6.0	6.0	6.2	2.33	26.1	53.7	9.5	30th
June	90	92	91	88	84	87	88	90	89	5.6	5.8	5.8	5.7	5.3	5.3	5.0	5.3	5.5	2.63	33.5	82.4	18.2	3rd
July	88	88	88	86	86	89	89	88	88	5.9	6.1	6.5	6.2	6.3	6.1	5.4	5.2	6.0	2.26	27.0	32.3	5.9	17th
August	91	91	92	89	85	89	92	92	90	5.4	6.5	7.0	6.7	6.5	6.5	6.2	5.9	6.3	1.95	19.9	43.1	13.8	20th
September	91	90	91	81	83	88	92	90	88	6.4	6.5	5.8	5.8	6.4	6.2	5.7	6.1	6.1	4.58	39.6	43.1	6.7	20th
October	93	90	88	84	84	86	93	92	89	6.3	6.6	6.7	6.8	6.8	6.7	6.0	5.9	6.5	4.19	29.8	53.1	10.5	8th
November	90	89	80	79	81	83	88	91	85	6.3	6.2	6.3	6.3	6.6	6.4	5.7	6.1	6.2	5.24	33.8	76.0	11.6	27th
December	95	94	84	79	78	80	90	93	87	6.1	6.4	6.0	5.8	5.8	5.8	5.7	5.5	5.9	6.77	40.6	78.1	20.6	4th
Total	1091	1084	1036	974	959	1008	1064	1084	1038	70.8	74.0	74.8	73.8	73.4	73.7	68.9	68.1	72.3	52.29	416.9	686.6	163.0	—
Mean	91	90	86	81	80	84	89	90	86	5.9	6.2	6.2	6.2	6.1	6.1	5.7	5.7	6.0	4.36	34.7	57.2	13.6	—

Annual Meteorological Table for Stanley, Falkland Islands, 1951.

MONTH	WEATHER : No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	7	7	8	9	10
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	≥ 0.10 mms	≥ 1.0 mms	≥ 10.0 mms	WIND FORCE ≥ 6	WIND FORCE ≥ 8	RAIN	SNOW	SLEET	DRIZZLE	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	≥ 50°F	≤ 32°F	≤ 23°F	≥ 68°F																
January	0	0	0	0	24	17	0	20	3	29	0	2	3	7	1	1	12	0	0	1	0
February	3	0	0	0	17	13	2	20	6	21	0	2	5	2	1	2	10	0	0	0	0
March	0	0	0	0	17	11	0	17	2	17	0	1	4	3	1	4	8	0	0	5	0
April	0	0	0	0	10	7	1	14	3	12	0	0	9	1	0	6	12	2	0	6	0
May	0	0	0	0	25	15	0	24	5	24	9	10	9	8	0	7	11	0	2	16	0
June	0	1	1	0	23	15	2	14	6	17	8	8	11	4	0	7	9	1	7	22	1
July	0	2	0	0	20	9	0	18	3	19	15	4	9	3	0	5	14	0	4	22	0
August	0	1	1	0	25	12	1	18	4	20	6	4	13	4	0	13	19	0	2	12	0
September	0	1	0	0	25	13	0	21	3	20	17	17	3	13	0	3	13	1	4	24	0
October	0	0	0	0	24	14	1	19	5	21	6	7	8	6	2	4	17	0	2	15	1
November	0	0	0	0	23	13	2	14	4	24	0	4	2	6	0	2	13	1	0	9	0
December	7	0	0	3	15	10	3	17	3	21	0	0	6	4	1	6	9	0	0	0	0
Total	10	5	2	3	248	149	12	216	47	245	61	59	82	61	6	60	147	5	21	132	2
Mean	—	—	—	—	21	12	1	18	4	20	5	5	7	5	—	5	12	—	2	11	—

Annual Meteorological Table for Stanley, Falkland Islands, 1951.

MONTH	2 MEAN WIND SPEED	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	16.7	4	67	113	61	3	13	8	16	0	0	0	10	46	54	28	32	38
February	17.1	10	59	97	54	4	9	10	1	3	3	13	18	31	33	25	44	30
March	13.5	4	32	115	93	4	19	27	12	5	3	9	25	25	31	25	32	31
April	14.3	4	30	129	75	2	21	5	0	0	1	0	4	21	30	19	44	93
May	17.8	11	67	123	47	0	34	25	7	5	8	2	16	21	19	38	37	36
June	14.8	9	36	113	75	7	16	11	10	2	2	1	6	26	39	57	40	23
July	16.5	10	44	135	54	5	19	7	1	0	1	4	12	19	22	51	62	45
August	15.2	6	47	116	76	3	36	12	6	2	4	2	5	13	31	27	34	73
September	16.8	3	61	125	51	0	25	2	1	1	2	6	13	50	27	41	42	30
October	16.9	13	55	127	49	4	30	19	7	2	4	3	12	50	30	18	26	43
November	16.2	13	47	105	71	4	11	25	14	8	5	26	16	42	27	28	22	12
December	14.8	8	32	137	63	8	13	8	6	4	3	8	6	43	18	8	60	63
Total	190.6	95	577	1435	769	44	246	159	81	32	36	74	143	387	361	365	475	517
Mean	15.9	8	48	120	64	4	21	13	7	3	3	6	12	32	30	30	40	43

Annual Meteorological Table for Stanley, Falkland Islands, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	> 6000	30	60	120	300	600	1200	2400	6000	> 6000	
January	0	2	0	0	0	1	28	108	54	55	14	38	72	70	51	3	3	0	1	35	(9) 67	(17) 127	(2) 1	8	6	3	0	1	18	(5) 24	(2) 34	(1) 0	2	0	0
February	0	2	0	1	0	3	22	100	61	35	12	40	60	59	50	3	3	1	3	(3) 32	(9) 80	(11) 91	(4) 2	5	7	3	0	3	(3) 23	(5) 24	(6) 20	(2) 0	2	1	0
March	0	4	1	0	0	1	19	76	77	70	20	47	69	58	49	5	5	1	2	(1) 35	(9) 83	(13) 99	(5) 3	13	5	5	0	1	(1) 18	(6) 31	(5) 16	(2) 0	1	0	2
April	0	4	0	2	1	12	58	73	54	36	33	48	55	32	67	5	5	3	15	(3) 60	(7) 72	52	0	23	2	5	2	14	(2) 40	(4) 15	10	0	5	0	8
May	0	5	4	3	2	10	36	89	74	25	14	28	58	74	63	11	11	5	13	36	(11) 107	(15) 61	(1) 1	13	1	11	5	11	18	(7) 35	(10) 25	(1) 0	3	0	0
June	0	12	3	9	7	3	31	77	59	36	10	50	63	48	43	26	26	1	9	32	(9) 89	(9) 73	0	7	0	26	1	9	21	(8) 24	(6) 7	0	0	0	3
July	0	2	2	2	3	4	38	127	42	28	8	16	83	66	39	6	6	1	10	57	(15) 95	(23) 71	(3) 0	6	1	6	1	10	13	(8) 23	(14) 13	(1) 0	0	0	1
August	0	5	2	12	8	13	41	102	37	28	12	44	55	43	79	15	15	5	25	(3) 60	(20) 85	(20) 46	(1) 0	10	2	15	5	19	(2) 29	(14) 22	(13) 7	0	6	0	0
September	0	1	0	3	2	5	31	102	51	42	12	30	51	75	70	2	2	3	6	(1) 37	(16) 112	(31) 65	(8) 3	7	2	2	3	5	(1) 15	(11) 40	(19) 15	(4) 1	3	0	3
October	0	1	3	5	1	4	46	87	64	37	17	46	51	45	81	8	8	0	4	60	(15) 73	(23) 84	(6) 2	8	9	8	0	4	40	(11) 20	(14) 13	(1) 0	2	2	0
November	0	1	1	0	1	6	37	67	59	68	16	41	32	59	90	2	2	1	8	52	(16) 70	(23) 86	(9) 5	9	1	2	1	8	33	(12) 36	(14) 18	(3) 1	2	0	6
December	0	3	1	3	5	6	27	88	61	54	12	75	52	57	46	6	6	5	15	(3) 61	(4) 60	(15) 83	(8) 6	6	6	6	2	12	(3) 24	(3) 19	(7) 8	(2) 0	0	0	0
Total	0	42	17	40	30	68	420	1096	693	514	180	533	701	686	728	92	92	26	111	(14) 557	(140) 993	(200) 938	(47) 23	115	42	92	20	97	(12) 292	(94) 313	(110) 186	(17) 2	26	3	23
Mean	—	3	1	3	3	6	35	91	58	43	15	44	58	57	61	8	8	2	9	(1) 46	(12) 83	(17) 78	(4) 2	10	3	8	2	8	(1) 24	(8) 26	(9) 16	(1) —	2	—	2

Annual Meteorological Table for Stanley, Falkland Islands, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	6	8	6	1	2	2	4	4	2	5	11	14	65
2	17	11	9	6	10	6	3	13	16	19	35	34	179
3	29	30	20	12	5	20	25	35	52	80	125	92	525
4	75	34	28	6	13	13	40	79	124	122	186	172	892
5	58	28	12	3	1	8	28	61	76	80	78	110	543
6	33	36	3	3	2	18	13	112	60	39	33	66	418
7	17	7	2	1	3	5	16	53	25	10	4	16	159
= 8	11	5	1	0	0	2	14	30	6	10	3	13	95
Total	246	159	81	32	36	74	143	387	361	365	475	517	2876

CALMS 44

Annual Upper Air Data for Stanley, Falkland Islands, 1951.

(By the Air Ministry Radio Sonde Unit)

←— MEAN AIR AND DEW POINT TEMPERATURES (in degrees Fahrenheit) FOR 1100 L.M.T. (1500 G.M.T.) ~~1500 G.M.T.~~ AT STANDARD LEVELS

Time of launch 1000 L.M.T.

S

LEVEL ~~MONTH~~ I.C.A.N.	Surface		900 mbs. 3,240 ft.		800 mbs. 6,390 ft.		700 mbs. 9,876 ft.		600 mbs. 13,792 ft.		500 mb. 18,278 ft.		400 mbs. 23,561 ft.		300 mbs. 30,049 ft.		200 mbs. 38,640 ft.		100 mbs. 53,044 ft.	
MONTH	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	~~Dew~~	Air	Dew	Air	Dew
January	50.3	43.4	40.0	30.4	31.1	21.5	21.7	10.3	9.1	-5.1	-5.7	-20.7	-23.8 (15)	-37.3 (14)	-46.5 (15)	-49.6	-56.3 (14)	—	-52.8 (12)	—
February	48.6	44.5	42.0	33.1	34.3	23.6	23.9	8.2	11.9	-1.8	-3.8	-18.1	-21.7 (14)	-38.1 (14)	-45.0 (14)	~~-54.0~~	-54.0 (14)	—	-55.4 (14)	—
March	47.4	40.0	39.4	29.0	31.3	16.3	21.7	4.6	10.5	-10.3	-4.8	-23.6	-23.9 (31)	-39.3 (28)	-46.8 (21)	-51.8	-56.4 (2[illegible])	~~-60.0~~	-57.2 ([illegible])	—
April	47.9	42.8	43.0	31.1	35.6	18.1	26.0	3.4	12.5	-6.8	-3.7	-22.6	-23.5 (28)	-40.3 (27)	-49.2 (2[illegible])	-54.7	-70.0 (24)	—	-67.2 (21)	—
May	40.5	37.2	33.7	27.4	26.6	11.9	16.0	-0.9	2.9	-10.4	-13.1	-25.6	-33.1 (16)	-43.2 (14)	-57.1 (15)	—	-71.5 (15)	—	-66.0 (13)	—
June	35.5	33.3	30.3	26.1	21.4	12.2	11.2	-1.7	-3.9	-15.6	-19.1	-31.0	-38.9 (27)	-43.0 (15)	-58.8 (2[illegible])	—	-68.9 (27)	—	-69.7 (25)	—
July	36.8	33.3	30.1	24.5	22.7	11.6	11.3	-0.7	-2.0	-13.1	-18.4	-28.6	-37.4 (27)	-44.3 (17)	-62.5 (26)	—	-74.3 (26)	—	-74.0 (20)	—
August	38.8	35.8	33.6	24.7	25.2	9.6	13.7	-2.0	-0.2	-15.1	-15.1	-32.3	-35.2 (30)	-44.4 (23)	-58.5 ([illegible])	—	-73.4 (27)	—	-69.6 (19)	—
September	39.0	34.8	28.0	23.0	18.4	6.9	6.8	-5.9	-6.3	-21.6	-23.9	-38.1	-42.6 (30)	-47.8 (9)	-62.7 (27)	—	-67.7 (24)	—	-62.1 (15)	—
October	42.0	36.6	32.4	27.1	23.2	15.4	12.1	2.1	-1.7	-11.7	-18.3	-29.2	-38.5 (31)	-43.7 (18)	-60.7 (27)	—	-71.5 (27)	—	-66.1 (18)	—
November	44.7	38.1	34.0	28.3	24.1	17.5	14.4	3.0	0.8	-13.0	-15.6	-28.5	-36.7 (27)	-46.1 (21)	-59.3 (26)	—	-60.0 (26)	—	-51.5 (18)	—
December	52.2	45.8	46.3	34.8	36.4	24.9	24.8	12.7	11.5	-2.0	-4.5	-16.3	-24.4 (30)	-35.5 (28)	-49.6 (30)	~~-47.7~~	-65.0 (27)	—	-54.1 (20)	—
													(308)	(220)	(271)		(282)		(220)	
Total	523.7	465.6	432.8	339.5	330.3	189.5	203.6	33.1	45.1	-126.5	-146.0	-314.6	-379.7	-503.0	-656.7	-257.8	-789.0	-60.0	-745.7	—
Mean	43.6	38.8	36.1	28.3	27.5	15.8	17.0	2.8	3.8	-10.5	-12.2	-26.2	-31.6	-41.9	-54.7	—	-65.7	—	-62.1	—

~~— Time of launch 1400 G.M.T.~~

Note: Figures in brackets for each above column show the number of observations used to compute each mean. All ascents reached 400 mb. but Dew Points at air temperatures less than −40 °F were considered unreliable and were not used in computing means. Insufficient reliable observations were available to show means of dew point above ... mb.

Annual Upper Air Data for Stanley, Falkland Islands. 1951.

(By the Air Ministry Radio Sonde Unit)

UPPER WINDS: Number of Observations for 1100 L.M.T (1500 G.M.T) of:-

Pressure Level (ICAN)	Mean Speed	Speeds (knots)											Calms and Light Variable	Directions (degrees)											Number of Ascents
	Knots	0 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		350 to 010	020 to 040	050 to 070	080 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	
Surface	17.4	56	154	84	17	5	0	0	0	0	0	0	1	26	20	7	3	3	4	21	45	46	27	53	60	316
900 mbs. 3,240 ft.	25.4	30	83	95	73	32	3	0	0	0	0	0	2	12	7	4	5	1	2	15	42	65	69	56	36	316
800 mbs. 6,390 ft.	27.3	16	76	104	77	39	4	0	0	0	0	0	0	10	6	4	1	3	4	12	49	64	81	49	33	316
700 mbs. 9,876 ft.	29.5	15	62	94	83	57	5	0	0	0	0	0	0	11	4	1	2	3	3	17	35	66	94	53	27	316
600 mbs. 13,792 ft.	33.2	11	50	84	77	81	11	2	0	0	0	0	2	8	3	2	1	5	2	18	34	68	78	74	21	316
500 mbs. 18,278 ft.	37.9	13	37	65	68	102	25	5	1	0	0	0	2	4	2	1	1	3	5	14	36	66	92	63	27	316
400 mbs. 23,561 ft.	45.3	8	24	49	59	103	55	11	6	1	0	0	1	7	3	0	1	5	3	16	43	65	80	68	24	316
300 mbs. 30,049 ft.	54.4	5	20	36	46	82	71	24	16	7	0	0	0	6	2	0	2	2	3	11	47	63	71	74	26	307
200 mbs. 38,640 ft.	51.0	0	15	36	37	93	74	21	7	3	0	0	0	3	1	0	0	1	1	8	32	63	99	60	18	286
100 mbs. 53,044 ft.	44.1	0	30	26	31	49	42	13	1	1	0	0	0	0	0	0	0	0	0	3	10	47	94	36	3	193
Total	—	154	551	673	568	643	290	76	31	12	0	0	8	87	48	19	16	26	27	135	373	613	785	586	275	2998

Annual Meteorological Table for Grytviken, South Georgia, 1951.

MONTH	M. S. L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0100	0400	0700	1000	1300	1600	1900	2200		Max.	Min.	Max.	Date	Min.	Date
January	990.6	1016.6	30th	961.7	26th	38.5	37.5	38.8	40.4	43.4	42.4	40.7	39.1	40.1	46.7	34.8	69	19th	31	18th
February	993.6	1017.3	28th	*953.5*	26th	42.1	41.3	41.3	42.9	45.6	46.7	43.9	42.9	43.3	51.3	38.3	63	16th	33	6, 12, 27, 28
March	1001.2	1028.3	23rd	969.0	18th	38.5	37.5	37.7	40.2	43.1	42.8	41.1	39.3	40.0	46.6	35.6	58	13th	30	7th
April	1005.2	1029.9	16th	982.3	30th	40.1	39.2	39.3	40.6	44.0	43.9	42.8	41.6	41.4	48.7	34.8	*71*	7th	28	25th
May	996.9	1026.7	31st	971.5	14th	33.3	33.0	32.6	33.2	34.9	34.8	34.3	33.4	33.7	39.2	28.4	60	23rd	21	30th, 31st
June	996.4	1024.2	21st	963.7	8th	31.2	31.4	31.5	30.9	32.6	32.8	31.6	31.5	31.7	38.1	26.0	54	23rd	17	28th
July	994.1	1028.0	9th	961.7	16th	28.1	28.4	28.6	28.9	30.0	29.6	29.1	28.8	28.9	33.9	23.5	47	18th	17	7th
August	1006.2	1029.5	10th	973.6	14th	26.4	25.7	25.8	26.9	30.4	29.4	27.8	27.5	27.5	34.3	21.6	47	28th	*12*	4th
September	997.7	1019.1	7th	967.2	28th	31.4	30.8	31.1	32.2	34.3	34.2	33.0	31.3	32.3	38.6	26.5	52	1st	16	15th
October	996.4	*1033.8*	4th	956.9	17th	30.9	30.9	31.9	33.3	34.5	34.1	32.0	31.2	32.3	37.5	27.8	49	7th	21	19th
November	998.8	1017.8	22nd	969.1	9th	32.0	31.4	33.0	34.9	35.7	36.1	34.1	32.7	33.7	38.7	29.2	54	15th	22	22nd, 27th
December	998.7	1015.1	1st 12th,	978.7	26th	35.9	35.9	37.1	39.2	40.9	40.1	38.6	37.2	38.1	44.5	33.1	58	5th	23	1st
Total	11975.8	12286.3	—	11608.9	—	408.4	403.0	408.7	423.6	449.4	446.9	429.0	416.5	423.0	498.1	359.6	682	—	271	—
Mean	998.0	1023.9	—	967.4	—	34.0	33.6	34.1	35.3	37.5	37.2	35.7	35.5	35.3	41.5	30.0	57	—	23	—

Annual Meteorological Table for Grytviken, South Georgia, 1951.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0100	*0400*	*0700*	*1000*	*1300*	*1600*	*1900*	*2200*		*0100*	*0400*	*0700*	*1000*	*1300*	*1600*	*1900*	*2200*						
January	76	80	79	74	67	67	70	76	74	5.6	6.6	6.8	6.2	5.4	5.8	6.0	6.4	6.1	4.93		304.9	67.6	25th
February	75	78	77	74	65	61	67	70	70	5.0	5.7	6.3	5.8	5.7	5.8	5.5	5.0	5.6	5.45		130.8	63.4	25th
March	83	85	85	82	74	75	76	80	80	5.5	5.4	6.1	6.2	5.8	5.4	5.5	5.3	5.7	3.93		295.2	*151.9*	1st
April	73	72	74	72	66	66	67	68	70	4.5	4.6	5.2	5.5	5.5	5.6	4.6	4.2	5.0	2.58		50.8	15.5	25th
May	81	82	81	80	80	79	80	79	80	3.7	4.0	4.8	5.5	5.6	5.2	3.9	3.8	4.6	0.97		135.7	45.7	1st
June	77	77	79	78	76	74	74	77	77	4.3	4.7	4.5	5.4	5.3	4.7	4.0	4.5	4.7	0.01		108.9	17.7	6th
July	74	71	71	73	71	74	76	74	73	4.2	4.0	5.2	5.7	5.1	5.4	4.8	4.0	4.8	0.37		79.7	18.7	31st
August	73	74	74	73	67	72	71	74	72	3.9	4.3	4.9	4.8	5.4	5.0	4.1	3.7	4.5	2.41	Not known	94.3	29.4	12th
September	75	75	73	73	70	71	72	72	73	4.2	4.1	5.5	5.6	5.6	5.5	5.2	4.2	5.0	3.59		137.8	38.4	21st
October	80	78	77	75	72	74	80	84	78	5.7	5.6	6.3	6.3	5.6	5.7	5.9	5.5	5.8	4.63		98.3	24.5	26th
November	84	84	82	79	75	73	78	84	80	6.2	6.4	6.4	6.7	6.6	6.3	6.8	6.6	6.5	4.54		105.5	30.5	7th
December	80	80	74	68	64	67	72	78	73	5.8	5.9	6.2	6.5	6.4	6.2	6.5	6.1	6.2	4.48		31.8	11.7	28th
Total	931	936	926	901	847	853	883	916	900	58.6	61.3	68.2	70.2	68.0	66.6	62.8	59.3	64.5	37.89		1573.7	515.0	—
Mean	78	78	77	75	71	71	74	76	75	4.9	5.1	5.7	5.9	5.7	5.5	5.2	4.9	5.4	3.17		131.1	42.9	—

Annual Meteorological Table for Grytviken, South Georgia, 1951.

MONTH	WEATHER: No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	6	7	7	8	9	10
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	≥ 0.10 mms	≥ 1.0 mms	≥ 10.0 mms	WIND FORCE ≥ 6	WIND FORCE ≥ 8	RAIN	SNOW	SLEET	DRIZZLE	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	≥ 41°F	≤ 23°F	≤ 14°F	≥ 59°F																	
January	3	0	0	2	23	21	9	14	2	21	5	9	2	1	1	0	14	0	2	Not recorded	0
February	5	0	0	5	13	10	3	13	1	13	2	6	7	0	0	3	10	0	0		0
March	4	0	0	0	16	12	6	5	0	15	0	5	7	0	0	1	13	1	0		0
April	10	0	0	4	15	9	1	14	3	13	8	2	1	2	0	3	6	1	0		0
May	1	0	0	1	18	14	3	5	0	11	11	3	3	1	0	2	5	4	9		2
June	0	0	0	0	17	15	5	8	3	6	24	4	4	2	0	1	5	2	30		1
July	0	0	0	0	16	14	2	9	0	2	19	4	2	3	0	1	7	3	31		7
August	0	3	1	0	11	9	3	6	0	3	10	2	4	4	0	0	9	4	31		4
September	0	1	0	0	22	16	5	8	2	10	18	6	4	0	1	0	9	1	30		3
October	0	0	0	0	14	10	4	7	2	5	13	1	5	0	0	0	13	2	25		5
November	1	0	0	0	16	11	3	3	0	8	16	2	5	5	0	1	16	0	15		0
December	2	0	0	0	17	10	1	8	0	14	11	5	7	1	0	1	14	0	4		0
Total	26	4	1	12	198	151	45	100	13	121	137	49	51	19	2	13	121	18	177		22
Mean	2	—	—	1	17	13	4	8	1	10	11	4	4	2	—	1	10	1	15		2

Annual Meteorological Table for Grytviken, South Georgia, 1951.

MONTH	2 Mean Wind Speed	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	9.9	2	20	80	85	61	35	5	1	8	12	5	3	2	7	18	34	57
February	9.1	1	32	53	67	71	18	5	5	22	5	3	6	4	4	16	28	37
March	4.6	0	4	38	101	105	19	3	3	33	12	4	6	3	5	8	18	29
April	11.1	6	43	66	61	64	11	2	2	10	13	6	6	4	14	27	37	44
May	5.2	0	5	57	60	126	20	4	1	6	4	7	3	6	5	8	13	45
June	7.9	6	14	66	65	89	13	4	2	5	5	4	2	3	16	18	26	53
July	8.0	0	15	79	65	89	15	2	0	8	10	4	1	0	11	26	31	51
August	6.9	0	6	79	77	86	24	4	1	2	10	17	9	1	19	17	14	44
September	10.4	3	11	116	58	52	34	3	1	6	10	3	2	1	12	26	37	53
October	7.0	3	11	58	95	81	28	6	3	10	17	15	2	5	14	12	21	34
November	6.4	0	10	49	109	72	36	12	3	16	37	9	4	2	5	1	10	33
December	6.9	0	12	51	111	74	40	5	2	27	31	6	1	0	8	8	10	36
Total	93.4	21	183	792	954	970	293	55	24	153	166	83	45	31	120	185	279	516
Mean	7.8	2	15	66	79	81	24	5	2	13	14	7	4	3	10	15	23	43

Annual Meteorological Table for Grytviken, South Georgia, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [11]																NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	≤ 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	30	60	120	300	600	1200	2400	6000	> 6000	30	60	120	300	600	1200	2400	6000	> 6000	
January	0	0	1	9	1	17	48	37	64	71	15	58	49	59	65	2	2	3	3	(1) 19	(4) 51	(24) 147	(2) 8	11	3	2	0	0	9	(4) 28	(15) 43	(2) 2	4	0	1
February	0	0	2	6	4	11	40	29	62	70	10	80	42	39	51	2	3	7	20	(2) 20	(6) 36	(20) 116	(10) 12	4	1	2	0	12	(1) 8	(3) 11	(12) 18	(4) 2	1	0	5
March	0	4	0	3	13	8	25	52	70	73	34	51	49	50	61	3	3	7	(1) 18	(2) 32	(13) 46	(11) 91	(5) 17	13	0	3	1	12	(1) 18	(11) 22	(6) 21	2	1	0	21
April	0	1	1	2	11	7	21	36	96	65	36	80	33	46	41	4	4	4	7	10	(1) 36	(5) 103	(5) 40	19	3	4	1	4	9	22	(1) 25	(2) 3	1	0	14
May	0	2	2	3	4	2	25	43	100	67	62	53	56	29	40	8	8	1	3	8	(1) 30	(4) 101	(4) 35	16	11	8	1	2	4	19	(4) 25	(1) 0	4	1	35
June	0	1	0	3	4	8	35	44	63	82	60	50	26	37	50	17	17	0	0	7	37	(3) 86	(1) 33	22	9	17	0	0	5	30	(2) 33	1	2	1	29
July	0	0	3	7	2	5	38	46	62	85	49	61	33	45	46	14	14	1	1	(1) 9	(1) 33	(9) 112	(1) 29	19	2	14	0	0	(1) 7	(1) 21	(8) 29	(1) 2	2	1	28
August	0	0	0	5	4	6	24	35	62	112	74	46	33	40	45	10	10	0	1	2	(2) 28	(8) 107	(2) 26	24	10	10	0	0	1	(1) 16	(8) 42	(2) 3	4	0	40
September	0	0	0	6	4	7	38	53	54	78	37	58	32	60	36	17	17	2	0	(3) 16	(19) 51	(21) 98	(1) 19	11	4	17	0	0	(2) 7	(10) 21	(5) 28	(1) 0	2	0	22
October	0	0	0	6	6	4	39	73	66	54	17	44	46	61	67	13	13	2	0	(3) 13	(14) 73	(24) 98	(3) 32	4	2	13	0	0	(1) 8	(8) 45	(15) 24	(3) 3	0	0	11
November	0	0	0	11	4	7	37	78	68	35	1	37	43	71	79	9	9	0	0	19	(7) 64	(43) 114	(6) 33	1	0	9	0	0	17	(6) 38	(34) 31	(2) 3	1	0	0
December	0	0	0	3	1	6	47	80	57	54	11	48	57	60	70	2	2	1	3	(3) 26	(6) 71	(51) 104	(6) 30	6	5	2	0	1	(2) 18	(4) 33	(37) 14	(2) 1	0	1	0
Total	0	8	9	64	58	88	417	606	824	846	406	666	499	597	651	101	102	28	(1) 56	(15) 181	(74) 556	(223) 1277	(46) 314	150	50	101	3	31	(8) 111	(48) 306	(137) 333	(20) 22	22	4	296
Mean	—	1	1	5	5	7	35	50	69	70	34	55	42	50	54	8	9	2	5	(1) 15	(6) 46	(19) 106	(4) 26	13	4	8	—	3	(1) 9	(4) 25	(11) 28	(2) 2	2	—	17

Annual Meteorological Table for Grytviken, South Georgia, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	72	17	7	62	37	28	16	9	21	28	20	36	353
2	74	21	5	37	35	11	11	4	11	19	18	42	288
3	60	16	11	39	32	13	8	5	6	13	32	78	313
4	74	1	1	15	43	26	8	5	30	40	87	183	513
5	11	0	0	0	9	5	1	3	25	42	71	112	279
6	1	0	0	0	9	0	0	3	15	25	35	51	139
7	0	0	0	0	1	0	1	2	4	10	14	12	44
= > 8	1	0	0	0	0	0	0	0	8	8	2	2	21
Total	293	55	24	153	166	83	45	31	120	185	279	516	1950

CALMS 970.

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

MONTH	M.S.L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[2] Daily Mean	Extremes [3]				Mean at [1]								[2] Daily Mean	[1] Mean Daily		Extremes		
		High	Date	Low	Date	0001	0300	0600	0900	1200	1500	1800	2100		Max.	Min.	Max.	Date	Min.	Date
January	983.8	1012.2	29th	963.1	1st	32.3	32.0	32.1	33.0	33.7	34.3	33.6	32.8	33.0	35.8	30.0	49	31st	26	21st
February	987.3	1006.2	1st	961.7	19th	34.0	33.9	33.7	34.5	35.4	35.2	34.5	33.8	34.4	37.2	31.4	51	1st	25	28th
March	996.5	1016.3	4th	970.7	2nd	34.1	33.8	33.6	33.9	34.2	34.3	33.9	33.9	34.0	36.6	30.9	44	5th, 10th	16	30th
April	994.6	1016.3	15th	971.0	29th	33.5	33.3	33.7	34.3	34.1	34.2	34.1	34.0	33.9	38.5	30.1	52	18th	19	19th
May	995.2	1024.8	27th	941.9	2nd	24.8	24.6	24.4	24.2	24.7	24.7	24.9	25.1	24.7	29.8	20.1	41	20th	−3	27th
June	987.9	1011.7	19th	948.4	5th	22.9	22.5	22.4	22.4	22.6	23.4	22.6	21.9	22.6	29.1	15.7	41	22nd	−14	28th
July	989.0	1017.4	8th	958.4	27th	12.8	12.6	11.6	11.3	12.9	13.1	14.1	13.7	12.8	20.5	5.6	37	10th	−15	17th
August	997.7	1020.4	10th	963.1	13th	16.2	17.3	17.5	16.8	18.1	17.5	17.5	18.1	17.4	24.6	9.7	44	31st	−23	2nd
September	988.8	1012.4	18th	955.3	21st	21.9	21.7	21.6	21.8	22.5	22.0	22.1	21.7	21.9	27.8	16.0	38	7th	−7	14th
October	994.9	1024.5	3rd	967.1	15th	24.1	23.5	23.5	24.0	25.8	26.0	25.4	24.7	24.6	28.5	20.2	38	7, 11, 27,	5	23rd
November	1001.9	1021.6	22nd	976.1	14th	25.2	24.5	25.2	25.5	26.5	26.8	26.5	26.1	25.8	28.7	22.6	37	16th, 29th	13	3rd
December	996.5	1008.3	11th	976.3	6th	31.4	30.7	31.7	32.0	32.7	32.6	32.1	31.2	31.8	35.2	28.6	48	14th	23	7th
Total	11914.1	12192.1	—	11553.1	—	313.2	310.4	311.0	313.7	323.2	324.1	321.3	317.0	316.9	372.3	260.9	520	—	65	—
Mean	992.8	1016.0	—	962.8	—	26.1	25.9	25.9	26.1	26.9	27.0	26.8	26.4	26.4	31.0	21.7	43.3	—	5.4	—

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0001	*0300*	*0600*	*0900*	*1200*	*1500*	*1800*	*2100*		*0001*	*0300*	*0600*	*0900*	*1200*	*1500*	*1800*	*2100*						
January	86	86	87	84	83	84	85	87	85	7.6	7.7	7.7	7.4	7.4	7.3	7.6	7.4	7.5	1.77	Not known	Not recorded	Not recorded	Not recorded
February	86	85	86	85	84	83	85	84	85	7.2	7.3	7.7	7.5	7.4	7.5	7.4	7.6	7.4	1.17				
March	89	90	90	88	86	86	87	90	88	7.3	7.6	7.4	7.4	7.4	7.2	7.1	7.0	7.3	1.24				
April	90	90	89	88	87	87	88	88	88	6.8	7.3	7.0	6.8	7.1	7.1	7.1	7.0	7.0	1.11				
May	85	86	84	86	88	85	85	85	85	6.1	6.3	6.1	6.8	6.8	6.6	6.1	5.7	6.3	0.47				
June	85	84	85	84	85	85	86	86	85	6.2	6.2	6.3	7.2	6.6	7.5	7.2	7.1	6.8	0.26				
July	79	80	80	80	79	79	79	79	79	6.3	6.2	5.9	6.5	6.5	7.2	6.5	6.6	6.5	0.40				
August	79	80	82	81	79	81	81	78	80	5.4	6.0	5.8	6.0	6.2	6.6	5.9	5.3	5.9	1.47				
September	84	85	84	83	83	82	84	86	84	6.5	5.9	6.8	6.6	6.6	6.8	7.3	6.0	6.6	1.86				
October	82	84	82	83	80	81	80	80	81	6.4	6.6	6.9	6.4	6.3	6.1	6.5	6.5	6.5	3.18				
November	84	85	85	85	82	82	82	84	84	7.5	7.7	7.6	7.5	7.6	7.5	7.6	7.5	7.6	1.39				
December	85	85	85	85	83	84	82	84	84	7.7	7.9	7.8	7.6	7.8	7.9	7.6	7.6	7.7	0.63				
Total	1014	1020	1019	1012	999	999	1004	1011	1008	81.0	82.7	83.0	83.7	83.7	85.3	83.9	81.3	83.1	14.95				
Mean	85	85	85	84	83	83	84	84	84	6.7	6.9	6.9	7.0	7.0	7.1	7.0	6.8	6.9	1.25				

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

MONTH	WEATHER: No. of Days [1]																			
	Temperature [4]				Precipitation [1]			[5]	[5]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[7]	[7]	[8]	[9]	[10]
	High Min.	Low Max.	Low Min.	High Max.	≥ 0.10 mms	≥ 1.0 mms	≥ 10.0 mms	Wind Force ≥ 6	Wind Force ≥ 8	Rain	Snow	Sleet	Drizzle	Hail	Thunder	Fog	Cloudy	Clear	Snow Lying	Ground Frost	Drift
	≥ 32°F	≤ 5°F	≤ −4°F	≥ 41°F																	
January	9	0	0	2	Not recorded	Not recorded	Not recorded	14	2	12	21	6	12	1	0	3	26	0	Not recorded	Not recorded	0
February	17	0	0	4				19	6	14	15	7	7	1	0	0	23	0			1
March	15	0	0	6				18	3	12	14	5	10	1	0	3	23	0			0
April	20	0	0	6				27	13	17	15	6	11	1	0	3	20	0			0
May	4	1	0	0				18	7	7	23	3	2	0	0	1	18	0			0
June	1	1	1	0				18	6	3	24	1	4	0	0	1	22	0			1
July	1	10	10	0				24	3	2	22	4	1	3	0	2	21	0			3
August	4	7	7	1				18	11	2	21	3	3	2	0	3	14	2			4
September	3	1	1	0				23	12	5	21	6	2	2	0	0	15	0			0
October	4	0	0	0				15	2	4	25	8	3	2	0	1	18	1			1
November	0	0	0	0				10	3	1	21	4	4	3	0	3	24	0			0
December	7	0	0	2				11	2	7	16	7	12	2	0	5	30	0			0
Total	85	20	19	21				215	70	86	238	60	71	18	0	25	254	3			10
Mean	7	2	2	2				18	6	7	20	5	6	1	—	2	21	—			1

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

MONTH	2 Mean Wind Speed	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	13.1	4	25	120	70	29	15	2	7	7	19	1	7	2	21	55	78	5
February	16.8	9	61	85	63	6	8	2	7	5	23	2	3	4	14	51	96	3
March	14.3	9	49	88	67	35	8	2	2	4	54	4	4	3	18	43	68	3
April	21.6	35	84	83	28	10	1	1	1	0	6	2	1	1	14	45	155	3
May	15.5	9	59	95	63	22	14	8	11	10	64	5	6	1	10	33	57	7
June	15.8	15	48	90	58	29	3	8	9	8	24	4	4	4	36	20	89	2
July	15.5	6	69	76	75	22	7	1	2	1	29	14	4	3	22	52	76	15
August	15.2	22	54	69	63	40	11	2	2	4	11	3	9	4	25	20	103	14
September	19.2	31	69	72	56	12	4	3	2	3	16	0	9	3	36	52	91	9
October	13.2	4	51	74	96	23	6	0	3	10	33	4	14	5	16	39	87	8
November	11.4	3	23	82	113	19	5	7	8	15	108	20	12	2	10	13	21	0
December	11.3	4	32	80	97	35	2	5	1	5	29	8	4	9	14	53	79	4
Total	182.9	151	624	1014	849	282	84	41	55	72	416	67	77	41	236	476	1000	73
Mean	15.2	13	52	84	71	24	7	3	5	6	35	6	6	3	20	40	83	6

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [11]																NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	≤ 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	30	60	120	300	600	1200	2400	6000	≥ 6000	30	60	120	300	600	1200	2400	6000	≥ 6000	
January	0	1	3	3	4	12	38	47	44	96	8	10	20	44	166	0	0	1	30	(4) 56	(8) 85	(11) 66	2	7	1	0	1	28	(4) 44	(7) 67	(11) 31	2	2	0	0
February	*0*	*0*	*0*	*0*	*6*	*4*	*51*	*42*	*48*	*73*	17	7	22	30	148	0	0	0	47	44	(5) 62	(14) 52	2	15	0	0	0	40	30	(5) 48	(13) 22	1	6	0	2
March	0	0	0	5	9	0	29	71	37	97	13	14	30	34	155	2	2	3	25	56	(6) 71	(8) 74	4	8	3	2	3	18	44	(6) 56	(8) 35	1	5	0	2
April	0	1	0	3	5	8	25	81	82	35	24	10	35	25	145	1	1	1	12	74	(2) 52	(6) 68	(4) 8	15	2	1	1	11	57	(2) 40	(6) 34	6	10	0	7
May	0	0	0	1	7	16	44	67	54	59	24	31	30	35	128	0	0	0	26	53	(1) 70	(3) 67	(6) 8	10	1	0	0	25	46	(1) 39	(3) 27	(4) 3	1	0	13
June	0	0	2	2	7	20	58	54	46	51	20	17	27	31	145	0	0	0	21	(2) 82	(1) 46	(7) 61	(5) 10	8	0	0	0	21	(1) 72	28	(5) 32	(1) 7	3	0	12
July	0	0	1	5	14	13	52	55	39	69	36	19	15	42	135	1	1	0	27	56	(5) 90	(8) 36	(7) 2	10	8	1	0	24	48	(2) 66	(4) 13	(5) 0	4	2	18
August	0	0	0	10	4	11	34	53	63	73	44	27	26	35	116	0	0	0	7	55	(2) 73	(1) 55	(2) 14	15	1	0	0	5	49	(2) 51	25	(1) 3	4	0	28
September	0	1	3	2	4	11	40	58	52	69	20	24	22	41	133	0	0	0	7	41	(8) 101	(2) 69	(1) 2	6	5	0	0	6	25	(8) 83	(2) 37	2	1	4	9
October	0	0	0	2	6	3	29	37	67	104	28	26	29	39	126	0	0	0	10	52	(1) 77	(12) 74	(4) 8	12	4	0	0	5	35	(1) 57	(11) 41	(4) 5	2	0	11
November	0	1	1	3	6	5	28	32	41	123	0	9	22	34	171	4	4	2	4	36	(3) 118	(11) 73	(6) 3	0	0	4	2	4	29	(3) 93	(8) 47	(3) 3	0	0	0
December	0	0	1	3	5	8	35	32	61	103	3	3	14	36	191	1	1	3	34	60	(6) 98	(8) 45	(13) 4	1	2	1	3	28	47	(6) 79	(8) 30	(13) 3	1	0	0
Total	0	4	11	39	77	111	463	629	634	952	237	197	292	426	1759	9	9	10	250	(6) 665	(48) 943	(91) 740	(48) 67	107	27	9	10	215	(5) 526	(43) 707	(79) 374	(31) 36	39	6	102
Mean	—	—	1	3	6	9	39	52	53	79	20	16	24	36	147	1	1	1	21	55	(4) 79	(8) 62	(4) 6	9	2	1	1	18	44	(4) 59	(7) 31	(3) 3	3	—	8

Annual Meteorological Table for Signy Island, South Orkneys, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	1	3	5	15	26	10	12	2	14	17	16	2	123
2	12	6	9	9	60	18	24	16	36	34	41	4	269
3	15	10	11	16	84	20	28	14	55	105	81	18	457
4	18	7	9	14	111	12	10	6	59	117	168	9	540
5	17	7	9	9	64	4	1	2	38	101	207	15	474
6	9	4	7	2	36	3	2	0	24	52	215	11	365
7	9	1	0	5	27	0	0	1	8	36	164	8	259
$=>8$	3	3	5	2	8	0	0	0	2	14	108	6	151
Total	84	41	55	72	416	67	77	41	236	476	1000	73	2638

CALMS 282.

Annual Meteorological Table for Admiralty Bay, South Shetlands. 1951.

MONTH	M. S. L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	985.8	1008.4	30th	961.7	12th	32.2	32.4	33.7	34.1	34.2	33.6	33.2	32.2	33.2	36.6	30.0	50	31st	25	21, 22, 27
February	987.6	999.2	10th	971.1	19th	34.8	34.7	35.2	36.4	36.3	36.0	35.2	34.9	35.4	39.3	32.4	50	11th	24	20th
March	996.5	1012.6	5th, 6th	976.9	25th	33.6	33.2	33.9	34.3	34.9	34.4	33.6	33.5	33.9	37.0	30.8	46	6th, 7th	22	20th
April	990.7	1011.4	19th	971.7	28th	35.8	35.3	35.1	35.5	35.2	35.5	35.6	35.8	35.5	39.0	31.9	46	17th	22	19th
May	994.9	1029.8	28th	967.1	1st	27.8	27.9	27.5	27.6	27.6	27.1	27.2	27.6	27.5	31.1	22.7	38	20th	9	22nd
June	989.9	1009.5	19th	968.5	26th	23.5	24.3	24.0	23.2	22.1	21.9	21.8	22.5	22.9	28.1	15.6	35	2nd	1	15th
July	988.7	1013.3	7th	955.3	26th	20.2	19.8	20.1	20.7	20.3	20.2	20.3	20.0	20.2	26.1	14.2	30	8th	1	14th, 17th
August	992.8	1017.1	10th	956.5	31st	22.1	22.7	23.1	23.8	24.1	23.5	23.6	23.1	23.3	28.3	17.7	37	11th, 21st	−2	16th
September	992.1	1018.9	30th	960.1	1st	22.0	21.7	22.5	24.1	24.4	23.1	23.1	22.7	22.9	28.9	17.3	35	20th, 30th	5	11th
October	993.2	1020.1	2nd	969.8	27th	27.4	26.6	27.7	28.5	28.8	28.7	28.2	27.7	27.9	31.9	24.0	39	4th	11	14th
November	1002.8	1018.9	22nd	981.1	14th	28.1	28.5	29.6	30.3	30.7	30.2	29.2	28.6	29.4	32.4	26.3	40	30th	16	4th
December	996.8	1009.2	2nd	975.9	14th	34.4	34.5	35.9	36.9	36.8	36.6	36.0	35.0	35.8	39.5	32.4	46	28th	27	6th
Total	11911.8	12168.4	—	11615.7	—	341.9	341.6	348.3	355.4	355.4	350.8	347.0	343.6	347.9	398.2	295.3	501	—	161	—
Mean	992.7	1014.0	—	968.0	—	28.5	28.5	29.0	29.6	29.6	29.2	28.9	28.6	29.0	33.2	24.6	41.7	—	13.4	—

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1951.

MONTH.	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300						
January	85	85	82	81	82	83	83	85	83	7.2	7.2	6.5	6.9	7.0	7.2	7.2	6.9	7.0	3.21	Not known	Not recorded	Not recorded	Not recorded
February	86	87	85	88	82	85	87	88	86	7.0	6.8	6.5	7.0	6.7	7.1	7.2	7.2	6.9	2.50				
March	86	87	84	84	82	84	85	85	85	6.6	6.5	6.6	7.2	7.0	7.0	6.6	6.4	6.7	1.63				
April	86	87	83	81	85	84	86	85	85	6.5	6.2	6.2	6.4	6.6	6.7	6.3	6.5	6.4	1.03				
May	87	87	89	85	84	84	84	84	85	6.5	6.5	6.4	6.6	6.3	6.2	5.9	5.7	6.3	0.22				
June	85	86	85	86	85	85	84	86	85	6.2	6.3	6.8	7.1	7.1	6.6	6.2	6.3	6.6	0.00				
July	82	85	85	83	83	81	81	84	83	5.9	6.0	6.5	6.8	6.0	5.9	6.5	6.5	6.3	0.11				
August	84	85	83	82	83	83	82	84	83	5.5	6.1	6.5	6.0	6.2	5.8	5.7	5.3	5.9	0.98				
September	80	80	80	80	79	78	80	79	79	4.6	5.4	5.8	5.8	5.3	5.4	4.9	4.9	5.3	2.87				
October	83	83	82	80	79	80	81	82	81	6.1	6.2	6.5	6.3	6.2	6.1	6.1	6.1	6.2	3.13				
November	81	82	80	80	80	81	81	82	81	6.9	7.1	7.4	7.1	7.0	7.1	6.8	6.8	7.0	1.72				
December	85	84	82	80	80	82	83	86	83	6.9	6.5	6.2	6.4	6.1	6.0	6.4	5.9	6.3	4.30				
Total	1010	1018	1000	990	984	990	997	1010	999	75.9	76.8	77.9	79.6	77.5	77.1	75.8	74.5	76.9	21.70				
Mean	84	85	83	83	82	83	83	84	83	6.3	6.4	6.5	6.6	6.5	6.4	6.3	6.2	6.4	1.81				

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1951.

MONTH	WEATHER : No. of Days [1]																			
	Temperature [4]				Precipitation [1]			[5]	[5]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[7]	[7]	[8]	[9]	[10]
	High Min.	Low Max.	Low Min.	High Max.																	
	≥ 32°F	≤ 5°F	≤ −4°F	≥ 41°F	= ≥ 0.10 mms	= ≥ 1.0 mms	= ≥ 10.0 mms	Wind Force = ≥ 6	Wind Force = ≥ 8	Rain	Snow	Sleet	Drizzle	Hail	Thunder	Fog	Cloudy	Clear	Snow Laying	Ground Frost	Drift
January	12	0	0	4	Not recorded	Not recorded	Not recorded	10	3	9	21	15	10	1	0	0	21	0	Not recorded	Not recorded	0
February	21	0	0	6				11	4	11	11	6	16	1	0	1	19	0			1
March	18	0	0	7				11	3	12	11	3	6	2	0	2	19	0			3
April	24	0	0	8				26	11	22	11	9	11	7	0	0	15	0			1
May	3	0	0	0				15	4	5	20	6	9	1	0	0	15	1			10
June	0	0	0	0				17	8	1	28	6	4	1	0	0	18	0			16
July	3	0	0	0				18	4	3	25	3	5	2	0	0	18	0			12
August	2	0	0	0				18	10	1	25	6	2	1	0	0	17	0			19
September	0	0	0	0				16	4	0	19	2	1	1	0	0	11	2			11
October	3	0	0	0				20	3	3	22	7	8	2	0	0	17	0			5
November	4	0	0	0				8	0	1	21	3	7	4	0	0	25	0			7
December	23	0	0	8				9	3	14	10	4	9	1	0	0	17	0			0
Total	113	0	0	33				179	57	82	224	70	88	24	0	3	212	3			85
Mean	9	—	—	3				15	5	7	19	6	7	2	—	—	18	—			7

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1951.

MONTH	2 Mean Wind Speed	WIND : Number of observations, at all hours, of :—																
		Forces (Beaufort)					Directions (degrees)											
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	11.3	3	12	110	92	31	29	9	19	41	21	3	4	12	21	18	17	23
February	11.8	10	18	74	84	38	31	14	9	24	4	3	4	7	17	46	17	10
March	12.6	12	21	104	84	27	36	27	8	40	24	3	3	3	19	32	13	13
April	17.6	18	53	115	50	4	68	24	11	11	4	2	2	6	14	52	28	14
May	13.7	7	44	86	81	30	25	37	12	39	18	9	0	9	11	24	19	15
June	15.6	16	39	101	66	18	20	15	5	38	12	13	11	6	21	49	18	14
July	14.8	7	46	109	63	23	34	22	8	26	19	9	0	4	23	37	25	18
August	14.7	24	29	80	88	27	34	42	16	25	3	2	0	6	15	41	16	21
September	12.3	12	31	79	63	55	21	21	7	11	10	1	5	6	24	49	22	8
October	13.0	5	37	97	85	24	30	27	15	23	12	8	10	8	21	33	20	17
November	11.1	0	16	99	101	24	18	22	24	30	32	24	14	3	18	18	7	6
December	10.0	5	13	85	114	31	30	18	6	38	5	0	2	6	26	33	32	21
Total	158.5	119	359	1139	971	332	376	278	140	346	164	77	55	76	230	432	234	180
Mean	13.2	10	30	95	81	28	31	23	12	29	14	6	5	6	19	36	20	15

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]															NO CLOUD
																	All Amounts (metres)									7–8 Octas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	> 6000	30	60	120	300	600	1200	2400	6000	> 6000	
January	0	0	0	0	4	7	28	33	90	86	9	14	41	71	108	5	5	0	1	29	(8) 86	(22) 106	(10) 12	3	6	5	0	1	25	(7) 40	(19) 50	(9) 7	2	0	0
February	0	0	1	0	4	9	28	30	91	61	9	18	37	62	96	2	2	2	4	51	(14) 62	(11) 74	(14) 20	5	4	2	2	4	33	(14) 23	(9) 22	(12) 13	1	0	0
March	0	0	1	1	5	13	41	37	108	42	11	21	39	59	115	3	3	0	2	41	(16) 86	(7) 92	(5) 13	6	1	3	0	2	28	(16) 55	(5) 42	(4) 6	3	0	4
April	0	0	3	0	5	9	29	81	102	11	8	41	51	46	91	3	3	0	4	(2) 25	(14) 121	(16) 77	(7) 2	5	1	3	0	4	(2) 10	(12) 60	(11) 14	(3) 0	0	0	2
May	0	0	5	9	13	8	38	50	117	8	26	17	35	57	92	21	21	0	0	17	(1) 112	(3) 72	(3) 0	8	6	21	0	0	15	(1) 74	(3) 36	(2) 0	0	0	12
June	0	2	11	21	14	15	40	71	61	5	18	16	31	55	70	50	50	0	0	14	(1) 100	(2) 54	(3) 4	7	4	50	0	0	14	(1) 72	(1) 19	(3) 1	0	1	7
July	0	1	5	5	16	21	57	68	71	4	22	25	33	66	75	27	27	0	0	15	(1) 102	(4) 78	(3) 4	7	4	27	0	0	13	(1) 69	(2) 32	(3) 1	1	0	11
August	2	4	6	11	11	21	33	69	69	22	46	22	29	51	71	29	29	0	0	21	100	(8) 48	(3) 4	14	16	29	0	0	21	62	(8) 9	(3) 1	0	0	16
September	0	0	0	5	12	11	30	56	94	32	44	36	34	57	56	13	13	0	0	14	80	(5) 80	(1) 9	8	12	13	0	0	14	45	(4) 27	(1) 3	0	0	24
October	0	0	0	4	12	13	29	47	113	30	24	27	42	79	63	13	13	0	0	19	(3) 100	(8) 87	(8) 5	5	10	13	0	0	15	(2) 53	(5) 33	(7) 2	2	1	9
November	0	0	1	12	12	14	15	29	127	30	4	23	31	80	78	24	24	1	1	10	(2) 72	(20) 103	(24) 25	3	0	24	1	1	7	(2) 36	(14) 40	(22) 12	2	0	1
December	0	0	0	0	0	14	6	46	134	48	15	32	47	81	73	0	0	0	2	(1) 26	(4) 95	(19) 93	(5) 17	8	7	0	0	1	(1) 19	(3) 48	(16) 36	(3) 6	3	1	0
Total	2	7	33	68	108	155	374	617	1177	379	236	292	450	764	988	190	190	3	14	(3) 282	(64) 1116	(125) 964	(86) 115	79	71	190	3	13	(3) 214	(59) 637	(97) 360	(72) 52	14	3	86
Mean	—	1	3	6	9	13	31	51	98	32	20	24	38	64	82	16	16	—	1	24	(5) 93	(10) 80	(7) 10	7	6	16	—	1	18	(5) 53	(8) 30	(6) 4	1	—	7

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	7	11	9	10	4	2	5	0	6	9	8	10	81
2	34	20	19	24	10	10	4	15	40	35	31	28	270
3	77	36	40	89	43	18	10	36	51	82	72	66	620
4	100	60	47	117	54	32	15	17	70	122	60	46	740
5	61	25	13	67	32	12	10	8	35	81	38	17	399
6	44	52	9	29	13	2	5	0	14	44	13	8	233
7	28	32	2	9	8	1	4	0	7	27	5	3	126
= 8	25	42	1	1	0	0	2	0	7	32	7	2	119
Total	376	278	140	346	164	77	55	76	230	432	234	180	2588

CALMS 332.

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

MONTH	M. S. L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	985.5	1007.1	30th	961.1	3rd	31.8	32.3	34.1	35.0	35.2	34.9	33.6	32.3	33.7	37.8	29.7	51	31st	23	19th
February	987.2	997.5	10th	971.1	17th	34.3	34.6	35.6	36.6	37.2	37.1	35.4	34.6	35.5	39.3	32.6	46	2nd	27	21st
March	995.8	1012.6	6th	973.0	25th	33.3	33.7	34.1	35.8	36.0	35.1	34.1	33.4	34.4	37.9	31.4	45	7, 22, 23	26	18, 20, 29
April	988.1	1010.9	19th	967.2	6th	34.2	34.1	33.9	34.6	35.0	34.3	33.9	34.3	34.3	38.0	30.5	47	17th	21	18th
May	994.1	1028.9	28th	965.6	1st	28.0	27.3	27.4	27.7	27.6	27.7	27.8	28.2	27.7	30.9	23.3	37	19th	13	22nd
June	988.9	1006.5	19th	969.9	26th	23.9	24.1	25.1	24.3	24.2	23.8	23.9	23.8	24.1	28.8	18.2	34	20th, 21st	5	27th
July	987.7	1011.5	7th	954.2	26th	19.2	19.2	20.2	19.5	19.3	19.2	19.7	19.3	19.5	25.0	14.0	37	8th	−2	14th
August	991.5	1017.3	9th	949.6	31st	21.1	21.2	21.6	23.3	23.0	22.3	22.3	21.8	22.1	27.2	15.8	39	21st	−1	2nd
September	991.8	1018.9	30th	957.5	2nd	21.0	20.6	20.8	22.5	22.1	21.8	22.1	21.4	21.5	27.6	15.7	36	20th	0	8th
October	992.4	1020.2	2nd	966.3	26th	26.6	26.3	27.0	28.2	28.1	28.0	27.5	26.7	27.3	30.3	23.9	39	4th	9	15th
November	1002.8	1019.4	22nd	982.3	14th	27.9	28.7	30.0	30.9	31.3	30.6	29.4	29.0	29.7	32.9	26.3	39	6th	18	1st
December	996.1	1009.0	2nd	975.1	14th	33.3	33.9	35.0	36.1	36.0	35.5	34.3	33.4	34.7	37.9	31.7	45	27th	27	6th
Total	11901.9	12159.8	—	11592.9	—	334.6	336.0	344.8	354.5	355.3	350.3	344.0	338.2	344.5	393.6	293.1	495	—	163	—
Mean	991.8	1013.3	—	966.1	—	27.9	28.0	28.7	29.5	29.6	29.2	28.7	28.2	28.7	32.8	24.4	41.3	—	13.6	—

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at								1-2 Daily Mean.	Mean at								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300						
January	87	87	86	83	81	81	83	85	84	6.9	6.8	7.0	7.0	7.1	6.6	6.1	6.5	6.7	3.59		65.9	15.3	10th
February	92	92	91	88	85	87	89	91	89	7.1	6.5	7.1	7.3	6.6	7.0	7.3	7.1	7.0	2.37		71.0	11.3	28th
March	87	87	87	85	85	85	86	87	86	6.9	7.1	6.9	6.9	7.4	7.1	7.0	6.4	7.0	1.34		89.3	18.0	24th
April	90	91	88	86	85	87	93	90	89	6.3	6.0	6.0	6.9	6.8	6.9	6.7	6.3	6.4	0.72		113.1	22.1	5th
May	91	90	89	89	90	93	91	90	90	6.5	6.8	6.6	6.6	6.2	6.3	6.0	5.7	6.3	0.09				
June	88	90	88	87	88	90	86	87	88	6.5	7.2	7.2	7.4	7.2	7.0	6.8	6.7	7.0	0.00				
July	87	88	89	88	88	90	88	88	88	6.0	6.8	7.1	6.6	6.6	6.8	6.9	6.6	6.7	0.00	Not known	Unreliable	Unreliable	Unreliable
August	90	89	88	88	89	90	91	90	89	6.4	6.6	6.3	6.4	6.6	6.7	5.8	6.1	6.4	0.40				
September	87	87	87	88	85	88	88	88	87	5.4	5.8	6.3	5.8	5.9	6.6	6.1	5.9	6.0	1.72				
October	88	88	88	84	83	87	88	89	87	6.8	7.0	7.1	6.4	6.5	6.4	6.2	6.4	6.6	2.46				
November	86	86	83	81	81	83	86	85	84	7.1	7.4	7.3	7.3	7.2	7.2	6.9	7.1	7.2	1.83			7.2	30th
December	91	91	86	84	86	87	89	91	88	7.1	6.8	6.6	6.8	7.1	7.2	7.2	7.2	7.0	2.62		54.0	7.8	14th
Total	1064	1066	1050	1031	1026	1048	1058	1061	1049	79.0	80.8	81.5	81.4	81.2	81.8	79.0	78.0	80.3	17.14		—	—	—
Mean	89	89	87	86	85	87	88	88	87	6.6	6.7	6.8	6.8	6.8	6.8	6.6	6.5	6.7	1.43		—	—	—

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

MONTH	WEATHER : No. of Days [1]																			
	Temperature [4]				Precipitation [1]			[5]	[5]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[7]	[7]	[8]	[9]	[10]
	High Min.	Low Max.	Low Min.	High Max.				Wind Force	Wind Force	Rain	Snow	Sleet	Drizzle	Hail	Thunder	Fog	Cloudy	Clear	Snow Lying	Ground Frost	Drift
	≥ 32°F	≤ 5°F	≤ −4°F	≥ 41°F	= ≥ 0.10 mms	= ≥ 1.0 mms	= ≥ 10.0 mms	= ≥ 6	= ≥ 8												
January	12	0	0	3	17	11	2	13	0	9	18	5	8	1	0	2	19	0	Not recorded	Not recorded	7
February	21	0	0	5	17	15	2	11	0	11	12	2	8	0	0	1	18	0			0
March	20	0	0	7	17	11	4	13	1	12	9	3	10	1	0	5	22	0			1
April	17	0	0	6	19	17	4	27	5	22	17	4	12	1	6	3	12	0			7
May	2	0	0	0				13	3	7	23	4	13	1	0	0	18	3			12
June	1	0	0	0				21	8	4	21	7	5	1	0	1	21	0			19
July	0	0	0	0				19	8	2	23	4	6	1	0	0	19	0			20
August	0	2	0	0				20	7	3	18	8	8	1	0	1	17	1			20
September	0	0	0	0	Unreliable	Unreliable	Unreliable	18	6	4	15	4	4	2	0	1	10	0			20
October	1	0	0	0				16	5	6	23	6	4	4	0	1	19	0			17
November	1	0	0	0	5	3	0	5	0	5	14	1	9	1	0	2	23	0			7
December	21	0	0	3	16	12	0	13	1	11	13	5	9	0	0	8	19	0			4
Total	96	2	0	24	—	—	—	189	44	96	206	53	96	14	0	25	217	4			134
Mean	8	—	—	2	—	—	—	16	4	8	17	4	8	1	—	2	18	—			11

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

MONTH	[2] MEAN WIND SPEED	WIND: Number of observations, at all hours, of:															
		FORCES (Beaufort)					DIRECTIONS (degrees)										
	KNOTS	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	CALM	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	11.5	0	21	125	57	45	10	10	46	6	1	2	2	5	38	35	29	19
February	12.5	0	25	109	67	23	4	7	24	10	2	2	3	0	17	55	41	36
March	12.3	1	30	115	70	32	19	10	47	20	2	0	3	2	21	23	33	36
April	19.9	19	83	105	20	13	17	8	13	3	0	0	0	0	24	43	66	53
May	12.8	8	30	98	65	47	27	15	42	15	2	1	0	4	20	15	32	28
June	18.9	29	59	91	38	23	5	5	25	23	4	1	4	2	58	42	27	21
July	17.0	19	49	119	41	20	20	12	38	9	4	0	0	3	35	46	36	25
August	16.3	11	54	121	43	19	19	14	29	5	1	0	1	1	15	54	53	37
September	16.8	21	38	119	43	19	11	3	14	5	3	0	4	6	59	47	33	36
October	16.4	12	54	111	57	13	19	7	48	4	0	2	4	4	25	38	54	29
November	9.4	0	15	83	90	52	8	5	78	35	14	7	0	1	3	12	17	8
December	13.3	1	37	109	78	23	11	8	54	7	2	0	0	1	9	60	46	27
Total *	177.1	121	495	1305	669	329	170	104	458	142	35	15	21	29	324	470	467	355
Mean	14.8	10	41	109	56	27	14	9	38	12	3	1	2	2	27	39	39	30

* Obs. missed — 1

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	≤ 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	30	60	120	300	600	1200	2400	6000	> 6000	30	60	120	300	600	1200	2400	6000	> 6000	
January	0	0	2	6	9	22	47	29	33	100	5	30	39	49	118	7	7	5	9	(3) 54	(14) 79	(24) 71	(3) 18	2	2	7	4	5	(3) 40	(11) 33	(16) 26	(3) 7	2	0	1
February	0	1	0	4	8	14	55	39	26	77	3	21	37	42	120	1	1	6	8	64	(12) 100	(23) 36	(9) 6	3	0	1	6	8	53	(8) 36	(14) 11	(7) 4	0	0	0
March	0	1	1	6	5	15	49	40	32	99	9	21	52	61	101	4	5	9	19	(1) 39	(10) 85	(20) 65	(13) 17	7	2	5	7	17	(1) 19	(8) 36	(14) 22	(9) 9	2	0	0
April	0	0	1	6	9	20	64	34	40	66	13	25	39	43	116	4	4	0	6	57	(8) 86	(21) 73	(2) 1	4	1	4	0	5	46	(3) 45	(18) 25	(2) 0	1	0	8
May	0	5	1	4	4	13	49	44	35	93	18	14	39	53	119	5	5	1	3	(4) 49	(2) 90	(10) 82	(1) 0	0	0	5	1	1	34	(2) 51	(5) 51	(1) 0	0	0	18
June	1	16	3	6	7	16	26	25	23	117	18	4	31	46	122	19	19	0	2	(1) 55	(3) 77	(11) 59	(1) 10	6	3	19	0	2	(1) 47	(1) 50	(8) 28	3	4	3	9
July	0	25	2	6	8	11	55	17	16	108	15	19	44	49	94	26	26	3	10	49	(6) 72	(15) 72	(1) 0	6	4	26	2	8	27	(3) 37	(9) 38	(1) 0	0	3	5
August	0	5	4	7	3	10	50	41	28	100	33	16	43	30	117	9	9	1	9	94	(18) 79	(13) 23	0	15	3	9	1	6	54	(11) 44	(10) 8	0	2	1	15
September	2	5	2	4	3	13	20	36	17	138	28	22	56	46	81	7	7	0	2	(2) 101	(16) 84	(14) 18	0	6	5	7	0	2	(1) 44	(8) 37	(8) 9	0	2	2	17
October	0	4	1	5	13	10	47	20	25	122	22	21	43	53	101	7	7	5	4	(1) 99	(11) 86	(15) 20	(1) 4	15	0	7	3	3	59	(5) 41	(8) 7	3	3	0	7
November	0	3	0	2	6	11	34	13	17	154	32	15	30	37	121	5	5	3	14	(1) 92	(21) 33	(27) 60	(4) 1	29	1	5	3	9	(1) 45	(16) 12	(19) 43	(4) 1	9	0	2
December	0	3	1	4	8	7	34	30	43	118	14	20	51	45	113	5	8	11	28	(9) 126	(43) 44	(20) 16	(1) 1	13	1	8	6	15	(7) 40	(35) 12	(16) 4	1	6	0	0
Total*	3	68	18	60	83	162	530	368	335	1292	210	228	504	554	1323	99	103	44	114	(22) 879	(164) 915	(213) 595	(36) 58	106	22	103	33	81	(14) 508	111 434	(145) 272	(27) 28	31	9	82
Mean	—	6	1	5	7	13	44	31	28	108	18	19	42	46	110	8	9	4	9	(2) 73	(14) 76	(18) 50	(3) 5	9	2	9	3	7	(1) 42	(9) 36	(12) 23	(2) 2	3	1	7

* Obs. missed — Visibility 1. Cloud 2.

Annual Meteorological Table for Deception Island, South Shetlands, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	7	2	3	3	1	1	1	1	1	5	2	5	32
2	13	10	14	7	11	6	9	5	12	24	48	18	177
3	32	19	54	36	9	5	4	4	29	61	128	79	460
4	47	29	120	41	8	2	7	10	80	177	160	137	818
5	35	23	104	27	3	1	0	6	69	101	55	63	487
6	23	17	85	10	0	0	0	3	56	64	42	28	328
7	9	2	44	5	2	0	0	0	40	27	19	19	167
= ⟩ 8	4	2	34	13	1	0	0	0	37	11	13	6	121
Total *	170	104	458	142	35	15	21	29	324	470	467	355	2590

* Obs. missed — 1

Annual Meteorological Table for Argentine Islands, 1951.

MONTH	M. S. L. PRESSURE (mbs.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	Mean Daily [1]		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	984.4	1003.1	30th	960.2	3rd	28.0	28.2	29.7	31.5	32.4	31.9	31.0	28.9	30.2	34.5	26.0	43	30th	17	15th, 27th
February	985.8	997.2	13th	968.2	17th	29.8	29.8	30.8	32.5	32.8	32.5	31.5	30.6	31.3	34.9	27.8	41	10th, 11th	20	20th
March	993.1	1009.8	6th	966.3	25th	31.2	31.5	31.7	32.7	32.9	32.3	31.6	31.5	31.9	36.1	28.3	*46*	14th	19	30th
April	983.5	1013.5	19th	952.9	6th	30.7	31.1	30.8	31.3	31.3	30.9	31.0	31.3	31.1	34.8	27.4	45	24th	22	27, 28, 30
May	992.5	*1029.0*	28th	964.9	19th	25.1	24.8	24.9	25.2	25.1	25.3	25.2	24.7	25.0	28.8	20.1	37	30th	11	26th, 27th
June	988.3	1004.8	13th	970.5	26th	19.6	20.2	19.6	19.8	19.1	18.9	19.4	18.6	19.4	26.0	12.9	33	4th	−5	25th
July	986.5	1010.1	7th, 8th	953.8	20th	12.0	12.4	11.9	12.7	12.5	12.0	10.9	11.2	11.9	19.8	2.7	39	8th	−12	24th
August	988.8	1014.0	9th	*944.7*	31st	16.5	16.8	16.8	17.6	17.9	17.4	17.0	16.5	17.1	24.7	7.7	39	11th 21st	*−33*	5th
September	992.7	1021.0	30th	955.1	2nd, 3rd	5.6	5.6	5.6	9.2	10.8	10.2	8.0	7.2	7.8	17.2	−2.3	34	19th	−20	8th
October	991.3	1020.8	1st	957.6	26th	19.8	19.7	21.6	24.3	25.4	25.5	22.4	20.2	22.4	29.6	15.5	41	26th	−18	14th
November	1002.6	1019.8	22nd	983.1	14th	27.1	27.2	28.4	30.5	31.0	30.6	28.8	28.1	29.0	33.2	25.3	39	6th	16	13th, 17th
December	995.0	1009.4	2nd	980.7	14th	31.2	31.6	32.0	32.5	33.2	32.9	32.3	31.6	32.2	35.9	29.7	41	24th	22	19th
Total	11884.5	12152.5	—	11558.0	—	276.6	278.9	283.8	299.8	304.4	300.4	289.1	280.4	289.3	355.5	221.1	478	—	39	—
Mean	990.4	1012.7	—	963.2	—	23.1	23.4	23.7	25.0	25.4	25.0	24.1	23.4	24.1	29.6	18.4	39.8	—	3.3	—

Annual Meteorological Table for Argentine Islands, 1951.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mms.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	90	89	87	84	79	82	84	88	85	6.6	6.5	6.8	6.8	6.0	6.0	6.1	6.5	6.4	4.76		30.5	6.6	30th
February	89	92	90	87	88	87	88	91	89	7.1	7.2	7.2	7.1	7.0	6.9	7.0	7.0	7.1	2.56		113.5	20.8	14th
March	86	86	85	83	84	87	86	87	85	6.5	6.9	7.1	7.1	6.7	7.1	6.8	6.7	6.9	2.22		84.9	*21.0*	3rd
April	91	91	91	88	87	88	88	88	89	7.3	7.7	7.8	7.7	7.7	7.7	7.0	7.3	7.5	0.28		111.3	19.9	16th
May	86	86	86	85	84	83	84	87	85	6.0	6.2	6.6	6.4	6.7	6.3	6.1	5.7	6.3	0.69		27.5	5.8	9th
June	84	84	86	85	84	86	84	87	85	6.9	7.2	7.7	7.1	7.0	6.6	6.8	7.0	7.0	0.07	Not known	42.3	16.4	28th
July	85	85	85	83	86	85	86	86	85	6.0	6.1	6.7	6.6	6.7	7.0	6.7	6.6	6.5	0.48		16.0	3.8	15th
August	88	88	90	89	86	87	90	89	88	7.3	6.9	7.4	7.3	7.4	7.5	7.2	6.8	7.2	0.71		32.7	5.3	29th
September	88	88	89	86	85	86	87	87	87	6.4	6.3	6.5	6.6	6.5	7.2	7.0	6.7	6.7	2.95		38.3	14.9	19th
October	92	92	90	86	86	87	90	91	89	7.2	7.3	7.3	6.6	7.0	6.7	6.6	6.5	6.9	2.98		19.6	4.6	4th
November	93	91	89	84	82	83	87	91	87	6.8	7.2	6.7	6.6	7.1	7.3	7.5	7.1	7.0	3.65		4.7	1.8	23rd
December	92	92	91	87	88	89	91	92	90	7.9	7.5	7.3	7.9	7.9	7.8	7.8	7.7	7.7	1.04		43.7	5.9	27th
Total	1064	1064	1059	1027	1019	1030	1045	1064	1044	82.0	83.0	85.1	83.8	83.7	84.1	82.6	81.6	83.2	22.39		565.0	126.8	—
Mean	89	89	88	86	85	86	87	89	87	6.8	6.9	7.1	7.0	7.0	7.0	6.9	6.8	6.9	1.87		70.6	10.6	—

Annual Meteorological Table for Argentine Islands, 1951.

MONTH	WEATHER : No. of Days [1]																		
	TEMPERATURE [4]				PRECIPITATION [1]			[5]	[5]	[6]	[6]	[6]	[6]	[6]	[6]	[7]	[7]	[8]	[9]	[10]
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	≥ 0.10 mms =	≥ 1.0 mms =	≥ 10.0 mms =	WIND FORCE ≥ 6 =	WIND FORCE ≥ 8 =	RAIN	SNOW	SLEET	DRIZZLE	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	≤ 32°F	≤ 5°F	≤ −4°F	≥ 41°F																	
January	3	0	0	1	15	8	0	1	0	4	21	5	5	8	0	4	19	1	Not recorded	Not recorded	0
February	7	0	0	0	17	15	4	5	0	8	15	11	9	7	0	9	23	1			0
March	10	0	0	5	15	10	4	9	2	13	8	8	5	2	0	5	24	0			0
April	7	0	0	1	25	17	3	18	5	12	24	8	9	9	0	4	27	0			4
May	0	0	0	0	16	10	0	9	1	0	20	10	5	5	0	0	18	1			4
June	0	2	1	0	17	8	1	10	3	0	24	5	5	0	0	2	22	0			10
July	0	10	10	0	16	5	0	10	1	0	24	7	1	1	0	5	22	1			12
August	2	3	6	0	18	11	0	15	6	1	28	9	6	1	0	5	24	0			15
September	0	12	13	0	14	3	2	4	2	1	27	8	5	6	0	7	19	0			8
October	0	3	3	0	16	6	0	6	1	1	20	9	3	10	0	12	23	0			2
November	1	0	0	0	10	2	0	0	0	1	17	5	6	6	0	8	24	0			0
December	4	0	0	0	23	13	0	3	0	9	21	17	6	10	0	9	27	0			0
Total	34	30	33	7	202	108	14	90	21	50	249	102	65	65	0	70	272	4			55
Mean	3	3	3	1	17	9	1	7	2	4	21	9	5	5	—	6	23	—			5

Annual Meteorological Table for Argentine Islands, 1951.

MONTH	2 Mean Wind Speed	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	6.6	0	1	45	195	7	49	16	11	9	12	13	59	36	19	2	5	10
February	8.0	0	11	54	142	17	47	39	9	8	8	11	32	34	6	0	6	7
March	9.5	4	29	43	159	13	28	48	31	11	10	26	38	18	4	7	4	10
April	14.8	7	58	82	84	9	61	64	13	6	3	8	17	11	6	14	11	17
May	8.2	1	10	59	167	11	24	40	23	21	19	24	44	17	10	9	2	4
June	11.3	8	19	91	114	8	24	36	10	11	8	24	46	33	21	7	4	8
July	9.3	3	22	60	149	14	18	38	12	8	8	27	36	15	24	23	15	10
August	12.6	12	32	68	135	1	39	62	17	5	10	18	31	23	16	10	10	6
September	8.0	2	10	39	179	10	16	15	8	4	7	21	58	51	28	12	6	4
October	9.0	1	15	60	167	5	24	37	7	8	6	29	63	39	11	9	7	3
November	4.8	0	0	6	226	8	23	18	6	4	6	41	48	44	24	4	2	12
December	6.3	0	3	33	211	1	30	43	9	6	10	24	55	17	10	17	11	15
Total	108.4	38	210	640	1928	104	383	456	156	101	107	266	527	338	179	114	83	106
Mean	9.0	3	17	53	161	9	32	38	13	8	9	22	44	28	15	9	7	9

Annual Meteorological Table for Argentine Islands, 1951.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)								7–8 Oktas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	> 6000	30	60	120	300	600	1200	2400	6000	> 6000	
January	0	0	0	5	4	13	11	14	41	160	28	106	26	36	51	1	1	0	1	6	(6) 85	(4) 57	(8) 70	27	0	1	0	1	0	(1) 12	(3) 15	(7) 39	15	0	1
February	0	0	6	14	10	12	21	17	41	103	27	57	19	18	92	11	11	0	3	19	(2) 80	(18) 49	(5) 35	24	0	11	0	2	13	(1) 34	(18) 19	(4) 19	10	0	3
March	0	0	4	11	3	7	29	20	32	142	41	55	22	31	92	7	7	0	1	(7) 28	(7) 53	(15) 78	(9) 40	34	6	7	0	0	(4) 12	(5) 28	(13) 32	(8) 22	8	1	1
April	0	1	1	11	15	14	59	35	28	76	5	33	25	52	122	3	3	0	8	(1) 27	(10) 51	(24) 89	(14) 57	1	3	3	0	7	(1) 19	(10) 29	(21) 42	(13) 27	1	1	1
May	0	0	0	10	11	13	18	5	35	156	23	86	35	41	62	1	1	0	0	10	(4) 52	(9) 99	(12) 63	13	2	1	0	0	8	(2) 23	(4) 26	(8) 22	4	0	8
June	0	5	4	17	10	17	36	11	44	96	9	52	41	46	80	12	12	0	5	24	(6) 76	(8) 83	(4) 31	8	0	12	0	3	16	(5) 39	(8) 31	(2) 7	0	0	1
July	0	0	0	9	15	15	36	14	40	119	34	48	23	41	99	3	3	0	14	27	(1) 72	(2) 73	(3) 25	12	8	3	0	10	16	(1) 47	(2) 30	(2) 13	6	1	14
August	0	1	3	20	24	21	40	11	26	102	25	44	20	20	130	9	9	0	19	(5) 45	(6) 63	(3) 48	(6) 39	17	4	9	0	6	(5) 35	(6) 35	(3) 30	(6) 26	5	2	4
September	1	2	3	25	7	8	22	14	17	141	38	51	17	28	99	7	7	(1) 2	14	(4) 46	58	(4) 54	(11) 21	25	9	7	(1) 2	7	(4) 29	36	(4) 28	(8) 9	0	2	4
October	0	2	4	18	5	12	20	10	23	154	30	54	29	30	93	12	12	2	6	34	(2) 57	(3) 45	(6) 62	17	6	12	1	4	16	(2) 25	(2) 24	(6) 30	9	2	7
November	0	1	3	5	0	4	5	4	23	195	24	49	15	46	100	6	6	5	8	8	39	(7) 87	(29) 63	14	7	6	2	7	2	10	(7) 44	(28) 38	5	5	3
December	0	0	6	12	4	7	34	16	48	121	7	46	21	36	120	18	18	3	(1) 20	(1) 36	(1) 30	(15) 83	(12) 51	7	0	18	2	(1) 13	23	(1) 13	(14) 39	(11) 34	5	0	0
Total	1	12	34	157	108	143	331	171	398	1565	291	681	293	425	1140	90	90	(1) 12	(1) 99	(18) 310	(45) 716	(112) 845	(119) 557	199	45	90	(1) 7	(1) 60	(14) 189	(40) 331	(99) 360	(103) 286	68	14	47
Mean	—	1	3	13	9	12	28	14	33	130	21	57	24	35	95	8	8	1	8	(2) 26	(1) 60	(9) 70	(10) 46	17	4	8	1	5	(1) 16	(3) 28	(8) 30	(9) 24	6	1	4

Annual Meteorological Table for Argentine Islands, 1951.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	40	44	32	43	56	97	145	86	59	37	32	29	700
2	42	52	34	38	31	94	179	84	51	37	14	17	673
3	81	59	19	14	13	59	134	97	32	17	14	16	555
4	102	91	17	5	1	10	57	61	25	15	11	25	420
5	67	88	11	0	1	1	11	9	9	4	5	14	220
6	38	80	15	1	2	3	1	0	2	2	2	0	146
7	9	30	10	0	0	2	0	1	1	2	4	5	64
= > 8	4	12	18	0	3	0	0	0	0	0	1	0	38
Total	383	456	156	101	107	266	527	338	179	114	83	106	2816

CALMS 104.

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FALKLAND ISLANDS AND DEPENDENCIES
METEOROLOGICAL SERVICE

ANNUAL REPORT

for the year

1951

Presented to the Governor

CONTENTS

Annual Report on the Falkland Islands and Dependencies Meteorological Service for 1951

1. Functions of the Service

The Meteorological Service (which was constituted in 1950) is the Government service of the Falkland Islands and Dependencies. Most of its stations are in the Antarctic Dependencies and the service is therefore constituted as an integral part of the Falkland Islands Dependencies Survey. The Chief Meteorological Officer works in close liaison with the Secretary of the Survey, who assists the Governor in its general administration.

General policy is directed by the Governor after consultation, as required, with the Secretary of State for the Colonies. The Chief Meteorological Officer is responsible to the Governor for the technical efficiency of the meteorological service, and seeks advice, as required, from the Director of the Meteorological Office, London. The Colony is represented in the international field by the appropriate United Kingdom department, while the Chief Meteorological Officer at Stanley deals with routine matters such as the distribution of synoptic and climatic data.

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.

(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 on the Falkland Islands Dependencies budget, with a contribution from the Colony. The estimates for the financial year 1951–52 are shown at Appendix I.

2. Forecasting Services

(a) Stanley. – The main forecasting office is at Stanley, East Falklands, whence local forecasts were broadcast for the Falkland Islands at *1500* and *2100 G.M.T.* daily on *5100 Kcs.* for the benefit of farmers and the general public. On October 1st the times and frequencies were revised to *1515* and *2115 G.M.T.* on *3700 Kcs.* Information was supplied on request to the Government Air Service which operates over the Falkland Islands and forecasts were issued to S.V. "John Biscoe", H.M.S. "Superb" and R.R.S. "Discovery" while operating in the area.

Projected services for the whaling fleets, which were to provide two forecasts per day for the sector *70–40° W.*, were not introduced in the 1950–51 season due to inadequate communications facilities. However, the service from South Georgia covering the sector *60° W.* to the Greenwich Meridian was maintained as in the previous season and met with the approval of the whaling fleet, which asked that a third transmission at about *0300 G.M.T.* should be introduced. In consequence, it was decided to issue bulletins three times daily from both Stanley and South Georgia during the 1951–52 season.

Forecast bulletins were started from Stanley on October 16th for the sector south of *50°S.* between *70° W.* and *40° W.* The bulletins included gale warnings (when applicable), synoptic analyses and descriptions of the accompanying weather and were issued at *0200*, *1500*, *2100 G.M.T.* daily to assist South Georgia in preparing forecasts for the shore-based catchers operating from October 16th. Detailed forecasts were added on November 1st for the benefit of pelagic factories and transports which were then arriving in the Antarctic.

(b) South Georgia. – Forecast bulletins were issued twice daily at *1530* and *2030 G.M.T.* on *500* and *8333 Kcs.* throughout the 1950–51 whaling season. The bulletins covered the sector south of *50°S.* between *60° W.* and the Greenwich meridian. An area forecast (250 miles round South Georgia) was included for the benefit of shore-based catchers and transports approaching or leaving the area. These local forecasts were retransmitted in

Norwegian by Salvesens of Leith Harbour, for the benefit of their catchers. This service was re-opened on October 16th, when the South Georgia whaling season commenced, and from November 1st forecasts for pelagic factories were issued for the sector *40° W.* to *10° W.* on *500 Kcs.* and *8333 Kcs.* at *0230, 1530* and *2130 G.M.T.* A restricted service of one forecast per day was also maintained during the closed season to assist the maintenance parties left by the whaling companies. These forecasts were of particular value during the slipping and unslipping of catchers undergoing repairs. The whaling companies have expressed satisfaction with the improved services now provided.

3. Reporting Stations

Full synoptic reporting stations were maintained at :–

Stanley	...	East Falklands
Grytviken	...	South Georgia
Signy Island	...	South Orkneys
Admiralty Bay	...	South Shetlands
Deception Island	...	South Shetlands
Argentine Islands	...	West Grahamland

The station at Port Lockroy was closed in January.

Observations were taken at 3–hourly intervals and pilot balloon ascents were made whenever conditions were suitable. Reports for *12. 18* and *23 G.M.T.* and the results of all ascents were transmitted to Stanley for inclusion in the collective messages (FICOLS). Reports for *06 G.M.T.* were included as "retards" with the reports for *12 G.M.T.* The stations were all fully equipped and were manned by trained meteorological observers seconded from the Air Ministry. Reports from the Antarctic stations are invaluable now that forecasts are issued to the whaling fleets.

Subsidiary reporting stations were maintained at :–

Port Stephens	...	West Falklands
Fox Bay	...	West Falklands
Pebble Island	...	West Falklands
Darwin	...	East Falklands

Apart from Darwin, where illness of the observer and communication difficulties caused gaps in the observations, reports were transmitted once or twice daily to Stanley by R/T or W/T. These were used primarily to aid local forecasting for the Air Service and the general public. All stations are also making useful climatological returns. The stations were well equipped with essential instruments and were maintained by enthusiastic and experienced part-time observers.

The majority of farms (all now supplied with R/T) have also co-operated by passing weather reports each morning in the regular routines with Stanley.

4. Ship Reports

The provision of forecasts for the whaling companies was hampered by the paucity of ships' observations. Very few ships operate in the area apart from whaling vessels, and the latter encypher their position when making synoptic reports. Position cyphers were available for most companies except for the Norwegians but, as in the previous season, all ships operating in the Falkland Islands sector continued to report to South Africa. Retransmissions of these reports were rarely audible and were too late for the information to be used in the preparation of the current whaling forecasts.

5. Communications

Synoptic reports from the Antarctic stations were collected by a Control Base (normally Deception Island) which retransmitted them to the Meteorological Office, Stanley (ZHF 88). Reports from South Georgia were received in the mornings and afternoons by ZHF 88 but Radio Falklands (VPC) continued to take the evening messages. All available synoptic data, including the upper air soundings made by the British Meteorological Office Unit, were incorporated in the FICOL Collective messages which were compiled at the Meteorological Office and transmitted by VPC on advertised frequencies at *0100, 1315* and *1915 G.M.T.* daily. As a result of tests, it was decided to make additional low powered (350 watt) transmissions from ZHF 88, simultaneously with those from VPC. However, because of the low power factor of the mains cable, operation of this transmitter interfered with other mains users and it was therefore employed on a restricted basis by means of a diesel supply from

Air Ministry generators. Regular schedules were finally introduced on October 1st. With the prospect of a second Marconi Standard transmitter (output up to 3½ kilowatts) at VPC, opportunity was taken to transfer the main FICOL transmissions to other frequencies registered for the purpose, and thereby relieve the congestion on the main VPC frequencies *8555* and *17110 Kcs.* However, unavoidable delays in the installation of both the new power line and the second Marconi Standard transmitter at VPC necessitated the use of a lower powered (800 watt) transmitter instead of the advertised power of 3½ kilowatts. In consequence South Africa experienced considerable difficulty in reading the FICOL transmissions.

Installation of the automatic morse equipment at ZHF 88 and a keying line to VPC greatly facilitated the issue of FICOL messages and forecast bulletins.

Reports from the subsidiary stations in the Falklands were collected by R/T, either by the Meteorological Office or by the Stanley control station.

A second radio operator was obtained in April and opportunity was immediately taken to collect the South American synoptic broadcasts of 23 G.M.T. data, thereby filling an important gap in the information available for forecasting. Data for 12 and 18 G.M.T. was received as in previous years.

In South Georgia, the transmission of synoptic messages to Stanley and the broadcast of forecasts to whalers was undertaken by the Government Radio Station (ZBH). Synoptic messages required for forecasting purposes were taken by meteorological observers self-taught to read morse.

6. Climatology

No weather reports or annual summaries were published during 1951, due mainly to printing delays in the United Kingdom. However, good progress was made in London with the climatological returns for the years 1944–50 and it is anticipated that these will be ready for publication in 1953.

Detailed monthly returns were made by all main reporting stations. These were based primarily on the eight 3–hourly synoptic observations but depend for detail on the maintenance of a continuous watch day and night. This proved impossible at some stations, where lack of space did not allow the night observer to get proper rest on the following day. In spite of this, very full and accurate returns were received from most stations and the general standard has improved. The need for better working accommodation has been recognised by the Governor who plans to re-build one Base each year.

Simpler monthly returns were made by the subsidiary stations in the Falkland Islands and long-range (30–year) statistics were started for all stations with effect from 1951.

7. Investigations

A 3–cup anemometer and a Dessyn Wind Vane were installed on Flagstaff Hill 920 feet above M.S.L. at Admiralty Bay. The instruments were mounted on a 15ft. spur of rock approximately half a mile from Base, with an uninterrupted exposure for over a mile in all directions. Cables were laid from the instruments to the Base hut where the indicating dials were installed and nearly 400 readings were obtained simultaneously with the 3–hourly readings taken at Base. Readings were obtained over a period of five months, though with many interruptions due to defective instruments and broken leads. (Over 30 maintenance trips were made to the site in this period). It is hoped that a study of these records will give some indication of the sheltering effect of the Kellar Range on the surface observations at the Base Hut.

A number of suggestions on instruments and observing techniques have been made by Base observers and are receiving consideration.

8. Organisation

In November the Meteorological Officer in charge of the radio sonde unit at Stanley was seconded from Air Ministry to become second-in-command of the local service. He still exercises general supervisory control over the radio sonde unit, on behalf of the Air Ministry, since this remains a United Kingdom commitment.

The Meteorological Instructions to Antarctic Bases were revised and reissued towards the end of the year.

The Chief Meteorological Officer visited all Antarctic stations early in the year to inspect the meteorological units and install capital equipment. He was accompanied by the newly appointed Senior Assistant who carried out inventory checks at all stations. The

stations were also visited by the Meteorological Officer (Radio Sonde) in April. The subsidiary stations in the Falklands were inspected by the Senior Assistant during August.

9. Staff

The headquarters establishment at Stanley was increased by the transfer from Air Ministry, of the Meteorological Officer (Radio Sonde) who, as noted above, was appointed second-in-command of the Service. A second forecaster was also appointed to serve the summer at South Georgia to provide forecasts for the whaling fleets, and the winter at Stanley, where he would relieve the Chief Meteorological Officer from routine duties and thus provide an opportunity for the latter to undertake investigational work. As things turned out, however, he had to be retained in Stanley for the 1951–52 summer to allow the Chief Meteorological Officer to act as Secretary F.I.D.S. during that officer's absence on leave. There were no changes in the assistant staff.

The provision of W/T staff continues to be the most serious problem at headquarters. It was possible to manage for a time with one operator, by discarding all the synoptic information for *23 G.M.T.* and getting Radio Falklands to handle the FICOL messages for this hour. However, the extra requirements of the whaling fleets made it necessary to employ two operators and, as a temporary measure, an operator recently returned from an Antarctic Base was retained in Stanley. In this way it was possible to receive all incoming information for *23 G.M.T.* and take over the remaining traffic from VPC, as well as to handle the extra schedules in the 1951–52 whaling season. But, the problem remains: there is too much work for one operator (and it is aggravated by being spread over 14 hours per day) but not enough to occupy two, fully. A proposal that the Posts and Telegraphs Department should provide operators as required, fell through because of staff shortages at Radio Falklands. The obvious solution – for Radio Falklands to handle all communications – is undesirable and any saving in operators' time must be offset against time lost in 'phoning or delivering messages between the Meteorological Office and Radio Falklands. The eventual solution will probably be to complete the telegraphist training of the two locally entered meteorological assistants, both of whom can read figure morse, so that they may take over radio duties at the Stanley headquarters. They would be primarily engaged on radio duties but, being trained meteorological assistants, could help with other work. There are also obvious advantages in having operators who can understand the messages which they handle.

The forecasting office at South Georgia was manned by a forecaster and three observers, who also handled the incoming synoptic messages required for forecasting. This arrangement worked very well but it will be difficult to ensure that the meteorological staff posted to South Georgia are capable of learning morse sufficiently well to receive these messages, some of which are sent at moderate to fast speeds, and a more dependable arrangement is being sought.

The four Antarctic stations were staffed by eleven meteorological observers, ten of whom were on loan from the British Meteorological Office.

10. Instrumental Equipment

All supplies were handled by the Crown Agents for the Colonies, with the help and advice of the Instrument Branch of the British Meteorological Office, from whom much of the equipment was purchased. Difficulties were experienced with only two items: hydrogen cylinders – shortage of which will have a serious effect on the pilot balloon programme next year; and low range thermometers – which have been on order from the manufacturers for two years.

Lattice towers, to carry anemometer and wind vane, were erected at all Antarctic Bases and South Georgia. Armoured cable was also laid to connect both instruments to their indicating dials in the Base huts.

The Instrument Development Branch of the Meteorological Office (M.O. 16) went into the question of recording equipment for Antarctic stations and recommended units for recording dew point, wind speed and direction. Much of the equipment was kindly loaned by the British Meteorological Office and M.O. 16 tested the remainder, bought from the Trade.

The equipment consisted of :–

(a) Dewcell Recorder. A mercury-in-steel distant reading thermograph measures the equilibrium temperature over a saturated solution of lithium chloride.

(b) Wind Speed. (i) A modified voltmeter (Evershed and Vignoles) produces a continuous record of the output from a 3–cup generator anemometer (Short and Mason).

(ii) Bibby Recorder. Records the run of wind over successive 3–minute intervals.

(c) Wind Direction. Continuous record by magslips.

The equipment was assembled for a final test in Stanley and a slight modification was made to the recording voltmeter anemometer so that half-scale records could be made if the wind speed exceeded 90 knots. All four units will be installed at Deception Island in 1952.

11. Publications

The Meteorological Gazetteer was completed in draft and sent to the F.I.D. Scientific Bureau so that the topographical detail might be checked and panorama photographs assembled ready for the printer.

12. International Co-operation

Synoptic reports and upper air data for the Falkland Islands and Dependencies area have been sent by fast air mail to the Massachusetts Institute of Technology as part of the Southern Hemisphere Chart Project. From April 1st a short collective message of South American stations was transmitted daily for the benefit of the South African Weather Bureau who were unable to receive these messages direct from South American countries because of communication difficulties.

A number of useful radio telephone contacts were made with the Chilean Government Meteorologist at Punta Arenas (Señor Mattassi), to discuss current synoptic situations, but other commitments precluded regular schedules.

APPENDIX I

Provision in Dependencies Estimates for Meteorological Services July 1951 – June 1952

HEADQUARTERS

			£	
Head	4A	Personal Emoluments	5,230	
,,	4B	Stores, Equipment etc.	3,260	
,,	4C	Special Expenditure Radio Transmitting Equipment, etc.	900	
		Total Headquarters Expenditure		£9,390

ANTARCTIC REPORTING STATIONS, INCLUDING SOUTH GEORGIA

Head	5A	Personal Emoluments (Meteorological Staff) ...	11,532	
,,	5B	Meteorological Equipment and Publications ...	1,100	
,,	5C	Special Expenditure, Purchase Hydrogen Cylinders, Experimental Equipment, etc., Equipping new stations	4,400	
		Total Expenditure		£17,032
		Total Expenditure – Dependencies		£26,422

Provision in Colony's Estimates for Meteorological Services 1951 – 1952

Head	VIIIa	Personal Emoluments, Part-time observers ...	120	
,,	VIIIb2	Contribution towards cost of Headquarters ...	610	
,,	VIIIb3–6	Stores equipment etc.	130	
,,	XVIIIb	Equipment for subsidiary stations	650	
		Total Expenditure – Colony		£1,510
		GROSS TOTAL		£27,932

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FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

Annual Meteorological Tables

1952

FALKLAND ISLANDS AND DEPENDENCIES

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1952

Prepared in conjunction with
The Meteorological Office, London.

CONTENTS

Note: Full details of sites and exposures will be published in the Meteorological Gazetteer which is in course of preparation.

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	999.0	1016.2	22nd	974.7	29th	45.0	46.0	51.9	53.8	53.5	52.0	48.6	45.4	49.5	57.5	42.7	68	22nd	36	2nd, 31st
February	1000.2	1017.1	10th	983.9	29th	45.3	45.3	48.8	51.8	52.2	50.3	46.9	45.2	48.2	55.1	43.0	67	13th	37	5th
March	997.8	1015.7	30th	977.0	9th	42.7	42.1	45.3	49.2	49.0	47.2	44.5	43.4	45.4	52.5	39.6	66	5th	31	28th
April	1004.5	1023.5	28th	978.6	14th	39.0	39.1	40.5	43.6	44.0	41.7	40.3	39.5	41.0	45.9	36.0	59	14th	31	22nd
May	1001.5	1022.0	27th	972.9	13th	36.4	36.3	36.6	38.9	39.7	37.5	37.0	36.7	37.4	41.5	31.4	52	3rd, 4th	19	20th
June	1015.0	1032.7	8th	975.4	22nd	35.0	35.2	35.4	37.3	37.6	36.2	35.6	35.0	35.9	39.1	32.6	48	1st	27	15th, 24th
July	1001.9	1032.5	19th	969.4	14th	35.9	35.5	35.8	38.1	38.5	36.4	36.0	35.7	36.5	40.5	32.0	47	14th	18	19th
August	1008.5	1028.1	24th	986.9	8th	36.0	35.8	36.3	39.3	40.0	37.7	36.7	36.2	37.3	41.4	33.2	52	12th	28	3rd
September	1006.8	1031.8	18th, 19th	978.7	26th	37.9	37.8	40.3	44.4	44.6	41.5	38.9	38.1	40.4	41.3	34.8	57	24th	29	13th, 16th
October	1006.3	1029.8	15th	986.5	21st	37.9	38.7	43.1	46.0	46.6	43.2	39.2	38.1	41.6	48.9	35.8	57	13, 22, 23	29	8th
November	1001.6	1017.3	1st	982.6	27th	41.0	42.2	47.0	49.9	49.8	47.8	43.7	41.9	44.2	53.2	38.5	66	10th	27	2nd
December	1002.5	1021.0	17th	978.7	28th	42.9	44.6	48.8	49.9	50.5	48.5	44.5	42.8	46.5	54.0	39.5	65	15th	33	31st
Total	12045.6	12287.7	—	11745.3	—	475.0	478.6	509.8	542.2	546.0	520.0	491.9	478.0	503.9	570.9	439.1	704	—	345	—
Mean	1003.8	1024.0	—	978.8	—	39.6	39.9	42.5	45.2	45.5	43.3	41.0	39.8	42.0	47.6	36.6	58.7	—	28.7	—

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	MEAN AT [1]								1-2 DAILY MEAN.	MEAN AT [1]								1-2 DAILY MEAN	MEAN (Hrs)	% OF POSS.	TOTAL	MAX. FALL	DATE
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	90	90	73	66	68	71	81	91	79	5.5	5.7	5.9	6.4	6.1	6.1	5.7	5.0	5.8	8.07	50.0	46.9	19.7	9th
February	92	91	83	76	76	80	86	90	84	6.1	6.6	6.5	6.1	6.5	6.0	6.0	6.0	6.3	5.09	35.7	96.3	23.7	3rd
March	90	91	85	76	78	83	88	89	85	5.5	5.7	5.9	5.8	6.3	5.9	5.0	4.5	5.6	5.65	44.8	63.0	13.7	8th
April	88	89	88	84	83	86	91	89	87	5.4	6.1	6.4	6.4	6.6	6.5	6.2	5.5	6.1	3.03	28.7	67.3	17.6	13th
May	90	89	87	85	83	87	87	89	87	5.8	5.2	6.5	6.3	6.7	5.9	5.4	6.0	6.0	2.11	23.6	29.2	3.7	19th
June	93	93	93	89	89	91	92	93	92	5.5	6.5	6.7	6.6	6.9	6.7	6.1	5.5	6.3	1.02	13.1	24.9	4.7	22nd
July	92	94	93	90	87	92	94	94	92	5.9	5.3	6.1	6.5	6.6	5.8	6.4	5.6	6.0	1.92	22.8	42.1	8.4	20th
August	91	91	89	84	82	87	90	91	88	6.3	5.9	6.6	6.5	6.4	5.9	5.8	5.9	6.2	2.72	28.1	31.5	5.8	14th
September	88	89	87	73	73	82	88	88	83	5.2	5.4	5.3	5.9	6.2	5.6	5.2	4.4	5.4	5.07	43.2	30.4	9.5	6th
October	89	89	82	72	69	77	87	87	81	4.9	6.3	5.8	5.7	5.7	5.8	5.1	4.9	5.5	6.38	46.3	23.3	3.7	9th
November	85	83	72	65	67	71	79	85	76	4.9	5.6	6.1	5.9	6.1	5.8	5.6	5.1	5.6	6.56	42.0	36.5	10.5	13th
December	87	83	71	69	65	69	81	85	76	5.8	5.9	6.0	6.7	6.0	6.0	5.7	5.4	5.9	7.83	47.0	52.8	12.2	28th
Total	1075	1072	1003	929	920	976	1044	1071	1010	66.8	70.2	73.8	74.8	76.1	72.0	68.2	63.8	70.7	55.45	425.3	544.2	133.2	—
Mean	90	89	84	77	77	81	87	89	84	5.6	5.9	6.1	6.2	6.3	6.0	5.7	5.3	5.9	4.62	35.4	45.3	11.1	—

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

MONTH	WEATHER: No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	6	7	7	8	9	10
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.				WIND FORCE ≥ 6	WIND FORCE ≥ 8	RAIN	SNOW	SLEET	DRIZZLE	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	>50°F	<32°F	<23°F	>68°F	≥0.10 mm	≥1.0 mm	≥10.0 mm														
January	1	0	0	0	19	8	1	22	3	22	0	2	4	7	1	4	14	0	0	1	0
February	0	0	0	0	24	13	3	19	1	24	0	1	9	2	2	1	18	0	0	0	0
March	0	0	0	0	21	12	2	24	4	22	4	7	6	7	3	1	11	0	1	10	0
April	0	0	0	0	22	14	1	18	6	23	5	7	11	6	0	3	19	0	0	16	0
May	0	2	2	0	24	11	0	19	8	18	13	5	7	7	0	5	17	0	7	22	3
June	0	0	0	0	25	9	0	12	1	18	11	8	(3) 18	3	0	6	19	0	0	25	0
July	0	1	1	0	24	11	0	24	3	18	8	8	(1) 12	0	0	3	18	0	2	19	2
August	0	0	0	0	20	8	0	15	2	(1) 15	1	4	16	3	0	8	16	0	0	20	0
September	0	0	0	0	17	8	0	22	6	20	2	8	6	5	0	4	13	1	0	16	0
October	0	0	0	0	17	8	0	21	4	19	3	4	9	4	0	1	11	0	0	16	0
November	0	0	0	0	13	7	1	19	0	17	1	2	5	3	0	0	13	0	0	11	0
December	0	0	0	0	21	11	1	27	2	25	1	8	7	9	0	0	13	0	0	4	0
Total	1	3	3	0	247	120	9	242	40	(1) 241	49	64	(4) 110	56	6	36	182	1	10	160	5
Mean	–	–	–	–	21	10	1	20	3	20	4	5	9	5	1	3	15	–	1	13	–

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

MONTH	2 Mean Wind Speed	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	16.1	7	53	122	66	0	17	8	3	0	1	4	9	49	40	33	45	39
February	16.1	1	55	102	71	3	21	6	4	2	1	5	10	43	31	23	35	48
March	16.7	6	51	147	43	1	11	4	5	6	3	5	5	21	24	41	55	67
April	15.6	9	39	127	61	4	9	11	16	7	2	3	25	36	23	25	52	27
May	16.7	15	50	123	54	6	15	11	0	1	1	3	9	42	25	42	59	34
June	13.2	4	28	100	103	5	9	7	34	31	9	2	1	20	22	17	45	38
July	16.8	6	57	133	50	2	21	16	3	1	3	11	10	9	39	35	44	54
August	14.5	3	37	128	77	3	37	19	2	2	5	4	11	23	24	42	43	33
September	18.8	14	59	133	33	1	43	5	0	0	2	0	4	27	38	25	44	51
October	16.7	5	58	130	53	2	21	12	6	11	9	7	8	28	22	22	43	57
November	16.4	0	49	148	42	1	24	8	11	0	3	5	17	24	19	41	40	47
December	18.1	3	79	129	36	1	9	2	0	4	3	1	7	56	50	36	44	35
Total	195.7	73	615	1522	689	29	237	109	84	65	42	50	116	378	357	382	549	530
Mean	16.3	6	51	127	57	2	20	9	7	5	3	4	10	31	30	32	46	44

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [11]															NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	=< 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	2	1	2	0	0	8	67	83	85	17	62	85	52	27	5	5	0	1	(1) 23	(11) 75	(14) 123	(3) 4	14	3	5	0	1	6	(2) 22	(4) 12	(2) 0	1	0	0
February	0	0	0	0	1	10	33	65	71	52	14	38	59	62	59	0	0	1	8	45	(16) 78	(19) 83	(12) 3	9	4	0	1	6	27	(12) 20	(11) 11	(5) 1	0	0	1
March	0	1	0	1	5	4	28	83	68	58	26	44	90	37	48	3	3	0	9	40	(11) 89	(18) 77	4	15	8	3	0	8	17	(8) 27	(9) 4	0	0	0	3
April	0	2	2	2	2	3	34	71	81	43	24	41	48	75	49	3	3	0	(1) 18	(5) 46	(16) 71	(20) 74	(16) 4	17	3	3	0	12	(5) 20	(9) 17	(3) 10	(6) 0	0	0	4
May	1	3	1	4	0	6	42	79	88	24	17	53	49	81	44	4	4	4	10	(6) 53	(10) 66	(40) 88	(9) 6	8	3	4	2	8	(5) 21	(6) 19	(17) 15	(5) 0	0	0	6
June	0	5	2	2	7	8	44	112	53	7	21	33	45	95	41	5	6	2	14	(5) 71	(25) 66	(28) 60	(6) 0	12	3	5	1	8	(2) 22	(8) 12	(19) 24	(4) 0	4	0	6
July	0	1	2	1	5	5	54	81	74	25	12	59	57	64	54	2	2	2	15	(3) 70	(22) 83	(22) 55	(5) 9	8	1	2	1	9	(3) 23	(14) 17	(7) 17	(2) 0	1	0	3
August	0	1	3	3	5	7	42	52	80	55	30	61	31	50	72	4	4	4	(1) 21	(3) 58	(13) 51	(14) 76	(5) 4	19	6	4	2	(1) 10	(1) 29	(10) 18	(9) 24	(3) 1	10	0	5
September	0	0	0	5	1	5	35	57	92	45	43	70	46	43	36	2	2	1	17	(5) 38	(17) 59	(9) 75	(10) 5	21	12	2	1	15	(5) 12	(9) 6	(4) 3	(8) 0	7	1	10
October	0	1	0	0	0	3	31	70	93	50	34	65	48	58	42	1	1	0	7	(2) 48	(6) 53	(18) 99	(12) 6	20	11	1	0	5	(2) 27	(5) 9	(12) 9	(8) 0	4	2	3
November	0	0	0	0	0	1	20	52	108	59	52	66	44	53	25	0	0	0	(1) 9	23	(4) 43	(9) 107	(3) 6	36	12	0	0	(1) 4	8	(4) 6	(6) 19	(8) 0	8	2	4
December	0	0	0	0	0	4	11	47	101	85	17	80	51	75	25	0	0	0	5	22	(18) 69	(21) 126	(9) 9	14	3	0	0	3	11	(10) 13	(11) 18	(4) 0	4	1	0
Total	1	16	11	20	26	56	382	836	992	588	307	672	653	745	522	29	30	14	(3) 134	(30) 537	(169) 803	(232) 1043	(90) 60	193	69	29	8	(2) 89	(23) 223	(97) 186	(112) 166	(55) 2	39	6	45
Mean	-	1	1	2	2	5	32	70	83	49	26	56	54	62	43	2	3	1	11	(3) 45	(14) 67	(19) 87	(7) 5	16	6	2	1	7	(2) 19	(8) 15	(9) 14	(5) 0	3	1	4

Annual Meteorological Table for Stanley, Falkland Islands, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	8	3	4	5	2	2	2	3	0	2	9	10	50
2	7	9	6	8	9	6	3	13	8	13	36	24	142
3	36	21	18	18	14	12	20	28	43	45	138	104	497
4	72	27	40	21	12	11	37	80	110	131	214	153	908
5	50	29	14	12	5	3	27	86	76	97	105	110	614
6	39	11	2	1	0	6	14	90	60	67	36	89	415
7	20	7	0	0	0	5	6	55	45	20	9	33	200
=> 8	5	2	0	0	0	5	7	23	15	7	2	7	73
Total	237	109	84	65	42	50	116	378	357	382	549	530	2899

CALMS 29.

Annual Upper Air Data for Stanley, Falkland Islands, 1952.

(By the Air Ministry Radio Sonde Unit)

MEAN AIR AND DEW POINT TEMPERATURES (in degrees Fahrenheit) FOR 1100 L.M.T. (1500 G.M.T.) Time of Release 1000 L.M.T.

LEVEL I.C.A.N.	Surface		850 mb. 4,780 ft.		700 mb. 9,880 ft.		600 mb. 13,790 ft.		500 mb. 18,280 ft.		400 mb. 23,560 ft.		300 mb. 30,050 ft.	200 mb. 38,630 ft.	150 mb. 44610 ft.	100 mb. 53,040 ft.	Mean Tropopause	
MONTH	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Dew	Air	Air	Air	Air	Press. mb.	Temp.
January	53.2	43.0	36.9	25.1	20.7	7.7	9.0	8.0	-6.4	-24.6	-25.0 (31)	-43.9 (31)	-50.0 (29)	-58.1 (29)	-54.6 (28)	-52.3 (28)	243	-66.0 (29)
February	50.5	44.4	35.6	26.6	22.0	4.4	9.8	-10.5	-3.6	-23.7	-22.9 (29)	-42.1 (28)	-47.2 (29)	-59.9 (29)	-55.5 (26)	-56.5 (24)	249	-63.8 (28)
March	48.2	41.0	34.9	21.6	18.2	2.2	5.2	-10.9	-10.1	-26.1	-28.2 (31)	-42.2 (27)	-51.7 (31)	-61.4 (30)	-58.6 (29)	-57.5 (27)	257	-64.0 (31)
April	42.3	38.0	29.3	20.1	16.6	-0.1	3.3	-11.2	-13.1	-26.5	-34.3 (30)	-43.9 (24)	-54.3 (29)	-62.5 (29)	-61.4 (29)	-63.1 (26)	255	-68.3 (29)
May	37.9	34.3	27.2	16.7	13.2	-5.2	-1.0	-19.2	-16.2	-31.3	-35.5 (31)	-46.5 (20)	-59.5 (31)	-69.1 (29)	-68.0 (29)	-68.8 (28)	251	-74.8 (30)
June	36.6	34.1	27.0	12.2	15.2	-7.5	2.8	-20.7	-14.7	-34.0	-34.2 (30)	-47.4 (23)	-59.4 (30)	-80.4 (30)	-70.1 (29)	-74.9 (28)	217	-85.0 (30)
July	37.1	34.8	27.2	16.5	12.1	-3.2	-1.0	-17.4	-16.8	-32.9	-36.4 (30)	-46.7 (23)	-59.3 (29)	-67.7 (29)	-65.2 (29)	-67.4 (27)	248	-74.4 (29)
August	38.3	34.5	28.4	12.3	12.3	-9.4	-0.7	-23.5	-20.5	-36.9	-35.2 (31)	-48.7 (22)	-59.5 (31)	-71.8 (31)	-70.8 (30)	-74.2 (23)	239	-77.1 (31)
September	43.8	36.4	30.1	14.5	13.7	-5.7	-0.1	-23.8	-16.8	-38.1	-36.0 (29)	-49.3 (23)	-58.7 (27)	-73.0 (27)	-69.8 (26)	-72.4 (20)	244	-80.3 (27)
October	45.6	37.3	32.3	16.4	16.1	-2.6	3.1	-16.2	-12.7	-31.7	-33.1 (31)	-46.8 (23)	-56.2 (30)	-63.9 (29)	-59.7 (29)	-60.2 (26)	262	-70.0 (29)
November	49.0	38.5	34.9	19.8	18.1	0.8	5.3	-10.4	-9.9	-26.2	-30.3 (30)	-44.3 (26)	-53.3 (27)	-62.1 (27)	-60.7 (26)	-58.8 (24)	256	-69.1 (27)
December	49.1	39.3	32.5	23.4	19.6	5.5	7.9	0.9	-6.8	-23.1	-26.6 (30)	-39.7 (26)	-49.2 (28)	-59.3 (26)	-55.6 (26)	-52.8 (19)	253	-66.5 (27)
Total	531.6	455.6	376.3	225.2	197.8	-13.1	43.6	-154.9	-147.6	-355.1	-377.7 (363)	-541.5 (296)	-658.3 (351)	-789.2 (345)	-750.0 (336)	-758.9 (300)	2974	-859.3 (347)
Mean	44.3	38.0	31.4	17.1	16.5	-1.1	3.6	-12.9	-12.3	-29.6	-31.5	-45.1	-54.9	-65.8	-62.5	-63.2	248	-71.6

Annual Upper Air Data for Stanley, Falkland Islands, 1952.

(By the Air Ministry Radio Sonde Unit)

LEVEL I.C.A.N.	MEAN WIND SPEED	WIND : Number of Observations for 1100 L.M.T. (1500 G.M.T.) 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*	*>159*		*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*	
Surface	17.4	43	178	116	20	1	0	0	0	0	0	0	3	25	20	7	8	5	3	12	51	68	42	52	65	361
850 mb. 4,780 ft.	26.5	20	78	133	87	41	2	0	0	0	0	0	0	14	6	4	5	2	4	14	44	96	84	60	28	361
700 mb 9,880 ft.	32.5	12	52	92	94	101	9	0	0	0	0	0	1	5	3	7	4	0	4	11	39	108	100	64	15	361
600 mb. 13,790 ft.	37.3	16	32	74	83	127	26	3	0	0	0	0	0	3	6	6	1	0	4	15	32	102	108	71	13	361
500 mb. 18,280 ft.	43.1	7	32	54	67	131	57	11	2	0	0	0	0	4	5	4	2	1	3	11	40	104	100	72	15	361
400 mb. 23,560 ft.	52.3	4	17	50	47	112	81	33	13	2	0	0	2	4	6	5	1	1	1	16	42	95	107	66	15	361
300 mb. 30,050 ft.	63.0	3	15	26	36	95	93	45	27	16	0	1	0	5	6	5	2	1	1	15	44	79	114	71	14	357
200 mb. 38,630 ft.	59.9	3	6	22	37	121	97	41	14	8	0	1	0	4	2	2	0	1	0	6	35	89	139	62	10	350
150 mb. 44,610 ft.	52.7	1	10	15	56	137	84	26	2	1	0	0	0	0	0	0	0	0	0	2	22	99	154	51	4	332
100 mb. 53,040 ft.	46.5	0	9	46	54	116	43	17	1	0	0	0	0	0	0	0	0	0	0	3	13	90	145	35	0	286
Total	—	109	429	628	581	982	492	176	59	27	0	2	6	64	54	40	23	11	20	105	362	930	1093	604	179	3491

Annual Meteorological Table for Grytviken, South Georgia, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	*0100*	*0400*	*0700*	*1000*	*1300*	*1600*	*1900*	*2200*		Max.	Min.	Max.	Date	Min.	Date
January	993.5	1008.0	18th	956.9	31st	37.1	36.3	38.4	39.9	41.1	40.7	39.1	37.9	38.8	44.4	34.1	56	13th	30	10th
February	994.6	1015.1	12th	962.2	1st	39.6	39.3	39.5	41.3	43.0	43.7	43.0	41.7	41.4	48.0	35.6	61	16th	29	26th
March	994.1	1012.4	23rd	965.3	26th	42.3	41.3	40.8	41.4	43.0	43.9	42.2	42.2	42.1	48.9	36.3	66	4th	28	31st
April	996.5	1012.2	29th	965.2	16th	33.0	33.1	33.2	33.5	35.7	34.9	33.3	33.2	33.7	38.5	29.0	54	27th	16	25th
May	989.0	1014.3	28th	954.3	21st	31.9	32.4	32.6	32.4	33.8	33.1	32.2	32.0	32.5	37.8	27.0	54	29th	15	10th
June	1002.0	*1032.0*	11th	*953.4*	20th	27.2	26.5	26.3	26.1	27.1	28.2	28.3	28.5	27.3	33.6	22.4	50	3rd, 30th	14	26th
July	994.6	1031.7	22nd	958.1	10th	29.1	29.7	29.5	29.4	30.4	30.5	29.4	29.3	29.7	35.9	23.4	50	1st	*8*	18th, 19th
August	1003.7	1027.6	26th	969.0	13th	29.5	29.4	29.2	29.8	31.5	31.9	30.1	29.7	30.1	37.1	24.5	44	3rd	17	2nd
September	1001.7	1030.4	19th, 20th	973.3	12th, 13th	30.2	30.7	31.0	32.1	35.0	34.4	31.6	30.6	31.9	38.9	26.6	51	22nd	19	3, 5, 18
October	999.3	1022.4	9th	977.2	30th	33.1	33.3	34.5	36.8	37.6	37.4	34.5	33.7	35.1	42.3	29.4	54	18th, 25th	20	4th, 6th
November	995.8	1016.6	12th	975.3	29th	37.2	36.0	38.3	40.4	42.3	42.3	40.1	38.6	39.4	47.3	32.5	66	13th	24	2nd
December	989.5	1011.3	21st	966.7	29th	37.7	36.2	37.8	40.3	42.3	42.3	40.3	39.1	39.5	46.0	33.0	*67*	19th	27	15th
Total	11954.3	12234.0	—	11576.9	—	407.9	404.2	411.1	423.4	442.8	443.3	424.1	416.5	421.5	498.7	353.8	673	—	247	—
Mean	996.2	1019.5	—	964.7	—	34.0	33.7	34.3	35.3	36.9	36.9	35.3	34.7	35.1	41.6	29.5	56.1	—	20.6	—

Annual Meteorological Table for Grytviken, South Georgia, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0100	*0400*	*0700*	*1000*	*1300*	*1600*	*1900*	*2200*		*0100*	*0400*	*0700*	*1000*	*1300*	*1600*	*1900*	*2200*						
January	78	80	76	73	71	70	75	77	75	5.9	6.7	6.5	7.0	7.0	7.1	7.2	7.1	6.8	3.03		170.8	51.0	30th
February	78	77	78	75	71	69	71	73	74	5.1	6.2	7.0	7.1	7.0	6.0	6.3	5.2	6.2	3.90		117.9	33.1	29th
March	69	66	69	70	67	65	72	69	68	4.8	5.3	5.9	6.2	5.6	5.4	6.3	4.9	5.5	4.55		229.9	*56.0*	9th
April	82	78	80	81	77	78	84	82	80	5.6	6.0	6.5	6.3	6.2	6.6	6.1	5.8	6.1	1.81		102.7	16.2*	20th
May	80	78	82	82	76	81	83	81	80	4.9	5.2	5.2	5.9	5.9	6.3	5.5	6.3	5.7	1.02		178.7	31.8	7th
June	77	79	81	82	81	75	74	74	78	3.8	3.8	3.9	5.1	4.4	4.8	4.3	3.9	4.3	0.04		29.7	9.8	23rd
July	75	72	75	77	75	77	78	74	75	4.3	3.9	4.8	5.9	5.7	5.9	5.3	4.7	5.1	0.43		81.3	17.5	9th
August	78	79	79	77	75	75	78	78	77	4.3	4.5	5.4	5.5	5.8	5.8	4.7	3.9	5.0	1.89		69.5	34.6	5th
September	78	75	77	74	70	71	78	77	75	4.5	4.1	5.3	5.4	5.4	5.2	5.1	4.6	4.9	4.17	Not known	123.1	55.5	8th
October	78	75	74	68	67	65	73	74	72	5.2	5.2	6.2	6.0	5.0	5.3	4.9	5.9	5.5	5.80		55.0	8.2	1st
November	65	68	68	64	62	57	62	63	64	3.9	5.1	5.3	6.3	5.6	5.8	5.3	4.3	5.2	6.36		77.2	27.3	18th
December	72	76	73	70	65	65	69	67	70	5.3	5.4	6.1	6.3	6.1	6.0	6.0	5.6	5.9	5.04		58.4	9.8	26th
Total	910	903	912	893	857	848	897	889	888	57.6	61.4	68.1	73.0	69.7	70.2	67.0	62.2	66.2	38.04		1294.2	350.8	—
Mean	76	75	76	74	71	71	75	74	74	4.8	5.1	5.7	6.1	5.8	5.9	5.6	5.2	5.5	3.17		107.9	29.2	—

* Fall in twelve hours.

Annual Meteorological Table for Grytviken, South Georgia, 1952.

MONTH	WEATHER: No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			[5]	[5]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[7]	[7]	[8]	[9]	[10]
	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	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	>41°F	<23°F	<14°F	>59°F																	
January	0	0	0	0	22	13	3	7	0	17	8	9	9	1	0	0	20	0	1		0
February	4	0	0	2	24	17	4	11	0	18	6	7	11	1	0	1	15	0	1		0
March	6	0	0	4	27	18	7	13	2	19	12	7	3	7	0	2	12	0	3		0
April	1	0	0	0	21	15	5	6	0	10	23	5	3	3	0	4	17	1	23		4
May	0	0	0	0	23	19	6	11	2	8	21	6	6	2	1	9	14	0	31		9
June	0	1	1	0	11	5	0	11	0	3	16	0	1	1	0	4	10	6	30		7
July	0	1	3	0	20	14	2	14	0	7	21	4	(1) 1	4	0	5	16	2	27		5
August	0	0	0	0	17	9	1	10	2	4	23	6	4	2	0	3	9	3	31	Not recorded	5
September	0	0	0	0	20	12	5	9	1	3	16	5	4	6	0	3	11	2	27		1
October	2	0	0	0	15	11	0	10	2	8	20	2	4	1	0	1	12	0	13		4
November	1	0	0	2	21	11	2	15	1	19	15	1	3	4	0	1	7	1	2		1
December	1	0	0	1	21	18	0	14	0	13	17	3	2	8	0	2	16	0	3		0
Total	15	2	4	9	242	162	35	131	10	129	198	55	(1) 51	40	1	35	159	15	192		36
Mean	1	–	–	1	20	13	3	11	1	11	17	5	4	3	–	3	13	1	16		3

Annual Meteorological Table for Grytviken, South Georgia, 1952.

MONTH	2 Mean Wind Speed	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	8.0	0	16	64	108	60	41	8	4	19	39	8	1	1	6	8	20	33
February	8.6	0	24	62	65	81	26	3	1	15	9	1	0	1	5	16	24	50
March	12.1	3	24	112	56	53	26	1	3	6	3	3	1	1	7	27	40	77
April	7.5	0	16	67	56	101	10	1	2	5	9	23	0	0	7	20	33	29
May	11.1	2	29	98	50	69	8	2	0	1	4	3	1	10	17	36	40	57
June	7.1	0	20	55	49	116	8	2	1	1	6	9	3	5	18	26	22	23
July	9.7	0	24	90	48	86	11	4	0	3	7	2	2	5	14	27	37	50
August	8.2	6	23	59	52	108	14	1	2	2	13	3	0	1	16	26	27	35
September	7.0	1	21	58	39	121	10	2	1	7	1	1	1	2	4	19	28	43
October	9.3	3	21	81	71	72	18	4	3	7	7	1	1	2	15	15	45	58
November	12.0	3	25	105	67	40	13	2	3	15	16	1	0	1	10	21	47	71
December	11.4	0	20	125	69	34	14	4	5	14	9	2	2	1	15	22	59	67
Total	112.0	18	263	976	730	941	199	34	25	95	123	57	12	30	134	263	422	593
Mean	9.3	1	22	81	61	78	17	3	2	8	10	5	1	3	11	22	35	49

Annual Meteorological Table for Grytviken, South Georgia, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]									NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	=< 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	0	0	0	4	16	39	71	77	41	0	37	54	55	102	0	0	1	10	28	(8) 47	(32) 132	(34) 30	0	0	0	0	5	15	(8) 23	(25) 25	(29) 5	0	0	0
February	0	0	0	1	5	6	47	61	66	46	13	44	55	47	72	1	2	1	7	20	(5) 33	(11) 102	(3) 54	8	3	1	0	5	11	(5) 23	(9) 42	(1) 3	2	1	2
March	0	0	0	3	7	6	54	48	61	69	19	68	41	69	50	1	5	1	7	7	(2) 22	(2) 112	(3) 75	14	1	3	0	5	5	(2) 17	(1) 56	(3) 6	5	0	4
April	0	0	0	14	13	2	47	56	82	26	28	35	35	54	69	19	19	1	1	15	23	(3) 117	(10) 36	18	0	19	0	0	14	18	(2) 52	(7) 12	5	0	10
May	0	1	1	9	18	12	62	37	55	53	37	48	32	37	66	28	28	0	5	7	(2) 26	(2) 114	(1) 31	25	3	28	0	2	5	(2) 25	(2) 45	(1) 4	3	1	9
June	0	0	0	6	23	5	31	27	58	90	77	57	20	26	36	24	24	0	4	6	(1) 18	(4) 81	30	20	13	24	0	3	3	13	(3) 30	1	2	5	44
July	0	0	6	4	18	6	28	45	61	80	65	38	48	27	56	14	15	0	6	(1) 8	(1) 24	(6) 103	27	22	10	14	0	6	(1) 5	(1) 14	(4) 40	3	1	2	33
August	0	0	0	6	8	3	54	46	60	71	79	28	36	29	69	7	7	0	4	13	(3) 42	(1) 90	(1) 13	24	13	7	0	3	10	(3) 33	(1) 31	(1) 1	6	4	42
September	0	0	0	3	6	3	36	40	64	88	44	51	38	33	69	5	5	0	0	9	30	(4) 104	48	9	6	5	0	0	7	27	(4) 49	(1) 5	0	3	29
October	0	0	0	1	11	3	31	41	67	94	30	64	48	38	63	5	5	0	1	9	32	(9) 114	(4) 57	13	9	5	0	1	4	19	(9) 39	(3) 12	1	1	8
November	0	0	0	1	4	8	30	39	51	107	57	65	43	39	34	2	2	1	2	8	14	(3) 103	(7) 53	27	16	2	0	0	7	9	(3) 31	(7) 1	8	10	14
December	0	0	0	2	1	3	58	41	59	84	26	58	46	56	62	0	0	1	1	7	(2) 21	(10) 129	(12) 63	19	5	0	0	1	2	(2) 10	(9) 61	(10) 5	4	4	2
Total	0	1	7	50	118	73	517	552	761	849	475	593	496	510	748	106	112	6	48	(1) 137	(24) 332	(87) 1301	(75) 517	199	79	108	0	31	(1) 88	(23) 231	(72) 501	(63) 58	37	31	197
Mean	-	-	1	4	10	6	43	46	63	71	40	49	41	43	62	9	9	1	4	11	(2) 28	(7) 108	(6) 43	17	7	9	0	3	7	(2) 19	(6) 42	(5) 5	3	3	16

Annual Meteorological Table for Grytviken, South Georgia, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	41	14	3	31	21	5	3	4	10	22	6	24	184
2	41	10	9	21	25	12	0	1	8	15	18	34	194
3	59	4	9	30	32	15	8	4	19	26	46	100	352
4	42	6	4	11	31	14	0	8	32	77	137	200	562
5	11	0	0	2	12	9	1	7	32	63	130	147	414
6	5	0	0	0	2	2	0	5	22	35	60	71	202
7	0	0	0	0	0	0	0	1	8	15	21	16	61
=> 8	0	0	0	0	0	0	0	0	3	10	4	1	18
Total	199	34	25	95	123	57	12	30	134	263	422	593	1987

CALMS 941.

Annual Meteorological Table for Signy Island, South Orkneys, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	[1-2] Daily Mean	[3] Extremes				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0000	0300	0600	0900	1200	1500	1800	2100		Max.	Min.	Max.	Date	Min.	Date
January	991.0	1003.7	6th	959.3	31st	32.8	32.6	32.7	34.0	34.8	31.8	34.3	33.3	33.7	36.8	30.9	44	19th	27	6th, 19th
February	989.0	1005.3	11th	958.4	1st	34.6	34.5	34.5	35.3	35.9	36.0	35.3	34.8	35.1	38.3	32.1	47	29th	26	16th
March	984.8	1005.6	30th	958.7	10th	31.6	31.7	31.7	31.7	32.4	32.3	32.2	31.8	31.9	35.9	28.1	49	3rd	18	30th
April	995.6	1013.8	19th	956.4	27th	23.5	23.5	23.8	24.0	24.1	23.8	23.3	23.4	23.7	27.6	19.0	43	30th	3	11th
May	987.4	1007.3	5th	966.6	10th	10.6	10.3	10.4	10.5	10.4	11.3	10.8	9.6	10.5	19.1	1.8	40	3rd	−24	19th
June	1005.4	1032.6	10th	979.4	19th	12.3	13.2	13.5	13.7	14.1	13.5	13.5	13.7	13.4	20.1	4.6	39	3rd	−27	23rd
July	991.7	1024.5	21st	949.1	11th	14.4	14.6	14.7	14.3	15.3	15.4	15.0	14.1	14.7	23.4	4.9	42	26th	−22	18th
August	995.9	1023.1	25th	946.6	13th	21.4	21.3	21.1	21.9	22.8	21.9	21.3	21.7	21.7	29.2	12.3	37	28th	−6	1st
September	992.3	1017.2	19th	954.5	27th	26.7	26.6	26.5	27.0	27.7	27.4	27.0	26.5	26.9	32.0	21.2	42	26th	5	15th
October	991.2	1009.6	6th	959.6	22nd	27.3	26.9	26.8	27.0	27.6	27.5	27.3	27.0	27.2	31.1	23.2	41	9th	4	3rd, 4th
November	986.0	1008.8	2nd	964.3	9th	29.2	28.7	29.3	29.6	30.2	30.4	30.5	29.7	29.7	33.4	26.5	45	12th	15	1st
December	982.3	1003.0	20th	957.5	26th	31.0	31.2	30.8	31.1	32.3	32.1	31.9	31.3	31.5	34.3	28.7	48	19th	25	9th, 11th
Total	11892.6	12154.5	—	11510.4	—	295.4	295.1	295.8	300.1	307.6	306.4	302.4	296.9	300.0	361.2	233.3	517	—	44	—
Mean	991.1	1012.9	—	959.2	—	24.6	24.6	24.7	25.0	25.6	25.5	25.2	24.7	25.0	30.1	19.4	43.1	—	3.7	—

Annual Meteorological Table for Signy Island, South Orkneys, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0000	0300	0600	0900	1200	1500	1800	2100		0000	0300	0600	0900	1200	1500	1800	2100						
January	80	80	80	79	78	78	77	78	79	6.9	7.1	7.5	7.6	7.4	7.0	6.9	7.4	7.2	2.51	Not known	Not recorded	Not recorded	Not recorded
February	83	83	84	82	83	81	83	83	83	7.1	7.5	7.3	7.3	7.1	7.2	7.1	7.1	7.2	1.46				
March	83	83	84	84	83	82	81	82	83	7.3	7.4	7.5	7.3	7.2	7.2	7.2	7.2	7.3	0.80				
April	76	78	77	78	76	78	78	78	77	6.7	6.9	7.1	6.8	6.7	6.9	7.0	6.6	6.8	0.86				
May	77	77	77	76	75	74	75	76	76	6.3	6.4	6.2	6.5	6.9	6.9	6.5	6.3	6.5	0.72				
June	81	78	81	81	78	79	80	80	80	5.9	5.6	5.4	5.5	5.7	5.7	5.2	5.5	5.5	1.00				
July	78	79	78	75	74	75	78	76	77	5.3	5.5	5.2	5.2	5.5	5.7	5.1	5.4	5.4	1.31				
August	80	80	82	79	80	82	81	82	81	5.9	4.9	5.4	6.9	6.5	6.4	5.8	6.1	6.0	1.28				
September	82	83	85	81	79	78	82	82	81	6.0	6.3	6.8	6.6	6.5	6.4	6.4	6.3	6.4	1.87				
October	83	84	83	85	82	83	82	84	83	7.5	7.5	7.7	7.3	7.1	7.2	7.3	7.6	7.4	1.41				
November	81	84	81	82	82	80	80	82	81	6.4	7.2	7.2	7.4	7.0	6.7	6.9	6.8	7.0	2.66				
December	86	87	87	85	81	82	83	84	84	7.6	7.7	7.6	7.6	7.3	6.8	7.3	7.3	7.1	1.50				
Total	970	976	979	967	951	952	960	967	965	78.9	79.7	80.6	82.0	80.9	80.1	78.7	79.6	80.1	17.38				
Mean	81	81	82	81	79	79	80	81	80	6.6	6.6	6.7	6.8	6.7	6.7	6.6	6.6	6.7	1.45				

Annual Meteorological Table for Signy Island, South Orkneys, 1952.

MONTH	TEMPERATURE [4]				PRECIPITATION [1]			WEATHER: No. of Days [1]												
	High Min.	Low Max.	Low Min.	High Max.				[5] 6 ≤ ∧ Wind Force	[5] 8 ≤ ∧ Wind Force	[6] Rain	[6] Snow	[6] Sleet	[6] Drizzle	[6] Hail	[6] Thunder	[6] Fog	[7] Cloudy	[7] Clear	[8] Snow Lying	[9] Ground Frost	[10] Drift
	>32°F	<5°F	<−4°F	>41°F	≥0.10 mm	≥1.0 mm	≥10.0 mm													
January	7	0	0	5	Not recorded	Not recorded	Not recorded	10	0	6	21	1	(3) 9	8	0	4	25	0	Not recorded	Not recorded	2
February	14	0	0	5				16	3	12	16	5	(2) 7	1	0	6	23	0			1
March	6	0	0	5				21	4	14	21	7	(1) 2	6	0	5	27	0			4
April	0	0	0	0				19	3	3	20	2	(3) 5	0	0	2	20	1			0
May	0	3	10	1				17	4	5	29	2	1	1	0	2	21	–			0
June	0	7	9	0				13	4	(2) 4	19	0	(4) 6	0	0	3	14	3			–
July	0	4	10	1				18	5	(1) 2	24	6	(9) 9	1	0	6	17	3			8
August	0	0	2	0				21	8	0	23	2	(11) 11	2	0	2	19	0			17
September	0	0	0	1				21	5	(1) 6	21	4	(11) 16	3	0	3	21	4			8
October	0	0	0	0				21	2	(1) 7	27	10	(9) 11	0	0	1	25	0			12
November	0	0	0	1				24	5	(3) 9	22	12	(4) 10	0	0	0	21	0			11
December	1	0	0	2				19	4	(1) 2	23	4	6	1	0	2	28	0			3
Total	28	14	31	21				220	47	(9) 70	266	55	(57) 93	23	0	36	261	12			66
Mean	2	1	3	2				18	4	(1) 6	22	5	(5) 8	2	0	3	22	1			5

Annual Meteorological Table for Signy Island, South Orkeys, 1952.

MONTH	2 MEAN WIND SPEED	WIND: Number of observations, at all hours, of: —																
		FORCES (Beaufort)					DIRECTIONS (degrees)											
	KNOTS	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	CALM	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	10.1	0	24	87	81	56	15	36	8	7	30	2	6	8	19	19	36	6
February	13.7	6	48	83	61	34	11	9	4	4	15	2	10	6	18	23	91	5
March	16.9	8	66	112	51	11	6	13	7	17	27	9	4	4	20	34	86	10
April	15.5	7	60	95	57	21	4	2	3	19	44	10	2	6	35	35	51	8
May	12.7	7	33	95	79	34	2	1	4	3	9	9	8	14	50	39	72	3
June	10.7	8	35	57	70	70	1	0	0	0	5	4	10	2	24	37	79	8
July	14.4	13	53	74	73	35	1	6	3	3	31	5	7	3	28	44	77	5
August	16.3	17	69	76	52	34	5	2	2	4	6	7	12	7	14	40	107	8
September	17.0	15	80	61	52	32	16	8	3	3	10	10	7	8	19	32	79	13
October	17.2	3	87	88	64	6	2	0	1	3	12	7	9	17	42	55	81	13
November	18.8	9	95	81	50	5	4	7	2	3	24	2	2	9	37	48	91	6
December	16.2	5	69	107	50	17	6	8	2	1	12	8	9	30	39	52	61	3
Total	179.5	98	719	1016	740	355	73	92	39	67	225	75	86	114	345	458	911	88
Mean	15.0	8	60	85	62	30	6	8	3	6	19	6	7	9	29	38	76	7

Annual Meteorological Table for Signy Island, South Orkneys, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [11]																NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	=< 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	1	0	6	3	2	28	31	86	91	5	28	17	53	142	3	3	1	11	(1) 38	(3) 61	(19) 116	(15) 13	3	1	3	1	8	(1) 28	(3) 46	(18) 58	(12) 10	0	0	1
February	0	3	2	3	5	7	37	47	79	49	12	17	33	35	130	5	5	5	15	71	(9) 52	(16) 71	(6) 1	3	7	5	4	12	44	(6) 34	(9) 31	(6) 1	1	0	2
March	0	0	0	4	15	6	37	65	64	57	5	17	28	54	141	3	3	6	13	35	(10) 94	(12) 90	(2) 2	2	2	3	5	12	26	(10) 75	(8) 43	(1) 1	0	0	1
April	0	0	0	3	4	4	37	46	44	102	7	32	25	59	113	4	4	0	2	31	(2) 82	(9) 108	6	3	4	4	0	2	25	(2) 57	(6) 57	4	3	4	0
May	0	1	2	7	23	5	29	48	58	75	25	24	18	50	111	20	20	1	11	51	(6) 78	(6) 53	(4) 9	2	8	20	1	10	37	(4) 57	(3) 28	(3) 4	2	3	15
June	0	0	0	8	15	18	25	43	52	79	59	34	20	25	83	19	19	8	22	(2) 51	53	(1) 27	(1) 1	17	16	19	6	14	(2) 32	37	(1) 7	(1) 0	1	3	26
July	0	0	0	6	16	9	29	34	46	108	70	29	31	34	70	14	14	5	10	32	63	(1) 50	(1) 4	13	19	14	0	10	26	41	17	3	4	4	38
August	0	0	2	8	20	14	30	26	49	99	43	36	20	55	79	15	15	5	13	46	(3) 54	(7) 68	4	8	13	15	0	13	32	(3) 31	(6) 36	2	3	4	22
September	0	0	0	4	6	7	46	45	67	65	40	15	20	56	99	10	10	3	11	51	(4) 60	(17) 62	(3) 3	8	14	10	1	10	38	(4) 44	(11) 30	(3) 2	5	0	18
October	0	0	0	1	9	12	42	65	62	57	6	15	19	52	136	20	20	0	8	54	(3) 96	(19) 63	(8) 1	2	4	20	0	7	49	(3) 63	(15) 27	(4) 0	1	3	0
November	0	0	0	0	10	8	31	51	54	86	8	27	22	52	127	4	4	5	2	43	(4) 87	(21) 84	(23) 7	4	3	4	4	2	30	(3) 51	(19) 34	(19) 5	3	1	1
December	0	0	0	2	7	19	36	52	46	86	5	19	13	74	129	8	8	0	19	(1) 61	(22) 85	(18) 61	(13) 9	5	0	8	0	16	(1) 40	(20) 50	(16) 31	(10) 4	4	0	0
Total	0	5	6	52	133	111	407	553	707	951	285	293	266	599	1360	125	125	39	137	(4) 564	(66) 865	(146) 853	(76) 60	70	91	125	22	116	(4) 407	(58) 586	(112) 399	(59) 36	27	22	124
Mean	–	–	1	4	11	9	34	46	59	79	24	24	22	50	113	10	10	3	11	47	(5) 72	(12) 71	(6) 5	6	8	10	2	10	34	(5) 49	(9) 33	(5) 3	2	2	10

Annual Meteorological Table for Signy Island, South Orkneys, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	13	1	3	11	18	13	10	11	19	11	12	5	127
2	12	10	5	15	47	17	31	15	34	23	26	6	241
3	9	7	2	16	62	30	28	32	55	64	61	6	372
4	11	21	6	3	51	11	13	32	109	100	158	13	528
5	12	29	12	10	31	3	3	16	56	101	192	23	488
6	13	15	8	4	13	0	1	7	50	102	235	18	466
7	2	8	0	6	3	1	0	1	18	42	163	9	253
=> 8	1	1	3	2	0	0	0	0	4	15	64	8	98
Total	73	92	39	67	225	75	86	114	345	458	911	88	2573

CALMS 355.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January																				
February																				
March																				
April																				
May	989.7	1011.2	5th	970.6	11th	6.3	6.3	7.2	7.2	7.5	6.7	6.1	6.4	6.7	16.0	−2.6	47	6th	*−21*	19th
June	1005.3	*1031.6*	10th	968.0	30th	15.7	16.9	17.0	18.6	18.2	17.9	17.7	16.4	17.3	25.5	9.8	52	12th	−20	23rd
July	990.8	1018.6	20th	959.7	8th	15.0	13.9	13.4	13.4	14.1	13.1	12.8	13.9	13.7	22.7	5.5	42	20th	−15	17th
August	991.8	1016.1	24th	961.9	12th	17.9	17.8	17.8	18.4	18.2	17.3	17.6	18.2	17.9	25.6	10.0	45	26th, 29th	−17	10th, 11th
September	987.7	1007.5	19th	*957.8*	24th	19.6	19.8	20.4	21.1	22.1	21.5	19.3	19.4	20.4	28.7	11.9	49	20th	−13	27th
October	990.1	1009.8	3rd	968.7	24th	22.2	21.4	22.6	24.6	24.6	23.4	22.4	21.4	22.8	29.2	16.0	*55*	15th	−1	2nd, 5th
November	982.9	1009.8	1st	959.5	15th	27.3	26.9	28.8	30.5	31.0	30.2	28.7	27.2	28.8	35.1	21.6	44	4th	8	1st
December	984.0	996.7	20th	960.9	9th	29.4	29.7	31.2	32.9	33.8	32.6	31.3	29.9	31.3	36.6	25.9	50	18th	16	8th
Total	7922.3	8101.3	—	7707.1	—	153.4	152.7	158.4	166.7	169.5	162.7	155.9	152.8	158.9	219.4	98.1	384	—	-63	—
Mean †	990.3	1012.7	—	963.4	—	19.2	19.1	19.8	20.8	21.2	20.3	19.5	19.1	19.9	27.4	12.3	48.0	—	-7.9	—

† May to December inclusive.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300						
January																							
February																							
March																							
April																							
May	72	73	70	70	71	69	69	67	70	5.0	5.1	5.9	6.1	6.3	5.3	4.6	4.1	5.3	1.05				
June	72	71	73	73	74	73	73	77	73	4.0	3.6	4.8	5.7	5.7	4.3	3.8	4.4	4.5	0.84				
July	74	77	69	72	73	71	71	71	72	5.0	4.9	4.9	5.6	5.5	4.0	4.1	4.0	4.7	1.51				
August	77	75	70	69	72	73	71	72	72	5.0	3.9	6.1	6.2	6.1	5.9	5.3	5.0	5.4	2.30	Not known	Unreliable	Unreliable	Unreliable
September	74	74	74	80	79	75	78	75	76	4.9	5.9	6.3	6.5	6.8	6.4	5.5	4.3	5.8	2.69				
October	70	74	69	69	70	72	71	75	71	4.9	5.8	5.7	5.1	5.3	6.1	5.4	4.7	5.4	5.89				
November	73	74	74	69	71	72	74	79	73	5.3	5.6	5.7	5.5	5.7	5.4	5.8	5.7	5.6	6.93				
December	75	75	75	71	73	72	71	73	73	5.7	6.2	6.1	6.1	6.0	5.9	5.6	5.5	5.9	6.49				
Total	587	593	574	573	583	577	578	589	580	39.8	41.0	45.5	46.2	47.4	43.3	40.1	37.7	42.6	27.70				
Mean †	73	74	72	72	73	72	72	74	72	5.0	5.1	5.7	5.8	5.9	5.4	5.0	4.7	5.3	3.46				

† May to December inclusive.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

MONTH	WEATHER : No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	6	7	7	8	9	10
	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	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	>32°F	<5°F	<−4°F	>41°F																	
January																					
February																					
March																					
April																					
May	0	5	14	1				28	18	0	19	0	2	2	0	30	12	2			25
June	0	6	6	7				21	14	2	10	2	2	3	0	12	9	4			7
July	0	6	8	1				24	17	0	21	4	0	0	0	17	10	5			20
August	0	6	7	4				26	13	4 (1)	22	8	0	4	0	14	14	1			21
September	0	2	4	1				25	12	1 (1)	22	3	3	2	0	17	18	2			17
October	1	0	0	2				25	17	4	19	4	2	5	0	6	13	2			19
November	0	0	0	1				23	9	1	20	5	1	0	0	9	13	1			19
December	4	0	0	9				21	8	2	13	1	1	1	0	3	15	0			10
Total	5	25	39	26				193	108	(2) 14	146	27	11	17	0	108	104	17			138
Mean †	1	3	5	3				24	13	2	18	3	1	2	0	13	13	2			17

Unreliable | Unreliable | Unreliable | Not recorded | Not recorded

† May to December inclusive.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

MONTH	2 Mean Wind Speed	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	23.5	72	60	57	36	23	7	3	2	1	4	14	13	100	55	19	1	6
June	16.7	45	37	46	64	48	19	4	6	6	3	16	15	22	56	35	4	6
July	18.5	48	39	56	70	35	26	12	0	7	4	5	19	38	48	37	13	4
August	19.0	31	70	83	46	18	16	7	2	2	4	7	14	27	45	58	19	29
September	18.4	37	44	88	44	27	18	18	9	2	1	5	17	22	45	31	26	19
October	21.1	49	59	84	35	21	16	10	3	2	8	8	10	23	72	36	21	18
November	17.0	19	59	84	56	22	20	7	13	6	7	13	10	24	43	41	18	16
December	17.3	24	50	102	51	21	11	7	8	2	2	5	18	44	58	45	21	6
Total	151.5	325	418	600	402	215	133	68	43	28	33	73	116	300	422	302	123	104
Mean †	18.9	41	52	75	50	27	17	9	5	3	4	9	15	37	53	38	15	13

† May to December inclusive.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]															NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January																																
February																																
March																																
April																																
May	6	20	6	40	13	11	39	47	55	11	54	51	33	19	22	69	71	5	11	18	(1) 45	(5) 42	(1) 2	16	10	69	1	6	10	13	3	0	1	3	28
June	1	3	2	14	9	10	36	93	59	13	66	76	41	15	21	21	35	9	23	27	33	(13) 39	(4) 8	21	15	22	1	3	4	10	(1) 4	(2) 0	4	3	30
July	2	14	8	16	12	10	38	82	59	7	65	53	36	17	38	39	42	8	18	27	(1) 46	(5) 40	(1) 2	24	4	39	3	7	6	17	(3) 10	0	3	1	37
August	2	4	7	16	25	31	55	50	47	11	52	42	50	18	61	25	31	10	15	26	(3) 61	(10) 50	(4) 3	14	12	26	7	7	20	20	(4) 8	0	1	0	26
September	3	8	6	24	21	25	41	51	40	21	33	40	49	21	63	34	(1) 39	6	12	41	(6) 46	(9) 57	(5) 6	14	3	(1) 34	3	10	27	(1) 15	(1) 11	(2) 1	5	0	16
October	3	3	1	5	14	26	34	66	64	32	33	62	52	36	57	8	9	3	7	32	(4) 57	(8) 98	(2) 9	18	3	8	2	5	21	(2) 23	(3) 26	1	0	1	12
November	1	1	4	11	6	19	30	44	53	71	35	74	42	24	51	14	20	3	7	23	(8) 64	(8) 86	2	22	10	16	2	6	17	(3) 20	(3) 12	0	8	0	3
December	0	0	3	3	4	15	11	34	83	95	40	73	52	33	41	9	9	2	7	18	(1) 83	(1) 74	(2) 15	20	17	9	2	7	13	31	(1) 10	0	2	1	3
Total	18	53	37	129	104	147	284	467	460	261	378	471	355	183	354	219	(1) 256	46	100	212	(24) 435	(59) 486	(19) 47	149	74	(1) 223	21	51	118	(6) 149	(16) 84	(4) 2	24	9	155
Mean †	2	7	5	16	13	18	35	58	57	33	47	59	44	23	44	27	32	6	13	27	(3) 54	(7) 61	(2) 6	19	9	28	3	6	15	19	(2) 11	—	3	1	19

† May to December inclusive.

Annual Meteorological Table for Hope Bay, Grahamland, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	2	3	5	4	5	8	13	11	4	5	1	3	64
2	13	2	7	6	8	13	20	17	9	8	7	7	117
3	22	19	6	8	13	30	27	24	23	19	15	15	221
4	41	23	12	8	3	16	31	38	56	32	30	41	331
5	31	10	8	2	4	4	11	40	60	51	26	22	269
6	16	8	5	0	0	2	9	54	66	59	20	9	248
7	8	3	0	0	0	0	5	28	67	40	14	5	170
=> 8	0	0	0	0	0	0	0	88	137	88	10	2	325
Total †	133	68	43	28	33	73	116	300	422	302	123	104	1745

† Obs. during May to December only.

CALMS 215.

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)														
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	987.7	1000.4	22nd	964.9	30th	34.7	34.9	36.1	37.4	37.3	36.6	35.5	34.8	35.9	39.5	32.1	45	15th	25	4th, 30th
February	987.5	1005.2	10th	964.5	22nd	34.6	34.2	35.0	36.2	36.4	36.3	35.2	35.2	35.4	38.7	32.1	45	12th	27	22nd
March	985.9	1015.3	29th	965.5	3rd	28.0	28.1	28.5	28.7	28.7	28.5	28.3	28.3	28.3	32.4	24.5	41	2nd	12	30th
April	996.1	1016.9	22nd	972.0	15th	26.2	25.8	25.8	26.3	26.1	26.1	26.2	26.8	26.1	30.5	21.6	42	5th	8	19th
May	990.5	1009.5	5th	969.4	24th	15.7	16.5	16.5	18.2	17.8	16.9	16.6	14.9	16.6	24.3	9.8	40	1st	-10	19th
June	1007.0	1034.2	10th	973.1	30th	22.9	22.6	23.4	23.7	23.7	23.7	23.9	23.3	23.4	28.4	18.5	41	9th	-8	23rd
July	992.2	1023.1	21st	962.5	8th	19.7	19.9	19.1	18.4	18.7	18.0	18.3	19.0	18.9	25.6	12.2	36	25th	-6	16th
August	993.1	1017.7	24th	952.2	12th	22.6	23.0	23.4	24.3	25.2	24.8	24.2	23.4	23.9	29.6	18.1	39	26th	-3	11th
September	987.9	1011.9	19th	960.9	15th	28.0	28.1	28.2	29.9	29.9	29.3	28.7	28.2	28.8	33.1	24.1	38	16th	13	3rd
October	991.4	1012.7	14th	967.1	24th	27.6	27.4	27.7	28.3	28.9	28.4	27.6	27.8	28.0	31.2	24.2	39	8th, 9th	8	4th
November	984.3	1008.4	1st	959.4	15th	30.1	30.6	31.2	32.0	31.8	31.7	30.7	30.3	31.1	34.5	27.2	40	19th, 22nd	20	1st
December	985.9	1001.7	19th	963.9	9th	31.7	31.8	32.6	33.4	33.7	33.1	32.5	31.9	32.6	35.7	29.2	42	20th	25	27th
Total	11889.5	12157.0	—	11575.4	—	321.8	322.9	327.5	336.8	338.2	333.4	327.7	323.9	329.0	383.5	273.6	488	—	111	—
Mean	990.8	1013.1	—	964.6	—	26.8	26.9	27.3	28.1	28.2	27.8	27.3	27.0	27.4	32.0	22.8	40.7	—	9.3	—

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	85	85	81	79	80	81	83	84	82	6.6	6.6	6.5	6.9	6.7	6.6	6.6	6.4	6.6	4.45	Not known	Not recorded	Not recorded	Not recorded
February	86	86	82	81	81	81	83	85	83	6.5	6.8	6.9	6.9	7.0	6.8	6.9	6.5	6.8	2.73				
March	89	88	89	90	88	88	90	89	89	7.0	7.4	7.6	7.5	7.5	7.1	6.8	6.5	7.1	0.76				
April	90	89	90	91	90	89	90	88	90	6.3	6.7	6.8	6.9	7.2	7.5	6.6	6.7	6.9	0.90				
May	86	87	88	88	87	88	88	86	87	5.6	6.5	6.9	7.1	7.2	7.0	6.5	5.9	6.6	0.13				
June	86	88	89	87	88	86	86	86	87	5.2	5.8	6.7	6.7	6.7	6.4	6.2	5.9	6.3	0.00				
July	91	90	91	87	86	86	87	88	88	6.1	5.7	6.0	6.2	5.7	5.5	5.1	5.5	5.7	0.38				
August	87	89	87	86	87	88	87	89	87	5.7	6.1	6.2	6.9	6.8	6.7	6.5	5.5	6.3	1.30				
September	91	90	89	85	88	89	89	89	89	5.6	6.1	6.5	6.8	7.0	6.8	6.0	5.4	6.3	1.54				
October	86	87	86	85	85	85	85	85	85	6.0	7.2	7.1	7.0	6.6	6.9	6.5	6.4	6.7	2.61				
November	89	89	87	86	85	85	89	89	87	6.7	7.1	6.6	6.8	6.8	7.0	7.0	6.1	6.8	4.90				
December	86	85	87	85	84	85	85	86	85	7.4	7.0	6.8	6.3	6.7	6.7	6.4	7.1	6.8	4.47				
Total	1052	1053	1046	1030	1029	1031	1042	1044	1039	74.7	79.0	80.6	82.0	81.9	81.0	77.1	73.9	78.9	24.17				
Mean	88	88	87	86	86	86	87	87	87	6.2	6.6	6.7	6.8	6.8	6.7	6.4	6.2	6.6	2.01				

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

MONTH	WEATHER : No. of Days [1]																		
	Temperature [4]				Precipitation [1]			5	5	6	6	6	6	6	6	6	7	7	8	9	10
	High Min.	Low Max.	Low Min.	High Max.				Wind Force ≥ 6	Wind Force ≥ 8	Rain	Snow	Sleet	Drizzle	Hail	Thunder	Fog	Cloudy	Clear	Snow Lying	Ground Frost	Drift
	>32°F	<5°F	<-4°F	>41°F	≥0.10 mm	≥1.0 mm	≥10.0 mm														
January	16	0	0	9	Not recorded	Not recorded	Not recorded	10	4	16	17	15	(1) 6	2	0	2	21	0	Not recorded	Not recorded	0
February	12	0	0	4				9	1	12	14	2	6	0	0	1	20	0			0
March	2	0	0	0				11	3	9	24	5	6	3	0	7	27	0			7
April	0	0	0	1				16	5	2	24	7	5	0	0	7	22	0			6
May	0	0	2	0				13	7	3	28	4	(2) 4	1	0	5	23	0			5
June	3	2	1	0				11	4	5	16	10	(2) 6	1	0	3	18	1			1
July	0	0	1	0				18	3	2	25	4	(1) 4	2	0	4	10	0			4
August	1	0	0	0				24	8	(1) 5	24	6	(2) 6	2	0	12	17	1			9
September	0	0	0	0				19	9	(1) 5	24	10	8	1	0	5	21	1			3
October	0	0	0	0				19	7	7	27	9	5	3	0	1	22	0			1
November	0	0	0	0				21	10	(1) 7	21	14	(1) 9	1	0	3	19	0			3
December	4	0	0	1				14	3	4	15	3	6	4	0	3	20	1			2
Total	38	2	4	15				185	64	(3) 77	259	89	(9) 71	20	0	53	240	4			41
Mean	3	-	-	1				15	5	6	22	7	(1) 6	2	0	4	20	-			3

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

MONTH	2 Mean Wind Speed	WIND : Number of observations, at all hours, of :—															
		Forces (Beaufort)					Directions (degrees)										
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	10.6	10	16	68	118	36	26	34	18	42	11	6	4	15	27	13	8	8
February	11.8	2	25	93	92	20	13	26	25	33	9	1	5	16	32	29	13	10
March	13.1	5	27	123	83	10	15	18	31	71	26	10	12	5	14	21	7	8
April	12.9	10	35	77	90	28	15	22	25	35	7	1	4	6	37	34	17	9
May	13.3	8	33	102	78	27	10	13	15	47	16	8	10	6	27	50	8	11
June	12.0	8	20	92	104	16	27	20	15	38	19	4	7	2	8	24	28	32
July	11.9	4	41	74	96	33	26	36	17	16	26	4	7	7	16	24	22	14
August	15.9	11	50	112	73	2	39	33	20	32	15	4	4	3	21	34	25	16
September	14.3	14	35	86	92	13	57	33	8	22	6	5	6	5	22	21	29	13
October	14.8	12	44	99	83	10	37	25	10	28	17	12	4	2	22	37	27	17
November	16.5	17	49	96	72	6	32	32	8	21	8	3	9	3	21	44	36	17
December	12.5	4	23	109	87	25	24	15	9	25	9	11	12	16	42	36	15	9
Total	159.6	105	398	1131	1068	226	321	307	201	410	169	69	84	86	289	367	235	164
Mean	13.3	9	33	94	89	19	27	26	17	34	14	6	7	7	24	31	20	14

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	≤ 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	0	0	2	4	14	34	46	135	13	15	28	35	85	81	4	4	0	6	26	(6) 110	(16) 78	(17) 9	12	2	4	0	5	19	(5) 50	(14) 28	(12) 1	4	0	1
February	0	0	0	1	3	3	51	61	88	25	9	26	41	65	89	2	2	0	0	33	(9) 100	(14) 83	(4) 5	4	5	2	0	0	20	(9) 47	(12) 34	(3) 4	0	1	0
March	0	1	1	13	6	12	43	67	35	70	5	11	43	42	132	15	15	0	0	15	(6) 126	(20) 79	(9) 8	3	0	15	0	0	11	(6) 89	(19) 41	(8) 2	1	0	2
April	0	0	2	16	10	25	23	52	25	89	15	17	36	38	109	25	25	0	0	18	(7) 81	(13) 91	(4) 10	7	1	25	0	0	12	(7) 50	(13) 44	(4) 5	3	1	7
May	0	1	1	5	8	20	53	42	39	79	13	23	35	30	135	12	12	0	3	20	(1) 87	(8) 107	(1) 6	1	4	12	0	3	17	(1) 62	(7) 63	(1) 1	0	1	8
June	0	0	3	2	2	9	35	44	24	121	28	41	43	28	93	7	7	0	1	20	(2) 87	(3) 75	(2) 22	0	18	7	0	1	17	(1) 60	(3) 30	(2) 2	0	15	10
July	0	7	3	3	14	7	26	43	16	129	43	35	43	38	78	11	11	0	3	17	57	(6) 109	(5) 8	4	18	11	0	3	16	34	(3) 42	(4) 0	0	8	21
August	0	4	1	12	21	17	47	48	7	91	26	33	32	32	112	13	13	0	0	20	103	(11) 85	(5) 1	3	11	13	0	0	18	73	(8) 26	(1) 0	0	3	12
September	0	0	0	8	18	13	41	49	24	87	14	26	52	39	102	7	7	0	0	37	(1) 101	(8) 80	(2) 1	2	2	7	0	0	23	(1) 59	(6) 26	0	1	0	10
October	0	1	0	0	7	12	34	44	38	112	4	19	37	75	112	1	1	0	1	20	118	(29) 95	(4) 9	1	2	1	0	1	17	75	(23) 51	(1) 3	0	0	1
November	0	0	0	4	9	10	24	46	32	115	5	34	41	75	83	2	2	0	0	7	(1) 116	(14) 107	(4) 3	5	0	2	0	0	6	(1) 78	(13) 41	(2) 0	3	0	0
December	0	0	0	4	11	18	48	72	61	54	7	26	43	53	119	0	0	0	1	24	(2) 49	(10) 160	(6) 7	7	0	0	0	1	21	(2) 31	(10) 79	(5) 3	1	0	0
Total	0	14	11	70	113	160	459	614	522	965	184	319	481	600	1245	99	99	0	15	257	(35) 1135	(152) 1149	(63) 89	49	63	99	0	14	197	(33) 717	(131) 505	(43) 21	13	29	72
Mean	0	1	1	6	9	13	38	51	43	80	15	27	40	50	104	8	8	0	1	21	(3) 95	(13) 96	(5) 7	4	5	8	0	1	16	(3) 60	(11) 42	(4) 2	1	2	6

Annual Meteorological Table for Admiralty Bay, South Shetlands, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	21	8	15	14	11	7	12	12	15	9	14	14	152
2	30	26	18	39	33	14	11	20	34	34	29	29	317
3	61	49	35	77	28	13	29	23	73	85	66	60	599
4	88	65	58	141	59	23	19	20	77	85	58	37	733
5	53	49	31	68	31	9	10	6	43	52	28	18	398
6	35	48	21	43	7	2	3	5	23	37	21	5	250
7	16	32	13	18	0	1	0	0	15	40	12	1	148
=> 8	17	30	10	7	0	0	0	0	9	25	7	0	105
Total	321	307	201	410	169	69	84	86	289	367	235	164	2702

CALMS 226.

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	1-2 Daily Mean	Extremes[3]				Mean at[1]								1-2 Daily Mean	Mean Daily[1]		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	987.1	998.8	16th	964.8	30th	33.7	34.2	35.7	36.6	36.7	36.2	34.9	34.0	35.3	39.2	32.3	48	15th	25	31st
February	986.6	1004.6	10th	964.8	28th	33.3	33.5	34.9	36.1	36.7	36.3	34.8	33.8	34.9	39.1	31.7	44	21st, 27th	25	2nd
March	985.3	1015.0	29th	968.9	3rd	28.6	28.8	29.0	29.9	30.5	29.9	28.8	28.4	29.2	32.9	25.1	43	3rd	12	30th
April	995.7	1016.6	22nd	974.7	15th	26.0	25.6	25.5	26.6	26.6	26.5	25.8	25.6	26.0	29.5	22.0	36	26th	8	19th
May	989.8	1009.0	5th	965.7	24th	18.7	18.1	18.0	18.8	18.9	19.0	19.0	18.8	18.7	25.1	12.5	36	1st, 3rd	−6	19th
June	1006.3	1035.0	10th	971.0	30th	23.0	22.9	23.0	23.3	23.8	23.0	22.7	22.7	23.1	26.9	17.1	36	29th	−7	24th
July	991.5	1023.1	21st	962.1	8th	17.7	17.8	17.4	17.5	17.4	17.3	17.2	19.0	17.7	24.3	10.3	36	23rd, 26th	−8	7th
August	991.7	1016.1	28th	952.2	12th	21.6	22.7	22.8	23.1	23.7	22.5	21.7	21.0	22.4	28.3	15.2	41	26th	−3	21st
September	986.8	1008.0	19th	958.9	24th, 27th	26.4	26.9	27.1	28.6	28.7	27.8	26.5	26.2	27.3	31.9	21.5	39	19th	9	25th, 30th
October	990.5	1012.8	14th	963.8	24th	26.6	26.3	27.4	28.2	28.5	28.1	27.2	27.3	27.5	31.4	22.9	43	9th	6	3rd
November	984.3	1008.8	1st	958.4	15th	28.8	29.3	30.1	31.0	31.0	30.2	28.5	28.9	29.7	33.1	25.5	42	12th	17	19th
December	985.6	1000.6	15th	963.2	9th	30.5	31.2	32.4	33.0	33.2	32.9	31.8	31.0	32.0	35.1	28.6	42	20th	23	30th
Total	11881.2	12148.4	—	11568.5	—	314.9	317.3	323.3	332.7	335.7	329.7	318.9	316.7	323.8	376.8	264.7	486	—	101	—
Mean	990.1	1012.4	—	964.0	—	26.2	26.4	26.9	27.7	28.0	27.5	26.6	26.4	27.0	31.4	22.1	40.5	—	8.4	—

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	91	91	86	85	83	84	87	90	87	7.0	6.7	6.8	6.8	6.8	6.5	6.7	6.7	6.7	3.80		112.0	30.5	6th
February	90	89	85	83	82	84	88	90	86	7.2	7.2	7.1	7.1	6.8	6.9	7.1	6.8	7.0	1.79		87.3	16.6	5th
March	90	91	91	86	85	85	88	88	88	6.7	7.4	7.5	7.0	6.8	6.5	6.5	6.6	6.9	1.51		27.9	09.5	17th
April	88	88	87	87	86	86	89	88	87	6.6	6.3	6.7	7.1	7.0	7.1	6.8	6.6	6.8	0.62				
May	84	85	85	86	85	85	84	85	85	6.8	6.5	6.8	6.8	6.6	6.7	6.8	7.2	6.8	0.01				
June	89	89	90	89	90	88	88	89	89	6.2	6.3	7.0	7.2	6.9	6.1	6.3	5.5	6.4	0.00	Not known	Unreliable	Unreliable	Unreliable
July	87	86	85	86	85	86	88	88	86	6.3	6.0	5.7	6.3	6.5	6.1	5.6	5.8	6.0	0.08				
August	88	88	89	88	87	88	87	88	88	5.8	6.0	7.0	7.0	6.9	7.2	5.9	6.2	6.7	0.60				
September	89	89	90	90	89	88	90	89	89	6.4	6.9	7.0	7.0	6.9	7.0	6.1	6.4	6.7	1.00				
October	87	87	86	85	84	86	85	86	86	6.8	7.1	7.1	6.6	6.7	6.3	6.4	6.3	6.7	2.46				
November	86	87	85	83	84	86	86	86	85	6.9	6.9	7.1	5.9	6.7	6.7	7.1	6.5	6.7	4.38				
December	89	87	85	83	86	86	86	89	86	6.5	6.5	6.3	6.5	6.5	6.4	6.6	6.6	6.5	5.13				
Total	1058	1057	1044	1031	1026	1032	1046	1056	1042	79.2	79.8	82.1	81.3	81.1	79.5	77.9	77.2	79.9	21.38		—	—	—
Mean	88	88	87	86	85	86	87	88	87	6.6	6.7	6.8	6.8	6.8	6.6	6.5	6.4	6.7	1.78		—	—	—

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

MONTH	WEATHER : No. of Days [1]																			
	Temperature [4]				Precipitation [1]			5 Wind Force ≥ 6	5 Wind Force ≥ 8	6 Rain	6 Snow	6 Sleet	6 Drizzle	6 Hail	6 Thunder	6 Fog	7 Cloudy	7 Clear	8 Snow Lying	9 Ground Frost	10 Drift
	High Min.	Low Max.	Low Min.	High Max.	≥0.10 mm	≥1.0 mm	≥10.0 mm													
	>32°F	<5°F	<-4°F	>41°F																
January	14	0	0	5	19	18	4	15	1	14	19	6	(1) 8	1	0	8	23	0			6
February	11	0	0	6	17	16	3	11	1	13	16	7	8	2	0	6	21	1			6
March	1	0	0	1				16	2	8	24	5	(2) 6	5	0	8	22	0			12
April	0	0	0	0				16	4	(2) 4	23	4	(1) 6	0	0	9	23	1			17
May	0	0	1	0				19	8	1	27	3	(3) 4	0	0	6	21	1			21
June	0	1	1	0				11	1	(1) 3	24	2	(2) 8	0	0	5	20	0			15
July	0	0	1	0				13	2	0	26	1	(4) 4	0	0	5	12	1			20
August	0	0	0	0				23	8	0	25	4	(3) 3	0	0	10	20	0			25
September	0	0	0	0				16	5	4	27	3	(5) 7	0	0	7	18	0			20
October	0	0	0	1				21	2	2	26	2	(3) 8	1	0	6	23	1			15
November	0	0	0	1				19	3	4	21	4	(2) 2	2	0	4	22	0			17
December	2	0	0	1				18	1	4	19	1	3	0	0	4	19	0			10
Total	28	1	3	15	—	—	—	198	38	(3) 57	277	42	(26) 67	11	0	78	244	5			184
Mean	2	-	-	1	—	—	—	17	3	5	23	4	(2) 6	1	0	7	20	-			15

Unreliable

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

MONTH	2 Mean Wind Speed	WIND: Number of observations, at all hours, of: —															
		Forces (Beaufort)					Directions (degrees)										
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	14.1	1	50	116	65	16	14	15	86	23	6	3	2	6	24	19	21	13
February	13.0	1	29	114	67	21	11	9	31	13	1	0	0	1	31	53	34	27
March	14.8	9	49	107	65	18	20	18	76	19	7	2	1	2	28	19	22	16
April	14.5	9	43	96	76	16	8	6	39	25	3	2	4	8	39	43	33	14
May	16.2	22	44	104	69	9	9	12	41	12	7	2	3	6	45	57	20	25
June	12.8	1	34	92	106	7	16	8	34	10	4	2	0	0	7	28	68	56
July	12.8	6	38	88	93	23	11	12	25	10	1	2	2	3	10	39	51	59
August	19.4	36	59	103	44	6	15	11	44	2	1	1	0	0	14	32	48	74
September	14.9	16	34	105	73	12	20	20	25	2	5	1	0	1	13	38	35	68
October	15.9	5	68	92	76	7	20	17	21	8	2	1	1	2	25	47	41	56
November	17.1	10	68	96	63	3	12	17	22	16	7	1	0	2	20	58	48	34
December	14.6	2	51	108	81	6	16	4	29	17	6	1	1	5	35	54	47	27
Total	180.1	118	567	1221	878	144	172	149	473	157	50	18	14	36	291	487	468	469
Mean	15.0	10	47	102	73	12	14	12	39	13	4	1	1	3	24	41	39	39

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)									7-8 Oktas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	1	4	7	10	19	36	20	12	139	7	28	66	46	96	5	(1) 9	10	28	(1) 99	(33) 63	(17) 32	(2) 0	2	5	(1) 8	9	26	(1) 27	(26) 16	(10) 1	(1) 0	1	1	0
February	0	4	3	4	6	15	39	33	23	105	5	27	38	36	115	11	15	5	28	(4) 81	(30) 72	(12) 26	(1) 0	2	2	13	5	24	(4) 36	(24) 22	(7) 15	(1) 0	1	0	1
March	1	10	3	4	11	14	34	30	38	103	11	26	51	41	101	18	18	2	12	(1) 63	(6) 100	(9) 42	0	6	4	18	2	10	(1) 48	(6) 41	(8) 20	0	3	0	1
April	0	5	1	12	18	13	30	30	47	84	8	22	26	60	95	29	29	0	7	(1) 64	(5) 80	(9) 51	(1) 1	3	0	29	0	5	(1) 42	(4) 53	(6) 35	0	0	0	5
May	10	4	0	5	7	9	23	38	48	104	12	11	38	68	96	23	23	0	1	33	(3) 100	(2) 79	0	8	2	23	0	1	27	(1) 72	(1) 53	0	4	0	2
June	0	0	3	8	13	11	39	65	69	32	12	33	38	60	87	10	10	2	10	104	(7) 84	(4) 15	3	6	3	8	1	9	61	(7) 39	(2) 10	0	2	2	3
July	2	6	4	5	13	17	31	35	57	78	35	27	34	75	65	12	12	0	2	62	(10) 97	(14) 34	(4) 6	19	2	12	0	1	29	(9) 50	(10) 19	(3) 4	6	1	14
August	2	26	5	14	16	9	23	45	55	53	16	31	30	65	74	32	32	1	0	(2) 59	(15) 103	(11) 37	(9) 0	2	4	32	1	0	25	(15) 52	(7) 17	(7) 0	1	1	10
September	0	3	2	9	23	17	46	31	61	48	12	20	32	50	119	7	7	0	16	99	(8) 85	(11) 18	(4) 3	4	2	7	0	15	68	(6) 44	(8) 9	(3) 3	0	0	6
October	0	1	1	7	9	6	34	48	54	88	7	25	38	62	109	7	7	2	2	80	(3) 81	(26) 62	(10) 7	2	1	7	2	0	56	(2) 36	(17) 25	(9) 4	0	1	4
November	0	0	0	4	12	8	12	40	55	109	10	30	49	78	72	1	1	2	2	73	(12) 98	(14) 52	(8) 2	7	2	1	2	1	47	(11) 30	(13) 17	(6) 2	3	1	1
December	0	2	0	2	11	17	26	38	19	133	23	42	47	37	95	4	4	3	(1) 11	(5) 62	(4) 99	(5) 33	(10) 13	22	1	4	2	(1) 7	(5) 44	(3) 32	(3) 8	(7) 5	2	0	0
Total	15	62	26	81	149	155	373	453	538	1076	158	322	487	678	1124	159	(1) 167	27	(1) 119	(14) 879	(136) 1062	(134) 481	(49) 35	83	28	(1) 162	24	(1) 99	(12) 510	114 487	(92) 229	(37) 18	23	7	47
Mean	1	5	2	7	12	13	31	38	45	90	13	27	41	57	94	13	14	2	10	(1) 73	(11) 89	(11) 40	(4) 3	7	2	13	2	8	(1) 43	(9) 41	(8) 19	(3) 1	2	1	4

Annual Meteorological Table for Deception Island, South Shetlands, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	16	13	3	7	7	6	0	2	2	14	20	26	116
2	24	17	11	9	11	4	5	3	16	28	58	43	229
3	24	27	45	17	9	7	5	14	37	85	120	143	533
4	44	41	113	26	9	1	3	11	71	145	149	145	758
5	31	18	91	27	6	0	1	3	57	94	61	74	463
6	23	24	104	36	6	0	0	3	50	66	46	34	392
7	10	9	49	28	2	0	0	0	21	39	13	4	175
=> 8	0	0	57	7	0	0	0	0	37	16	1	0	118
Total	172	149	473	157	50	18	14	36	291	487	468	469	2784

CALMS 144.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January																				
February																				
March																				
April																				
May														21.9	25.6	15.6	40	29th	−1	25th
June	1005.6	*1035.1*	10th	972.5	30th	21.8		22.6		22.1		21.0		16.3	21.8	10.6	39	22nd	*−9*	7th
July	990.7	1022.3	21st	960.0	8th	16.7		16.0		15.9		16.6		22.3	28.3	15.0	41	26th	−8	21st
August	988.9	1013.4	28th	957.3	12th	22.1		21.7		23.3		21.8		25.1	30.5	19.4	39	18th	−4	25th
September	984.5	1009.8	15th	*954.7*	27th	24.6		25.5		25.6		24.6		24.3	28.6	19.0	37	9, 11, 20, 21	0	1st
October	988.5	1012.5	14th	962.7	20th	23.5		23.7		25.3		24.6		28.5	32.7	23.7	39	25th	12	1st
November	982.2	1007.9	1st	962.1	15th	27.5		28.0		30.2		28.4		31.5	34.6	28.2	*42*	6th	22	12th
December	983.9	998.8	15th	961.9	9th	30.2		31.2		33.0		31.6								
							Not recorded		Not recorded		Not recorded		Not recorded							
Total	6924.3	7090.8	—	6731.2	—	166.4		168.7		175.4		168.6		169.9	202.1	131.5	277	—	12	—
Mean †	989.2	1014.3	—	961.6	—	23.8		24.1		25.1		24.1		24.3	28.9	18.8	39.6	—	1.7	—

† June to December inclusive.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	0500	0800	1100	1400	1700	2000	2300		0200	0500	0800	1100	1400	1700	2000	2300						
January																							
February																							
March																							
April																							
May																							
June	84		85		83		84		84	6.8		6.2		6.7		5.5		6.3					
July	80		80		80		78		79	5.8		6.5		6.3		6.5		6.3					
August	87		86		85		86		86	6.8		7.5		7.7		6.7		7.2					
September	83		82		85		78		82	6.0		7.7		7.1		6.3		6.8					
October	82		82		80		83		82	6.3		6.8		6.5		6.9		6.6					
November	83		85		79		80		82	7.2		6.9		7.3		7.1		7.1					
December	81		84		75		81		80	7.1		6.4		6.3		6.4		6.5					
	Not recorded		Not recorded		Not recorded		Not recorded			Not recorded		Not recorded		Not recorded		Not recorded			Not recorded	Not Known	Not recorded	Not recorded	Not recorded
Total	580		584		567		570		575	46.0		48.0		47.9		45.4		46.8					
Mean †	83		83		81		81		82	6.6		6.9		6.8		6.5		6.7					

† June to December inclusive.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

MONTH	WEATHER : No. of Days [1]																		
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	7	7	8	9	10
	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	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	>32°F	<5°F	<−4°F	>41°F																
January																				
February																				
March																				
April																				
May																				
June	0	0	0	0	Not recorded	Not recorded	Not recorded	16	4	1	15	0	2	4	0	15	14	1	Not recorded	Not recorded	7
July	0	2	4	0				11	4	1	17	1	3	2	0	15	20	1			12
August	0	0	1	0				23	8	4	23	0	4	2	0	17	25	0			20
September	0	0	0	0				17	5	1	25	0	2	1	0	13	22	0			10
October	0	1	0	0				11	1	2	20	7	0	2	0	11	24	3			7
November	1	0	0	0				10	5	1	20	5	0	3	0	5	24	0			8
December	0	0	0	1				6	1	2	16	5	4	2	0	2	20	0			2
Total	1	3	5	1				94	28	12	136	18	15	16	0	78	149	5			66
Mean †	–	–	1	–				13	4	2	19	3	2	2	0	11	21	1			9

† June to December inclusive.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

MONTH	2 MEAN WIND SPEED	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	12.3	5	29	17	48	21	1	4	26	18	3	18	5	3	13	7	1	0
July	12.0	7	15	29	64	9	0	0	36	23	11	7	9	7	17	4	0	1
August	16.1	11	31	38	35	9	1	9	41	12	5	6	11	8	5	10	2	5
September	15.1	9	23	42	38	8	1	9	46	11	3	2	12	1	15	8	2	2
October	11.6	1	16	43	47	17	11	4	24	6	8	7	13	10	9	10	3	2
November	11.7	6	12	38	45	19	1	7	27	9	1	1	9	7	17	12	1	9
December	9.5	1	8	37	55	23	4	3	22	11	7	6	4	11	19	13	1	0
Total	88.3	40	134	244	332	106	19	36	222	90	38	47	63	47	95	64	10	19
Mean †	12.6	6	19	35	47	15	3	5	32	13	5	7	9	7	14	9	1	3

† June to December inclusive.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]															NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	= < 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January																																
February																																
March																																
April																																
May																																
June	0	0	8	16	18	6	44	9	19	0	20	8	25	18	16	33	35	1	0	0	8	(1) 29	(3) 27	13	1	33	1	0	0	4	7	(2) 11	4	0	6
July	0	3	6	14	15	7	29	31	12	7	22	17	19	12	24	30	30	4	1	2	15	(2) 30	(8) 20	12	5	30	0	0	0	6	(2) 11	(6) 6	5	1	5
August	0	3	6	15	23	3	34	23	13	4	6	13	19	17	41	28	28	0	0	2	28	(5) 40	(10) 20	3	0	28	0	0	1	21	(3) 12	(7) 5	1	0	3
September	0	2	5	12	20	2	35	29	10	5	7	9	23	11	52	18	18	0	2	7	26	(15) 43	(10) 17	3	0	18	0	2	5	14	(11) 17	(7) 6	0	0	4
October	0	0	3	9	15	5	33	23	19	17	13	16	15	9	68	3	3	0	0	10	(2) 34	(11) 38	(16) 26	4	1	3	0	0	7	(2) 22	(10) 8	(14) 12	0	1	8
November	0	0	0	6	11	3	30	38	20	12	11	18	12	17	57	5	5	0	0	8	(1) 23	(18) 41	(26) 32	7	3	5	0	0	3	(1) 12	(15) 10	(20) 7	4	3	1
December	0	0	0	3	8	4	30	19	45	15	21	27	13	17	41	5	5	0	0	2	(1) 24	(6) 44	(18) 28	18	2	5	0	0	0	(1) 12	(4) 9	(16) 4	6	0	1
Total	0	8	28	75	110	30	235	172	138	60	100	108	126	101	299	122	124	5	3	31	(4) 158	(58) 265	(91) 170	60	12	122	1	2	16	(4) 91	(45) 71	(72) 51	20	5	28
Mean †	0	1	4	11	16	4	34	25	20	9	14	15	18	14	43	17	18	1	–	4	(1) 23	(8) 38	(13) 24	9	2	17	–	–	2	(1) 13	(6) 11	(10) 7	3	1	4

† June to December inclusive.

Annual Meteorological Table for Port Lockroy, Grahamland, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	4	5	16	29	10	12	7	2	3	5	2	4	99
2	6	4	14	13	7	10	4	11	9	1	2	6	87
3	4	7	18	16	14	12	24	16	18	10	2	5	146
4	4	6	47	9	4	7	19	10	24	12	3	3	148
5	0	6	34	6	1	4	5	6	18	15	0	1	96
6	0	7	42	6	0	1	4	2	14	12	1	0	89
7	1	0	20	7	2	1	0	0	5	9	0	0	45
=> 8	0	1	31	4	0	0	0	0	4	0	0	0	40
Total †	19	36	222	90	38	47	63	47	95	64	10	19	750

† Obs. during June to December only.

Annual Meteorological Table for Argentine Islands. 1952.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1,2] Daily Mean	Extremes [3]				Mean at [1]								[1,2] Daily Mean	Mean Daily [1]		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	985.9	998.1	16th	966.5	30th	32.1	32.2	33.5	34.4	35.3	35.0	34.4	32.5	33.7	38.3	30.0	46	8th, 14th	23	4th
February	985.1	1004.2	10th	961.5	28th	31.5	31.3	32.3	33.5	34.0	33.6	32.5	31.4	32.5	36.0	29.6	43	28th	26	1, 3, 11, 20
March	984.5	1012.9	29th	970.3	19th	27.9	27.9	27.8	29.2	30.1	29.5	28.2	27.9	28.6	32.1	25.5	42	18th	15	29th
April	994.9	1015.1	22nd	973.4	6th	22.8	22.5	23.2	24.6	24.5	24.0	23.9	24.0	23.7	27.7	18.9	37	26th	10	22nd
May	989.9	1009.8	5th	966.2	24th	12.1	12.2	11.5	12.9	12.8	12.3	12.1	12.5	12.3	19.9	5.9	34	2nd	-21	31st
June	1004.5	1034.8	10th, 11th	971.8	29th	17.9	17.7	17.1	16.9	17.2	16.0	16.5	16.7	17.0	23.5	8.1	36	2nd	-21	24th, 25th
July	989.9	1022.5	21st	956.0	8th	10.3	9.5	10.8	10.4	10.8	10.2	10.8	10.3	10.4	19.5	1.5	35	23rd, 24th 25th, 26th	-21	3rd, 4th
August	988.1	1012.2	28th	957.6	12th	18.8	19.5	19.5	21.1	21.3	20.5	19.1	18.8	19.8	28.1	8.8	45	26th	-14	21st
September	983.9	1004.7	18th	952.5	26th	19.9	20.1	21.3	23.5	24.1	22.7	20.6	19.7	21.5	30.1	12.0	40	14th	-14	8th, 26th
October	988.3	1013.8	14th	961.5	20th	18.5	17.1	18.9	22.1	22.9	22.9	20.6	19.7	20.3	27.3	12.1	41	7th	-13	4th
November	982.4	1008.8	1st	962.0	15th	23.8	24.3	26.7	28.6	29.5	29.1	27.1	25.5	26.8	33.6	20.2	40	11th, 19th	-8	1st
December	984.6	999.9	14th	962.3	9th	27.5	28.1	30.0	32.3	32.3	31.6	30.5	28.3	30.1	35.8	25.4	41	23rd	13	14th
Total	11862.0	12136.8	—	11561.6	—	263.1	262.4	272.6	289.5	294.8	287.4	276.3	267.3	276.7	351.9	198.0	480	—	-25	—
Mean	988.5	1011.4	—	963.5	—	21.9	21.9	22.7	24.1	24.6	23.9	23.0	22.3	23.1	29.3	16.5	40.0	—	-2.1	—

Annual Meteorological Table for Argentine Islands, 1952.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE (Daily)		RAINFALL (mm.)		
	Mean at [1]								1-2 Daily Mean.	Mean at [1]								1-2 Daily Mean	Mean (Hrs)	% of Poss.	Total	Max. Fall	Date
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*						
January	85	87	81	81	77	77	78	85	81	7.0	7.4	7.3	6.9	6.9	6.2	6.8	7.0	6.9	4.18		17.1	3.9	16th
February	90	87	85	81	79	82	85	90	85	6.8	6.7	7.0	6.6	6.1	6.2	6.4	6.6	6.5	4.11		34.7	5.7	11th
March	83	81	81	79	74	77	80	84	80	6.3	6.6	6.4	6.6	6.2	6.3	6.2	6.2	6.3	3.16		19.0	4.2	17th
April	80	82	83	83	82	82	82	80	82	5.0	5.4	6.7	7.0	7.1	6.6	6.0	6.0	6.2	1.00		15.9	7.5	23rd
May	75	75	79	75	76	76	77	75	76	5.9	5.7	5.7	6.5	6.3	6.1	5.8	5.8	6.0	0.69				
June	88	88	88	88	87	87	87	88	88	5.9	5.7	6.2	6.6	7.0	5.7	5.5	5.8	6.1	0.07				
July	85	84	82	81	82	84	84	84	83	5.3	5.4	5.7	6.1	5.9	5.9	5.9	5.6	5.7	0.26	Not Known	Unreliable	Unreliable	Unreliable
August	88	89	89	88	87	84	83	85	87	6.9	6.9	7.4	7.5	7.5	7.5	7.4	6.7	7.2	0.28				
September	86	87	89	86	85	87	87	87	87	6.9	7.5	7.6	7.4	7.0	7.0	6.7	6.1	7.0	0.67				
October	89	89	83	82	82	85	89	89	86	6.1	6.0	6.4	6.3	6.3	6.3	6.2	6.2	6.2	2.98				
November	88	88	85	81	80	81	86	89	85	7.3	7.1	7.0	7.2	7.1	7.1	7.2	7.3	7.2	3.32				
December	89	86	86	80	82	87	87	89	86	6.6	6.8	6.5	6.4	6.1	6.6	6.3	6.4	6.5	5.26		188.3	39.6	17th
Total	1026	1023	1011	985	973	989	1005	1025	1006	76.0	77.2	79.9	81.1	79.5	77.5	76.4	75.7	77.8	25.98		—	—	—
Mean	85	85	84	82	81	82	84	85	84	6.3	6.4	6.7	6.7	6.6	6.5	6.4	6.3	6.5	2.17		—	—	—

Annual Meteorological Table for Argentine Islands, 1952.

MONTH	WEATHER : No. of Days [1]																			
	TEMPERATURE [4]				PRECIPITATION [1]			5	5	6	6	6	6	6	6	7	7	8	9	10
	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	HAIL	THUNDER	FOG	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT
	>32°F	<5°F	<-4°F	>41°F																
January	4	0	0	9	5	6	0	6	0	9	10	8	0	5	0	4	26	0			0
February	3	0	0	1	13	11	0	1	0	6	12	11	3	2	0	5	21	2			0
March	1	0	0	1	14	8	0	5	0	1	24	4	0	0	0	5	19	1			6
April	0	0	0	0	4	5	0	3	0	0	20	1	3	1	0	6	20	1			8
May	0	0	2	0				8	1	0	20	0	0	0	0	9	16	2	Not recorded	Not recorded	20
June	0	3	8	0				5	2	1	17	6	6	3	0	12	18	1			7
July	0	7	13	0	Unreliable	Unreliable	Unreliable	10	2	2	24	2	4	1	0	8	19	4			17
August	0	2	6	1				19	8	4	28	4	6	5	0	12	28	0			23
September	0	0	4	0				16	4	2	25	5	3	4	0	11	24	1			24
October	0	1	6	0				12	1	1	25	2	1	4	0	11	22	4			17
November	0	0	1	0				11	3	3	21	2	2	3	0	5	24	0			15
December	2	0	0	0	17	13	9	10	0	3	20	5	2	2	0	6	16	0			10
Total	10	13	40	12	—	—	—	106	21	32	246	50	30	30	0	94	253	16			147
Mean	1	1	3	1	—	—	—	9	2	3	21	4	3	3	—	8	21	1			12

Annual Meteorological Table for Argentine Islands, 1952.

MONTH	[2] MEAN WIND SPEED	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	7.3	0	13	32	198	5	20	29	21	15	12	27	53	22	18	6	8	12
February	7.0	0	1	52	161	18	30	41	6	2	13	10	51	30	11	8	7	5
March	6.2	0	9	38	130	71	21	38	16	8	8	28	18	7	23	3	3	4
April	6.3	0	4	34	150	52	14	24	13	4	7	26	60	22	10	1	3	4
May	8.8	1	15	66	132	34	10	24	12	9	9	37	82	11	11	2	4	3
June	6.7	2	12	40	125	61	31	30	13	8	6	28	35	14	4	4	4	2
July	8.8	3	27	43	125	50	27	54	9	4	9	25	30	23	9	5	2	1
August	13.2	13	44	64	98	29	37	79	9	4	6	15	24	8	14	6	8	9
September	14.5	9	43	88	85	15	45	80	15	0	2	10	21	20	8	1	8	15
October	11.0	1	37	70	109	31	30	67	5	6	7	18	19	28	17	6	7	7
November	9.8	5	13	70	123	29	42	53	7	8	3	10	22	21	12	12	9	12
December	8.3	0	20	53	122	53	41	49	4	2	3	4	26	34	21	2	5	4
Total	107.9	34	238	650	1558	448	348	568	130	70	85	238	441	240	158	56	68	78
Mean	9.0	3	20	54	130	37	29	47	11	6	7	20	37	20	13	5	6	7

Annual Meteorological Table for Argentine Islands 1952.

Number of observations, at all hours, of :-

MONTH	VISIBILITY										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS [1]																NO CLOUD
																	All Amounts (metres)									7–8 Oktas (metres)								
	≤ 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	30	60	120	300	600	1200	2400	6000	>6000	30	60	120	300	600	1200	2400	6000	>6000	
January	0	0	1	3	3	6	2	4	9	220	13	83	42	54	53	3	3	1	6	31	(4) 69	(6) 55	(49) 70	8	1	3	0	4	15	(2) 10	(4) 19	(16) 22	4	0	4
February	0	0	0	5	5	6	21	17	20	158	21	71	29	51	58	2	2	0	4	(1) 35	(3) 56	(10) 72	(28) 42	10	8	2	0	2	13	(3) 25	(8) 10	(26) 15	7	2	3
March	0	0	1	6	2	3	38	36	40	122	25	55	42	54	64	8	8	0	1	20	(6) 69	(12) 71	(20) 54	12	6	8	0	0	13	(4) 35	(5) 21	(15) 15	5	2	7
April	0	0	1	7	13	13	26	41	28	111	30	42	27	50	83	8	8	0	1	(2) 38	(3) 57	(9) 66	(7) 40	7	13	8	0	0	(2) 27	(3) 34	(11) 30	(5) 14	2	6	10
May	0	2	2	16	12	6	29	50	20	111	57	43	16	26	96	10	11	2	1	37	(1) 50	(3) 72	(8) 18	32	11	10	1	0	32	(1) 34	(3) 30	(8) 7	19	3	14
June	0	0	4	21	17	19	48	45	26	60	43	19	29	47	91	11	11	0	3	(1) 42	(7) 71	(6) 51	(1) 19	16	6	11	0	1	(1) 32	(3) 45	(2) 21	(1) 12	6	0	21
July	0	0	1	7	19	14	60	44	38	65	77	26	18	20	98	9	9	0	0	(2) 39	53	(4) 53	(3) 17	36	22	9	0	0	36	37	(1) 31	(3) 6	16	3	19
August	0	9	4	20	11	17	57	56	35	39	25	19	15	37	128	24	24	0	0	42	(5) 64	(2) 69	(11) 24	13	4	24	0	0	34	(5) 50	43	(11) 17	10	2	8
September	0	2	7	10	12	21	62	42	39	45	29	5	17	32	147	10	10	0	2	(2) 38	(3) 56	(1) 69	(5) 36	14	12	10	0	2	(2) 30	(3) 54	(1) 52	(3) 25	4	2	3
October	0	1	10	15	8	15	47	35	19	98	29	30	19	37	115	18	18	1	3	(2) 53	44	(2) 53	(5) 47	9	4	18	0	2	(2) 47	27	(2) 33	(2) 22	1	0	16
November	0	0	0	5	8	9	32	44	52	90	21	35	29	42	109	4	4	0	2	43	(2) 65	(22) 57	(6) 48	12	9	4	0	1	36	(2) 42	(16) 22	(4) 17	8	6	0
December	0	1	2	10	3	2	54	19	22	135	22	65	19	46	90	6	6	1	4	43	(5) 46	(13) 60	(20) 66	18	3	6	1	2	32	(5) 21	(10) 20	(13) 20	8	1	1
Total	0	15	33	125	113	131	476	433	348	1254	392	493	302	496	1132	113	114	5	27	(10) 461	(39) 700	(90) 748	(163) 481	187	99	113	2	14	(7) 347	(31) 414	(63) 332	(107) 192	90	27	106
Mean	–	1	3	10	9	11	40	36	29	105	33	41	25	41	94	9	9	–	2	(1) 38	(3) 58	(7) 62	(14) 40	16	8	9	–	1	(1) 29	(3) 35	(5) 28	(9) 16	7	2	9

Annual Meteorological Table for Argentine Islands, 1952.

Number of observations, at all hours, of :-

FORCE	WIND FORCES IN TWELVE 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*	ALL DIRECTIONS
1	27	29	28	24	31	59	88	49	21	12	11	15	394
2	41	50	32	19	29	93	155	80	38	14	20	23	594
3	62	44	28	16	15	57	153	81	58	19	14	23	570
4	112	111	12	8	6	16	32	23	35	8	11	8	382
5	70	145	8	2	1	8	12	6	5	2	6	3	268
6	24	112	11	1	2	4	1	1	1	1	4	4	165
7	12	49	6	0	0	1	0	0	0	0	2	2	73
=> 8	0	28	5	0	1	0	0	0	0	0	0	0	34
Total	348	568	130	70	85	238	441	240	158	56	68	78	2480

CALMS 448.

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FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

ANNUAL REPORT

for the year

1952

Presented to the Governor

CONTENTS

Annual Report on the Falkland Islands and Dependencies Meteorological Service for 1952.

1. Functions of the Service

The Meteorological Service (which was constituted in 1950) is the official service of the Falkland Islands and Dependencies. Most of its stations are in the Antarctic Dependencies and the service is therefore constituted as an integral part of the Falkland Islands Dependencies Survey. The Chief Meteorological Officer works in close liaison with the Secretary of the Survey, who assists the Governor in its general administration.

General policy is directed by the Governor after consultation, as required, with the Secretary of State for the Colonies. The Chief Meteorological Officer is responsible to the Governor for the technical efficiency of the meteorological service, and seeks advice, as required, from the Director of the Meteorological Office, London. The Colony is represented in the international field by the appropriate United Kingdom department, while the Chief Meteorological Officer at Stanley deals with routine matters such as the distribution of synoptic and climatic data.

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.

(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 on the Falkland Islands Dependencies budget, with a contribution from the Colony. The estimates for the financial year 1952–53 are shown at Appendix I; these figures cover technical services only, and not items such as food, clothing, transport etc.

2. Forecasting Services

(a) Stanley. – The main forecasting office is at Stanley, East Falklands, whence local forecasts were broadcast for the Falkland Islands at *1515* and *2115 G.M.T.* daily on *3700 Kcs.* for the benefit of farmers and the general public. During the summer season an additional forecast was issued at *0130 G.M.T.* and this, coming in the late evening, proved useful to farmers and others contemplating special work on the following morning. Information was supplied on request to the Government Air Service which operates over the Falkland Islands and forecasts were issued to R.R.S. John Biscoe, M.V. Philomel, H.M. Ships Burghead Bay, Veryan Bay, St. Austell Bay, and Snipe, H.M.C.S. Ontario and R.F.A. Gold Ranger. The advertised forecast bulletins for whaling vessels south of *50°S.* in the sector *70 – 40° W.* were maintained at *0200*, *1500* and *2100 G.M.T.* daily until March 31st. Bulletins included gale warnings, synoptic analyses and forecasts. The *2100 G.M.T.* bulletin was resumed on October 1st to assist South Georgia in preparing local forecasts, and the full schedule of three forecasts per day was started on November 1st. All messages were transmitted simultaneously by stations VPC on *8195 Kcs* with a power of 3.5 Kw, and ZHF 88 on *7425 Kcs* with a power of .350 Kw.

(b) South Georgia. – The advertised forecast bulletins for whaling ships south of *50°S.* in the sector *40 – 10° W.* were maintained at *0215*, *1515* and *2115 G.M.T.* daily until April 8th. Area forecasts (250 miles round South Georgia) were included for the benefit of shore-based catchers and transports approaching or leaving the area and these forecasts were continued at *1515* and *2115* until April 24th, after the main area bulletins had ceased. The local forecasts were retransmitted in Norwegian by Salvesens of Leith Harbour, for the benefit of their catchers. A restricted service of one forecast per day was also maintained throughout the closed season, to assist maintenance parties left at the shore establishments. These forecasts were of particular value during the slipping and unslipping of catchers undergoing repairs. Individual forecasts were also issued to S.S. Polar Maid, Southern Opal and Harpon.

Two forecasts a day for the local whaling area were started on October 13th. No pelagic factories had commenced operations in the area up to the end of December and visiting ships were supplied with forecasts as required. The thrice-daily forecasts for the sector *40 – 10° W.* were therefore postponed until such time as the pelagic factories commenced operations.

3. Reporting Stations

Full synoptic reporting stations were maintained at :–

Stanley	...	East Falklands
Grytviken	...	South Georgia
Signy Island	...	South Orkneys
Admiralty Bay	...	South Shetlands
Deception Island	...	South Shetlands
Argentine Islands	...	West Grahamland

Observations were taken at 3-hourly intervals and pilot balloon ascents were made whenever conditions were suitable. Reports for *12*, *18* and *23 G.M.T.* and the results of all ascents were transmitted to Stanley for inclusion in the collective messages (FICOLS). Reports for *06 G.M.T.* were included as "retards" with the reports for *12 G.M.T.* The stations were all fully equipped and were manned by trained meteorological observers seconded from the Air Ministry. Reports from the Antarctic stations are invaluable now that forecasts are issued to the whaling fleets.

Full night watches were introduced in Stanley in April, the night observations for *03*, *06* and *09 G.M.T.* having previously been covered by an arrangement made with the staff of the Cape Pembroke Lighthouse, (who provided eye observations), and by extraction from the records of autographic instruments.

The station at Hope Bay, which was closed after its destruction by fire in 1948, was reopened in January and full synoptic reports were transmitted with effect from May 1st. The station at Port Lockroy (Palmer Archipelago) was also reopened, but as an ionospheric station. However, since the staff included two officers with previous observing experience, it was possible to maintain a restricted meteorological programme of four main synoptic observations daily, which were collected in the usual way and included in FICOL broadcasts with effect from June 1st.

Subsidiary stations were maintained at :–

Port Stephens	...	West Falklands
Fox Bay	...	West Falklands
Pebble Island	...	West Falklands

The stations were well equipped with essential instruments and were maintained by enthusiastic and experienced part-time observers. *12 G.M.T.* reports were available regularly by R/T or W/T, except during the occasional absence of the observers, and proved very useful for local forecasting. All three stations continued to submit reliable climatological returns and it is proposed to publish these in the form of Annual Summaries with effect from 1951. The station at Darwin – East Falklands, was closed temporarily until a new observer could be recruited : it is expected to reopen early in 1953. Arrangements were also made to open a new station at West Point but due to communications difficulties it was not possible to supply the necessary equipment until late in December.

Almost all farms on the R/T link with Stanley have co-operated by passing weather reports in their regular routines with Stanley. Arrangements were made for the meteorological office to collect these reports direct with effect from October 1st and for a short period, they were taken at *0430 Local Mean Time* in order to provide information for the pilot during a test period of early morning flying. Reports are now collected regularly at *0545 – 0600 Local Mean Time* and the regularity with which these reports are received is an indication of the high degree of co-operation forthcoming from the farms.

4. Ship Reports

1951–52 Whaling Season. – Very few ships operated in the area apart from whaling vessels and the latter continued to encypher their position when making synoptic reports. Position Cyphers were available for most companies but ships operating in the Falkland Islands sector continued to report to South Africa, whose retransmissions were rarely audible and were in any event, too late for the information to be used in the preparation of current whaling forecasts.

1952–53 Whaling Season. – The collection of whaling ships reports was discussed at the World Meteorological Organisation Maritime conference in London from July 14th – 29th, 1952 and as a result whaling vessels were asked to report either to Cape Town or Sydney whence reports would be reissued daily in collective messages. Ship positions in the collective messages were to be recyphered in a code which could be made available to interested Meteorological Services. The Cape Town transmission at *1415 G.M.T.* on 16285 Kcs was received regularly in both the Falklands and South Georgia, though very few ships were operating in the sector *70–10° W.* up to the end of the year.

5. Communications

Synoptic reports from the Antarctic stations were collected by a Control Base which retransmitted them to the Meteorological Office, Stanley (ZHF 88). Reports from South Georgia were received in the mornings and afternoons by ZHF 88 but Radio Falklands (VPC) continued to take the evening messages. All available synoptic data, including the upper air soundings made by the British Meteorological Office Unit, were incorporated in the FICOL collective messages, which were compiled at the Meteorological Office and transmitted at *1300*, *1900* and midnight *G.M.T.* on two frequencies simultaneously as follows :–

January 1st to April 30th and September 1st to December 31st.

Time (*G.M.T.*)	Main Transmission	Second Transmission
1300	16362 Kcs.	7425 Kcs.
1900	8195 Kcs.	11425 Kcs.
2400	8195 Kcs.	7425 Kcs.
	May 1st to August 31st.	
1300	16362 Kcs.	7425 Kcs.
1900	8195 Kcs.	11425 Kcs.
2400	3600 Kcs.	5100 Kcs.

Main transmissions of both FICOLS and Forecast Bulletins were made by VPC on a strength of 800 watts until June 22nd when a Marconi Standard transmitter with an output of 3½ Kw. became available. South Africa reported that FICOL transmissions on increased power were being received at full strength. All broadcast transmissions were automatic.

Only one full-time operator was available during the year but full radio schedules were maintained from January to May by assistance from operators en route for, or returning from, the Bases. Meanwhile, two of the meteorological assistants were able to learn figure morse and sufficient procedure to take over half of the W/T schedules by June, when Dependencies operators were withdrawn on the departure of R.R.S. John Biscoe for the United Kingdom. Synoptic data for *12*, *18* and *23 G.M.T.* was received regularly from Argentina and Chile. The transmissions of both countries in the 12 megacycle band were almost always audible during the summer, but were rarely heard after dark during the winter, and the Argentine second channel transmission on 6 megacycles was found to be very useful under these conditions. The staff available (see paragraph 9) did not allow any extension of routines and it was not possible to receive synoptics from further afield.

In South Georgia, the transmission of synoptic messages to Stanley and the broadcast of forecasts to whalers was undertaken by the Government Radio Station (ZBH). Shortage of radio operators made it necessary for meteorological assistants to continue receiving synoptic messages. As in previous years assistants were self taught and new assistants were able to take synoptic messages about 6 weeks after arrival at the station.

6. Climatology

Detailed monthly returns were maintained by all main synoptic stations. These were based primarily on the eight 3–hourly synoptic observations but depend for detail on the maintenance of a continuous watch day and night. Small improvements were made at most Bases to allow the night observer to obtain rest on the following day, and night watches were therefore properly maintained apart from short breaks due to illness. Simpler monthly returns were made by the subsidiary stations in the Falkland Islands.

The climatological summaries for the period 1944–50 which are being compiled under the supervision of the Meteorological Office, London, were almost completed and publication is expected in 1953.

The annual summaries for 1951 for all main synoptic stations were completed and printed locally at the Government Printing Office towards the end of the year. This was

the first publication in the series and consisted of tabulated surface data for all main synoptic stations as well as upper air data for Stanley, the latter being included with the permission of the Director, Meteorological Office, London. Summaries are also being prepared for the Falkland Islands subsidiary stations and arrangements were completed, with the advice of the Meteorological Office, London, for the production of a Daily Weather Report and a Monthly Climatological Summary.

7. Investigations

The 1949 Southern Hemisphere Charts, issued on microfilm by the Massachusetts Institute of Technology, were compared with corresponding synoptic analyses on the daily charts drawn in Stanley. The majority showed close agreement with the M.I.T. analyses but several discrepancies held promise of a useful contribution to the project in question, and are being studied more carefully.

Climatic data was supplied to the Road Research section of the Department of Scientific and Industrial Research and long-period rainfall statistics were extracted from Stanley records for use in a water survey carried out by a visiting engineer (Major G. R. Pape).

8. Organisation

Administrative responsibility for the station at South Georgia was transferred from Secretary F.I.D.S. to the Magistrate South Georgia. The forecaster-in-charge remained technically responsible to the Chief Meteorological Officer, Stanley. This was the only change in the general organisation outlined in paragraph 1 above.

The Meteorological Instructions to Antarctic Bases were revised and embodied in the permanent publication – "Instructions to Main Synoptic Stations". Stores instructions regarding indents etc. were modified slightly to correspond with those issued by Secretary F.I.D.S., and some permanent stores were obtained in bulk and issued to Bases as required.

No visits were made to the Antarctic Bases but all subsidiary stations were visited at least once during the year, by staff from the headquarters office in Stanley.

9. Staff

In view of the use which the whaling companies in South Georgia made of the winter forecasts, it was decided to retain a forecaster there continuously whenever possible. The forecasting officer, who had been appointed to serve in Stanley during the winter and in South Georgia during the summer, was therefore added to the headquarters establishment and a forecaster previously employed at South Georgia was re-engaged for a further 18 months. The additional forecaster in Stanley will make it possible for either the Chief Meteorological Officer or the Radio Sonde Officer to visit the Bases each summer, which visit could not otherwise have been made because of the need for maintaining whalers' forecasts three times daily during the summer.

One assistant from the Headquarters staff was transferred in January to Dependencies establishment to become Senior Assistant at the new station opened at Hope Bay; his place was taken in Headquarters by an assistant relieved from Deception Island, but the latter left for U.K. leave on August 23rd and later resigned. A new assistant arrived on August 13th.

The radio section was staffed by two operators from January to June by utilising the services of personnel arriving for or returning from the Dependencies. One operator was retained for the remainder of the year and full watches were maintained with the help of two meteorological assistants self-taught to read figure morse.

A locally entered Meteorological assistant returning from South Georgia, where he had also helped to receive broadcast synoptic reports by radio, was sent to the U.K. for further training so that he could take over charge of the radio section next year. The second locally entered assistant also gained considerable experience in radio operation during the year and will become the 2nd operator/meteorological assistant when the Dependencies operator at present serving in Stanley, leaves next year. Both operator/assistants will also be available for a limited amount of meteorological work, thus solving the problem of maintaining economically a comparatively small number of radio schedules spread over long hours. It is still intended that, whenever possible, all assistants should gain some proficiency in morse reception so as to provide more elasticity in the staffing and also allow reception during the night hours when only meteorological staff are on duty.

The forecasting office at South Georgia was reduced to a forecaster and 2 assistants during the winter but one new assistant was recruited in September before the pelagic whaling

season started. The new assistant was taught to read morse and the meteorological staff continued to receive all incoming synoptic messages required for forecasting.

Considerable difficulty was experienced in staffing both the Antarctic Bases and the H.Q. Office in Stanley. Of the original 14 vacancies no fewer than 6 had to be filled by personnel with no previous experience of this type of work, though it proved possible for all except one of them to attend a short course arranged by the Meteorological Office in London. The remaining 8 posts were filled by assistants seconded from the British Meteorological Office, but the rate of recruitment was very slow and the full complement of staff for the Bases was only provided by posting assistants from the H.Q. Office in Stanley. Thus there were still two outstanding vacancies at Headquarters at the end of the year and services were maintained only by employing staff on their way to, or returning from, Bases.

Staff serving during the year are listed in Appendix II.

10. Instrumental Equipment

All supplies were handled by the Crown Agents for the Colonies, with the help and advice of the British Meteorological Office, from whom much of the equipment was purchased. The first supply of low range thermometers became available late in the year and all Bases will be brought up to establishment during the 1952–53 season. There was still a shortage of hydrogen cylinders but this was made up by the purchase of seventy five obsolete R.A.F. cylinders from the Trade. A Gill low-pressure generator was obtained from Canada. It was designed by the Canadian Meteorological Service for use at remote Arctic stations and should prove equally effective in the Antarctic. No important changes were made in the establishment for main or subsidiary stations.

The equipment for recording dew point, wind speed and wind direction was operated satisfactorily at Deception Island and similar units (excluding the Bibby speed recorder) were ordered for installation at Hope Bay during the 1952–53 season.

A wind-speed recording voltmeter was also ordered for Stanley, and will be installed on the summit of Sapper Hill which rises, in smooth contours, to a height of 450 feet, just Southwest of the town. The purpose of the tests is to determine the suitability of this site for the large-scale generation of electricity from wind power. The experiments are being made, not only with a view to possible economic development in the future, but also as a contribution to the general fund of knowledge on this subject now being collected by the British Electrical and Allied Industries Research Association.

11. Publications

The Annual Meteorological Tables for 1951 (see paragraph 6) were printed and published in September at the Government Printing Office, Stanley.

Meteorological Gazetter. – Panorama photographs were prepared by the Falkland Islands Dependencies Scientific Bureau and maps by the Directorate of Colonial Surveys, while the topographical detail in the text was checked jointly by these agencies. Publication could not be effected during 1952 and much of the text is in need of revision to include changes which have taken place since the draft was prepared.

12. International Co-operation

Synoptic reports and upper air data for the Falkland Islands Dependencies area have been sent by fast air mail to the Massachusetts Institute of Technology as part of the Southern Hemisphere Chart Project. A short collective message of South American stations was transmitted daily for the benefit of South African Weather Bureau who were unable to receive these messages direct from South American countries because of communication difficulties.

APPENDIX I

Provision in Dependencies Estimates for Meteorological Services July 1952 – June 1953

Headquarters

			£	
Head	4A	Personal Emoluments	6,742	
,,	B	Stores, Equipment etc.	1,775	
,,	C	Special Expenditure (including new buildings) ...	2,510	
		Total Headquarters Expenditure		£11,027

South Georgia

Head	1A	Personal Emoluments (Meteorological Staff)	1,670	
,,	B	Meteorological Equipment	300	
,,	C	Special Expenditure (alteration, decorations etc. of Meteorological Office)	150	
		Total South Georgia Expenditure		£ 2,120

Antarctic Reporting Stations

Head	5A	Personal Emoluments (Meteorological Staff)	10,635	
,,	B	Meteorological Equipment etc.	1,500	
,,	C	Special Expenditure, purchase of hydrogen cylinders, experimental equipment ...	2,650	
		Total Antarctic Bases Expenditure		£14,785
		Total Expenditure – Dependencies		£27,932

Provision in Colony's Estimates for Meteorological Services April 1952 – March 1953

Head	VIIIa	Personal Emoluments, Part-time observers ...	100	
,,	,, b2	Contribution towards cost of Headquarters ...	800	
,,	,, b3–5	Stores, equipment etc.	134	
		Total Expenditure – Colony		£1,034
		GROSS TOTAL		£28,966

APPENDIX II

Staff List – 1952

STANLEY

Chief Meteorological Officer	–	G. A. Howkins
Deputy and Radio Sonde	–	D. McNaughton
Forecaster	–	S. D. Glassey
Senior Assistant	–	J. Ford
Assistants	–	J. R. Cowling
		D. J. George (from August)
		P. H. Hoare
		C. H. McLeod
		E. M. P. Salmon (till August)
W/T Operator	–	J. A. Brown
Clerk	–	G. Browning (Miss)

SOUTH GEORGIA

Forecaster-in-Charge	–	D. Borland
Senior Assistant	–	D. MacCallum
Assistants	–	D. S. Hosie
		A. A. Smith (from September)

Antarctic Bases

Port Lockroy

Scientific/Meteorological Assistant	–	D. A. Barrett

Deception Island

Senior Meteorological Assistant	–	R. A. Todd-White
Meteorological Assistants	–	R. A. Berry
		B. G. Ellis

Hope Bay

Senior Meteorological Assistant	–	B. D. Hunt
Meteorological Assistants	–	J. A. Coley
		B. Kemp
		M. Tait

Argentine Islands

Senior Meteorological Assistant	–	A. I. MacArthur
Meteorological Assistant	–	N. H. Thyer

Admiralty Bay

Senior Meteorological Assistant	–	A. F. Lewis
Meteorological Assistants	–	F. Burns
		A. J. Vernum

Signy Island

Base Leader, Meteorological Assistant and Biologist	–	A. W Mansfield
Senior Meteorological Assistant	–	P. W. Mander
Meteorological Assistant	–	F. L. Johnson

Falkland Islands Outstations – (voluntary observers)

Fox Bay	–	E. H. S. Smith
Pebble Island	–	J. W. C. Peck
Port Stephens	–	A. R. Beaty (Mrs)

Printed at the Government Printing Office, Stanley, Falkland Islands.
Price One Shilling.

FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

ANNUAL REPORT

for the year

1953

Presented to the Governor

CONTENTS

APPENDICES

Annual Report on the Falkland Islands and Dependencies

Meteorological Service 1953.

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, because most of its stations are in the Antarctic Dependencies, but embraces also the forecasting stations at Grytviken, South Georgia and at Stanley, in the Falkland Islands. The headquarters of the service is at Stanley.

The Chief Meteorological Officer is responsible to the Governor for the technical efficiency of the service and seeks advice, as required, from the Director of the Meteorological Office, London. 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.

(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 on the Falkland Islands Dependencies budget, with an appropriate contribution from the Colony. The estimates for the financial year 1953–54 are shown at Appendix I; these figures cover technical services only, and exclude such items as food, clothing, transport etc.

2. Forecasting Services

(a) Stanley.

Local forecasts were broadcast for the Falkland Islands at 1515 and 2115 G.M.T. daily for the benefit of farmers and the general public. During the summer season a forecast was also issued in the late evening (0130 G.M.T.) and proved useful to farmers in particular. 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, S. S. Fitzroy, H. M. Ships Superb, Snipe, Bigbury Bay, Veryan Bay, Nereide and R.F.A.'s Gold Ranger and Wave Chief. The whaling season officially ended on March 16th but the advertised forecast bulletins for ships operating south of 50°S. in the sector 70° – 40° W. were maintained at 0200, 1500 and 2100 G.M.T. daily until March 23rd, by which time the last known vessel had left the area. These bulletins included gale warnings, synoptic analyses and forecasts. The season for land-based establishments commenced on October 14th and the 1500 and 2100 G.M.T. bulletins were started on the following day so that they might be available to the forecaster at South Georgia. The third transmission, at 0200 G.M.T., was not required because the pelagic season was not scheduled to start until January 16th 1954, although vessels were entering the South Georgia area before the end of the year.

(b) South Georgia.

Forecast bulletins for the sector 10° – 40° W. and south of 50° S., were issued at 0215, 1515 and 2115 G.M.T. from January 5th till March 31st. Local forecasts for South Georgia and the sea area within a radius of 250 miles were issued at 1515 and 2115 G.M.T. from January 1st until April 19th. The local forecasts were retransmitted in Norwegian by Salvesens of Leith Harbour for the benefit of their catchers. No forecasts were issued during the winter.

In the 1953–54 season, local forecasts were started on October 14th at 1515 and 2115 G.M.T. and three main bulletins for the sector 10° – 40° W. commenced on December 30th.

3. Reporting Stations

Full synoptic reporting stations were maintained at Stanley, Grytviken, Signy Island, Admiralty Bay, Deception Island, Argentine Islands and Hope Bay. Observations were taken at three-hourly intervals and pilot balloon ascents were made whenever conditions were suitable. The synoptic reports for 06, 12, 18 and 23 G.M.T., and the results of all pilot balloon ascents, were transmitted to Stanley for inclusion in the collective messages (FICOLS) issued at 1300, 1900 and midnight G.M.T. Reports for 06 G.M.T. were included as "Retards" at 1300 G.M.T. From February 1st, the intermediate reports at 03, 09, 15 and 21 G.M.T. were also collected by Stanley but these were not retransmitted in collective messages.

All stations were fully equipped and each carried at least one observer seconded from the British Meteorological Office. A limited programme of three observations per day was maintained by a member of the Ionospheric staff at Port Lockroy and observations were collected when possible, for inclusion in the collective messages broadcast from Stanley. Regular observations were also made on sledge journeys from Hope Bay and a station was operated for several months at Duse Bay, approximately sixteen miles Southwest of the main base. Observations were transmitted to Stanley whenever possible in the "Ship" code FM 21 and were included in FICOL messages prefixed by the words "Sledge Ship".

Subsidiary stations were maintained at Port Stephens, Fox Bay, Pebble Island, West Point Island, and Darwin. West Point was opened on January 22nd and observations were included in collective messages from April 10th. Darwin was reopened on January 13th, when a new voluntary observer was found, and reports were included in collective messages from February 1st. Port Stephens closed down on April 17th when the voluntary observer left the station permanently. A very high standard of observing was achieved at these stations and reports were invaluable for briefing the local air service. Observations were taken with sufficient regularity at most stations to form the basis of monthly and annual climatological summaries.

4. Ship Reports

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

Full synoptic reports were received from S.S. Fitzroy and R.R.S. John Biscoe, 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 station at Grytviken, from tankers and supply vessels *en route* to or from South Georgia. All available reports were included in FICOL collective messages from Stanley.

(b) Whaling Vessels 1952–53 Season.

Cape Town transmitted collective messages of whaling ship reports at 0300 and 1415 G.M.T. on 16285 KC/s until the end of January when the 0300 broadcast was shifted to 0500 and the frequency altered to 17653 KC/s. The 1415 G.M.T. transmission was received regularly in Stanley but a W/T operator was rarely available during the night and the signals then were also much weaker. In accordance with Resolution No. 20 of the Maritime Commission of the W.M.O. meeting in London in July, position groups in the ship reports were encyphered in a special code which was available to interested meteorological services. No difficulty was experienced in receiving the 1415 G.M.T. message or in operating the codes, but the reports had limited value for forecasting purposes because they were mostly from the area to the East of the forecast sector (70° – 10°W.) and the majority were more than 18 hours old on receipt. On the basis of observations received, it would appear that no vessels entered the forecast area before the end of 1952. During January and February 1953 about five ships operated in the South Georgia area (East of 40°W.), but only three reports were received from the Stanley area (West of 40°W.).

(c) Whaling Vessels 1953–54.

The same procedure was adopted for the collection and retransmission of whaling ship reports as in the previous season. The South African messages commenced on December 10th and by the end of the year a number of whaling vessels were operating in the sector 40° – 10° W., although the blue whale season was not scheduled to open until January 16th.

5. Communications

Synoptic reports from the Antarctic stations were at first collected through a control Base, which retransmitted the reports to the Meteorological Office at Stanley (ZHF88). However, twice the number of observations were handled from February onwards, when subsidiary hours were also collected, and it was found quicker for Stanley to communicate direct with each station. This method of collection which began on March 12th, proved advantageous during the winter because the F.I.D.S. stations are at such distance from each other that contact between them could not be maintained by ground-wave on the low power

available and also sky-wave working was not practical when the critical frequency was very low, either because of skip-distance or very high absorption. The longer distances involved in communicating direct with Stanley enabled higher frequencies to be used and these were less strongly absorbed.

The collection of weather reports from farms on the R/T service in the early morning had to be discontinued early in March when ionospheric conditions rendered communications impossible at that time of the day. The collection of these reports, and those from Darwin, Pebble, Fox Bay and West Point was then undertaken by the Stanley R/T operator just after 8 o'clock L.M.T. and this enabled the collection of F.I.D.S. reports to be started fifteen minutes earlier. This extra time was very useful because of the increase in the number of reports received. (See also para. 3). Around mid-winter, reception conditions were so bad that contact could rarely be made with R/T stations before 9.30 L.M.T. This had a hampering effect on the Air Service which was partly alleviated by the co-operation of the Pebble observer who, at some personal inconvenience, transmitted his observations by W/T through VPC at about 8.30 a.m. The Air Service did not do much early morning flying in the Spring and camp weather reports were therefore collected between 8.00 and 8.30 L.M.T. so that the pilot could have the information as late as possible.

All available synoptic data, including monthly climate messages and the upper air soundings made by the Air Ministry Radio-Sonde Unit in Stanley, were incorporated in the FICOL collective messages. These were transmitted from Stanley at 1300, 1900 and midnight G.M.T., on two frequencies simultaneously, as follows :—

	Time (G.M.T.)	Main Transmission	Second Transmission
January 1st — April 30th September 1st — December 31st	1300	16362 KC/s.	7425 KC/s.
	1900	8195 „	11450 „
	2400	8195 „	7425 „
May 1st — August 31st ...	1300	16362 KC/s.	7425 KC/s.
	1900	8195 „	11450 „
	2400	3600 „	5100 „

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

Time (G.M.T.)	Main Transmission	Second Transmission
0200 ...	8195 KC/s. ...	7425 KC/s.
1500 ...	8195 „ ...	7425 „
2100 ...	8195 „ ...	7425 „

Local area forecasts were issued on 3700 KC/s throughout the year, including the third transmission which was made at 2130 L.M.T. until March 30th.

The main transmissions of FICOLS and the forecast bulletins for whalers were made on a Marconi Standard transmitter, at Radio Falklands (VPC), with a power output of about 3½ KW. The secondary transmissions were made from the Meteorological Office, Stanley, (ZHF88) on an R.C.A. transmitter type ET 4336B with a power output of about ·350 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, Brazil (whence the reports are reissued in the AMERSUD South American regional collective messages) and Simonstown, South Africa; but frequencies chosen for the former should prove equally suitable for Buenos Aires, Montevideo and Santiago. A complaint was received from Rio de Janeiro in March that the FICOL broadcasts at 1900 G.M.T. were inaudible and additional test transmissions were made on 14800 KC/s for one week, and 17400 KC/s for a second week, but a reception report has not yet been received. South Africa also found that the main transmission at midnight G.M.T. on 3600 KC/s became inaudible for a period in May and a test transmission was again made on an additional frequency of 7425 KC/s. Both Brazil and South Africa have been asked for reception reports and an offer was made to introduce extra transmissions whenever this was required. No reception reports were received from Whaling vessels but FICOL and Whaling Bulletins issued from Stanley were generally read without difficulty at South Georgia (ZBH).

Details of meteorological broadcasts were published in a pamphlet, entitled "Weather Messages" in September and copies were distributed to the whaling fleets and to meteorological services in South America and South Africa.

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 with a power of ·8 KW., on two frequencies simultaneously, 500 and 8333 KC/s in the 1952/53 season; 500 and 8747 KC/s in the 1953/54 season.

Synoptic data for 12, 18 and 23 G.M.T. from Argentina (LQV) and Chile (CCS) were received regularly at both Stanley and South Georgia. The 12 megacycle transmissions of both countries were almost always audible during the summer but could rarely be heard after dark in the winter. During this period, the Argentine second channel transmission on 6 megacycles was a very useful alternative, but CCS, which transmits only in the 12 megacycles channel, was often inaudible. With only two wireless operators it was not possible to receive synoptics from further afield.

6. Climatological and other Records

Detailed monthly returns were prepared by all main synoptic stations. These were based primarily on the eight 3–hourly synoptic observations but depended for detail on the maintenance of a continuous watch, day and night. This was done at most stations.

All bases telegraphed detailed extracts from these returns to the headquarters office in Stanley each month, and consideration was given to publishing these in a Monthly Weather Report; but, with the reduction of Headquarters staff due to leave and sickness and the loss of experienced staff due to transfer to Bases, this was postponed.

The Annual Meteorological Tables for 1952 were printed and issued in October. These contained tabulated surface data for all main synoptic stations and, also the upper air data for Stanley, which were included with the permission of the Director, Meteorological Office, London.

The Daily Weather Report was started on January 1st. This was designed to make available, the synoptic material for main hours for all stations, to South Africa, the United States and any other agencies who may be engaged on a synoptic investigation of Antarctic areas. The report contained the results of all pilot balloon ascents and the daily upper air soundings made in Stanley, in addition to the main six-hourly reports from all stations. A synoptic map for 12 G.M.T. was also included. The report was discontinued at the end of June due to shortage of blank forms caused by printing delays in the United Kingdom.

All the climatological data for 1944–50 were prepared for publication under the supervision of the Meteorological Office, London. A full discussion was also undertaken by Dr. J. Pepper, M.A., PH.D. of the Meteorological Office, Air Ministry and will be published with the data under the title "Meteorology of the Falkland Islands and Dependencies 1944–50". The appropriate part of the Meteorological Gazetteer will also be included.

A list of publications issued during the year is included in Appendix III.

7. Organisation

No changes were made in the general organisation outlined in para 1. The Instructions to Main Synoptic Stations were brought up to date by issue of amendments.

The Senior Assistant visited the Antarctic Bases during the voyage of the R.R.S. John Biscoe from February 25th to April 24th. All Bases were visited and experimental recording equipment installed at Hope Bay.

The subsidiary stations at West Point, Darwin and Pebble Island were also visited in January.

8. Staff

Although all posts in the service were kept filled, there was a serious shortage of experienced staff. With one exception, meteorological posts in Stanley and South Georgia were filled by staff loaned from the British Meteorological Office but only seven of the sixteen assistants at Antarctic Bases came from this source. Of the other nine, three had previous experience with the Survey, three received a short course of instruction at the Meteorological Office in London, and three arrived at Antarctic Bases without previous experience or training. It was necessary to transfer two assistants from Stanley in order to maintain establishments at Bases and South Georgia and to ensure that there was at least one experienced Air Ministry assistant at each Base. The vacancies at Stanley were filled temporarily by staff being relieved from Bases but the new staff eventually recruited from Air Ministry were much less experienced than the assistants previously transferred to Bases. This unfortunate position was aggravated by the absence of the Chief Meteorological Officer and Senior Assistant on leave from June to December and by the prolonged absence due to sickness of the clerk.

With the experience of the past season in mind, it was decided to recruit at least four assistants for Bases, to be trained in Stanley during the winter. Four duly arrived in July and their training was satisfactorily completed by the end of the year, despite the handicaps already mentioned, although one assistant was later found unsuitable for Bases because of defective eyesight and a second was retained in Stanley for further training as prospective replacement for the Junior Forecaster who was due to be relieved in March 1954.

The radio section was at first staffed by one operator who served till May, when he left the Colony on completion of his contract. For the first two months, he was assisted by operators on their way to the Antarctic Bases, and from March 1st till his departure, by a locally-recruited assistant who had been to England for training in W/T duties. In May, a second locally-recruited assistant who had learned to read morse while serving as a meteorological assistant, was transferred to radio duties and made such good progress in this branch that no difficulties were experienced in maintaining all schedules during the remainder of the year. Both operators were thus also trained observers and it was possible to employ them in both capacities, thereby releasing other assistant staff for climatological work. No progress was made with the training of other meteorological assistants in radio duties, due largely to the almost complete change of assistant staff during the year.

The forecaster at South Georgia left for the United Kingdom on April 20th, accompanied by the senior assistant. No relief forecaster was available, despite repeated advertisement in the United Kingdom, and the station was therefore left without a forecaster during the winter. The retiring forecaster later re-engaged and had returned for a further tour of duty by mid-October. The station was manned by only two observers from March to September but full observations and reports, including pilot balloons, were maintained throughout this period.

Staff serving during the year are listed at Appendix II.

9. Instrumental Equipment

All supplies were handled by the Crown Agents for the Colonies with the help and advice of the Meteorological Office from whom much of the equipment was purchased. There were no important shortages of equipment although voltmeter recording mechanisms for the anemometers were difficult to obtain. Recording anemometers were first tested at Deception Island in 1952 and operated so successfully that similar instruments are to be installed at all Bases in due course.

Some difficulties were experienced with the Dewcel and wind direction recorders being tested at Deception Island and Hope Bay, due largely to inadequate power supplied. Neither Base had a continuous A.C. supply, and a battery bank, which was employed at Deception I. with a rotary converter for a period, was found to place too great a strain on the charging facilities. Heavy-duty vibrators reduced this somewhat but the A.C. supply so produced was unsuitable for the wind direction equipment. The vibrators also proved difficult to suppress and caused objectionable radio interference.

The wind speed equipment for installation on Sapper Hill, near Stanley, did not arrive until late in the year. This equipment is being used to determine whether the hill would provide a suitable site for the large scale generation of electricity. The tests are being made in conjunction with the British Electrical and Allied Industries Research Association.

Equipment was obtained for a radio-sonde station to be set up at Argentine Islands during 1954. Most of the apparatus came from the Meteorological Office, London and Kew Mark II b radio-sonde transmitters will be used. Radar wind-finding equipment was considered impracticable at such a remote station.

Plans were prepared, in consultation with the Secretary F.I.D.S., for a balloon-filling shed, a radio-sonde operations room and a meteorological office at the new station. The meteorological office is intended as a standard unit for incorporation in all new base huts as they are supplied. All interior fittings, benches, cupboards etc. will be prefabricated by the manufacturers before the huts are sent out from the United Kingdom.

10. International Co-operation

Copies of the Daily Weather Report (see para. 6.) were sent to the Southern Hemisphere Projects operated by the South African and United States Weather Bureau. An abbreviated version of the daily upper air ascents from Stanley was transmitted on the following morning (in the MESRAN code) for the benefit of the South African Weather Bureau. A short collective message of South American stations was also transmitted daily for the benefit of the same service which was unable to receive them direct because of communication difficulties.

APPENDIX I

Provision in Dependencies Estimates for Meteorological Services July 1953 – June 1954

HEADQUARTERS

			£	
Head 4A	Personal Emoluments		7,050	
,, B	Stores, Equipment etc.		1,355	
,, C	Special Expenditure (including publications)		2,000	
	Total Headquarters Expenditure			£10,405

SOUTH GEORGIA

Head 1A	Personal Emoluments (Meteorological Staff)		2,080	
,, B	Meteorological Equipment		300	
	Total South Georgia Expenditure			£2,380

ANTARCTIC REPORTING STATIONS

Head 5A	Personal Emoluments (Meteorological Staff)		10,800	
,, B	Meteorological Equipment etc.		2,500	
,, C	Special Expenditure (experimental equipment, ground installations for new radio-sonde unit)		2,800	
	Total Antarctic Bases Expenditure			£16,100
	Total Expenditure — Dependencies			£28,885

Provision in Colony's Estimates for Meteorological Services April 1953 — March 1954

Head VIII (a)	Personal Emoluments, part-time observers ...		100	
,, ,, (b) 2	Contribution towards cost of Headquarters ...		1,050	
,, ,, (b) 3–5	Stores, Equipment etc.		134	
	Total Expenditure — Colony			£1,284
	GROSS TOTAL			£30,169

APPENDIX II

Staff List – 1953

STANLEY

Chief Meteorological Officer	–	G. A. Howkins
Deputy and Radio-Sonde	–	D. McNaughton
Forecaster	–	S. D. Glassey
Senior Assistant	–	J. Ford
* Assistants	–	P. H. Hoare L. J. Shirtcliffe (from March) B. D. Hunt (till May) B. E. Gilpin (from May) F. D. Byrne (from June) J. Cochrane (till July) R. L. Tapp (from July)

* A number of other assistants served in Stanley for periods up to two months on their way to or from the Antarctic Bases.

W/T Operator/Met. Assistants	–	J. Newing (from March) C. H. McLeod
W/T Operator	–	J. A. Brown (till May)
Clerks	–	G. Browning (Miss) † I. U. Sedgwick (Miss) (from October)

† On sick leave from September.

SOUTH GEORGIA

Forecaster-in-Charge	–	D. Borland ‡
Senior Meteorological Assistant	–	J. R. Cowling
Assistants	–	A. A. Smith
		J. Cochrane

‡ On leave April to October

PORT LOCKROY

Scientific/Meteorological Assistant	–	A. H. Martin

DECEPTION ISLAND

Base Leader/Meteorological Assistant	–	I. W. N. Clarke
Senior Meteorological Assistant	–	D. J. George
Meteorological Assistant	–	F. A. Hall

HOPE BAY

Senior Meteorological Assistant	–	B. Kemp
Meteorological Assistants	–	J. A. Coley
		G. H. Brookfield
		M. F. Tait

ARGENTINE ISLANDS

Base Leader/Meteorological Assistant	–	D. A. Barrett
Senior Meteorological Assistant	–	F. L. Johnson
Meteorological Assistant	–	H. Smith

ADMIRALTY BAY

Base Leader/Senior Meteorological Assistant	–	R. F. Worswick
Meteorological Assistants	–	R. J. Banks
		G. E. Hemmen

SIGNY ISLAND

Base Leader/Meteorological Assistant	–	A. G. Tritton
Senior Meteorological Assistant	–	R. A. Berry
Meteorological Assistant	–	D. Parsons

FALKLAND ISLANDS OUTSTATIONS — (voluntary observers)

Darwin	–	D. M. Honeyman
Fox Bay	–	E. H. Smith
Pebble Island	–	J. W. C. Peck
§ Port Stephens	–	A. R. Beaty (Mrs.)
West Point Island	–	H. M. Napier

§ Closed down in May.

APPENDIX III

Publications issued during 1953

1. Daily Weather Report (January to June inclusive).
2. Annual Meteorological Tables, 1952.
3. Annual Report on the Service for the year 1952.
4. "Weather Messages"

Printed at the Government Printing Office, Stanley, Falkland Islands.
PRICE ONE SHILLING.

FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

Weather Messages

Issued August, 1953

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

So far, no regional codes have been published for the South American area and European practice, as laid down in I.M.O. Publication No. 9 Fascicule I section II–6, is followed with the following exceptions :—

a) To keep in line with South American procedure, shore station reports are issued for 2300 G.M.T. instead of midnight and all surface temperatures are expressed in degrees centigrade. Ship reports are for midnight G.M.T.

b) Observations are broadcast for the four main hours 06, 12, 18 and 23 G.M.T. only, and, in these circumstances, the detailed characteristic of the barograph trace (a_x) is considered to be more useful than either the direction of cloud movement (D_z) or state of ground (E). a_x is therefore reported in the 6–group ($6a_xapp$) at all synoptic hours, using Code 627 on page II–6–15 of I.M.O. Publication No. 9 Fascicule I.

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

Colomn 1 – Time of transmission

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

Column 2 – Time of observation

In synoptic 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

The following international codes are used in synoptic messages :—

Synoptic Messages (Land Stations)	SYNOP	FM 11
„ „ (Ships)	SHIP	FM 21, 22, 23
Upper Winds by Pilot Balloons	PILOT	FM 32
Upper Air Soundings	TEMP	FM 35
*Upper Air Soundings (abridged form)	TEMP	MESRAN
Monthly Climate Summaries	CLIMAT	FM 71
Monthly Aerological Summaries	CLIMAT TEMP	FM 75

Storm warnings are in plain language, in the form defined by Washington resolution 44.

1. International call (TTT).
2. Statement of type of warning (gale, storm).
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).

Synoptic situations (which include a brief description of weather conditions) and forecasts are given in plain language though areas will be defined by reference to the code which is shown on the following map.

Column 5 – Details of message

In synoptic messages (including PILOTS, TEMPS and CLIMATS) 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.

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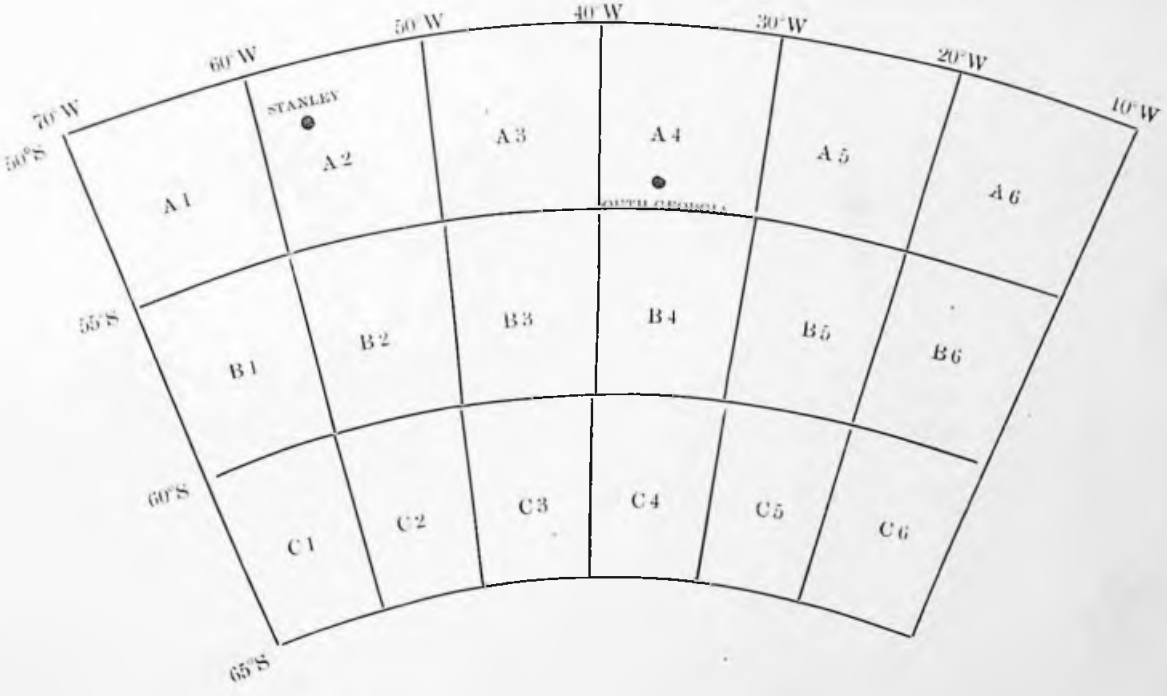
* For MESRAN codes and specifications see I.M.O. Publication No. 9 Fascicule I pages II-6-6, II-6-9 to 11.

FALKLAND ISLANDS AND SOUTH GEORGIA

WEATHER FORECAST AREAS



FALKLAND ISLANDS

National Broadcast

Denomination of Broadcast — Collective message of reports from Falkland Islands and Dependencies

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station
Stanley, Falkland Islands	September 1st to April 30th.		
Falklands Radio			
VPC	1300	16362 A_2	3.5 KW
	1900 } 2400	8195 A_2	
Meteor Falklands			
ZHF 88	1300	7425 A_1	.350 KW
	1900	11425 A_1	
	2400	7425 A_1	
Stanley, Falkland Islands	May 1st to August 31st		
Falklands Radio			
VPC	1300	16362 A_2	3.5 KW
	1900	8195 A_2	
	2400	3600 A_2	
Meteor Falklands			
ZHF 88	1300	7425 A_1	.350 KW
	1900	11425 A_1	
	2400	5100 A_1	

1	2	3	4	5
1300	0600	SYNOP/RETARD	FM 11	88 : 890, 903, 925, 934, 938, 940, 952
	1200	SYNOP	FM 11	* 88 : 880, 882, 884, 886, 888, 890, 903, 925, 934, 938, 940, 952.
		PILOT	FM 32	
		SHIP	FM 21, 22, 23.	
	1500	TEMP	MESRAN	88 : 890 (previous day)
1900	1800	SYNOP	FM 11	88 : 890, 903, 925, 934, 938, 940, 952.
		PILOT	FM 32	
		SHIP	FM 21, 22, 23.	
	1500	TEMP	FM 35	88 : 890
2400	2300	SYNOP	FM 11	88 : 890, 903, 925, 934, 938, 940, 952.
		PILOT	FM 32	
	2400	SHIP	FM 21, 22, 23.	

Notes:

CLIMAT reports are issued at 1300, 1900 and 2400 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.
CLIMAT TEMP (800, 700, 500, 300, 200mb)	88 : 890.

Observations are also made at Port Lockroy (station 949) at some, or all, of the main synoptic hours and are included in broadcasts as available.

* 88 : 880 provisional number for West Point Island, West Falklands.

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 (ZHF 88)	0130 [1], 1515, 2115.	3700 A_3	0.250 KW

1	2	3	4	5
0130	2)	Storm warnings & forecast	In clear	For area affected
1515	2)	Storm warnings & forecast	In clear	For area affected
2115	2)	Storm warnings & forecast	In clear	For area affected

1) Issued from December to March only.
2) Valid for 18 hours, with further outlook for 12 hours.

FALKLAND ISLANDS

Weather messages for shipping

Denomination of Broadcast — Weather bulletins for Antarctic whaling vessels S. of 50°S. between 70°W and 40°W. [2]

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station
Stanley, Falkland Islands	December to April. [1]		
Falklands Radio VPC	0200, 1500, 2100	8195 A_2	3.5 KW
Meteor Falklands ZFH 88	0200, 1500, 2100	7425 A_1	.350 KW

1	2	3	4	5
0200	4)	Storm warnings	In clear	Gale/storm warnings.
		Situation	In clear	Brief description of situation in area affected.
		Forecast	In clear	Forecast for area affected. [2] [3]
1500	4)	Storm warnings, Situation, Forecast	In clear	See 0200
2100	4)	Storm warnings, Situation, Forecast	In clear	See 0200

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. can be supplied with forecasts by Meteor Falklands in return for synoptic reports in one of the ships codes (preferably FM 21), or in plain language if the codes are not available aboard the ship. Reports can be accepted between 12–1300, 18–1900 and 00–0100, and forecasts issued about 1500, 2100 and 0200 (the last from December–March only). Note, however, that ZHF 88 does not keep listening watches for ships and initial contact should be made through VPC either in CQ schedules ;—

1400 – VPC on 16362 kc/s.

0030 – VPC on 8555 kc/s.

or on 500 kc/s at any time between the hours

1230–1430 and 1830–0130.

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 Antarctic whaling vessels in area S. of 50°S. between 45°W and 10°W.[2])

Transmitting Station Call Sign	Broadcast Times	Frequencies (kc/s) Type of Waves	Power of Station
Grytviken, South Georgia ZBH	October to April 0230 / 1530 / 2130	500 and 8333 A_1	.800 KW

1	2	3	4	5
0230	5)	Storm warnings	In clear	Gale/storm warnings.
		Situation	In clear	Brief description of situation in area affected. [1])
		Forecast	In clear	Forecast for area 250 miles radius from station. [2])
				Area S. of 50°S. between 40°W. and 10°W. [3]) [4])
1530	5)	Storm warnings / Situation / Forecast	In clear	See 0230
2130	5)	Storm warnings / Situation / Forecast	In clear	See 0230

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

2) During October – April, as required.

3) During December – April, as required.

4) Forecasts will be supplied on request while between 40°S and 50°S. 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 station 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.			

PRINTED AT THE GOVERNMENT PRINTING OFFICE, STANLEY, FALKLAND ISLANDS.

FALKLAND ISLANDS AND DEPENDENCIES

METEOROLOGICAL SERVICE

Annual Meteorological Tables

1953

FALKLAND ISLANDS AND DEPENDENCIES
METEOROLOGICAL SERVICE

With the Compliments

of

The Chief Meteorological Officer

FALKLAND ISLANDS AND DEPENDENCIES
METEOROLOGICAL SERVICE

ANNUAL METEOROLOGICAL TABLES 1951

Amendments dated 1st April 1954.

Annual Meteorological Table for Deception Island, South Shetlands, 1951

Page 27. Under DAILY MEAN SEA LEVEL PRESSURE *amend as follows :—*

March	970.6	to read	995.6

ANNUAL METEOROLOGICAL TABLES 1952

Amendment No. 1 dated 1st April 1954.

Annual Upper Air Data for Stanley, Falkland Islands, 1952

Page 7. 600 mb. Dew Point.

January	8.0	to read	−8.8
December	0.9	to read	−8.9
Total	−154.9	to read	−181.5
Mean	−12.9	to read	−15.1

FALKLAND ISLANDS AND DEPENDENCIES
METEOROLOGICAL SERVICE

Annual Meteorological Tables
1953

Prepared in conjunction with

The Meteorological Office, London.

Published for the Falkland Islands Dependencies Survey

Stanley, Falkland Islands, 1955.

CONTENTS

Introduction

This series of tables, which commenced with the data for 1951, is published annually to meet the demand from contemporary expeditions and various research organisations for Antarctic statistics. Those tables which were published for 1951 and 1952 have been retained in the same form in this issue, apart from minor modifications; but additional frequency tables are now included and the order in which the tables occur is therefore changed.

The modifications made to existing tables are :—

(a) Estimated Sunshine. This is included for stations where the sunshine recorders are in the shadow of natural obstacles for long periods.

(b) Cloud Height Summary (*see note 6.*) The different treatment of traces was adopted in accordance with the practice introduced by the Meteorological Office, London, in 1953. It has a material effect on the summary which is not directly comparable with those for previous years.

(c) Days of Fog. At Antarctic stations, the visibility is frequently reduced to fog limits (less than 1100 yds.) by drifting or falling snow. These occasions are now separated from 'true' fog, caused by water droplets or ice particles in suspension. (*see note 15*)

(d) Days of Hail. Most observers find it difficult to distinguish soft hail from granular snow and small hail from ice pellets. All four types have therefore been included under hail which is subdivided as follows. Soft hail and granular snow are crisp white easily compressible opaque grains. Small hail and ice pellets are hard transparent ice grains. 'True' hail has a multilayered structure.

(e) Days of Showery Precipitation. This feature is not illustrated by any of the entries in the tables for previous years and a special column has therefore been introduced.

The new frequency tables introduced in this issue are :—

Surface Observations

Pressure in 5 mb. ranges
Temperature in 2°F ranges
Wind force in twelve 30–degree sectors for each month.

Upper Air Observations at Standard Pressure Levels

Temperature in 2°F ranges
Wind speed in various ranges
Wind direction in twelve 30–degree sectors
Height of the standard pressure levels in 50 or 100 feet ranges.

Frequency summaries for individual hours of observations are being prepared for the period 1951–5 and it is hoped to publish these, with a full discussion, to follow up the publication "The Meteorology of the Falkland Islands and Dependencies 1944–50" by Dr. J. Pepper, M.A., Ph.D. Publication of a current Meteorological Gazetteer has been delayed but most of the details of sites and exposures included in the 1944–50 publication are still applicable.

Notes on the Tables

Surface Observations

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

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

Rainfall is read twice daily, at the same hours. The amount recorded at 0900 Zone Time is "thrown back" to the previous day, and the day for rainfall purposes therefore ends at 0900 Zone Time, the amount being credited to the previous calendar day. These amounts are also used to classify days of precipitation in the weather tables.

Thus, the terms "*day*" and "*daily*" are used in the tables to imply 24 hours in one of the three 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. However, for convenience of extraction, the columns headed 1 (positive) and 1 (negative) refer to the ranges 0.0 to 1.9°F and 0.0 to –1.9°F respectively *i.e.* they overlap slightly and occasions of exactly 0.0°F are included in both columns.

Frequency Table III.

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

6. Cloud Heights. This is concerned primarily with lowest significant cloud (international definition) but clouds above 6000 metres are also included and, with effect from January 1953, traces of cloud existing below greater amounts have been disregarded in favour of the next highest layer. The occasions when traces are disregarded are shown in the last column of the summary.

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 IV.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

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

15. 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.

16. 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.

17. Days of freezing rain and drizzle and days of ice crystal fog are included in the main entries under these columns but are also shown separately in parenthesis.

Upper Air Observations

18. 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.

19. 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.

20. 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.

21. In the original extractions heights above Mean Sea Level were entered in tens of feet at levels up to 800 mb. and in hundreds of feet at 700 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 in tens of feet grouped in 50 feet ranges while those for 700 mb. and above are in hundreds of feet.

Means and Extremes Table I.

22. The Tables show the number of observations on which means etc. are based. All ascents used in the tables reach 400 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°F. 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.

23. 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. *i.e.*

Type I — An abrupt change of lapse rate to inversion; the tropopause is taken as the point of change of lapse rate.

Type II — An abrupt change to a lapse rate of less than 1°F per 1,000 ft. (without inversion); the tropopause is taken as the point of change of lapse rate.

Type III — If there is no abrupt change the tropopause is taken as the point where the lapse rate for the 3,000 ft. above is 3°F per 3,000 ft. or less, provided that this value is not exceeded in any 3,000 ft. above this level.

In the tables no distinction is made between different types of tropopause. Where two tropopauses were reported, the lower has been used.

Means and Extremes Table I for Stanley, Falkland Islands, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	[3] Extremes				[1] Mean at								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	993.8	1015.6	23rd, 25th	976.8	9th	44.8	44.9	48.7	50.6	51.1	50.2	46.8	45.1	47.8	55.5	41.2	65	25th	32	31st
February	1003.6	1012.2	9th	987.3	19th	45.5	45.5	49.1	53.1	54.2	52.1	47.5	46.2	49.1	58.2	42.3	77	12th	33	20th, 26th
March	1000.1	1015.4	12th	981.7	18th	44.9	44.6	47.7	51.9	52.5	49.2	45.6	44.8	47.5	55.4	40.6	66	14th, 25th	32	29th
April	1003.6	1028.3	21st	981.3	1st	39.1	38.7	39.4	43.2	43.2	40.8	39.4	38.3	40.3	47.0	34.8	54	5th, 28th	29	19th, 20th 22nd, 30th
May	1000.2	1021.2	12th	973.9	25th	38.0	38.0	38.0	40.3	41.0	38.9	38.4	38.3	38.9	42.6	34.7	52	12th	25	1st, 5th
June	1001.3	1021.7	13th	980.0	25th	36.3	35.9	35.7	38.6	39.4	37.7	37.1	36.1	37.1	41.5	32.4	50	9th	24	30th
July	1006.2	1031.3	3rd	977.5	16th	35.0	34.8	34.9	37.2	38.0	36.3	35.7	35.8	36.0	39.5	32.6	48	25th	23	2, 17, 18
August	1003.3	1029.5	28th	965.0	20th	36.4	36.4	37.0	39.7	41.0	38.8	37.7	37.1	38.0	42.5	34.1	49	12th	25	29th
September	1004.9	1021.6	16th	978.0	30th	37.0	37.0	38.4	40.7	40.5	39.1	37.9	37.5	38.5	42.3	34.9	49	1st, 30th	30	16th
October	1002.2	1026.5	25th	978.9	31st	38.5	37.7	42.3	46.2	46.4	44.1	39.8	38.5	41.7	49.0	35.2	58	21st, 27th	30	3rd
November	1001.2	1021.6	21st	981.1	1st	40.4	41.6	46.2	48.6	48.5	46.5	42.8	41.5	44.5	52.2	38.1	67	25th	30	7th
December	1005.6	1020.7	18th	988.1	13th	44.1	45.4	50.0	52.3	52.3	50.6	47.2	45.3	48.4	55.6	42.2	66	9th	35	29th
Total	12026.0	12265.6	—	11749.6	—	480.0	480.5	507.4	542.4	548.1	524.3	495.9	484.5	507.8	581.3	443.1	701	—	348	—
Mean	1002.2	1022.1	—	979.1	—	40.0	40.0	42.3	45.2	45.7	43.7	41.3	40.4	42.3	48.4	36.9	58.4	—	29.0	—

Means and Extremes Table II for Stanley, Falkland Islands, 1953.

Month	Relative Humidity % — Mean at [1] 0200	0500	0800	1100	1400	1700	2000	2300	1-2 Daily Mean	Cloud Amount (oktas) — Mean at [1] 0200	0500	0800	1100	1400	1700	2000	2300	1-2 Daily Mean	Sunshine — Mean Daily Rec.	Est*	Mean Length of Day	Rainfall (mm.) [1] Total	Max. Fall	Date
January	89	88	78	73	73	73	83	87	81	6.4	6.1	6.1	6.2	7.0	6.6	5.9	6.5	6.6	5.5	—	16.1	65.9	11.4	3rd
February	91	91	86	77	76	79	91	91	85	6.0	6.4	6.1	5.7	5.8	6.2	5.6	5.9	6.0	5.9	—	14.5	46.6	9.6	5th
March	87	89	82	70	67	72	82	86	79	4.7	5.0	5.3	5.4	5.5	4.9	4.2	4.2	4.9	5.9	—	12.5	46.7	10.6	8th
April	87	87	86	75	77	82	86	90	84	5.0	4.4	5.8	6.1	6.2	5.4	4.4	4.4	5.2	4.3	—	10.5	51.3	8.5	1st
May	91	91	92	90	87	91	91	93	91	5.4	5.5	6.5	6.4	6.1	6.1	6.0	6.3	6.0	2.1	—	8.8	70.3	16.8	21st
June	90	92	91	87	84	87	86	91	89	4.2	3.9	5.1	5.7	5.6	5.4	4.3	3.6	4.7	2.6	—	7.9	34.1	17.3	26th
July	92	91	94	87	87	91	92	91	91	5.5	5.4	5.8	5.6	5.8	6.1	6.3	6.1	5.8	2.5	—	8.3	24.8	3.7	19th
August	94	93	92	88	84	90	90	91	90	5.4	5.0	5.8	6.2	6.2	5.7	5.0	4.8	5.5	3.2	—	9.7	79.1	12.4	14th
September	94	94	92	85	84	87	91	92	90	6.2	6.8	7.0	6.7	7.1	6.9	6.6	6.6	6.7	2.2	—	11.7	88.1	*24.9*	*2nd*
October	86	90	80	70	69	74	85	87	80	4.7	5.7	6.5	6.5	5.9	5.7	5.1	5.2	5.7	6.1	—	13.7	47.7	13.4	14th
November	91	88	75	72	72	75	83	89	81	5.6	6.7	6.4	5.8	6.0	6.0	5.3	5.7	5.9	6.8	—	15.6	38.6	7.7	2nd
December	91	88	78	73	71	74	85	88	81	5.6	6.3	6.1	6.1	6.1	6.1	5.9	5.0	5.9	7.1	—	16.6	57.9	11.7	29th
Total	1083	1082	1026	947	931	975	1045	1076	1022	64.7	67.2	72.5	72.4	73.3	71.1	64.6	64.3	68.9	54.2	—	145.9	651.1	148.0	—
Mean	90	90	85	79	78	81	87	90	85	5.4	5.6	6.0	6.0	6.1	5.9	5.4	5.4	5.7	4.5	—	12.2	54.3	12.3	—

* No exposure effect.

Frequency Table I for Stanley, Falkland Islands, 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.9*	*1025.0 to 1029.9*	*1030.0 to 1034.9*	*1035.0 to 1039.9*
January									4	7	32	32	51	69	28	21	4				
February											3	17	23	62	106	13					
March										3	14	49	62	57	31	29	3				
April										4	23	45	45	19	29	23	27	7	18		
May								5	12	26	22	21	18	38	42	35	24	5			
June										10	23	29	50	43	36	18	29	2			
July									4	7	18	18	35	34	36	30	27	23	10	6	
August							4	3	3	9	11	23	44	43	32	29	22	17	8		
September									3	4	8	32	27	37	41	39	41	8			
October									2	24	22	22	22	46	43	36	21	4	6		
November										11	32	31	34	36	47	23	22	4			
December											5	29	33	44	63	31	37	6			
Year							4	8	28	105	213	348	444	528	534	327	257	76	42	6	

Frequency Table II for Stanley, Falkland Islands, 1953.

TEMPERATURE: Number of observations at all hours, in 2°F ranges :—

MONTH	Negative Ranges										Positive Ranges																																								
	-19	-17	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
January																												1	5	7	18	32	24	31	53	38	12	8	11	4	2	2									
February																											1	5	2	11	15	29	14	29	29	26	11	17	9	5	2	8	4	4		2		1			
March																											1	2	8	12	25	26	26	26	35	27	22	11	10	8	6	2	1								
April																									5	11	19	23	23	29	32	22	37	23	10	2	4														
May																								2	5	11	21	25	46	25	36	46	19	9	2	1															
June																							2	6	7	7	29	37	43	43	36	20	9	1																	
July																						2	5	11	12	16	20	34	49	52	36	10	1																		
August																								2	2	6	20	35	59	44	45	25	7	2	1																
September																										2	14	30	58	55	54	18	5	3	1																
October																										2	9	23	26	38	42	32	25	18	14	11	4	4													
November																										1	3	4	18	29	24	34	42	20	22	16	13	6	3	1	3	1									
December																											1		1	6	16	26	33	42	40	27	13	14	12	8	6	3									
Year																						2	7	21	31	56	138	219	338	351	379	320	242	204	207	148	79	60	45	26	19	16	5	4		2		1			

DAILY EXTREMES.

MONTH	-19	-17	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
Maximum																										1	3	8	6	20	45	39	38	32	26	23	30	20	16	14	18	5	8	7	2	1	2		1		
Minimum																						3	6	3	10	18	60	58	45	54	43	28	9	14	11	3															

Frequency Table III for Stanley, Falkland Islands, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)														NO CLOUD	TRACES DISREGARDED[4]
																	ALL AMOUNTS									7–8 OKTAS									
	< 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	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	0	0	0	0	1	3	24	41	82	97	12	49	60	94	33	0	0	0	4	30	(10) 57	(38) 123	(49) 19	9	6	0	0	2	12	(7) 12	(21) 8	(29) 6	4	4	0	3
February	0	0	1	1	2	2	20	51	61	86	39	47	24	70	41	3	3	1	6	(1) 34	(11) 63	(41) 57	(16) 9	34	13	3	0	4	(1) 10	(9) 12	(36) 11	(14) 6	6	3	4	12
March	0	0	0	1	1	2	15	34	80	115	53	79	36	48	32	0	0	2	5	(1) 27	(5) 45	(25) 81	(11) 11	36	27	0	1	3	(1) 5	(4) 13	(19) 11	(6) 0	4	3	14	24
April	0	6	3	5	0	7	25	48	87	59	27	55	52	60	36	10	10	8	13	(1) 34	(16) 52	(25) 80	(6) 12	10	3	10	6	7	(1) 11	(12) 9	(13) 10	(2) 3	1	2	18	4
May	0	7	4	5	8	5	53	55	70	44	29	38	44	58	70	9	9	7	21	(2) 56	(17) 63	(22) 55	(12) 6	14	8	9	6	15	(1) 26	(12) 11	(18) 19	(11) 0	4	4	9	2
June	0	3	2	9	7	0	23	77	64	55	56	50	57	46	19	12	12	1	14	19	(3) 55	(23) 64	(14) 11	15	13	12	1	2	5	(2) 9	(10) 8	(8) 0	3	2	36	8
July	0	1	2	6	3	4	53	120	43	16	33	23	48	68	73	3	10	(3) 8	(6) 29	(2) 45	(29) 54	(9) 63	(7) 4	13	4	3	(3) 2	(6) 16	(2) 13	(21) 25	(7) 18	(5) 1	2	1	18	2
August	0	5	1	4	9	9	74	111	28	7	36	42	37	42	86	5	13	(1) 31	(1) 30	(7) 31	(16) 50	(10) 45	(5) 6	10	3	11	(1) 19	(1) 18	(6) 11	(12) 18	(7) 10	(3) 0	0	1	29	6
September	0	7	2	4	10	11	56	88	42	20	8	16	44	53	109	10	14	(2) 18	(3) 37	(4) 49	(18) 48	(29) 49	(17) 16	2	1	10	(2) 10	(3) 27	(4) 14	(13) 16	(19) 18	(12) 7	1	0	6	1
October	0	0	0	1	1	6	31	106	56	47	57	50	51	45	44	1	1	3	11	22	(12) 57	(27) 70	(11) 18	42	10	1	1	1	3	(7) 9	(20) 13	(8) 6	7	3	14	9
November	0	0	0	2	1	5	18	64	60	90	31	40	61	53	53	2	4	(2) 4	(1) 7	(1) 31	(11) 38	(23) 102	(5) 19	22	7	2	(2) 3	(1) 5	(1) 10	(10) 9	(13) 18	(5) 3	6	2	6	4
December	0	0	0	0	3	4	21	44	78	98	27	58	64	46	53	0	0	11	12	(3) 31	(13) 37	(16) 100	(13) 22	24	7	0	4	8	(3) 13	(10) 12	(11) 10	(5) 2	4	4	4	8
Total	0	29	12	38	46	58	413	839	751	734	408	547	578	683	649	55	76	(8) 94	(11) 189	(22) 409	(161) 619	(288) 889	(166) 153	231	102	61	(8) 53	(11) 108	(20) 133	(119) 155	(194) 154	(108) 28	42	29	158	83
Mean	0	2	1	3	4	5	34	70	63	61	34	46	48	57	54	5	6	(1) 8	(1) 16	(2) 34	(13) 52	(24) 74	(14) 13	19	9	5	(1) 4	(1) 9	(2) 11	(10) 13	(16) 13	(9) 2	3	2	13	7

Frequency Table IV for Stanley, Falkland Islands, 1953.

MONTH	WEATHER: No. of Days [1]																										
	Temperature [7]				Precipitation [1]			8 Wind Force ≥ 6	8 Wind Force ≥ 8	9 & 17 Rain	9 Snow	9 Sleet	9 & 17 Drizzle	9 Thunder	10 Cloudy	10 Clear	11 Snow Lying	12 Ground Frost	13 Drift	9 & 14 Showers	9 & 17 Fog		9 & 16 Hail		
	High Min.	Low Max.	Low Min.	High Max.	≥0.10 mm	≥1.0 mm	≥10.0 mm														True	Pseudo	True	Small	Soft
	>50°F	<32°F	<23°F	>68°F																							
January					21	18	2	15	2	29	1	1	3	2	18			1		24	2		4		
February	1			5	15	11		17	1	20	1	5	7	1	14	1		3		18	3		3		
March					16	10	1	20	5	19		5	4		8			5		11	1		2		
April					24	15		19	4	23	8	15	6	2	10	1	4	16		22	5		11		
May					19	15	2	19	3	19	6	8	12		16	1	5	15	3	10	7		5		
June		1			19	5	1	18	2	15	7	7	2		10	3	6	22	1	13	5	1	4		
July					16	10		16	4	11	9	4	10		16	1	9	21	5	15	3	4	3		
August					18	12	4	19	4	19	3	7	11		15	3	1	21		12	8		2		
September					23	12	2	7	4	22		6	15	1	22			13		9	7		3		
October					19	12	1	21	3	19	4	7	2	2	14	2	1	17		17	1	1	7		1
November					16	11		15	1	22	1	5	4	1	11			6		14	2		4		
December	1				16	10	2	16	3	22		1	5	1	14			1		13			4		
Total	2	1		5	222	141	15	202	36	240	40	71	81	10	168	12	26	141	9	178	44	6	52		1
Mean	—	—		—	19	12	1	17	3	20	3	6	7	1	14	1	2	12	1	15	4	1	4		—

Frequency Table V for Stanley, Falkland Islands, 1953.

MONTH	2 Mean Wind Speed	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	15.3	5	41	134	64	4	17	4	8	3	3	3	20	41	46	27	37	35
February	15.3	1	36	138	47	2	16	4	4	2	1	2	15	44	31	29	38	36
March	15.9	5	41	143	56	3	27	12	2	1	1	1	8	22	27	34	57	53
April	16.6	9	50	126	52	3	20	1			2	3	5	18	25	44	67	52
May	14.6	3	45	114	84	2	30	20	14	6	8	5	8	18	17	42	29	49
June	15.2	2	47	123	66	2	36	2	2			1	5	20	18	24	45	85
July	15.0	6	41	117	74	10	29	4	7	4	6	2	17	25	22	29	38	55
August	15.4	5	50	111	76	6	26	33	15	11	3		2	17	26	20	30	59
September	12.6	6	18	104	99	13	32	39	8	8		6	18	41	24	6	17	28
October	16.0	3	52	131	60	2	9	1	1			4	16	35	35	35	68	42
November	15.2	1	32	139	67	1	6	8		3	2	4	11	46	39	29	47	44
December	14.2	6	37	109	92	4	21	11	8	9	1	2	26	29	23	25	47	42
Total	181.3	52	490	1489	837	52	269	139	69	47	27	33	151	356	333	344	520	580
Mean	15.1	4	41	124	70	4	22	12	6	4	2	3	13	30	28	29	43	48

Frequency Tables VI to IX for Stanley, Falkland Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VI — 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							2		5
2				1	1		1			1	2	6	12
3	3	1	3		1	2	6	7	4	2	8	10	47
4	7	3	3		1	1	6	10	16	13	18	8	86
5	4						1	5	16	7	5	10	48
6	3						1	12	4	3	2	1	26
7			1				2	6	5	1			15
V = 8							3	1	1				5
Totals	17	4	8	3	3	3	20	41	46	27	37	35	244

CALMS – 4

TABLE VII — 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	2
2			2				1	1		2	2	3	11
3	3		1	2			5	1	2	7	7	6	34
4	9	2	1			1	4	17	7	12	19	15	87
5	3	2			1	1	1	10	11	5	9	8	51
6	1						3	12	5	2		2	25
7							1	3	5	1		1	11
V = 8									1				1
Totals	16	4	4	2	1	2	15	44	31	29	38	36	222

CALMS – 2

TABLE VIII — 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	2	2	10
3	2	1	1	1	1	1		3	4	3	14	13	44
4	7	4					2	6	10	7	30	20	86
5	10		1				1	6	6	15	6	12	57
6	2	4					2	4	3	3	4	2	24
7	3	1					1	2	3	3	1	3	17
V = 8		2								2		1	5
Totals	27	12	2	1	1	1	8	22	27	34	57	53	245

CALMS – 3

TABLE IX — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1	1				1	1			1		1	6
2					1					2	6	3	12
3	1				1			1	4	4	12	11	34
4	6					1	1	3	5	10	27	21	74
5	5					1	3	2	3	18	13	7	52
6	5							5	3	6	7	7	33
7	1							3	6	3	2	2	17
V = 8	1							4	4				9
Totals	20	1			2	3	5	18	25	44	67	52	237

CALMS – 3

Frequency Tables X to XIII for Stanley, Falkland Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	1	2	1			1		2		2	2	14
2	4	3		2	3	1	1	1		3	3	4	25
3	5	5	6	2	4	1				3	4	15	45
4	7	5	4	1	1	1		2	5	12	15	12	65
5	5	2	1				3	6	4	17	2	9	49
6	6	3				1	1	7	5	6	3	4	36
7			1			1	2	1		1		3	9
≥ 8		1						1	1				3
Totals	30	20	14	6	8	5	8	18	17	42	29	49	246

CALMS – 2

TABLE XI — 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	4
2	1								2			10	13
3	4					1	3	1	3	4	16	17	49
4	6	2	2					4	4	11	20	34	83
5	6						1	4	6	7	5	11	40
6	10						1	5	2	2	2	9	31
7	7							4	1		1	3	16
≥ 8	2												2
Totals	36	2	2			1	5	20	18	24	45	85	238

CALMS – 2

TABLE XII — 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	2	7
2	1		1		2	2	1		1	1	3	2	14
3	5	2	1	1	2		2	3	2	9	16	10	53
4	7	1	1		1		7	1	8	9	14	16	65
5	8	1	3	3	1		2	8	6	6	3	11	52
6	5						1	6	4	1		8	25
7	3						1	6		1		5	16
≥ 8							3	1	1			1	6
Totals	29	4	7	4	6	2	17	25	22	29	38	55	238

CALMS – 10

TABLE XIII — 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						3	1	6
2	2	4	1	3	1		1		4		6	5	27
3	7	4	4	3					3	5	9	8	43
4	6	10	5	4	1			4	5	2	5	16	58
5	6	6	4	1			1	3	10	6	2	14	53
6		3						7	3	4	4	6	27
7	3	4	1					3	1	3	1	7	23
≥ 8	2	1										2	5
Totals	26	33	15	11	3		2	17	26	20	30	59	242

CALMS – 6

Frequency Tables XIV to XVII for Stanley, Falkland Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — 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			2	1		3	2	1	12
2	2	1	3	2			7	2	2		2	5	26
3	3	7		2		3	1	14	11	2	7	11	61
4	7	12	4	2		3	7	12	7	1	6	5	66
5	6	11	1	1			1	8	4			6	38
6	7	5						1					13
7	1	2						2					5
≥ 8	4	1						1					6
Totals	32	39	8	8		6	18	41	24	6	17	28	227

CALMS – 13

TABLE XV — 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
2			1					4	1	3	2	1	12
3	3						3	6	7	10	12	4	45
4	2					1	7	10	11	10	23	11	75
5						3	5	10	5	7	17	9	56
6	4						1	3	4	4	10	11	37
7								2	5	1	3	4	15
≥ 8									2		1		3
Totals	9	1	1			4	16	35	35	35	68	42	246

CALMS – 2

TABLE XVI — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1			1	1		1			2		1	7
2		1		2	1		1		1		5	3	14
3	1	1					2	3	6	9	17	7	46
4	2	6					2	12	14	11	15	9	71
5	2					1	5	11	16	6	10	17	68
6						2		11	1	1		5	20
7						1		8	1			2	12
≥ 8								1					1
Totals	6	8		3	2	4	11	46	39	29	47	44	239

CALMS – 1

TABLE XVII — 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	3	1	10
2	1	2	2	1			4		2	4	8	1	25
3		3	4	5	1	1	1	7	4	6	17	8	57
4	5	4	2	3		1	2	6	6	8	12	12	61
5	8	1					9	6	6	1	5	12	48
6	3	1					3		3	4	2	7	23
7	2						5	4	1	1		1	14
≥ 8	1							5					6
Totals	21	11	8	9	1	2	26	29	23	25	47	42	244

CALMS – 4

Frequency Table XVIII for Stanley, Falkland Islands, 1953.

Beaufort Force	Wind forces in twelve 30° sectors : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	All Directions
1	9	4	4	5	2	1	8	4	3	9	16	13	78
2	13	11	10	11	9	3	18	9	14	17	41	45	201
3	37	24	20	16	10	9	23	46	50	64	139	120	558
4	71	49	22	10	4	9	38	87	98	106	204	179	877
5	63	23	10	5	2	6	33	79	93	95	77	126	612
6	46	16				3	13	73	37	36	34	62	320
7	20	7	3			2	12	44	28	15	8	31	170
=> 8	10	5					6	14	10	2	1	4	52
Totals	269	139	69	47	27	33	151	356	333	344	520	580	2868

CALMS 52.

Upper Air Means Table I for Stanley, Falkland Islands, 1953.

MONTH	MEAN AIR AND DEW POINT TEMPERATURES AT STANDARD LEVELS IN °F, for 1100 Zone Time :—																				MEAN TROPOPAUSE		
	SURFACE		900 mb.		850 mb.		800 mb.		700 mb.		600 mb.		500 mb.		400 mb.		300 mb.	200 mb.	150 mb.	100 mb.			
	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	50.3	41.8	38.6	30.2	33.3	25.5	28.8	21.3	20.6	6.5	8.8	−7.4	−6.7	−21.6	−26.4	30 −39.2	−49.0	30 −53.4	29 −49.7	26 −49.8	30 259	32900	30 −61.7
February	52.1	45.3	43.2	31.3	39.7	26.7	37.1	21.1	30.3	10.5	14.7	−6.7	0.0	−19.7	−19.9	−37.0	27 −44.7	27 −58.1	27 −56.5	26 −58.4	27 240	36030	27 −64.3
March	50.4	42.5	41.0	30.2	36.5	24.0	32.0	28.1	22.0	6.1	10.5	−7.6	−4.7	−19.8	−24.2	29 −36.3	−48.1	30 −57.1	30 −56.2	28 −58.4	30 247	33950	30 −64.3
April	42.8	36.3	34.2	24.3	29.0	18.5	24.1	11.2	13.7	−3.0	2.2	−16.3	−11.7	−29.2	−31.0	26 −44.5	29 −54.0	29 −62.6	29 −60.1	25 −61.0	29 253	33170	29 −68.6
May	39.8	36.9	35.2	26.9	30.6	19.1	25.7	12.1	13.7	−1.9	0.3	−16.9	−15.3	−29.6	−35.9	22 −45.5	−56.7	30 −66.6	28 −64.5	24 −66.0	30 248	33630	30 −72.7
June	37.8	34.5	32.0	23.5	27.6	17.1	23.1	11.3	11.2	−2.4	−3.2	−18.1	−20.2	−35.0	−38.6	18 −47.3	−59.2	−67.3	−66.2	29 −66.9	259	32310	−70.2
July	36.4	33.6	29.7	20.8	25.9	13.1	21.5	6.0	9.7	−6.3	−3.5	−20.8	−19.5	−37.1	−39.5	15 −48.9	−62.5	−73.5	29 −70.1	27 −71.5	246	33300	−77.3
August	30 39.4	30 36.1	30 33.5	30 23.3	30 29.2	30 16.4	30 24.6	30 9.2	30 13.4	30 −4.6	30 −0.1	30 −17.2	30 −16.0	30 −33.2	30 −36.9	18 −48.0	30 −61.1	30 −72.8	29 −67.1	28 −70.6	247	33390	−77.4
September	40.5	35.9	31.7	23.8	27.7	16.5	23.7	9.3	12.8	−3.1	−0.1	−17.6	−16.7	−34.9	−37.1	22 −48.7	−60.6	−66.4	29 −64.3	26 −63.9	259	33260	−71.4
October	44.9	36.0	35.1	23.3	30.2	17.5	24.5	11.2	13.2	−2.5	−0.4	−18.3	−16.3	−32.3	−36.9	21 −44.6	−58.2	−65.0	−66.0	26 −65.7	253	33450	−73.6
November	48.1	38.9	36.6	25.5	31.0	20.4	26.3	12.2	15.4	−2.5	2.5	−17.7	−13.1	−32.1	−31.1	27 −47.7	−51.9	−59.4	−55.5	28 −52.0	279	32470	−66.2
December	52.3	42.8	40.2	28.7	36.5	22.7	31.7	17.3	20.7	4.5	8.0	−9.1	−6.3	−26.2	−25.3	−42.6	−49.5	−63.1	28 −58.8	27 −55.5	237	34980	−68.3
Total	534.8	460.6	431.0	311.8	377.2	237.5	323.1	170.3	196.7	1.3	39.7	−173.7	−146.5	−350.7	−382.8	−530.3	−655.5	−765.3	−735.0	−739.7	3027	402840	−836.0
Mean	44.6	38.4	35.9	26.0	31.4	19.8	26.9	14.2	16.4	0.1	3.3	−14.5	−12.2	−29.2	−31.9	−44.2	−54.6	−63.8	−61.3	−61.6	252	33570	−69.7

Upper Air Frequency Table I for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :-

MONTH	Surface																			900 mb.																		
	0 to -4	0 to 4	5 to 9	10 to 14	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	0 to -4	0 to 4	5 to 9	10 to 14	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
January										3	10	12	5	1												2	8	9	8	2	1			1					
February									1	3	6	9	3	4	2											2	5	5	6	4	2		2	1	1				
March									1	6	6	8	7	3												3	6	3	6	10	1	2							
April								1	5	13	9	2													1	3	5	9	5	4		2	1						
May								4	10	15	2														1	3	5	6	7	5	1	2	1						
June							2	3	14	11																5	7	9	4	3	2								
July							4	5	14	8															4	3	7	11	2	3	1								
August								1	13	16																4	7	7	5	6		1							
September									11	16	3															1	12	8	5	3	1								
October								1	4	8	11	7														3	4	10	7	2	3	2							
November									1	7	9	10	3													1	5	4	11	5	3		1						
December										2	8	7	13	1													2	5	7	7	9	1							
Year							6	15	74	108	64	55	31	9	2										6	23	61	88	70	58	36	12	5	2	2	1				

Upper Air Frequency Table II for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :–

MONTH	850 mb.																				800 mb.																					
	–5 to –9	*0 to –4*	*0 to 4*	*5 to 9*	*10 to 14*	*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*	*–10 to –14*	*–5 to –9*	*0 to –4*	*0 to 4*	*5 to 9*	*10 to 14*	*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*
January							2	6	15	4	2	1		1												1		7	10	9	2	1		1						
February						1	1	6	4	3	4	2	2	2	2		1									2		3	4	6	2	2	4	4			1			
March						1	2	4	5	7	9	1	2													2		3	7	6	7	5	1							
April					1	3	4	9	6	4		2	1											1	1	3	4	7	8	1	2	2		1						
May					1	3	3	6	9	4	3	1	1													5	4	2	11	3	4	1	1							
June					1	3	9	7	4	3	3														1	4	8	3	7	4	2	1								
July				1	3	3	5	7	7	4	1													3	1	2	5	6	9	4	1									
August					2	2	5	7	5	6	2	1												1	1	1	5	7	4	8	2	1								
September						3	7	11	4	3	2															1	7	9	9	1	3									
October					1	1	7	4	11	3	2	2														2	7	7	9	3	1	2								
November					1		5	10	4	4	5	1														3	1	12	4	4	4	2								
December							1	4	6	8	8	4																6	7	7	7	4								
Year				1	10	20	51	81	80	53	41	15	6	3	2		1							5	4	26	41	72	89	56	37	21	6	6			1			

Upper Air Frequency Table III for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :–

MONTH	700 mb.																			600 mb.																					
	–25 to –29	–20 to –24	–15 to –19	–10 to –14	–5 to –9	0 to –4	0 to 4	5 to 9	10 to 14	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	–40 to –44	–35 to –39	–30 to –34	–25 to –29	–20 to –24	–15 to –19	–10 to –14	–5 to –9	0 to –4	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54
January								1	3	10	11	3	2		1												1	1	5	12	6	4	2								
February									3	4	7	3	3	5	2	1												2	1	7	6	3	5	4	1						
March								3	1	4	14	4	4	1													2	1	3	5	9	9	2							
April						2	3	3	11	4	2	4			1											1	6	9	3	6	1	3	1							
May					1	2	3	4	5	9	3	3	1												1	1	8	7	6	3	4	2							
June					1	2	4	6	4	7	5	1												1	1	1	5	7	4	5	4	2	1						
July				1	2	1	4	8	5	8	3														2	2	2	6	8	6	4	2							
August							4	10	4	5	3	3	1														2	9	5	6	3	3	1	1						
September							3	5	13	3	5	1															1	7	11	7	3	4								
October						1		8	9	7	4	2														1	3	2	12	6	6	2							
November							3	5	7	7	3	3	2														1	4	9	7	4	6	1							
December								1	4	9	7	8	2																3	6	13	7	2	1						
Year				1	4	8	24	54	69	77	67	35	15	6	4	1								1	3	5	16	52	72	61	70	52	26	12	4	1				

Upper Air Frequency Table IV for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :–

MONTH	500 mb.																				400 mb.																					
	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19	-10 to -14	-5 to -9	0 to -4	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	-75 to -79	-70 to -74	-65 to -69	-60 to -64	-55 to -59	-50 to -54	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19	-10 to -14	-5 to -9	0 to -4	0 to 4	5 to 9	10 to 14	15 to 19
January						2	1	9	7	8	4	2																	3	6	11	6	2	2	1						
February						1	1	2	5	8	3	5	3	1	1														2	2	6	6	4	2	4	2					
March					2		2	4	4	10	7	3															1	1	2	3	6	5	11	2						
April				1		5	7	5	3	7	4															1		3	10	3	3	6	4						
May					3	5	12	3	5	2	1															1	1	10	5	8	2	4							
June			2	4	3	6	6	6	2			1														4	4	5	9	3	4		1						
July				5	4	9	4	3	4	2																2	5	11	6	2	5								
August				1	2	9	5	8	2	2	1																6	8	5	4	4	2	1						
September				1	2	9	6	7	4	1																2	3	7	8	4	4	2							
October				4	1	3	10	8	3	2															1	2	2	6	9	6	3	2							
November				1	2	4	4	9	6	3	1	1														1	1	3	4	9	6	3	2	1					
December						1	3	5	8	10	5	1																1	3	3	7	11	4	2						
Year			2	17	19	54	61	69	53	55	26	13	3	1	1										1	13	23	55	66	53	61	47	29	9	5	2				

Upper Air Frequency Table V for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :—

300 mb.

MONTH	-100 to -104	-95 to -99	-90 to -94	-85 to -89	-80 to -84	-75 to -79	-70 to -74	-65 to -69	-60 to -64	-55 to -59	-50 to -54	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19	-10 to -14	-5 to -9
January									2	5	8	7	7	1	1					
February										3	7	4	6	2	5					
March								1		5	7	7	8	3						
April								1	7	7	5	5	4							
May								1	12	9	4	5								
June								7	11	5	4	2	1							
July						1	1	10	8	6	5									
August						1	4	4	9	6	3	3								
September							4	4	7	11	3	1								
October						1	2	2	10	7	4	4	1							
November								1	3	7	9	6	1	2	1					
December									3	5	9	6	7	1						
Year						3	11	31	72	76	68	50	35	9	7					

200 mb.

MONTH	-110 to -114	-105 to -109	-100 to -104	-95 to -99	-90 to -94	-85 to -89	-80 to -84	-75 to -79	-70 to -74	-65 to -69	-60 to -64	-55 to -59	-50 to -54	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19
January								1	2	1	4	5	5	5	6	1				
February								1	3	5	3	6	3	3	3					
March									1	8	4	5	6	3	2	1				
April						1	2	2	2	6	4	4	4	3	1					
May						3	2	2	5	4	4	6	3	1						
June							3	4	9	2	4	5	3							
July						5	2	7	7	5	5									
August					3	2	5	3	4	2	8	2	1							
September					1	2	2	4	3	3	7	2	4	1	1					
October						2	2	5	6	4	4	3	4	1						
November								4	5	1	3	4	7	3	3					
December							1	3	6	5	3	6	6	1						
Year					4	15	19	36	53	46	53	48	46	21	16	2				

Upper Air Frequency Table VI for Stanley, Falkland Islands, 1953.

AIR TEMPERATURE AT STANDARD LEVELS: Number of observations, at 1100 Zone Time, in 5°F ranges :-

MONTH	150 mb.																				100 mb.																					
	-110 to -114	-105 to -109	-100 to -104	-95 to -99	-90 to -94	-85 to -89	-80 to -84	-75 to -79	-70 to -74	-65 to -69	-60 to -64	-55 to -59	-50 to -54	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19	-105 to -109	-100 to -104	-95 to -99	-90 to -94	-85 to -89	-80 to -84	-75 to -79	-70 to -74	-65 to -69	-60 to -64	-55 to -59	-50 to -54	-45 to -49	-40 to -44	-35 to -39	-30 to -34	-25 to -29	-20 to -24	-15 to -19	-10 to -14
January										1	1	4	8	9	5	1													1	1	1	13	4	5	1						
February									2	4	3	7	6	4	1												1	1	4	5	5	6	4								
March									1	1	8	7	8	3	2													1	2	9	10	4	2							
April								2	3	3	7	5	5	4													1	2	7	3	7	3	2								
May					1		1		5	6	5	6	4													1		4	10	7	2									
June							1	2	6	9	7	4	1														3	8	8	9	1									
July							2	5	8	7	6	1														3	6	7	9	2										
August						2	1	4	8	4	6	3	1												1	2	6	7	6	5	1									
September							4	2	5	1	3	8	4	2											1	2	3	1	4	5	4	4	2								
October						2	1	4	7	4	4	3	3	3											1	3	1	4	6	3	2	6									
November									1	3	6	6	5	8	1													1	2	8	4	6	6	1							
December							1		1	4	6	8	3	3	2													1	2	3	10	5	5	1							
Year					1	4	11	19	47	47	62	62	48	36	11	1									3	11	21	37	61	60	47	47	25	7	1						

Upper Air Frequency Table VII for Stanley, Falkland Islands, 1953.

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

MONTH	Surface											900 mb.										
	0 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	0 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
January					1	2	8	10	6	4						1	4	5	12	7	2	
February						3	5	9	6	5				1	1	4	4	8	1	6	3	
March						5	9	8	5	1	3				1	2	5	11	5	3	4	
April						3	7	5	7	4	4			1		1	3	9	8	8		
May								5	10	10	6				2	2	4	2	6	8	5	2
June							1	2	11	13	3			1			4	5	8	10	2	
July								2	10	17	2				3		8	1	5	5	8	1
August							1	5	8	11	5			1	2	3	3	5	5	5	5	1
September					1		2	8	5	8	6					4	5	3	4	7	6	1
October				1	1	2	9	11	1	4	2			1	1	6	4	7	4	7	1	
November					2	3	9	6	5	4	1					4	7	6	7	6		
December					2	4	6	10	5	4				1		4	6	12	4	3	1	
Year				1	7	22	57	81	79	85	32			6	10	31	57	74	69	75	37	5

MONTH	850 mb.											800 mb.										
	0 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	0 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
January					1	1	9	10	9	1						3	5	9	8	3	3	
February		1	1	2	1	6	3	8	3	3			2	3			3	9	6	3	2	
March		1		2	2	5	8	6	6	1		1		3	2	2	6	5	8	3	1	
April				2	2	4	6	13	3				1		4	4	4	5	6	6		
May			1	4	5		5	6	6	4			1	3	3	3	3	3	6	5	4	
June		1		1	3	3	6	7	8	1				2	2	2	5	6	7	6		
July		1	3		6	4	3	6	5	3			1	4	2	4	8	3	5	2	2	
August			2	5	3	2	5	4	5	3	1		2	4	3	4	2	3	3	5	4	
September		1		4	2	4	4	3	7	5			2	2	3	3	5	4	2	4	4	1
October				2	6	8	5	4	5	1				1	4	7	2	7	4	6		
November					5	5	5	11	4				1		5	4	6	2	9	3		
December			2	1	8	4	7	4	4	1			1	2	4		9	6	6	2	1	
Year		5	9	23	44	46	66	82	65	23	1	1	11	24	32	36	58	62	70	48	21	1

Upper Air Frequency Table VIII for Stanley, Falkland Islands, 1953.

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

700 mb.

MONTH	0 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
January		2	2	1	4	4	7	7	3	1	
February	1		1	7	4	5	4	2	3	1	
March		3	3	2	3	6	5	3	5	1	
April	1	1	4	3	3	3	7	4	3	1	
May	1	1	4	4	3	2	5	4	7		
June		1	2	2	4	7	4	6	4		
July		1	5	5	2	7	4	5	2		
August		4	3	6	1	4	5	2	3	2	
September	2		2	5	4	2	4	5	4	2	
October		2	3	4	2	4	8	6	2		
November		3	2	3	8	3	5	6			
December	1	3	1	3	2	6	5	6	3	1	
Year	6	21	32	45	40	53	63	56	39	9	

600 mb.

MONTH	0 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
January	1	1	5	1	4	6	3	5	5		
February	1	3	2	5	6	5	4	2			
March	1	1	5	4	6	7		3	4		
April	1	2	5	4	3	5	5	4	1		
May	1	1	7	4	3	6	2	5	1	1	
June		2	2	2	5	5	6	6	2		
July		3	8		4	5	8	1	2		
August		4	4	3	4	6	2	4	3		
September	2	4	1	2	3	3	7	2	6		
October	2	1	4	4	3	7	6	3	1		
November		6	2	5	6	1	8	2			
December	1	2	4	4	4	2	5	6	3		
Year	10	30	49	38	51	58	56	43	28	1	

500 mb.

MONTH	0 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
January	1	1	1	3	5	9	6	5			
February		2	5	6	8	4	1	1	1		
March	1	1	3	4	5	7	5	5			
April	1	1	7	2	4	3	10	2			
May		1	5	4	5	3	6	6	1		
June		2	4	4	4	4	6	6			
July		3	5	6	6	5	3	3			
August	1	3	3	4	7	4	2	5	1		
September	2	5	4	1	3	2	5	5	3		
October	2	1	3	4	5	5	8	2	1		
November	2	4	4	4	3	3	8	2			
December	4	2	3	5	3	3	8	3			
Year	14	26	47	47	58	52	68	45	7		

400 mb.

MONTH	0 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
January	1		2	4	5	10	7		1		
February		2	4	7	4	10		1			
March	1	1	1	5	5	6	8	2			
April		2	5	1	5	10	2	1			
May			4	4	3	6	2	3			
June		2	3	3	3	1	4	2			
July		1	2	2	4	5	1				
August	1	3	3	4	1		5	1			
September	3	3		5	2	2	6	1			
October	1		1	4	3	9	1	2			
November		6	5	3	5	6	2				
December	2	5		8	6	6	3	1			
Year	9	25	30	50	46	71	41	14	1		

Upper Air Frequency IX for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS AT STATION LEVEL : Number of observations at 1100 Zone Time of :—																							22 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	17.5	3	17	7	3	1									2		1	1			3	9	6	1	6	2	31
February	15.8	4	15	8										1	1		1				3	4	6	4	3	5	28
March	17.4	3	16	8	2									1	3	1	1				1	4	4	5	5	5	30
April	20.0	4	11	10	4	1									3	1					2	1	3	3	12	5	30
May	14.3	7	15	8	1										3	3	3		2	1		3	2	4	6	4	31
June	15.9	7	14	7	2										4			1			1	2	2	2	8	10	30
July	14.2	8	10	10	1									2	5		1		1		2	4	1	4	4	7	31
August	17.1	5	13	10	1	1									4	4	3				1	3	3	2	2	8	30
September	13.7	7	13	8										2	3	6		1		2	1	6	3			6	30
October	17.6	2	15	12	1										1			1		1	2	3	4	3	12	3	30
November	15.5	7	15	7	1										1					2	2	8	5	4	2	6	30
December	15.1	8	12	6	3									1	2	1	4	1			4	4	2	2	4	5	30
Year	16.2	65	166	101	19	3								7	32	16	14	5	3	6	22	51	41	34	64	66	361

Upper Air Frequency X for Stanley, Falkland Islands, 1953.

MONTH	MEAN WIND SPEED	WINDS at 900 mb. : Number of observations at 1100 Zone Time of :—																								
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											22 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		8	14	7	2									2			1			2	4	10	10	1	1	31
February	23.1	1	6	14	3	3								1						1		4	9	10	1	2	28
March	27.7	1	4	14	6	5									2							4	6	7	6	5	30
April	33.1		7	4	8	10	1														1	4	5	11	6	3	30
May	23.5	5	5	7	12	2									1	3		1			1	4	7	7	5	2	31
June	30.7	1	4	10	9	6										1					1	3	2	14	4	5	30
July	26.6		5	13	9	1	1							2		1		1			1	4	5	4	4	9	31
August	26.9	3	4	10	9	3	1								4	2	2		1	1		2	4	1	6	7	30
September	18.9	4	15	5	3	2								1	5	1	2			1	3	5	3		4	5	30
October	28.4	1	5	10	7	7										1				1	1	4	6	8	7	2	30
November	24.4	2	7	10	11										1						2	3	9	10	1	4	30
December	21.8	4	8	13	2	3									1		1			1	3	2	4	8	5	5	30
Year	25.8	22	78	124	86	44	3							4	16	9	5	3	1	5	15	43	70	90	50	50	361

Upper Air Frequency XI for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 850 mb. : Number of observations at 1100 Zone Time of :—																								22 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	27.0	1	8	11	7	4									2		1				1	5	9	11	1	1	31
February	26.5	1	4	13	7	3													1			7	9	8	3		28
March	30.2	1	6	9	8	6									2							3	6	6	10	3	30
April	34.3	1	5	5	9	9	1														1	3	6	13	5	2	30
May	23.9	4	6	9	8	4									1		1				1	5	4	8	6	5	31
June	31.2	1	3	11	9	6									1						1	3	2	11	9	3	30
July	27.1	2	3	12	10	2	1							1		1		1		1	1	5	3	4	8	6	31
August	26.4	3	8	7	8	3	1								1	3	2	1		1		2	3	4	5	8	30
September	18.0	2	17	6	2	2								1	4	1	2			1	3	5	3	3	4	3	30
October	30.0		5	12	7	6														1	1	4	5	10	6	3	30
November	26.6	2	4	11	12	1									1						1	4	9	8	4	3	30
December	24.2	1	11	10	5	3									1		1				3	4	5	7	4	5	30
Year	27.1	19	80	116	92	49	3							2	13	5	7	2	1	4	13	50	64	93	65	42	361

Upper Air Frequency XII for Stanley, Falkland Islands, 1953.

MONTH	MEAN WIND SPEED	WINDS at 800 mb. : Number of observations at 1100 Zone Time of :—																								22
		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	28.6	1	6	8	11	5									1	1						5	10	11		3	31
February	30.5	1	2	11	7	7																6	7	10	5		28
March	33.0		5	7	11	7									2							3	5	10	8	2	30
April	34.6	1	4	7	5	12	1														1	3	7	11	7	1	30
May	24.8	2	10	7	7	5									1		1				2	4	4	10	5	4	31
June	31.8	1	3	8	12	6															1	3	2	11	11	2	30
July	27.2	2	3	12	9	3	1							1			1	1		1	2	4	3	7	6	5	31
August	26.0	2	10	6	8	4									3		2			2		2	4	5	4	8	30
September	17.6	3	18	7	1	1									4	1	2				3	4	3	4	4	5	30
October	31.0		6	7	8	9															2	4	5	15	2	2	30
November	28.6		6	10	10	4									1						1	3	10	7	5	3	30
December	27.3		8	11	7	4															2	5	4	9	6	4	30
Year	28.4	13	81	101	96	67	2							1	12	2	6	1		3	14	46	64	110	63	39	361

Upper Air Frequency XIII for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 700 mb. : Number of observations at 1100 Zone Time of :—																								22 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	34.5		1	11	8	10	1								2						1	3	12	10	2	1	31
February	34.9		1	7	11	9																5	6	13	4		28
March	37.0		1	8	8	12	1								1							3	3	13	7	3	30
April	38.4	1	3	4	7	14	1														1	3	9	10	6	1	30
May	27.6	1	8	8	7	7									1	1					3	3	4	12	7		31
June	33.2	1	2	10	8	8	1														1	3	4	13	8	1	30
July	29.3	1	5	7	11	5	1							1		1		1		1	3	4	3	6	7	4	31
August	29.2	2	6	8	7	7									2	1	1		1	1		2	5	3	7	7	30
September	18.1	3	15	9	2	1									4	2	1				3	2	4	3	8	3	30
October	33.5		5	7	6	12															2	5	4	11	6	2	30
November	30.3		4	12	8	6									1						2	1	12	7	6	1	30
December	31.9		3	12	7	8									2						3	2	8	8	6	1	30
Year	31.5	9	54	103	90	99	5							1	13	5	2	1	1	2	19	36	74	109	74	24	361

Upper Air Frequency XIV for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 600 mb. : Number of observations at 1100 Zone Time of :—																								
		Speeds (knots)												Calms and Light Variable	Directions (degrees)											22 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	39.9			7	11	12	1														2	1	12	9	4	3	31
February	40.0		1	2	12	12	1														1	2	12	8	5		28
March	43.1			7	8	10	5								1							2	5	11	7	4	30
April	44.7		1	4	8	13	3	1														5	9	10	5	1	30
May	31.0		6	8	10	5	2								1	1				1	2	2	6	8	8	2	31
June	36.5		3	10	6	8	3													1		2	6	13	7	1	30
July	32.5	3	3	7	8	10														3	3	4	5	5	9	2	31
August	32.4	2	4	6	12	3	3									2		1	1	1		1	8	3	8	5	30
September	20.7	3	8	16	2	1									3	1	1				2	5	2	3	10	3	30
October	36.4		2	9	7	11	1														2	5	6	10	6	1	30
November	35.3		1	12	6	11														1		2	12	8	5	2	30
December	36.3		2	9	6	11	2														1	3	9	9	4	4	30
Year	35.7	8	31	97	96	107	21	1							5	4	1	1	1	7	13	34	92	97	78	28	361

Upper Air Frequency XV for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 500 mb. : Number of observations at 1100 Zone Time of :—																								22 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	47.1			4	6	12	9														1	3	13	8	3	3	31
February	46.6		1	2	6	15	2	2													1	2	12	7	6		28
March	51.9			5	5	9	7	4							2							2	5	11	8	2	30
April	52.9		1	4	4	13	5	1	1	1												4	11	10	3	2	30
May	39.5	1	1	6	6	13	2	1	1											2	1	3	3	8	8	6	31
June	41.3		2	8	8	5	5	2													2	3	3	13	8	1	30
July	35.3		4	7	6	10	3							1	1				2		3	5	5	5	8	1	31
August	38.8		6	3	9	8	2	2							1	1		1			1		4	3	12	7	30
September	24.0	3	8	10	5	4									4		1				1	4	4	10	4	2	30
October	40.6		1	4	9	14	2														4	3	6	12	3	2	30
November	41.1		4	4	9	9	3	1												1	2	2	10	8	5	2	30
December	43.1		4	3	5	12	6														2	4	7	9	4	4	30
Year	41.9	4	32	60	78	124	46	13	2	1				1	8	1	1	1	2	3	18	35	83	104	72	32	361

Upper Air Frequency XVI for Stanley, Falkland Islands, 1953.

MONTH	MEAN WIND SPEED	WINDS at 400 mb. : Number of observations at 1100 Zone Time of :—																							
		SPEEDS (knots)												CALMS AND LIGHT VARIABLE	DIRECTIONS (degrees)											22 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	55.3			2	5	12	7	5													1	4	12	7	5	2	31
February	52.0		2	1	4	12	6	3													1	4	11	5	5	2	28
March	58.8			3	5	8	9	4	1						1	1						2	7	11	6	2	30
April	60.0		2	2	4	7	8	4	1	2												5	10	8	7		30
May	47.0	1		4	5	14	3	2	2											2	1	2	6	6	9	5	31
June	49.8		1	6	8	6	4	3	2											1	1	3	4	12	8	1	30
July	39.8	2	2	6	6	10	3	2											2	1	2	6	4	9	5	2	31
August	44.5		2	6	6	9	1	4	1					1	1			1		1		1	6	3	11	5	30
September	31.1	2	5	11	5	5	1	1							4			2				4	3	9	4	4	30
October	46.3			3	9	12	6														5	2	6	11	5	1	30
November	52.1		1	5	4	10	6	2	2												3	4	8	10	4	1	30
December	48.9		3	5	1	11	7	3														6	8	10	3	3	30
Year	48.8	5	18	54	62	116	61	33	9	2				1	6	1		3	2	5	14	43	85	101	72	28	361

Upper Air Frequency XVII for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 300 mb. : Number of observations at 1100 Zone Time of :—																								22 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	65.8		1	1	2	10	8	4	4	1											1	4	9	11	4	2	31
February	61.2		1	2	1	9	8	5	2						2					1	1	5	7	6	6		28
March	71.3			1	4	7	8	4	5	1						1					1		10	8	8	2	30
April	66.8			3	2	8	5	5	3	3												5	11	7	6		29
May	57.6	1	2	1	4	6	10	4	2	1										2	1	1	8	7	12		31
June	60.8		2	1	5	10	4	2	6												2	3	2	10	12	1	30
July	46.5	1	4	3	4	10	6	2	1									1			2	8	5	6	4	5	31
August	53.0		2	4	5	8	5	3	3									1	1			1	6	4	11	6	30
September	37.7	1	5	4	8	6	3	1	1					1	3	1	1					3	3	8	7	3	30
October	57.7			1	6	7	12	3	1												4	6	2	11	6	1	30
November	63.5		1	3	2	10	8	1	4	1											1	5	12	6	4	2	30
December	62.7	1		5	2	6	6	7	3						1						2	3	10	6	5	3	30
Year	58.7	4	18	29	45	97	83	41	35	7				1	6	2	1	2	1	3	15	44	85	90	85	25	360

Upper Air Frequency XVIII for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 100 mb. : Number of observations at 1100 Zone Time of :—																							
		Speeds (knots)												Calms and Light Variable	Directions (degrees)											22 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	61.0			1	2	10	11	6													1	3	7	13	5	1	30
February	54.8			1	6	8	7	2													1	2	8	9	3	1	24
March	69.1			1	4	6	10	5	3		1												8	11	10	1	30
April	58.9	3	2	8	9	4		1														2	10	9	5	1	27
May	53.2		1	2	4	13	7	3		1											1	3	6	10	11		31
June	59.9				4	12	8	6														2	3	16	9		30
July	49.3			3	9	11	6	2													2	3	7	9	10		31
August	55.6			2	6	9	6	3	2													2	2	7	13	4	28
September	43.3			4	11	10	4	1														2	3	12	10	3	30
October	59.5				3	12	11	4													1	4	8	12	4	1	30
November	57.1			2	4	10	9	4	1													3	12	11	3	1	30
December	59.0			5	5	6	6	7	1												1	4	7	12	4	2	30
Year	56.7	3	3	29	67	111	85	44	7	1	1										7	30	81	131	87	15	351

Upper Air Frequency XIX for Stanley, Falkland Islands, 1953.

MONTH	Mean Wind Speed	WINDS at 150 mb. : Number of observations at 1100 Zone Time of :—																							22 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	46.6			1	7	14	5	1														2	10	10	5	1	28
February	48.1			3	5	10	6														1	2	9	8	4		24
March	54.0			1	2	17	7	2														1	3	16	8	1	29
April	52.7			2	4	13	6	2															13	7	7		27
May	46.9			2	7	11	8															4	6	8	10		28
June	55.7				2	17	7	3														1	4	18	6		29
July	51.7			1	4	16	8	1														4	5	14	7		30
August	58.7			1	2	8	15																3	10	13		26
September	48.1			1	8	16	3	1														2	1	12	11	3	29
October	61.3					15	10	5														3	11	11	5		30
November	49.0				6	15	7															1	12	11	3	1	28
December	42.5			8	3	10	3															4	6	10	3	1	24
Year	51.3			20	50	162	85	15													1	24	83	135	82	7	332

Upper Air Frequency XX for Stanley, Falkland Islands, 1953.

MONTH	MEAN WIND SPEED	WINDS at 100 mb. : Number of observations at 1100 Zone Time of :—																								22
		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	32.8			9	11	4																4	7	8	4	1	24
February	35.3			3	12	6																1	8	8	4		21
March	41.4			3	9	13																	5	12	8		25
April	42.6			3	4	11	1															1	3	9	5	1	19
May	44.3			2	6	13	3															2	6	13	3		24
June	56.5					18	6	3															6	17	4		27
July	56.4					19	9	1														2	7	16	4		29
August	67.1					4	15	3															2	11	9		22
September	56.3			1	3	10	7	3															4	11	9		24
October	59.8				2	10	9	1															9	10	3		22
November	41.0		1	4	5	11	2																13	8	2		23
December	28.3		6	6	7	4															1	3	8	7	2	2	23
Year	46.8		7	31	59	123	52	11													1	13	78	130	57	4	283

Upper Air Frequency XXI for Stanley, Falkland Islands, 1953.

21 HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 50ft. ranges :—

900 mb. Mean height 2,880 ft. I.C.A.N. height 3,240 ft.

MONTH	170 to 174	175 to 179	180 to 184	185 to 189	190 to 194	195 to 199	200 to 204	205 to 209	210 to 214	215 to 219	220 to 224	225 to 229	230 to 234	235 to 239	240 to 244	245 to 249	250 to 254	255 to 259	260 to 264	265 to 269	270 to 274	275 to 279	280 to 284	285 to 289	290 to 294	295 to 299	300 to 304	305 to 309	310 to 314	315 to 319	320 to 324	325 to 329	330 to 334	335 to 339	340 to 344	345 to 349	350 to 354	355 to 359	360 to 364	365 to 369	370 to 374	375 to 379	380 to 384	385 to 389	390 to 394
January												1				2	1	3		3	2	2	3	4	3	1	1	1	1	1	2														
February																	1			1	1	2		2	2	5	5	3	5	1														
March																1		2	2	2	3	2	2	6	1	3	3	2		2														
April														1		1	2	1	2	2	2	3		1	3	3			1	1		2	2	1	1	1							
May											1	1	3			1	1	3			1	1	1	2	3	3	2	2	2	1	1			1	2									
June														1		1	2	1		3	2	5	1	3	3		2	2			3		1											
July												1	1			2				3	1	2	2	2	2	1	2		3	1	1	1	3	1		1	1							
August			1												1	2		1	2	1	2	2	1	2	1	4	1	3		2			1	1	1	1								
September												1						1	5			2	1	3	1	4	2	1	2	2	3	2												
October												1	1			2	1	2	1		1	1	2		1	5	4		1	3	1	2				2								
November													1	1		1		2	2	2	2	1	2	3	1	3	1	3	2		1	1	1											
December																1	1			1	3	2	1	1	2	3	2	5	1	1	3		3	1										
Year			1								1	5	6	3	1	14	9	16	14	18	20	25	16	29	23	35	25	22	18	15	15	8	11	4	4	5	1							

Upper Air Frequency XXII for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 50ft. ranges :—

850 mb. Mean height 4,390 ft. I.C.A.N. height 4,780 ft.

MONTH	315 to 319	320 to 324	325 to 329	330 to 334	335 to 339	340 to 344	345 to 349	350 to 354	355 to 359	360 to 364	365 to 369	370 to 374	375 to 379	380 to 384	385 to 389	390 to 394	395 to 399	400 to 404	405 to 409	410 to 414	415 to 419	420 to 424	425 to 429	430 to 434	435 to 439	440 to 444	445 to 449	450 to 454	455 to 459	460 to 464	465 to 469	470 to 474	475 to 479	480 to 484	485 to 489	490 to 494	495 to 499	500 to 504	505 to 509	510 to 514	515 to 519	520 to 524	525 to 529	530 to 534	535 to 539
January													1				2		1	2	4	2	4		4	3	1	2	1	1	1	1	1												
February																		1				1	2	1	2	3	5	2	2	2	6	1												
March																		1		3	2	3	3		6	3	2	1	5	1	1												
April															1		1	3		3	2	3	1		1	1	4	1		1	1	1	1	1	2	2								
May													2	3			1	2	2				1	2	2	2	3	2	2	2	4				1								
June															1			3	1	2	1	3	3	1	6		3		2		1	2		1									
July												1	1				2				1	5		3	2	1	1	2	1	3		1	2	2	1		2							
August			1													1	2		1	2	2	3	1		1	3	3		2	3	1		1	1			2							
September													1						2	2			2		4	3	2	4		4	1	1	3			1							
October												1	1				3	1	1	2		1	1	1	1		7	2	1	1	3	1	1	1		1							
November													1		1		1		3	1	1	1	2	3	1	3	3	1	3	1	1	1	1	1									
December																		1			1	2	2	1	3		3	2	3	6		1	2	2	2								
Year			1									2	7	3	3	1	12	12	11	17	14	24	22	12	33	22	37	19	22	25	20	10	12	9	5	5	4							

Upper Air Frequency XXIII for Stanley, Falkland Islands. 1953.

21 HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 50ft. ranges :—

800 mb. Mean height 5,980 ft. I.C.A.N. height 6,390 ft.

MONTH	470 to 474	475 to 479	480 to 484	485 to 489	490 to 494	495 to 499	500 to 504	505 to 509	510 to 514	515 to 519	520 to 524	525 to 529	530 to 534	535 to 539	540 to 544	545 to 549	550 to 554	555 to 559	560 to 564	565 to 569	570 to 574	575 to 579	580 to 584	585 to 589	590 to 594	595 to 599	600 to 604	605 to 609	610 to 614	615 to 619	620 to 624	625 to 629	630 to 634	635 to 639	640 to 644	645 to 649	650 to 654	655 to 659	660 to 664	665 to 669	670 to 674	675 to 679	680 to 684	685 to 689	690 to 694
January															1		1	1		1	2	5	1	4	2	4		2	1	2	1	2		1											
February																		1					1	3	1	2	1	4	3	3	1		7	1										
March																			1		3	2	3	2	1	7	2	1	3	2	2	2												
April																1	1		3		3	5		2		2	1	1	1	1	2		1	1	3	1	1								
May													1	4			1	2	1	1				1	3	2	1	2	4	4	2			1		1								
June																1	1	1	2	3		2	2	2	5	1	3	2	1			2	1	1										
July												1		1				2				4	3	3		2		2	2	3		1		3	1	1	1	1						
August				1												2		1		1	3	2	2		1	4	1	1	1	3	2	1	2			2								
September													1							4	2		2		1	5	3	1	2	2	2	2	1	2										
October													1				2	2		2	1	1	1	1		2	3	3	2	1	1	4	1	2		1								
November													1	1			1		2	2		1		3	3	2	3	2	3	1	2	1		2										
December																1			1			1	4		2		1	3	3	2	5	1	1	1	3	2								
Year				1								1	4	6	1	5	7	10	10	14	14	23	19	21	19	33	19	24	26	24	20	16	14	15	7	5	5	1						

Upper Air Frequency XXIV for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

700 mb. Mean height 9,400 ft. I.C.A.N. height 9,880 ft.

MONTH	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
January																		2	1	2	7	3	6	3	3	2	1	1																			
February																				1	1	3	4	3	4	2	3	5	2																	
March																					5	6	8	2	3	6	1																			
April																		2	3	7	2	2	2	1	2	1	3	4	1																	
May																3	2	1	2	1		4	3	4	7	1	2		1																
June																	1	1	3	4	4	5	4	3	2	2	1																		
July														1		1		1	1	3	5	4	1	3	3	2	3	2	1																	
August												1						2	1	3	4	5	2	1	4	5		1	1																	
September																1				5	4	3	3	7	2	4	1																			
October															1	1		3	1	3	3	1	2	7	1	4	3	1																		
November																2		1	4		1	2	6	8		4	2																		
December																			1		2	4	1	4	6	5	3	4	1																
Year												1		1	1	8	3	13	17	20	38	42	42	46	37	38	23	18	7																

Upper Air Frequency XXV for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

600 mb. Mean height 13,260 ft. I.C.A.N. height 13,790 ft.

MONTH	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
January																				3	1	1	4	10	2	1	5		2	1	1															
February																						1	1	3	5	1	4	1	2	2	6		2														
March																						2	5	5	5	3	3	5	2	1																	
April																			3	1	8	2	1	3	1		2	2	4	1	1	1															
May																	4	2		3	1	2		1	3	7	4	1	1	1	1															
June																	1	1	1	4	3	2	4	4	3	2	3	1	1																	
July														1			1		1	3	3	4	3		3	2	3	1	4	1	1															
August													1						2	1	4	3	3	3	3	3	1	2	2	1	1															
September																	1				3	5	5	1	6	3	2	2	2																	
October																1	1	1	2	2	2	2	2	2	4	3	2	3	4																	
November																	2			3	2	1	2	1	9	3	3	2	2																	
December																				1		1	1	4	1	5	3	5	6	3	1															
Year													1	1		1	10	4	9	21	27	26	31	37	45	33	35	25	32	11	12	1	2													

Upper Air Frequency XXVI for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

500 mb. Mean height 17,690 ft. I.C.A.N. height 18,280 ft.

MONTH	*154*	*155*	*156*	*157*	*158*	*159*	*160*	*161*	*162*	*163*	*164*	*165*	*166*	*167*	*168*	*169*	*170*	*171*	*172*	*173*	*174*	*175*	*176*	*177*	*178*	*179*	*180*	*181*	*182*	*183*	*184*	*185*	*186*	*187*	*188*	*189*	*190*	*191*	*192*	*193*	*194*	*195*	*196*	*197*	*198*
January																		1	1	1	1	3	6	6	3		2	3	1	2	1															
February																					1	2		3	3	2	4		1	3	1	3	3	2													
March																				1	1	2	4	4	4	4	2	3	5		1																
April																	1	2	3	6	3	1		2	1		2	5	1		1	2														
May															3	1	2	2	2	2			3	3	3	5	2		1	1	1														
June														1		2	1	2	3	1	3	4	3	4	1	2	1	2																	
July											1				1		1	3	3	3	2	2	2	3	1	3		3	1	2																
August												1					4		1	5	2		2	6	2		2	1	3		1															
September															1		1		2	3	4	2	3	3	5	2	2	1	1																	
October														1	1	2		2	1	1	3	1	3	4	1	3	3	3	2																
November														1		1		2	3		2	1	1	5	4	3	3	4																
December																			1		1		3	3	3	4	1	4	5	4	2														
Year											1	1		3	6	6	10	14	20	23	23	18	30	46	31	28	24	29	21	12	8	5	3	2											

Upper Air Frequency XXVII for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

400 mb. Mean height 22,900 ft. I.C.A.N. height 23,560 ft.

MONTH	*207*	*208*	*209*	*210*	*211*	*212*	*213*	*214*	*215*	*216*	*217*	*218*	*219*	*220*	*221*	*222*	*223*	*224*	*225*	*226*	*227*	*228*	*229*	*230*	*231*	*232*	*233*	*234*	*235*	*236*	*237*	*238*	*239*	*240*	*241*	*242*	*243*	*244*	*245*	*246*	*247*	*248*	*249*	*250*	*251*
January																1		1	1		2	4	8	2	2	1	2	1	2	1	1	2																
February														1						2			1	5	1	1	4		1		2	1	2	3	2	2												
March																		2		1	1	1	3	3	4	4	2	1	5	3		1															
April															2	1	3	1	4	1	3		1	1	1	2	2	1	4		1	1	1													
May													3	2	1	2	3	2			2		4	2	3	1	2	1	1	2																
June											1	1	2	1	1	2	1		3	3	4	3	2	1	2		2		1																	
July									1				1	1	2	3	2	1	3	3	1	2	2	1	1	2	1	1	2	1																
August										1				1	3		1	5	2			4	2	4		1	2	1	1	1	1															
September												1					1	5	4	1	1	4	3	3	3	1	1	2																	
October										1		1	2	1		1		2	1	3	2	4	1	1	2	3	3	1	2																
November											1			1		2	1	2	1	2	1	1	3	3	2	2	5	3																	
December																	1		1				4	5	1	3		2	7	5	1	1												
Year									1	2	2	3	8	8	9	12	13	21	20	16	17	23	34	31	22	21	26	14	26	13	6	6	3	3	2	2											

Upper Air Frequency XXVIII for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

300 mb. Mean height 29,280 ft. I.C.A.N. height 30,050 ft.

MONTH	*272*	*273*	*274*	*275*	*276*	*277*	*278*	*279*	*280*	*281*	*282*	*283*	*284*	*285*	*286*	*287*	*288*	*289*	*290*	*291*	*292*	*293*	*294*	*295*	*296*	*297*	*298*	*299*	*300*	*301*	*302*	*303*	*304*	*305*	*306*	*307*	*308*	*309*	*310*	*311*	*312*	*313*	*314*	*315*	*316*
January												1			1			1		2	2	9	1	4		1	1	2	1	1	1	2		1													
February																		1	1			1	3	1		4	2	1		1	1	1	1		5		1	2	1							
March															1	1			2		2	1	4	3		2	1	3	3	4	2	1	1													
April													2	2	1	4	2	3				3		3	1	2	1		1	1		1	1	1												
May									1	2			4	2	2	1		1	1	1	3	3		3	1	1		2	1	2															
June								1		3	1	1	1	1	2	1	1	4	2	3	1	3	1	1		2																			
July						1				2	1	2		3	2	4		2	1	4		1	1	1	1	1	1	2	1															
August							1				3	1	1	1	2	3	1	1	1	2	3		1	2	2	1	1	1		1	1													
September							1							4	1	2	1	3	4	2	3	3	1	3			2																	
October						1		1		1	2		1		1		2	3	3	2	2	1	2	1	2	1	2	2		1														
November										1			1	1	4			1	3		2	4	1	2	2	2	1	3	2															
December																1	1				1	4	1	4	1		2	2	6	3	3	1	1											
Year						2	2	2	1	9	7	5	10	14	17	17	8	20	18	16	19	33	16	28	10	17	14	18	15	15	8	6	4	2	5		1	2	1							

Upper Air Frequency XXIX for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

200 mb. Mean height 37,820 ft. I.C.A.N. height 38,630 ft.

MONTH	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403
January																	1		1	1	3	5	5	1	3		2	2	2	1		1	1	1						2	2					
February																					2	3	1	1	1	3	1	3	1		1			2	1	2	1		2	2					
March															1		1		1	1			6		2	2	2	4	4	3		1	1	1											
April													1	2		6	4		1	2		2	4		2			1		3			1											
May								1		1	1	3	2	3		2	1	2	2	3	1		2	1	1	2	1	1																	
June							1	2	2	2		1		3	1	3	1	7	2		1	1	1	1					1																
July							2	1	2	1	3	3	2	1	4		2	1	2		1		2	1	2	1																			
August					2	1	1	1			1	2	1	2	3		2	1	3	1	1	2	2	1		1	1		1															
September							1			3	1	1	1		4	3	1		5	1	1	2	2	2	2																			
October					1	1			1	1		2		2	1	1	5	2	1	5		1	1	2	1	1	1	1																
November												1	1	1	3		2	1			3	4	4	5		4					1												
December																1			1		2	5	2	2	1	4		5	2		2	3						1					
Year					3	2	5	5	5	8	6	13	8	14	17	16	20	14	19	14	15	25	32	17	15	18	8	17	11	7	3	6	3	4	1	2	1		3	2					

Upper Air Frequency XXX for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

150 mb. Mean height 43,960 ft. I.C.A.N. height 44,610 ft.

MONTH	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464
January																				1		2	2	5	2	4	1	2	4	1	2	2	1														
February																							1	3		2	4	3	1	1	2		1		4	1										
March																	1	1				1	2	3		4	2	6	2	4	1	1	1	1				2	1		1				
April								1							3	2	2	5	2	1	2	1	4	1	1	1	1	1		1	1														
May						1		1	2	3	1	3	1	2	2	3	3	2	1	3	2		3	1																					
June				1		1	1	1	4		2	3	4	4	1	2	2		2	2		3				1																	
July			1	1	2	1				3					1	2	2		2	2		3	1																				
August							2	1	1	1	2	2			2	3	1	1	6	1	1		2				1																	
September																																													
October					1	1	1	1			1		2		2	2	4	3	3	2	2	2	2		1	1																		
November												1			1	3	1	1	1		2	4	2	2	7	2	1			1				1									
December																			1	1	2		2	3	4	4	1	5	1	4														
Year			1	2	3	4	4	5	7	7	7	8	6	8	15	22	19	17	20	15	14	15	22	20	17	20	11	17	8	12	6	3	3	2	4	1		2	1		1				

Upper Air Frequency XXXI for Stanley, Falkland Islands, 1953.

[21] HEIGHT AT STANDARD LEVELS : Number of observations at 1100 Zone Time in 100 ft. ranges :—

100 mb. Mean height 52,580 ft. I.C.A.N. height 53,040 ft.

MONTH	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546
January																												2		5	2	4	1	3	2	3	1	2	1						
February																													1	1	2	2	4	3	1	1	1	2	2	2	2		1		1
March																							2					1	2	3	2	4	5	4	3	1			1							
April												3	2	2	1	4	2	3	3	2	1																									
May												1				4		3		6	2	1	2	2	3																					
June								1				3	2	1			3	3	1	7			5	2			1																		
July					1		1		1	1	1	1	2	2	2	3		1	3	2		1	3	1		1																		
August	1			1	2	1					2			1			1	3	1	4	3	3	1	2	1			1																
September						1					3	1	1			1			1	3	2		3	2	1		1		3	2			1											
October				1				1										4	2	2	3	2	2	2	1	5			1															
November																		1		1		2	1	3		1	2	4	5	2	2		2	1						1			
December																									1	1	1		4	5	3	8	4										
Year	1			2	3	2	1	2	1	1	6	6	5	4	2	8	4	15	8	28	12	11	20	18	9	11	8	10	17	18	11	19	18	11	6	5	2	4	4	2	3		1		1

Means and Extremes Table 1 for Grytviken, South Georgia, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0100	0400	0700	1000	1300	1600	1900	2200		Max.	Min.	Max.	Date	Min.	Date
January	990.3	1006.9	12th	970.2	31st	37.0	36.7	37.8	40.9	42.6	42.2	39.5	37.7	39.3	46.3	33.8	64	17th	29	5th, 7th
February	990.3	1016.5	5th	965.0	25th	39.7	38.9	39.9	41.9	44.3	43.6	41.3	39.9	41.2	49.2	34.1	*70*	*17th*	28	28th
March	995.8	1011.5	30th	972.3	5th	37.7	37.0	37.8	39.7	41.5	42.1	40.2	38.9	39.4	46.6	33.3	60	26th, 27th	27	13th
April	983.5	1017.3	9th	965.0	2nd	35.7	35.6	35.4	35.9	37.7	36.9	35.3	35.7	36.0	42.0	30.3	60	28th	21	23rd
May	995.4	1014.1	31st	962.1	19th	29.7	28.9	28.7	29.5	31.3	31.2	31.0	30.4	30.1	36.5	25.4	54	16th	16	5th
June	1000.7	1023.2	13th	977.4	3rd	34.1	33.5	33.6	33.7	34.3	35.0	34.9	34.2	34.2	39.9	29.1	53	21st	17	13th, 14th
July	1001.0	1018.5	28th	969.7	18th	29.4	29.6	29.7	29.5	31.1	30.7	30.5	30.1	30.1	35.9	25.1	51	26th	*10*	*18th*
August	1003.2	1026.6	9th	963.9	24th	30.2	29.6	30.0	30.5	32.7	32.7	31.2	30.7	30.9	37.1	26.1	58	4th	19	18, 19, 31
September	1009.8	*1032.9*	*1st*	*962.0*	*15th*	30.1	29.8	30.0	31.4	32.8	33.0	30.9	30.7	31.1	36.1	26.8	46	27th	15	2nd
October	993.7	1014.3	17th	966.4	20th	35.0	34.8	35.4	38.0	39.9	39.0	36.8	35.8	36.8	43.3	31.3	53	11th	25	5th, 26th
November	993.0	1017.1	10th	969.3	1st	36.5	35.6	36.6	38.9	39.9	40.0	37.5	35.8	37.6	43.7	31.9	55	26th	25	7th
December	998.5	1023.4	26th	979.7	29th	38.2	37.2	39.5	42.0	44.1	44.5	42.2	39.4	40.9	48.5	35.1	57	24th, 27th	30	16th
Total	11955.2	12222.3	—	11623.0	—	413.3	407.2	414.4	431.9	452.2	450.9	431.3	419.3	427.6	505.1	362.3	681	—	262	—
Mean	996.3	1018.5	—	968.6	—	34.4	33.9	34.5	36.0	37.7	37.6	35.9	34.9	35.6	42.1	30.2	56.7	—	21.8	—

Means and Extremes Table II for Grytviken, South Georgia, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	Mean at [1]								[1-2] Daily Mean.	Mean at [1]								[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	81	78	78	67	64	64	73	78	73	5.9	6.4	6.5	6.3	6.2	6.4	6.5	6.3	6.3	5.7	5.8	16.5	98.5	22.5	30th
February	66	68	71	65	59	56	60	63	63	3.9	4.6	5.5	6.0	5.7	5.8	5.3	4.7	5.2	6.6	6.7	14.7	73.4	17.6	25th
March	77	77	77	74	69	67	73	76	74	4.7	4.6	6.0	5.9	5.5	6.0	6.2	5.1	5.5	4.1	4.5	12.5	87.7	20.5	19th
April	78	79	78	77	72	70	76	75	76	4.9	5.7	5.5	6.0	5.7	5.1	5.6	5.3	5.5	2.8	3.9	10.4	148.2	31.6	10th
May	77	78	79	79	75	75	77	75	77	4.3	5.2	5.7	6.5	5.8	5.9	5.5	4.4	5.4	1.0	2.6	8.5	148.2	39.0	23rd
June	68	70	71	71	73	70	70	72	71	4.9	5.2	5.8	6.2	6.2	6.1	5.3	5.4	5.6	0.0	2.4	7.4	140.3	36.7	25th
July	75	76	77	75	71	70	71	72	73	5.1	5.3	5.5	5.7	5.7	6.1	5.9	5.2	5.6	0.5	2.9	7.9	87.9	14.4	19th
August	77	77	76	73	70	71	75	76	74	4.5	5.1	5.5	5.6	5.7	5.4	4.5	4.0	5.0	1.9	3.4	9.5	127.6	43.1	20th
September	83	80	79	78	77	78	83	83	80	6.2	6.7	6.3	6.0	5.8	5.8	6.0	5.8	6.1	3.4	4.3	11.6	44.9	9.7	11th
October	75	75	74	68	63	66	69	75	71	4.0	4.1	5.4	5.6	5.5	5.7	5.1	4.6	5.0	6.1	6.8	13.8	68.7	11.5	17th
November	72	72	70	61	62	62	70	74	68	4.7	5.4	5.9	6.0	5.7	5.3	5.5	5.3	5.5	6.2	6.7	15.9	157.6	*85.0*	*11th*
December	80	84	77	71	66	64	69	78	74	5.4	6.1	6.3	6.5	6.3	5.9	5.5	5.5	5.9	5.9	6.4	17.1	74.6	28.8	27th
Total	909	914	907	859	821	813	866	897	874	58.5	64.4	69.9	72.3	69.8	69.5	66.9	61.6	66.6	44.2	56.4	145.8	1257.6	360.4	—
Mean	76	76	76	72	68	68	72	75	73	4.9	5.4	5.8	6.0	5.8	5.8	5.6	5.1	5.5	3.7	4.7	12.1	104.8	30.0	—

Frequency Table I for Grytviken, South Georgia, 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.0*	*1025.0 to 1029.9*	*1030.0 to 1034.0*	*1035.0 to 1039.9*
January								7	12	27	86	54	41	13	8						
February							5	15	14	56	33	21	33	22	13	9	3				
March								7	6	26	30	42	40	46	43	8					
April							9	9	17	24	39	39	18	32	27	18	8				
May						2	4	14	8	19	29	34	34	34	56	14					
June									3	17	26	34	30	45	30	31	15	9			
July							1	7	5	21	16	25	34	27	36	45	31				
August						1	2	2	9	11	15	19	28	53	23	32	35	10	8		
September						4	3	2	1	1	4	7	17	26	37	60	29	18	24	7	
October							2	9	21	34	24	26	54	44	21	13					
November							2	8	12	25	47	38	58	22	15	9	4				
December									3	24	43	48	34	19	29	24	12	12			
Year						7	28	80	111	285	392	387	421	383	338	263	137	49	32	7	

Frequency Table II for Grytviken, South Georgia, 1953.

TEMPERATURE: Number of observations at all hours, in 2° F ranges:—

MONTH	Negative Ranges														Positive Ranges																																				
	-27	-25	-23	-21	-19	-17	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
January																														6	10	34	46	65	35	19	14	4	3	2	6	2	2								
February																													2	7	28	32	17	25	23	22	20	13	7	8	7	2	1	2	2	2	1	2	1		
March																													5	7	16	31	51	49	32	19	9	7	5	3	9	1	2	2							
April																										8	5	16	17	17	22	29	34	26	17	21	15	10	1			1	1								
May																							2	13	6	18	26	27	32	33	34	25	9	2	8	1	3	1	6	1	1										
June																							4	5	5	12	6	15	17	24	26	21	18	34	16	13	12	9	2		1										
July																					2	1	2	6	15	26	28	16	35	20	24	22	6	18	14	8	5														
August																								1	12	26	32	36	32	25	17	16	16	3	1	7	5	2	4	8	1	2	2								
September																							2	3	7	7	19	21	36	49	37	14	13	16	11	5															
October																											2	7	9	23	36	43	27	34	23	15	14	9	6												
November																												8	16	18	33	28	24	26	25	27	16	5	5	4	5										
December																														3	7	29	48	34	36	17	24	21	15	8	3	3									
Year																					2	1	10	28	45	97	118	146	201	232	290	324	309	332	241	174	137	81	54	34	33	11	8	4	2	2	1	2	1		

DAILY EXTREMES.

	-27	-25	-23	-21	-19	-17	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73
Maximum																									1		2	9	9	14	27	21	21	41	37	28	32	26	20	33	16	10	5	5	4	1	1		1	1	
Minimum																				1		2	7	10	17	20	24	26	36	41	74	41	36	22	4		2		2												

Frequency Table III for Grytviken, South Georgia, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)														No Cloud	Traces Disregarded[6]
																	All Amounts									7-8 Oktas									
	< 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	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	0	0	0	1	4	6	38	40	91	68	8	54	63	60	63	0	0	0	2	14	32	(10) 134	(21) 49	9	8	0	0	0	7	18	(15) 40	(20) 9	5	4	0	9
February	0	0	0	0	4	8	35	28	67	82	16	58	66	46	38	0	0	1	3	8	(2) 7	(5) 121	(5) 63	12	7	0	0	0	7	(1) 5	(3) 47	(2) 4	1	1	2	5
March	0	1	2	2	6	4	48	38	50	97	36	62	35	46	66	3	6	5	7	(2) 5	(3) 25	(19) 88	(6) 73	20	8	3	0	2	(2) 2	(3) 16	(14) 44	(3) 10	1	2	11	3
April	0	0	0	2	16	7	47	45	42	81	35	47	50	49	57	2	3	2	5	11	19	(9) 131	(3) 29	21	9	3	1	3	8	11	(7) 62	(2) 2	4	2	10	5
May	0	2	0	6	11	11	48	34	36	100	51	46	37	36	71	7	12	0	4	17	(5) 46	(8) 86	(12) 26	18	16	7	0	3	9	(5) 33	(7) 24	(11) 8	3	3	23	6
June	0	2	3	7	9	5	28	32	44	110	33	70	36	45	53	3	4	0	8	(1) 14	9	(2) 140	(1) 15	25	19	4	0	7	(1) 12	6	(1) 47	(1) 5	4	4	6	17
July	0	0	0	4	11	9	28	37	33	126	53	49	44	41	58	3	4	0	1	10	(1) 33	(8) 117	(10) 16	28	31	3	0	1	10	(1) 24	(5) 32	(9) 2	3	9	8	14
August	0	4	2	4	15	9	39	15	25	135	37	85	32	27	65	2	6	0	5	4	(1) 33	(3) 113	(1) 18	15	31	3	0	4	3	(1) 30	(1) 36	(1) 3	5	9	23	32
September	0	0	4	2	12	2	32	30	30	128	27	60	31	30	86	6	8	1	0	(1) 15	(5) 60	(15) 80	(12) 25	19	20	6	0	0	(1) 9	(4) 42	(11) 34	(8) 0	1	11	12	24
October	0	0	1	2	6	3	23	26	47	140	36	90	46	32	40	4	4	0	3	(2) 8	(1) 26	(17) 119	(11) 29	19	22	4	0	0	(2) 4	(2) 6	(13) 22	(8) 2	7	5	18	23
November	0	0	0	1	5	2	30	25	34	143	25	58	54	50	48	5	5	0	4	10	(4) 25	(19) 107	(16) 55	18	11	5	0	1	2	(3) 13	(16) 30	(11) 6	5	3	5	9
December	0	1	1	3	2	2	27	39	51	122	14	63	66	42	59	4	5	0	16	(5) 22	(9) 35	(33) 102	(9) 45	13	9	4	0	1	(5) 10	(7) 11	(29) 19	(6) 2	2	2	1	9
Total	0	10	13	34	101	68	423	389	550	1332	371	742	560	504	704	39	57	9	58	(11) 138	(31) 350	(157) 1338	(107) 443	217	191	42	1	22	(11) 83	(27) 215	(122) 437	(82) 53	41	55	119	156
Mean	0	1	1	3	8	6	35	32	46	111	31	62	47	42	59	3	5	1	5	(1) 11	(3) 29	(13) 111	(9) 37	18	16	3	—	2	(1) 7	(2) 18	(10) 36	(7) 4	3	5	10	13

Frequency Table IV for Grytviken, South Georgia, 1953.

MONTH	WEATHER: No. of Days [1]																								
	TEMPERATURE [7]				PRECIPITATION [1]			8	8	9 & 17	9	9	9 & 17	9	10	10	11	12	13	9 & 14	9 & 17 FOG		9 & 16 HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.				WIND FORCE ≥ 6	WIND FORCE ≥ 8	RAIN	SNOW	SLEET	DRIZZLE	THUNDER	CLOUDY	CLEAR	SNOW LYING	GROUND FROST	DRIFT	SHOWERS	True	Pseudo	True	Small	Soft
	>41°F	<23°F	<14°F	>59°F	≥0.10 mm	≥1.0 mm	≥10.0 mm																		
January				1	16	12	4	3	1	15	17	7	11		15		1			18		1	1		
February	1			4	18	15	3	10		17	17	4	3		10	1	5		2	20			6		
March				2	19	15	3	5	2	15	13	1	5		12	2	6		1	16	5		5		
April				1	24	20	5	11	1	16	15	5	1		12	2	12		6	24	2		3		
May					23	16	3	8		6	23	3	3		11	2	25		5	16	2	3	2		1
June	1	1			21	10	5	12		17	18	8	(1) 5		12	1	17		2	19	4	2	4		1
July			1		19	13	4	6		6	22	3	(1) 3		14	1	23		12	16		2			2
August	2				17	13	3	9	1	5	17	4	(2) 7		9	2	23		9	11	2	5			1
September					14	7		4	1	4	14	3	(2) 6		17	3	26		3	5	2	1			5
October					19	13	2	8		19	14	9	4		12	2	7		2	11	2		3		
November					21	15	3	10	1	18	18	8	3		13	1	6		1	20	1	1	4		
December					15	11	1	6		19	7	1	10		15					11	3		1		
Total	4	1	1	8	226	160	36	92	7	157	195	56	(6) 61		152	17	151		43	187	23	15	29		10
Mean	—	—	—	—	19	13	3	8	1	13	16	5	(1) 5		13	1	13		4	16	2	1	2		1

Not recorded

Frequency Table V for Grytviken, South Georgia, 1953.

MONTH	2 MEAN WIND SPEED	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	7.5	1	3	71	108	65	20	3	9	34	10	4	1	3	2	10	45	42
February	11.9		17	110	69	28	5	7	5	14	3	4	2	1	17	23	67	48
March	7.9	2	5	85	76	80	9	1	2	15	7	2	4	5	10	37	40	36
April	10.0	1	16	101	49	73	15	1	2	4	3	2	2	1	4	35	47	51
May	6.3		15	49	63	121	23	1		7	5	7	3	1	4	20	29	27
June	11.2		31	101	46	62	24	2		2	8	5	5	1	2	14	33	82
July	9.0		10	108	52	78	31	1	1	13	9	1	1		5	26	35	47
August	8.9	1	34	60	46	107	22	1	1	5	7	7	1	1	4	26	26	40
September	6.1	1	8	55	68	108	22	6	6	11	21	3		2		8	13	40
October	9.6		17	96	70	65	39	6	3	11	6		1	1	1	15	33	67
November	10.2	1	12	101	84	42	26	4	5	16	15	1	2	1	3	21	47	57
December	7.7		8	75	94	71	39	8	10	25	13	1	5		4	9	13	50
Total	106.3	7	176	1012	825	900	275	41	44	157	107	37	27	17	56	244	428	587
Mean	8.9	1	15	84	69	75	23	3	4	13	9	3	2	1	5	20	36	49

Frequency Tables VI to IX for Grytviken, South Georgia, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VI — 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	7	2		1	1		1		3	18
2	7		4	8		3		1		1	4	3	31
3	9	1	3	15	3	1			1	1	10	15	59
4	1	2	1	4	3			1		4	24	18	58
5	1				2				1	2	4	3	13
6										1	2		3
7													
≥ 8											1		1
Totals	20	3	9	34	10	4	1	3	2	10	45	42	183

CALMS – 65

TABLE VII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				3			1	1	2				7
2	1	1	1	2	3	1	1		2	2	1	3	18
3	2	4	4	6		2			2	4	10	10	44
4		2		2		1			5	7	25	21	63
5	1								3	7	24	12	47
6	1			1					1	2	6	2	13
7									2	1	1		4
≥ 8													
Totals	5	7	5	14	3	4	2	1	17	23	67	48	196

CALMS – 28

TABLE VIII — 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	5	3	2	2		1			2	17
2	3			1	2					1	3	2	12
3	2	1	1	7	2		2	3	2	7	8	12	47
4	3			2				2	6	14	22	15	64
5									1	9	6	5	21
6										4	1		5
7													
≥ 8										2			2
Totals	9	1	2	15	7	2	4	5	10	37	40	36	168

CALMS – 80

TABLE IX — APRIL.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1		1	1		1	1			5
2		1	2	1	1			1	1	1	2	2	12
3	8			2	1	1	1			2	8	9	32
4	6				1				1	12	13	23	56
5	1									10	21	13	45
6									1	5	1	4	11
7										3	2		5
≥ 8										1			1
Totals	15	1	2	4	3	2	2	1	4	35	47	51	167

CALMS – 73

Frequency Tables X to XIII for Grytviken, South Georgia, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3			4	1	2	1		1	2	3	2	19
2	9			1	1	1			1	2	1	2	18
3	8	1		1	1	2				4	5	4	26
4	2			1	2	2	2	1	1	3	5	11	30
5	1								1	4	7	6	19
6										3	7	2	12
7										2	1		3
V 8													
Totals	23	1		7	5	7	3	1	4	20	29	27	127

CALMS – 121

TABLE XI — 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	1			1		1			3		2	12
2	1	1					1	1		1		1	6
3	7			1	3	4	3			2	3	5	28
4	8			1	4	1			1	3	8	28	54
5	4								1	5	13	24	47
6											7	21	28
7											2	1	3
V 8													
Totals	24	2		2	8	5	5	1	2	14	33	82	178

CALMS – 62

TABLE XII — 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				2	1				2	3		10
2	2		1	2						2		2	9
3	10	1		2	2		1		2	4	5	6	33
4	14			4	1				2	10	14	24	69
5	3			3	2				1	7	10	13	39
6				2	2					1	3	2	10
7													
V 8													
Totals	31	1	1	13	9	1	1		5	26	35	47	170

CALMS – 78

TABLE XIII — 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	5	1		10
2	6		1	1		2				4		3	17
3	5	1		1	2	2				3	1	4	19
4	5					1		1	2		6	13	28
5	3				2	1			1	5	5	15	32
6	3			1		1				5	7	3	20
7					3					3	6	2	14
V 8										1			1
Totals	22	1	1	5	7	7	1	1	4	26	26	40	141

CALMS – 107

Frequency Tables XIV to XVII for Grytviken, South Georgia, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	2	1		1	2			1		2	3	2	14
2	9	5	3	4	4			1		5		4	35
3	4		2	3	2	2					1	5	19
4	5		1	3	12					1	5	7	34
5	1				1	1					3	15	21
6	1										1	4	6
7												2	2
>= 8												1	1
Totals	22	6	6	11	21	3		2		8	13	40	132

CALMS – 108

TABLE XV — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	3		1	1					1	3	2	15
2	7	2	1	4	2					1	1	2	20
3	12	1	2	4	1				1	1	3	10	35
4	12			2	2			1		3	13	21	54
5	4						1			5	7	25	42
6										3	5	5	13
7										1	1	2	4
>= 8													
Totals	39	6	3	11	6		1	1	1	15	33	67	183

CALMS – 65

TABLE XVI — 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	5	1	1	5		1	2			3			18
2	7	1	1	5	1						2	6	23
3	8	2	2	5	6				1	2	5	12	43
4	4		1	1	4				1	10	19	17	57
5	1				2			1	1	5	16	18	44
6	1				2					1	3	4	11
7											1		1
>= 8											1		1
Totals	26	4	5	16	15	1	2	1	3	21	47	57	198

CALMS – 42

TABLE XVII — 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	7	1		2			1		1	16
2	9		4	4	2	1					2	2	24
3	15	4	3	10	8		2			1		11	54
4	11	3	2	4	2		1		1	1	4	21	50
5	1								1	5	5	13	25
6		1							1	1	2	2	7
7									1				1
>= 8													
Totals	39	8	10	25	13	1	5		4	9	13	50	177

CALMS – 71

Frequency Table XVIII for Grytviken, South Georgia, 1953.

Beaufort Force	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	All Directions
1	26	6	4	36	13	7	12	3	6	21	13	14	161
2	61	11	18	33	16	8	2	4	4	20	16	32	225
3	90	16	17	57	31	14	9	3	9	31	59	103	439
4	71	7	5	24	31	5	3	6	20	68	158	219	617
5	21			3	9	2	1	1	11	64	121	162	395
6	6	1		4	4	1			3	26	45	49	139
7					3				3	10	14	7	37
=> 8										4	2	1	7
Totals	275	41	44	157	107	37	27	17	56	244	428	587	2020

CALMS 900.

Means and Extremes Table I for Signy Island, South Orkneys, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)												
	1-2 Daily Mean	Extremes [3]				Mean at [1]								1-2 Daily Mean	Mean Daily [1]		Extremes			
		High	Date	Low	Date	0000	0300	0600	0900	1200	1500	1800	2100		Max.	Min.	Max.	Date	Min.	Date
January	988.2	1005.9	11th	972.1	29th	31.2	31.1	31.5	32.3	33.0	32.7	32.0	31.7	31.9	34.6	29.2	40	18th	25	24th
February	986.0	1003.4	4th	967.0	13th	30.3	30.2	30.1	30.5	31.1	31.2	30.9	30.6	30.6	34.4	27.3	47	5th	18	27th
March	988.1	1003.7	7th	962.3	31st	30.1	30.5	30.2	30.5	31.9	32.1	32.8	30.8	31.1	35.1	27.1	48	16th	18	29th, 30th
April	987.3	1014.5	21st	*949.0*	*1st*	24.2	23.9	24.0	23.9	24.2	24.1	24.1	23.8	24.0	29.1	19.6	46	10th	6	20th
May	996.9	1009.7	30th	968.8	31st	13.5	13.4	12.6	12.0	12.6	12.3	12.7	13.0	12.8	21.4	5.7	43	16th	−17	27th, 28th
June	986.7	1013.9	12th	950.0	21st	19.1	19.4	18.6	18.2	18.3	18.4	18.7	18.6	18.7	28.0	8.4	36	17th	−17	9th, 10th
July	993.7	1011.5	12th	968.1	15th	14.5	14.8	15.3	15.3	15.5	15.9	14.9	14.3	15.1	23.3	5.7	42	26th	*−29*	*17th*
August	997.7	*1023.7*	*31st*	964.4	21st	21.7	21.9	22.7	23.2	23.2	22.9	21.8	22.1	22.4	28.0	16.5	45	12th	−8	8th
September	1003.2	1023.3	1st	978.2	22nd	25.3	25.1	25.9	26.7	27.4	27.9	27.3	26.5	26.5	30.7	22.5	47	2nd	6	1st
October	985.9	1010.1	25th	961.9	20th	27.9	27.6	27.4	27.7	28.3	28.4	28.0	27.7	27.9	31.5	24.1	37	7th	11	7th
November	988.5	1006.7	6th	969.1	12th	27.6	27.2	28.2	28.9	29.4	29.2	29.0	28.5	28.5	32.6	25.1	49	10th	16	4th
December	994.7	1011.3	23rd	979.3	2nd	33.6	33.1	33.5	34.5	34.7	35.0	34.5	33.9	34.1	37.8	31.1	*57*	*27th*	26	16th, 17th
Total	11896.9	12137.7	—	11590.2	—	299.0	298.2	300.0	303.7	309.6	310.1	306.7	301.5	303.6	366.5	242.3	537	—	55	—
Mean	991.4	1011.5	—	965.9	—	24.9	24.9	25.0	25.3	25.8	25.8	25.6	25.1	25.3	30.5	20.2	44.7	—	4.6	—

Means and Extremes Table II for Signy Island, South Orkneys, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	MEAN AT [1]								12 DAILY MEAN.	MEAN AT [1]								12 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0000	0300	0600	0900	1200	1500	1800	2100		0000	0300	0600	0900	1200	1500	1800	2100		REC.	EST.				
January	88	88	86	85	84	85	87	86	86	7.4	7.1	7.0	7.2	7.0	6.9	6.8	6.8	7.0	2.1	2.2	18.1	Not recorded	Not recorded	Not recorded
February	81	82	82	82	80	83	83	82	82	6.6	7.1	7.4	7.3	7.1	7.3	7.4	7.0	7.1	1.3	1.4	15.5			
March	86	85	87	87	84	84	83	84	85	6.1	6.8	7.3	7.2	7.3	6.9	6.8	6.6	6.9	1.2	1.2	12.7			
April	84	85	85	82	82	81	83	82	83	7.1	7.5	7.3	7.1	6.9	6.7	6.5	6.5	6.9	0.9	0.9	9.9			
May	86	88	89	89	87	85	87	87	87	5.8	6.4	6.1	6.2	6.1	6.1	5.7	5.7	6.0	1.2	1.4	7.3			
June	86	86	87	85	85	85	84	85	85	5.3	5.3	5.4	6.1	5.5	5.6	5.3	5.3	5.5	0.9	1.1	5.7			
July	83	85	87	87	87	85	85	84	85	3.6	5.0	5.0	6.4	5.8	5.8	4.3	3.8	5.0	1.0	1.2	6.4			
August	87	85	84	83	87	86	89	89	86	5.7	5.9	6.0	7.1	7.0	7.0	6.6	6.0	6.4	1.0	1.1	8.8			
September	89	88	88	86	86	86	88	88	87	5.8	5.7	7.1	7.4	6.8	7.2	6.7	5.8	6.6	1.6	1.8	11.5			
October	92	91	92	91	91	89	91	90	91	7.3	7.6	7.8	7.8	7.6	7.6	7.8	7.4	7.6	0.9	1.0	14.4			
November	89	89	87	85	86	86	86	86	87	7.9	7.5	7.6	7.5	7.4	7.4	7.4	7.6	7.5	2.2	2.3	17.2			
December	92	93	93	91	90	89	90	90	91	7.5	7.7	7.6	7.4	7.2	7.2	7.5	7.6	7.5	2.4	2.4	19.0			
Total	1043	1045	1047	1033	1029	1024	1036	1033	1035	76.1	79.6	81.6	84.7	81.7	81.7	78.8	76.1	80.0	16.7	18.0	146.5			
Mean	87	87	87	86	86	85	86	86	86	6.3	6.6	6.8	7.1	6.8	6.8	6.6	6.3	6.7	1.4	1.5	12.2			

Frequency Table I for Signy Island, South Orkneys, 1953.

M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.

MONTH	935.0 to 939.9	940.0 to 944.9	945.0 to 949.9	950.0 to 954.9	955.0 to 959.9	960.0 to 964.9	965.0 to 969.9	970.0 to 974.9	975.0 to 979.9	980.0 to 984.9	985.0 to 989.9	990.0 to 994.9	995.0 to 999.9	1000.0 to 1004.9	1005.0 to 1009.9	1010.0 to 1014.9	1015.0 to 1019.9	1020.0 to 1024.9	1025.0 to 1029.9	1030.0 to 1034.9	1035.0 to 1039.9
January								14	38	26	54	70	30	11	5						
February							9	16	20	56	49	35	31	8							
March						1	1	16	44	30	39	40	52	25							
April			3	6	6	2	11	14	14	47	47	25	14	16	17	18					
May							1	4	9	23	20	35	43	54	57	2					
June				6	5	4	11	17	18	48	43	32	14	15	13	14					
July							2	5	17	23	44	37	51	32	27	10					
August						2	4	4	13	12	27	33	46	53	18	7	14	15			
September									1	10	11	11	38	65	61	23	15	5			
October						10	3	26	55	33	22	37	35	17	9	1					
November							2	12	31	59	41	22	41	22	10						
December									2	35	50	41	42	38	32	8					
Year			3	12	11	19	44	128	262	402	447	418	437	356	249	83	29	20			

Frequency Table II for Signy Island, South Orkneys, 1953.

TEMPERATURE: Number of observations at all hours, in 2° F ranges:—

MONTH	Negative Ranges																					Positive Ranges																													
	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
January																																			4	40	90	68	30	8	8										
February																															3	6	5	16	31	47	21	52	18	10	7	6		1	1						
March																															7	16	14	13	12	24	49	37	30	17	12	15	1		1						
April																										6	8	13	14	18	38	17	11	16	11	16	25	18	11	7	4	3	3	1							
May													3	3	3	1	3	6	16	16	6	7	6	7	9	10	15	16	15	15	14	6	8	15	13	5	10	6	9	3	1	1									
June													4	6	3	4	2	3	1	5	3	2	4	5		2	9	11	12	13	18	10	20	15	19	17	26	23	4												
July								2			3	3	7	4	4	2	3	3	4	5	5	6	7	11	12	12	7	8	8	11	8	7	7	14	14	18	12	21	10	7	2	1									
August																		1	3	6	3	1	9	8	11	2	6	6	5	7	11	16	25	8	27	23	21	19	13	9	3	4	2								
September																										1		7	4	4	6	23	21	52	38	19	18	16	14	11	3	3									
October																														1	2	13	34	25	32	44	62	27	8												
November																														7	10	21	21	23	19	29	45	25	11	16	7	3	3								
December																																			2	32	56	60	40	18	14	3	5	9	7		1	1			
Year								2			3	3	14	13	10	7	8	13	24	32	17	16	26	31	32	33	45	61	58	76	117	135	166	197	222	314	435	372	198	106	61	39	14	11	9		1	1			

DAILY EXTREMES.

MONTH	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
Maximum													1							3	1	1		3	2	4	3	2	4	8	6	8	14	18	19	35	38	50	56	24	24	11	12	7	6	3	1			1	
Minimum							1			2	2		6			1	4	3	7	7	2	3	5	5	7	7	15	6	11	15	18	18	24	32	40	53	38	25	3	3	2		1								

Frequency Table III for Signy Island, South Orkneys, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)														No Cloud	Traces Disregarded[6]
																	All Amounts									7-8 Oktas									
	< 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	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	0	0	0	1	6	5	19	23	86	108	1	21	21	77	124	4	4	2	(2) 6	(2) 29	(12) 109	(13) 92	(26) 5	1	0	4	0	(2) 4	(1) 17	(10) 66	(9) 58	(22) 0	0	0	0	0
February	0	0	0	1	11	3	26	37	55	91	10	8	20	64	116	6	6	0	10	(5) 30	(5) 72	(12) 83	(15) 10	8	5	6	0	8	(5) 21	(4) 55	(10) 56	(13) 5	5	1	0	3
March	0	0	1	5	13	6	23	45	78	77	6	28	28	56	109	21	21	1	8	(1) 38	(7) 73	(15) 80	(17) 17	7	1	21	0	5	(1) 28	(5) 54	(12) 27	(13) 8	3	1	2	4
April	0	0	0	5	16	8	35	59	57	60	5	16	34	64	93	28	29	1	6	(2) 42	(8) 89	(8) 61	(1) 5	3	3	28	0	6	(2) 33	(5) 60	(3) 29	(1) 0	0	0	1	2
May	0	0	1	5	29	4	37	59	47	66	52	19	20	32	108	17	17	0	14	(2) 71	(2) 71	(3) 9	(1) 13	11	13	17	0	11	(2) 49	(1) 53	(2) 9	(1) 6	1	1	29	1
June	0	0	1	18	17	6	28	77	56	37	46	31	22	39	73	29	29	1	4	25	(2) 80	36	(8) 18	6	2	29	0	1	16	(2) 54	17	(7) 5	0	0	39	1
July	0	0	2	4	16	2	44	69	37	74	69	27	28	39	70	15	15	0	3	44	85	(1) 26	(1) 5	13	8	15	0	3	24	48	(1) 17	7	2	1	49	1
August	0	0	0	3	10	3	48	90	42	52	26	24	29	53	100	16	16	0	2	57	(1) 121	(1) 22	(3) 1	5	9	16	0	2	47	(1) 76	11	(3) 0	2	4	15	3
September	0	0	0	6	2	2	22	73	64	71	23	31	29	44	106	7	7	2	13	35	(7) 106	(3) 44	(3) 6	14	5	7	2	12	26	(6) 57	(2) 23	(2) 2	8	0	8	4
October	0	1	0	2	14	3	57	79	60	32	2	5	11	52	168	10	10	2	9	(1) 73	(7) 115	(5) 29	(6) 6	3	0	10	1	9	(1) 57	(6) 89	(5) 26	(6) 4	3	0	1	2
November	0	0	0	3	5	2	31	55	64	80	7	8	22	38	162	3	3	1	10	42	(1) 86	(8) 83	(1) 7	6	2	3	1	10	36	73	(8) 56	2	3	1	0	1
December	0	0	0	7	6	3	20	66	77	69	7	12	20	36	159	14	14	0	8	(1) 66	(1) 77	(14) 69	(7) 7	5	2	14	0	6	(1) 49	(1) 53	(12) 51	(5) 4	0	1	0	0
Total	0	1	5	60	145	47	390	732	723	817	254	230	284	594	1388	170	171	10	(2) 93	(14) 552	(53) 1084	(83) 634	(89) 100	82	50	170	4	(2) 77	(13) 403	(41) 736	(64) 380	(73) 43	27	10	144	22
Mean	0	—	—	5	12	4	33	61	60	68	21	19	24	49	116	14	14	1	8	(1) 46	(4) 90	(7) 53	(7) 8	7	4	14	—	6	(1) 34	(3) 61	(5) 32	(6) 4	2	1	12	2

Frequency Table IV for Signy Island, South Orkneys, 1953.

MONTH	WEATHER: No. of Days [1]																										
	TEMPERATURE [7]				PRECIPITATION [1]			8 Wind Force ≥ 6	8 Wind Force ≥ 8	9 & 17 Rain	9 Snow	9 Sleet	9 & 17 Drizzle	9 Thunder	10 Cloudy	10 Clear	11 Snow Lying	12 Ground Frost	13 Drift	9 & 14 Showers	9 & 17 Fog		9 & 16 Hail		
	High Min.	Low Max.	Low Min.	High Max.	≥0.10 mm	≥1.0 mm	≥10.0 mm														True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F																							
January	2				27	6	4	11		3	24	6	(2) 6		26				2	11		1	2		
February	3			3	23	9	2	19	3	(1) 7	18	6	(1) 9		23				4	5		2			
March	2			5	27	9		19	2	(2) 12	19	1	(7) 9		22				7	5	2	3			
April	1			3	25	13	3	17	7	5	19	2	(4) 9		19				11	3	2	3			
May		4	10	1	20	8	1	15	4	2	18	1			17	1			13	1	2	2			
June		2	5		25	10	1	21	11	(1) 1	25		(2) 2		14	3			20	3	1	6			
July		2	9	1	22	10		19	12	(2) 7	18		(3) 3		13	5			14	2	2	4			
August	1		2	3	27	8		20	4	(2) 4	22		(7) 7		22				14	3		2			2
September	1			2	25	10	2	17	5	(2) 8	17	2	(6) 6		20				10	3	2	1			
October					29	2		20	9	(1) 6	26		(10) 10		29				14	3	2				
November	2			5	26	10		15		7	19	2	(3) 4		27				6	3	2	1			
December	7			7	20	8		18	4	11	16	1	10		25				1		4				1
Total	19	8	26	30	296	103	13	211	61	(11) 73	241	21	(45) 75		257	9			116	42	19	25	2		3
Mean	—	—	—	—	25	9	1	18	5	(1) 6	20	2	(4) 6		21	1			10	3	2	2	—		—

Frequency Table V for Signy Island, South Orkneys, 1953.

MONTH	2 Mean Wind Speed	WIND : Number of observations, at all hours, of :—															
		Forces (Beaufort)					Directions (degrees)										
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	12.2		32	111	84	21	7	8	1	19	51	2	4	10	36	53	31	5
February	16.0	4	57	103	47	13				6	32		10	23	33	46	51	10
March	13.4	2	53	98	54	41	6	9	1	5	6	6	10	11	36	56	55	6
April	15.2	19	49	76	79	17	6	6	6	17	30	4	9	17	22	46	50	10
May	10.9	10	30	62	80	66	1	4	9	7	33	41	8	8	9	13	41	8
June	16.2	20	69	62	57	32	11	2	2	1	5	14	8	4	5	15	95	46
July	16.5	25	60	78	34	51	6	1	1		2	3	5	2	8	12	115	42
August	16.3	9	78	81	48	32	17	10	2	1	29	16	6	3	15	16	70	31
September	13.7	15	42	64	70	49	16	1	2	6	10	13	7	5		8	62	61
October	15.6	30	48	68	49	53	6	2	1	6	19	6	3	5	32	25	79	11
November	14.4		39	125	64	12	5	2	4	2	43	5	3	8	27	39	85	5
December	15.5	6	53	115	55	19	3	3	2	1	33	5	4	4	22	57	91	4
Total	175.9	140	610	1043	721	406	84	48	31	71	293	115	77	100	245	386	825	239
Mean	14.7	12	51	87	60	34	7	4	3	6	24	10	6	8	20	32	69	20

Frequency Tables VI to IX for Signy Island, South Orkneys, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VI — 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	6	5			1	1	2	1	1	20
2	2	2		3	7	2	1	1	3			1	22
3				3	12		2	6	7	8	4		42
4		1		6	11		1	2	15	24	9	2	71
5	1	1		1	7				9	11	10		40
6	1	4			5				1	6	3	1	21
7	1				4					2	4		11
≥ 8													
Totals	7	8	1	19	51	2	4	10	36	53	31	5	227

CALMS – 21

TABLE VII — FEBRUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				3	1		1	1		2	3	1	12
2					1			2		2	4	1	10
3				1	5		4	5	5	3	1	1	25
4				1	11		4	9	9	14	10	2	60
5				1	7		1	5	8	9	10	2	43
6					6			1	6	12	11	1	37
7					1				4	4	10	1	20
≥ 8									1		2	1	4
Totals				6	32		10	23	33	46	51	10	211

CALMS – 13

TABLE VIII — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1		1	1	1			1	1			6
2	1	1				2	4	2	1	7	4		22
3		1			1	3	2	3	6	7	3		26
4	1	4		1			4	2	15	17	17	1	62
5	2		1	2				2	5	9	11	4	36
6	2	2		1	4			1	6	11	14		41
7								1	2	4	5		12
≥ 8											1	1	2
Totals	6	9	1	5	6	6	10	11	36	56	55	6	207

CALMS – 41

TABLE IX — 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			2	2	1	1		1	2		1	12
2	2	2		3	3	2		2	5	9	9	1	38
3	1	1	1	6	4	1	3	3	2	2	5		29
4		1	4	3	8		2	6	9	11	8		52
5			1	1	4		1	4	3	4	6		24
6		1		2	4		2	2	1	8	12	1	33
7		1			2				1	5	4	3	16
≥ 8	1				3					5	6	4	19
Totals	6	6	6	17	30	4	9	17	22	46	50	10	223

CALMS – 17

Frequency Tables X to XIII for Signy Island, South Orkneys, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — 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			1			6
2				2	4	5	2	4	6	2	5	2	32
3		1		3	11	7	2	3	3	4	8		42
4		2	5	1	6	9	3	1		3	6	1	37
5	1		1		4	3				2	12	2	25
6		1	1	1	4	5					4	1	17
7			1		2	6				1	2	1	13
≥ 8						5					4	1	10
Totals	1	4	9	7	33	41	8	8	9	13	41	8	182

CALMS – 66

TABLE XI — 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		1		1			5
2	1		1	1	3	1	2	1		3	3	1	17
3	2	1				8	5	1	4	3	9	2	35
4	1		1		1	3	1	1		4	21	4	37
5	2								1	2	15	5	25
6										2	19	12	33
7	2										21	13	36
≥ 8	3	1									7	9	20
Totals	11	2	2	1	5	14	8	4	5	15	95	46	208

CALMS – 32

TABLE XII — 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			1			1	1	6
2		1	1			1	1		1		6	2	13
3						1			2	1	7	4	15
4	2					1	4	1		3	16	6	33
5									5	4	30	6	45
6	1									2	23	6	32
7	2									2	16	8	28
≥ 8											16	9	25
Totals	6	1	1		2	3	5	2	8	12	115	42	197

CALMS – 51

TABLE XIII — 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					3		5
2	1				3	3	2		1	2	2	1	15
3		1			10	1	4	2	5	4		1	28
4	1			1	10	7		1	7	5	9	5	46
5	3	2			3	1			2	5	15	4	35
6	8	4	1		1	2					24	8	48
7	3	3	1		1	1					14	7	30
≥ 8	1										3	5	9
Totals	17	10	2	1	29	16	6	3	15	16	70	31	216

CALMS – 32

Frequency Tables XIV to XVII for Signy Island, South Orkneys, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — SEPTEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1													
2			1	3	4	8	1	4			4	5	30
3	2	1		2	5	4	5			5	9	7	40
4	3		1	1	1	1	1			1	12	11	32
5	5									2	12	13	32
6	4										11	8	23
7	1							1			9	8	19
≥ 8	1										5	9	15
Totals	16	1	2	6	10	13	7	5		8	62	61	191

CALMS – 49

TABLE XV — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1				1		1	1			1			4
2				3	6	2	1	1	2	4	1	1	21
3	1			2	4	2		3	5	4	3		24
4	1	1	1		4	1	1		3	8	9	1	30
5	1	1			4				11	6	14	1	38
6	1				1				7	2	14	1	26
7	1							1	2		13	5	22
≥ 8	1								2		25	2	30
Totals	6	2	1	6	19	6	3	5	32	25	79	11	195

CALMS – 53

TABLE XVI — 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		1		6			2	7	5	5	1	28
3	2		1	1	7	2	1	1	1	2	15	1	34
4	1	1	1	1	10	3	1	5	12	13	21	2	71
5	1	1			13				5	12	22		54
6					6				2	7	10	1	26
7			1								12		13
≥ 8													
Totals	5	2	4	2	43	5	3	8	27	39	85	5	228

CALMS – 12

TABLE XVII — 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		1	5
2	2			1	2	1	3		3	4	4		20
3					5	2	1	2	3	5	12		30
4		1	1		12	1			4	17	20	1	57
5	1		1		6	1		1	6	16	25	1	58
6					1				5	10	18		34
7		1			4					4	9	1	19
≥ 8					3						3		6
Totals	3	3	2	1	33	5	4	4	22	57	91	4	229

CALMS – 19

Frequency Table XVIII for Signy Island, South Orkneys, 1953.

Beaufort Force	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	All Directions
1	5	2	2	13	16	7	5	5	4	11	8	5	83
2	10	6	4	16	39	27	17	19	29	38	47	16	268
3	8	6	2	18	64	31	29	29	43	48	76	16	370
4	10	11	14	15	74	26	22	28	74	120	158	36	588
5	17	5	4	5	48	5	2	12	55	82	182	38	455
6	17	12	2	4	32	7	2	4	28	60	163	40	371
7	10	5	3		14	7		3	9	22	119	47	239
=> 8	7	1			6	5			3	5	72	41	140
Totals	84	48	31	71	293	115	77	100	245	386	825	239	2514

CALMS 406.

Means and Extremes Table I for Hope Bay, Grahamland, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	989.9	1004.8	31st	968.9	26th	28.6	28.6	29.8	31.4	31.7	31.7	30.2	29.2	30.1	33.3	26.7	46	23rd	21	1st
February	985.7	1001.2	26th	957.2	12th	26.6	27.6	29.1	30.9	31.1	30.7	27.7	26.7	28.8	35.6	22.3	47	20th	11	25th
March	987.8	1009.4	12th	963.7	23rd	20.4	19.3	19.5	20.8	21.5	21.6	20.5	20.0	20.5	27.0	14.6	41	1st	1	31st
April	990.1	1019.3	20th	961.9	1st	14.7	14.1	14.8	15.6	15.7	15.0	14.3	14.6	14.9	22.5	7.9	47	25, 26, 27	−10	29th, 30th
May	999.9	1017.1	3rd	965.8	16th	8.4	9.1	10.0	11.4	11.9	10.4	9.8	9.5	10.1	17.8	2.8	45	15th	−8	27th
June	981.5	1007.4	9th	*942.9*	*21st*	10.3	10.8	10.7	10.2	10.1	10.5	10.2	8.5	10.2	19.9	0.3	35	13th, 14th	*−14*	*9th*
July	990.2	1009.0	2nd	962.1	30th	18.4	17.4	17.5	19.0	18.0	19.6	20.9	20.5	18.9	29.0	11.6	50	22nd	*−14*	*16th, 17th*
August	993.6	*1023.1*	*30th*	972.8	26th	19.8	18.6	18.5	19.9	20.5	20.6	21.1	19.2	19.8	27.9	12.6	41	2nd	−5	30th
September	1000.4	1013.0	5th	984.1	29th	18.4	17.6	18.3	22.3	23.0	20.7	19.1	18.6	19.7	28.6	11.9	43	19th, 20th	−3	4th
October	985.0	1008.6	24th	958.7	8th	16.3	16.7	18.8	21.0	20.6	19.0	18.0	16.7	18.4	25.5	11.1	45	25th	−3	2nd
November	986.7	1008.4	5th	972.1	17th	25.1	25.8	27.3	29.0	29.8	29.7	28.1	27.0	27.7	33.5	21.7	49	24th	6	6th
December	993.4	1017.0	15th	976.3	1st	29.8	30.6	33.0	34.5	35.8	35.0	32.5	30.2	32.7	39.5	27.0	*56*	*23rd*	18	3rd
Total	11884.2	12138.3	—	11586.5	—	236.8	236.2	247.3	266.0	269.7	264.5	252.4	240.7	251.8	340.1	170.5	545	—	000	—
Mean	990.3	1011.5	—	965.5	—	19.7	19.7	20.6	22.2	22.5	22.0	21.0	20.1	21.0	28.3	14.2	45.4	—	0.0	—

Means and Extremes Table II for Hope Bay, Grahamland, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	MEAN AT [1]								1-2 DAILY MEAN.	MEAN AT [1]								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		REC.	EST.				
January	84	84	83	80	81	80	82	85	82	6.8	7.1	7.4	7.3	6.7	6.7	7.0	6.8	7.0	3.7	4.1	19.1	Not recorded	Not recorded	Not recorded
February	77	75	72	70	68	72	78	80	74	5.6	5.7	5.8	6.0	5.6	5.6	5.9	5.1	5.7	6.7	7.1	15.9			
March	80	80	83	81	81	81	82	83	81	6.5	6.6	6.6	6.6	6.8	6.8	6.5	6.3	6.6	3.0	3.2	12.7			
April	*75	*76	*72	*75	*75	*73	†76	†76	75	5.8	5.7	6.4	6.2	5.6	5.6	4.9	5.2	5.7	2.5	2.7	9.6			
May	§80	§77	78	77	75	77	78	77	77	4.5	4.6	6.1	6.2	6.0	4.9	4.3	4.5	5.1	1.2	1.3	6.6			
June	71	77	76	78	81	77	78	74	77	4.1	4.5	5.3	5.6	5.5	4.4	4.3	4.1	4.7	0.4	0.6	4.7			
July	§72	§75	§75	§74	§76	§74	§69	§66	73	3.7	3.5	4.8	5.1	5.0	4.0	3.8	4.5	4.3	1.1	1.2	5.6			
August	79	80	81	81	78	82	79	83	80	5.8	5.5	5.7	6.2	6.4	6.0	5.7	5.9	5.9	1.6	1.7	8.4			
September	79	82	81	76	77	81	80	78	79	4.3	4.5	4.3	4.5	4.8	5.0	4.5	4.1	4.5	5.0	5.4	11.5			
October	§76	74	71	71	72	77	75	§77	74	5.5	6.6	6.0	6.3	6.6	6.5	6.1	5.6	6.1	3.1	3.4	14.7			
November	76	76	76	75	74	73	73	75	75	5.7	5.8	6.3	6.6	6.3	6.0	5.7	5.5	6.0	4.4	5.0	18.0			
December	81	81	79	74	71	74	81	85	78	6.0	5.8	5.9	6.2	5.9	6.0	6.1	5.5	5.9	6.4	7.5	20.4			
Total	930	937	927	912	909	921	931	939	925	64.3	65.9	70.6	72.8	71.2	67.5	64.8	63.1	67.5	39.1	43.2	147.2			
Mean	77	78	77	76	76	77	78	78	77	5.4	5.5	5.9	6.0	5.9	5.6	5.4	5.3	5.6	3.3	3.6	12.3			

* 28 observations † 29 observations § 30 observations.

Frequency Table I for Hope Bay, Grahamland, 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.9*	*1025.0 to 1029.9*	*1030.0 to 1034.9*	*1035.0 to 1039.9*
January							3	11	18	37	30	83	46	19							
February					1	8	5	6	25	41	66	53	11	7							
March						2	26	8	21	27	41	73	27	14	9						
April						2	15	8	25	42	46	38	9	8	13	22	11				
May							3	3	1	3	26	33	36	61	66	12	4				
June		2	2	2	9	16	7	38	39	28	31	30	11	20	7						
July						2	7	21	26	27	21	40	50	37	17						
August								12	21	44	34	28	32	29	16	20	6	7			
September										4	21	17	48	92	46	12					
October					1	3	8	30	46	40	40	30	28	16	6						
November								25	49	43	40	27	34	6	16						
December									11	61	33	30	48	36	12	9	8				
Year		2	2	2	11	33	74	162	282	397	429	482	380	345	208	75	29	7			

Frequency Table II for Hope Bay, Grahamland, 1953.

TEMPERATURE: Number of observations at all hours, in 2° F ranges:—

Negative Ranges

MONTH	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
January																					
February																					
March																					
April																	5	7	1	7	13
May																		1	8	13	24
June															1	2	2	10	8	23	22
July															4	4	1	5	3	5	6
August																				3	6
September																					1
October																					
November																					
December																					
Year															5	6	8	23	20	51	72

Positive Ranges

MONTH	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
January											2	6	20	23	71	65	33	13	5	3	3	2	2							
February								7	13	15	17	9	13	21	26	21	17	17	25	17	5	1								
March	1	11	3	1	3	10	8	25	29	29	32	17	20	15	14	9	12	2	6		1									
April	10	13	17	12	14	12	10	11	20	13	13	11	5	4		9	10	9	2	1	6	4	2	1						
May	35	26	21	12	10	9	11	11	15	9	14	6	7	1	8	2	3		1	7		1								
June	21	12	11	6	10	11	11	14	12	13	11	12	12	5	10	7	1	2												
July	3	6	9	8	8	4	4	20	22	12	10	10	16	16	20	23	7	6	5	2	5	3	2							
August	6	14	5	7	8	12	16	12	14	10	16	12	18	13	22	34	11	5	3	1										
September	1	3	4	9	11	24	16	26	19	17	16	9	15	10	13	27	12	4	2	2										
October	3	2	4	12	21	13	28	31	24	20	14	10	10	5	11	16	15	4	4		1									
November					1		5	6	13	17	11	19	20	12	29	40	30	13	8	8	4	2		2						
December											2	4	13	23	45	30	48	24	20	14	11	2	4	1	1	5	1			
Year	80	87	74	67	86	95	109	163	181	155	158	125	169	148	269	283	199	99	81	55	36	15	10	4	1	5	1			

DAILY EXTREMES.

Negative Ranges

	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
Maximum																			1	2	3
Minimum														3	3	4	5	4	12	10	14

Positive Ranges

	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
Maximum	4	8	3	9	5	6	12	4	7	11	18	15	21	18	21	33	31	43	23	16	16	15	8	7	3	2	1	1	1	
Minimum	13	13	10	17	23	16	26	29	16	17	13	17	21	31	29	14	5	5												

Frequency Table III for Hope Bay, Grahamland, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)														No Cloud	Traces Disregarded[6]
																	All Amounts								7–8 Oktas									
	< 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	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	0	3	1	4	17	22	20	27	122	32	20	44	33	33	109	9	16	2	5	39	(2) 75	(5) 85	(1) 6	19	1	11	2	4	31	(2) 46	(3) 37	(1) 5	6	0	0	0
February	0	3	1	0	14	8	18	31	116	33	27	78	37	28	42	12	17	0	2	26	(5) 82	(3) 62	(1) 8	22	4	12	0	2	17	(2) 30	5	(1) 0	6	0	1	0
March	5	10	5	16	15	22	45	32	60	38	35	43	18	20	100	32	33	2	(1) 19	(1) 61	(3) 52	(7) 42	(6) 4	16	11	32	2	16	(1) 42	(2) 26	(6) 20	(4) 1	5	2	8	0
April	1	22	9	15	25	21	36	20	69	22	30	56	26	13	70	45	47	0	18	37	(5) 50	52	(2) 6	11	4	46	0	11	28	(2) 16	13	(2) 4	2	0	15	0
May	0	14	2	18	38	31	35	30	69	11	64	55	11	21	66	31	(1) 40	0	(2) 19	(2) 63	36	(3) 23	(1) 3	24	8	(1) 32	0	(1) 10	(2) 37	16	(3) 5	2	1	1	32	0
June	1	15	1	22	23	16	38	51	66	7	81	49	27	11	37	35	36	2	5	(1) 37	(3) 30	(1) 45	(2) 4	29	3	35	0	2	(1) 16	(2) 9	(1) 13	1	11	0	49	0
July	0	7	0	7	9	24	15	49	111	26	94	70	26	15	29	14	16	0	1	(1) 32	40	(1) 59	6	32	16	14	0	0	(1) 14	8	16	3	6	3	46	0
August	6	4	5	23	30	23	47	37	56	17	43	39	26	30	78	32	41	2	8	(3) 42	(3) 67	(7) 40	5	18	4	32	2	6	(1) 27	(1) 37	(5) 16	1	2	0	21	0
September	0	3	4	13	12	30	24	42	75	37	57	81	20	12	60	10	29	2	9	(2) 54	62	24	3	12	7	12	1	8	37	8	9	2	4	1	38	0
October	1	7	1	7	23	25	26	55	82	21	35	47	17	29	101	19	19	0	0	37	(1) 100	(1) 47	9	18	5	19	0	0	28	(1) 60	(1) 24	6	3	0	12	0
November	0	1	1	5	12	8	20	28	113	52	29	74	29	21	81	6	9	1	10	33	(2) 62	(2) 84	12	17	2	6	1	9	27	(2) 24	(2) 29	4	4	0	10	0
December	0	23	2	2	11	7	19	27	77	80	44	69	29	26	55	25	28	7	7	27	(2) 53	(6) 77	(7) 5	18	17	25	2	6	18	(1) 23	(5) 16	(4) 0	8	0	9	0
Total	14	112	32	132	229	237	343	429	1016	376	559	705	299	259	828	270	(1) 331	18	(3) 103	(10) 488	(26) 710	(36) 640	(20) 71	236	82	(1) 276	10	(1) 74	(6) 322	(15) 303	(26) 203	(12) 29	58	7	241	0
Mean	1	9	3	11	19	20	29	36	85	31	47	59	25	22	69	23	28	1	9	(1) 41	(2) 59	(3) 53	(2) 6	20	7	23	1	6	(1) 27	(1) 25	(2) 17	(1) 2	5	1	20	0

Frequency Table IV for Hope Bay, Grahamland, 1953.

MONTH	WEATHER: No. of Days [1]																										
	TEMPERATURE [7]				PRECIPITATION [1]			[8] Wind ≥ 6 Force	[8] Wind ≥ 8 Force	[9 & 17] Rain	[9] Snow	[9] Sleet	[9 & 17] Drizzle	[9] Thunder	[10] Cloudy	[10] Clear	[11] Snow Lying	[12] Ground Frost	[13] Drift	[9 & 14] Showers	[9 & 17] Fog		[9 & 16] Hail		
	High Min. >32°F	Low Max. <5°F	Low Min. <−1°F	High Max. >41°F	≥0.10 mm	≥1.0 mm	≥10.0 mm														True	Pseudo	True	Small	Soft
January				2				14	8	(1) 1	19	1			23				11	1	4	2			
February	3			5				15	9	3	15	4	3		10				8	1	1	2	1		1
March		1						18	5	3	21	2	(3) 6		21	1			17		6	9		1	2
April		2	2	4				23	13	1	14	2			14	3			17		2	10			1
May		7	6	2				18	7		17				14	2			18		3	9			
June		6	12					23	13		21	1			9	2			21	2	4	10			3
July		1	4	5				22	10		7	2	(1) 1		8	5			13	1		4			1
August		1	1					16	5	(1) 2	22	7	(3) 3		16	2			23		2	13			
September				2				13	4		13	2	1		10	8			16	1	6	6			2
October				2				22	9		26	1			20	1			26			8			
November				6				10	2	1	19	2	(2) 4		19	1			8	1	5	3			2
December	3			11				9	2	4	10	2	7		16	2			5	5	7				3
Total	6	18	25	39				203	87	(2) 15	204	26	(9) 25		180	27			183	12	40	76	1	1	15
Mean	—	—	—	—				17	7	1	17	2	(1) 2		15	2			15	1	3	6	—	—	1

Frequency Table III for Hope Bay, Grahamland, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[6]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)																No Cloud	Traces Disregarded[6]
																	All Amounts								7-8 Oktas									
	< 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	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	0	3	1	4	17	22	20	27	122	32	20	44	33	33	109	9	16	2	5	39	(2) 75	(5) 85	(1) 6	19	1	11	2	4	31	(2) 46	(3) 37	(1) 5	6	0	0	0
February	0	3	1	0	14	8	18	31	116	33	27	78	37	28	42	12	17	0	2	26	(5) 82	(3) 62	(1) 8	22	4	12	0	2	17	(2) 30	5	(1) 0	6	0	1	0
March	5	10	5	16	15	22	45	32	60	38	35	43	18	20	100	32	33	2	(1) 19	(1) 61	(3) 52	(7) 42	(6) 4	16	11	32	2	16	(1) 42	(2) 26	(6) 20	(4) 1	5	2	8	0
April	1	22	9	15	25	21	36	20	69	22	30	56	26	13	70	45	47	0	18	37	(5) 50	52	(2) 6	11	4	46	0	11	28	(2) 16	13	(2) 4	2	0	15	0
May	0	14	2	18	38	31	35	30	69	11	64	55	11	21	66	31	(1) 40	0	(2) 19	(2) 63	36	(3) 23	(1) 3	24	8	(1) 32	0	(1) 10	(2) 37	16	(3) 5	2	1	1	32	0
June	1	15	1	22	23	16	38	51	66	7	81	49	27	11	37	35	36	2	5	(1) 37	(3) 30	(1) 45	(2) 4	29	3	35	0	2	(1) 16	(2) 9	(1) 13	1	11	0	49	0
July	0	7	0	7	9	24	15	49	111	26	94	70	26	15	29	14	16	0	1	(1) 32	40	(1) 59	6	32	16	14	0	0	(1) 14	8	16	3	6	3	46	0
August	6	4	5	23	30	23	47	37	56	17	43	39	26	30	78	32	41	2	8	(3) 42	(3) 67	(7) 40	5	18	4	32	2	6	(1) 27	(1) 37	(5) 16	1	2	0	21	0
September	0	3	4	13	12	30	24	42	75	37	57	81	20	12	60	10	29	2	9	(2) 54	62	24	3	12	7	12	1	8	37	8	9	2	4	1	38	0
October	1	7	1	7	23	25	26	55	82	21	35	47	17	29	101	19	19	0	0	37	(1) 100	(1) 47	9	18	5	19	0	0	28	(1) 60	(1) 24	6	3	0	12	0
November	0	1	1	5	12	8	20	28	113	52	29	74	29	21	81	6	9	1	10	33	(2) 62	(2) 84	12	17	2	6	1	9	27	(2) 24	(2) 29	4	4	0	10	0
December	0	23	2	2	11	7	19	27	77	80	44	69	29	26	55	25	28	7	7	27	(2) 53	(6) 77	(7) 5	18	17	25	2	6	18	(1) 23	(5) 16	(4) 0	8	0	9	0
Total	14	112	32	132	229	237	343	429	1016	376	559	705	299	259	828	270	(1) 331	18	(3) 103	(10) 488	(26) 710	(36) 640	(20) 71	236	82	(1) 276	10	(1) 74	(6) 322	(15) 303	(26) 203	(12) 29	58	7	241	0
Mean	1	9	3	11	19	20	29	36	85	31	47	59	25	22	69	23	28	1	9	(1) 41	(2) 59	(3) 53	(2) 6	20	7	23	1	6	(1) 27	(1) 25	(2) 17	(1) 2	5	1	20	0

Frequency Table IV for Hope Bay, Grahamland, 1953.

MONTH	WEATHER: No. of Days [1]																										
	TEMPERATURE [7]				PRECIPITATION [1]			8	8	9 & 17	9	9	9 & 17	9	10	10	11	12	13	9 & 14	9 & 17 FOG		9 & 16 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	<−1°F	>41°F																							
January				2				14	8	(1) 1	19	1			23				11	1	4	2			
February	3			5				15	9	3	15	4	3		10				8	1	1	2	1		1
March		1						18	5	3	21	2	(3) 6		21	1			17		6	9		1	2
April		2	2	4				23	13	1	14	2			14	3			17		2	10			1
May		7	6	2				18	7		17				14	2			18		3	9			
June		6	12					23	13		21	1			9	2			21	2	4	10			3
July		1	4	5				22	10		7	2	(1) 1		8	5			13	1		4			1
August		1	1					16	5	(1) 2	22	7	(3) 3		16	2			23		2	13			
September				2				13	4		13	2	1		10	8			16	1	6	6			2
October				2				22	9		26	1			20	1			26			8			
November				6				10	2	1	19	2	(2) 4		19	1			8	1	5	3			2
December	3			11				9	2	4	10	2	7		16	2			5	5	7				3
Total	6	18	25	39				203	87	(2) 15	204	26	(9) 25		180	27			183	12	40	76	1	1	15
Mean	—	—	—	—				17	7	1	17	2	(1) 2		15	2			15	1	3	6	—	—	1

Frequency Table V for Hope Bay, Grahamland, 1953.

MONTH	Mean Wind Speed	WIND: Number of observations, at all hours, of :—															
		Forces (Beaufort)					Directions (degrees)										
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	14.2	23	32	88	71	34	17	17	14	4	6	14	13	46	55	13	9	6
February	14.2	20	31	61	67	45	12	4	2	5	10	17	13	24	43	24	17	8
March	14.4	21	38	83	62	44	8	2	1	2	2	17	23	51	56	24	9	9
April	22.2	67	46	46	39	42	17	2	2		2	11	1	91	40	15	10	7
May	12.1	21	37	57	53	80	8	4		3	3	19	16	78	19	8	3	7
June	16.5	29	55	51	54	51	10	7	4	1	2	13	20	41	48	26	7	10
July	16.9	27	56	68	58	39	22	10	1	4	4	18	16	19	42	37	21	15
August	16.3	18	52	92	50	36	30	27	4	3	1	9	17	44	20	18	31	8
September	11.1	13	29	57	68	73	24	13		3	2	9	32	14	32	21	12	5
October	16.6	17	69	70	61	31	10	9	7		3	12	19	42	66	32	12	5
November	10.9	2	26	88	73	51	16	20	3	6	5	13	20	30	39	20	7	10
December	8.3	2	12	65	105	64	17	24	6	5	7	30	26	13	17	19	12	8
Total	173.7	260	483	826	761	590	191	139	44	36	47	182	216	493	477	257	150	98
Mean	14.5	22	40	69	63	49	16	12	4	3	4	15	18	41	40	21	13	8

Frequency Tables VI to IX for Hope Bay, Grahamland, 1953.

WIND FORCES IN TWELVE 30° SECTORS

Table VI — 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	2		1	1					2		9
2	1	4		1	4	3	2	5	3	1		1	25
3	6	4	1	1	1	5	1	4	6	3	4	1	37
4	7	4	11	2		5	7	14	9		1	4	64
5	2	2						8	5	5	2		24
6		1						7	9	3			20
7							2	3	7				12
≥ 8							1	5	16	1			23
Totals	17	17	14	4	6	14	13	46	55	13	9	6	214

Calms – 34

Table VII — 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	1							6
2	2	1	2	2	4	4	1		1		1		18
3	4	2		2	4	10	6	3	4	5	1	2	43
4	4	1				2	2	4	4	4	3	4	28
5							3	5	8	9	7	1	33
6							1	3	6	2	3	1	16
7								4	6	4	1		15
≥ 8								5	14		1		20
Totals	12	4	2	5	10	17	13	24	43	24	17	8	179

Calms – 45

Table VIII — 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				1	4	4	1	1				12
3		1		1		5	14	7	3	5	2	1	39
4	3				1	4	3	15	14	4	2	1	47
5	3						1	11	8	6	3	4	36
6								7	9	3	1	2	22
7								6	8	1		1	16
≥ 8								4	13	3	1		21
Totals	8	2	1	2	2	17	23	51	56	24	9	9	204

Calms – 44

Table IX — 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	1			6
2	3		1		2	8			2				16
3	5		1			2		4	1	2		2	17
4	3	1				1		3	9	3	1	2	23
5	4	1						8	6	1	3		23
6	1							11	8	7	1	1	29
7								5	6	1	4	1	17
≥ 8								59	6		1	1	67
Totals	17	2	2		2	11	1	91	40	15	10	7	198

Calms – 42

Frequency Tables X to XIII for Hope Bay, Grahamland, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — 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	1					7
2	3	1		1		8	1	5	2	1	1		23
3	1				2	6	2	6		1	1	4	23
4	4	1		2	1	2	3	8	5	2	1	2	31
5		1					2	13	7	3			26
6							3	18	2	1		1	25
7							3	9					12
>= 8								18	3				21
Totals	8	4		3	3	19	16	78	19	8	3	7	168

CALMS – 80

TABLE XI — 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	2	3					8
2						5	5	2	1				13
3	2	2				5	6	4	5	4	1	4	33
4	4	1	1	1	1	1	5	3	1	8		1	27
5	1	3	2				2	4	7	1	2	2	24
6	1		1					8	4	4	1	1	20
7	2					1		8	16	4	3	1	35
>= 8								9	14	5		1	29
Totals	10	7	4	1	2	13	20	41	48	26	7	10	189

CALMS – 51

TABLE XII — 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	2	4						9
2				2	1	4	5	2	1	1	2		18
3	5	2		1	2	9	4		2	1	1	4	31
4	4	1				3	3	6	6	5	4	1	33
5	7	7						1	7	4	7	2	35
6	4							1	8	8	2	4	27
7	2							2	7	10	4	4	29
>= 8								7	11	8	1		27
Totals	22	10	1	4	4	18	16	19	42	37	21	15	209

CALMS – 39

TABLE XIII — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		1		2		2	2	2	1	1			11
2		2			1	1	5	3					12
3	5	5	1	1		3	4	1		3	4		27
4	10	9	2			3	1	13	3	2	7	2	52
5	6	7	1				1	11	1	6	6	1	40
6	2	3					2	4	4	2	6	1	24
7	7						2	3	3	2	8	3	28
>= 8								7	8	2		1	18
Totals	30	27	4	3	1	9	17	44	20	18	31	8	212

CALMS – 36

Frequency Tables XIV to XVII for Hope Bay, Grahamland, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — 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	9	1	1	1			15
2	3	2		2	2	1	5	2	1	3	2		23
3	3	3		1		2	10	5	2	2		2	30
4	6	5				4	8	6		4	4		37
5	10	3							3	1	3		20
6	1								5	5	2	2	15
7									9	3	1	1	14
≥ 8									11	2			13
Totals	24	13		3	2	9	32	14	32	21	12	5	167

CALMS – 73

TABLE XV — 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	4	2	2	3	2	1		16
3	4	2	1		1	6	6	3	3	11	3	4	44
4	3	4	4			2	7	9	4	2	1		36
5	2	1	2				2	7	15	4	1		34
6		1					1	10	14	5	2		33
7	1						1	10	19	2	2	1	36
≥ 8								1	8	6	2		17
Totals	10	9	7		3	12	19	42	66	32	12	5	217

CALMS – 31

TABLE XVI — 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	5	1	1		1	1	13
2	2	2		2	1	8	3		1		1	1	21
3	8	5		3	2	3	4	3	4	1	2	4	39
4	4	10	1	1		1	8	11	11	5	2	4	58
5	1	2	2					4	9	11	1		30
6	1							9	4	2			16
7								1	8	1			10
≥ 8								1	1				2
Totals	16	20	3	6	5	13	20	30	39	20	7	10	189

CALMS – 51

TABLE XVII — 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		2	3	1		1		2	16
2	1	7	3	2	3	8	3	3					30
3	6	8	1	2	3	10	15	1	7	2	2	2	59
4	4	4	1		1	10	4	3	3	5	5	3	43
5	4	2					1	2	1	7	4	1	22
6								2	2	3	1		8
7								1	2	1			4
≥ 8									2				2
Totals	17	24	6	5	7	30	26	13	17	19	12	8	184

CALMS – 64

Frequency Table XVIII for Hope Bay, Grahamland, 1953.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	ALL DIRECTIONS
1	8	10	5	6	8	19	29	10	5	6	3	3	112
2	16	20	6	12	20	58	36	25	16	8	8	2	227
3	49	34	5	12	15	66	72	41	37	40	21	30	422
4	56	41	20	6	4	38	51	95	69	44	31	24	479
5	40	29	7				12	74	77	58	39	11	347
6	10	5	1				7	80	75	45	19	13	255
7	12					1	8	52	91	29	23	12	228
=> 8							1	116	107	27	6	3	260
Totals	191	139	44	36	47	182	216	493	477	257	150	98	2330

CALMS 590.

Means and Extremes Table I for Admiralty Bay, South Shetlands, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	1-2 Daily Mean	Extremes [3]				Mean at [1]								1-2 Daily Mean	Mean Daily [1]		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	989.9	1005.1	31st	972.6	12th	32.2	32.5	33.3	34.4	34.5	34.1	33.2	32.5	33.3	36.7	30.6	43	16th	23	2nd
February	987.8	1000.0	1st	963.4	12th	32.3	32.7	33.2	33.9	34.3	34.0	33.2	33.0	33.3	37.0	29.5	43	28th	21	21st
March	986.8	1008.8	11th, 12th	959.4	31st	30.3	30.2	30.9	31.8	31.6	31.0	30.3	29.9	30.7	35.9	26.1	50	16th	15	26th
April	990.1	1020.5	20th	960.1	1st	23.3	23.1	23.1	24.1	24.1	23.4	23.0	23.1	23.4	28.8	17.4	43	27th	4	4th, 18th
May	998.7	1018.1	4th	965.2	16th	19.8	20.2	20.5	22.3	21.6	20.9	20.5	20.6	20.8	26.9	13.8	40	14th	1	26th
June	983.0	1009.6	12th	*938.8*	*21st*	19.1	19.8	19.4	18.9	18.6	18.2	17.8	18.0	18.7	25.6	11.5	34	13, 14, 16	−1	30th
July	993.4	1012.6	3rd	960.0	30th	21.6	21.1	19.7	19.9	20.3	20.7	20.3	21.2	20.6	27.1	13.8	39	5th	*−7*	*16th*
August	993.5	*1020.8*	*30th*	963.9	26th	25.1	24.8	24.7	25.6	25.7	24.7	24.9	24.7	25.0	29.9	19.6	40	11th	5	7th, 30th
September	1000.8	1016.5	5th	980.2	29th	25.3	25.6	26.0	27.3	27.8	26.0	25.2	25.1	26.0	31.0	20.7	41	20th	5	15th
October	984.4	1010.0	24th	964.8	28th	25.9	26.6	27.2	29.1	29.3	27.5	26.8	26.6	27.4	31.7	21.7	38	13th	15	1,2,3,7 10,20
November	986.7	1008.0	6th	969.5	17th	30.5	31.2	31.2	32.3	32.5	32.5	31.7	31.5	31.7	35.0	28.5	45	23rd	16	7th
December	993.6	1015.0	15th	974.2	1st	34.6	34.9	35.9	36.8	37.0	36.3	35.0	34.8	35.7	39.6	32.5	*51*	*23rd, 24th*	28	16th
Total	11888.7	12145.0	—	11572.1	—	320.0	322.7	325.1	336.4	337.3	329.3	321.9	321.0	326.6	385.2	265.7	507	—	125	—
Mean	990.7	1012.1	—	964.3	—	26.7	26.9	27.1	28.0	28.1	27.4	26.8	26.7	27.2	32.1	22.1	42.3	—	10.4	—

Means and Extremes Table II for Admiralty Bay, South Shetlands, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	Mean at [1]								1-2 Daily Mean	Mean at [1]								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	85	84	84	83	84	83	84	85	84	6.7	6.8	7.0	7.2	6.9	6.5	6.4	6.9	6.9	3.6	3.9	18.3	Not recorded	Not recorded	Not recorded
February	81	82	83	77	77	80	81	82	80	6.6	6.9	7.0	6.7	6.4	6.7	6.7	6.4	6.7	3.8	4.0	15.6			
March	85	83	84	81	84	85	83	85	84	6.9	7.1	6.8	6.5	6.7	6.8	6.7	6.4	6.7	2.3	2.4	12.7			
April	88	87	85	87	88	83	88	88	87	7.1	6.8	6.8	6.8	6.7	6.5	6.5	6.6	6.7	1.4	1.7	9.7			
May	78	80	81	78	79	81	81	79	80	5.5	6.0	6.0	6.0	6.2	6.0	5.5	5.5	5.8	0.9	1.6	6.9			
June	85	86	87	86	85	87	84	84	85	5.5	5.1	5.5	6.4	6.3	5.6	5.4	5.7	5.7	0.0	0.6	5.3			
July	80	80	81	83	84	82	83	80	81	5.4	5.8	5.5	5.6	6.0	5.1	4.7	4.6	5.3	0.2	1.5	6.1			
August	87	88	87	86	86	85	85	87	86	6.8	6.6	6.1	5.8	6.1	6.2	6.3	6.8	6.3	1.3	2.2	8.6			
September	89	89	85	87	85	87	87	87	87	4.8	5.2	5.6	4.9	5.3	5.5	5.0	4.6	5.1	3.0	3.8	11.5			
October	86	86	86	85	84	87	87	86	86	6.9	7.0	7.1	6.5	6.5	6.5	6.6	6.2	6.7	1.7	1.9	14.5			
November	87	87	88	84	86	87	87	87	87	6.9	6.9	7.1	6.6	6.7	7.3	7.0	6.6	6.9	2.7	2.8	17.5			
December	88	88	85	84	80	83	86	87	85	6.7	6.8	6.9	6.5	6.0	6.3	6.6	6.6	6.5	5.6	5.6	19.5			
Total	1019	1020	1016	1001	1002	1010	1016	1017	1012	75.8	77.0	77.4	75.5	75.8	75.0	73.4	72.9	75.3	26.5	32.0	146.2			
Mean	85	85	85	83	83	84	85	85	84	6.3	6.4	6.5	6.3	6.3	6.3	6.1	6.1	6.3	2.2	2.7	12.2			

Frequency Table I for Admiralty Bay, South Shetlands, 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.9*	*1025.0 to 1029.9*	*1030.0 to 1034.9*	*1035.0 to 1039.9*
January								3	17	33	56	86	41	11	1						
February						2	5	7	9	47	58	70	25	1							
March					3	6	8	29	16	21	56	60	32	6	11						
April						3	16	14	40	25	32	40	11	13	8	17	20	1			
May							5	3	4	16	18	38	37	44	71	5	7				
June	1	2	2	1	5	10	17	23	31	46	30	21	22	10	19						
July						3	2	18	21	23	25	15	42	63	24	12					
August						2	3	5	14	56	41	17	33	31	15	19	8	4			
September										16	12	18	30	93	58	6	7				
October						1	17	47	31	40	25	37	25	15	9	1					
November							1	23	40	49	39	45	25	5	13						
December								2	7	50	54	35	35	25	21	18	1				
Year	1	2	2	1	8	27	74	174	230	422	446	482	358	317	250	78	43	5			

Frequency Table II for Admiralty Bay, South Shetlands, 1953.

TEMPERATURE: Number of observations at all hours, in 2° F ranges:—

MONTH	Negative Ranges																					Positive Ranges																													
	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
January																																		1	3	24	37	76	59	37	8	2	1								
February																																2	1	10	14	20	27	34	43	50	20	3									
March																													1	1	8	5	5	21	45	37	25	31	23	20	11	8	4	2	1						
April																									3	12	11	9	10	24	20	21	22	16	23	7	10	15	16	12	9										
May																						1	4	3	10	20	14	15	14	19	14	14	17	21	21	16	14	12	11	7	1										
June																					1	1	7	8	7	19	20	12	13	18	25	21	20	13	13	9	24	9													
July																			4	3	2	6	8	3	10	3	18	13	21	9	10	13	9	17	16	18	26	24	11	4											
August																									3	7	6	16	14	15	10	12	9	17	22	23	38	33	17	6											
September																									1	1	2	3	8	12	19	30	28	20	14	17	26	29	12	13	5										
October																													2	4	18	24	26	27	12	30	40	56	9												
November																														2		1	4	15	31	31	37	45	35	20	14	3	2								
December																																				5	37	52	56	36	19	19	17	4	2	1					
Year																			4	3	3	8	19	14	34	62	71	68	83	104	124	143	141	178	214	237	341	416	292	205	87	35	24	6	3	1					
DAILY EXTREMES.																																																			
Maximum																									1	1	4	4	6	5	10	5	17	15	13	23	29	52	47	47	38	27	12	5	1		3				
Minimum																		1		2	4	1	3	11	10	12	18	12	19	21	22	20	21	21	25	36	48	32	18	4	3	1									

Frequency Table III for Admiralty Bay, South Shetlands, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)												No Cloud	Traces Disregarded[6]
																	All Amounts									7–8 Oktas											
	< 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	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	0	0	0	1	9	16	33	47	107	35	6	28	33	35	146	0	0	0	0	14	(5) 46	(8) 167	(2) 15	3	1	0	0	0	12	(5) 36	(7) 106	(2) 2	1	1	2	0
February	0	0	4	0	1	3	35	66	89	26	4	33	32	55	100	0	0	0	0	12	(1) 31	(2) 153	(4) 24	3	1	0	0	0	12	(1) 27	(2) 84	(3) 6	0	0	0	0
March	0	3	4	14	3	3	48	51	77	45	8	33	42	38	127	0	0	0	0	10	(1) 57	(6) 151	(5) 22	6	1	0	0	0	7	(1) 51	(4) 83	(4) 0	2	1	1	0
April	0	0	0	6	12	10	58	61	58	35	19	19	23	35	142	2	2	0	3	7	103	103	3	5	6	2	0	3	7	102	52	0	1	3	8	0
May	0	0	0	2	6	12	72	55	39	62	57	23	18	31	117	2	2	2	0	13	111	(1) 62	1	9	20	2	0	0	9	90	31	0	2	4	28	0
June	0	2	1	16	9	1	75	85	32	19	36	26	42	37	95	4	4	2	0	32	80	86	0	10	3	4	1	0	29	52	35	0	6	2	23	0
July	0	1	1	1	15	1	76	64	57	32	56	33	39	30	87	3	3	0	0	7	(1) 82	(4) 96	(2) 4	17	7	3	0	0	3	(1) 64	(3) 26	(2) 1	8	1	32	0
August	0	2	0	7	11	7	75	71	49	26	31	26	22	41	128	0	0	1	2	7	(1) 118	(5) 89	0	13	5	0	1	0	6	(1) 104	(5) 40	0	0	1	13	0
September	0	1	0	6	10	4	71	64	58	26	57	37	25	28	89	4	4	0	1	25	73	(2) 78	2	18	0	4	0	1	19	54	(2) 31	1	4	0	39	0
October	0	0	0	5	13	12	74	85	52	7	10	30	35	40	133	0	0	0	0	16	(1) 105	(4) 110	(3) 7	7	3	0	0	0	15	(1) 82	(4) 45	(2) 7	4	1	0	0
November	0	1	0	2	2	1	36	92	56	50	11	13	54	52	109	1	1	0	1	19	(7) 79	(18) 124	(4) 4	6	2	1	0	1	15	(7) 49	(16) 56	(1) 1	2	0	4	1
December	0	0	0	0	2	0	42	92	42	70	28	35	43	54	88	0	1	1	0	39	(10) 89	(15) 83	(5) 5	13	15	0	0	0	26	(8) 43	(10) 28	(3) 1	3	1	2	2
Total	0	10	10	60	93	70	695	833	716	433	323	336	408	476	1361	16	17	6	7	201	(27) 974	(65) 1302	(25) 87	110	64	16	2	5	160	(25) 754	(53) 617	(17) 19	33	15	152	3
Mean	0	1	1	5	8	6	58	69	60	36	27	28	34	40	113	1	1	1	1	17	(2) 81	(5) 109	(2) 7	9	5	1	—	—	13	(2) 63	(4) 51	(1) 2	3	1	13	—

Frequency Table IV for Admiralty Bay, South Shetlands, 1953.

MONTH	WEATHER: No. of Days [1]																												
	TEMPERATURE [7]				PRECIPITATION [1]			8	8	9 & 17	9	9	9 & 17	9	10	10	11	12	13	9 & 14	9 & 17		9 & 16		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	≡>0.40 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	9			3	Not recorded	Not recorded	Not recorded	9		6	15	6	5		21		Not recorded	Not recorded		5		1	1		
February	7			2				11	3	3	13	1	13		17				3			2			1
March	4			5				14	4	8	16	5	8		23				7	3		3	2		
April	2			1				15	3	7	21	2			21	1			5		1	2			
May								7	2	2	18	1	1		17	3			6		1				
June								18	5		23	3			14	1			8		2	4			
July			1					18	4	3	20	2	4		13	3			7			2			
August								22	7	3	22	8	5		20	2			13			6			
September	1							13	2	5	12	4			15	4			3		4				
October								19	5	2	23	7	1		22				3	2		3	1		
November	4			2				15	1	5	15	3	7		26				9	1		3	1		
December	14			8				11	2	9	11	7	11		18						1				
Total	41		1	21				172	38	53	209	49	55		227	14			64	11	9	26	5		1
Mean	—		—	—				14	3	4	17	4	5		19	1			5	1	1	2	—		—

Frequency Table V for Admiralty Bay, South Shetlands, 1953.

MONTH	2 Mean Wind Speed	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	9.3		25	84	100	39	9	18	17	33	11	11	23	16	32	22	6	11
February	13.4	5	27	96	86	10	21	12	4	11	5	1	15	15	43	53	21	13
March	13.1	8	41	77	94	28	37	21	5	41	14	1	4	11	28	35	19	4
April	12.5	6	29	98	78	29	14	25	11	52	22	14	6		13	22	25	7
May	9.4	2	9	92	94	51		23	13	44	26	11	11	7	7	26	28	1
June	13.9	9	44	85	61	41	18	26	6	32	1	4	6	5	12	49	32	8
July	13.1	9	37	89	71	42	38	32	6	11	13	3	3	11	15	27	30	17
August	15.3	24	51	74	55	44	36	44	30	18	5	8	21	9	2	8	7	16
September	9.9	5	33	55	63	84	18	41	5	22	8	7	3	3	3	20	18	8
October	14.8	11	33	117	73	14	20	28	22	35	27	12	3	5	14	39	22	7
November	12.6	2	33	92	95	18	20	36	16	33	13	3	3	6	16	27	33	16
December	11.1	8	13	94	114	19	25	28	8	16	14	10	7	9	21	33	33	25
Total	148.4	89	375	1053	984	419	256	334	143	348	159	85	105	97	206	361	274	133
Mean	12.4	7	31	88	82	35	21	28	12	29	13	7	9	8	17	30	23	11

Frequency Tables VI to IX for Admiralty Bay, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

Table VI — 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					3
2	2	2	3	5	4	3	2	5	7	4	2	5	44
3	2	3	1	7	4	5	9	2	5	9	2	4	53
4	1	6	3	15	2	3	10	5	12	2	1	2	62
5		1	3	3			1	3	4	6	1		22
6	3	2	4	1						1			11
7	1	4	3	2					4				14
>= 8													
Totals	9	18	17	33	11	11	23	16	32	22	6	11	209

Calms – 39

Table VII — 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			2
2	3		2	4	2		1	6	4	6	6	5	39
3	4	2	2	2	1		4	4	7	9	7	3	45
4	7	4		4	2		5	2	18	21	5	2	70
5	2			1		1	1	2	8	6	2	3	26
6	4	1					2			5			12
7		2					2	1	5	4	1		15
>= 8		3							1	1			5
Totals	21	12	4	11	5	1	15	15	43	53	21	13	214

Calms – 10

Table VIII — March.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	1					1	1	1	1				5
2	6	5	1	3	1			3	4	8	8	2	41
3	9	10	1	1	1		1	3	6	8	7	1	48
4	1	2		11	8		2	3	7	9	3	1	47
5	8	2	1	9	4			1	2	3			30
6	6		1	11					5	4			27
7	2	1	1	4					3	2	1		14
>= 8	4	1		2						1			8
Totals	37	21	5	41	14	1	4	11	28	35	19	4	220

Calms – 28

Table IX — 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	2						1	1	1	2	10
2	4	3	2	4	2		1		2	5	7	3	33
3	2	1	1	10	2	6	1		3	5	3	1	35
4	3	2	2	14	10	5	4		4	5	7		56
5	2	6	4	15	5	3			1	2	3	1	42
6	1	4		8	3				2	3	3		24
7	1	1		1						1	1		5
>= 8		6											6
Totals	14	25	11	52	22	14	6		13	22	25	7	211

Calms – 29

Frequency Tables X to XIII for Admiralty Bay, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — MAY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		3		1					1	2	2		9
2		7	2	4	2	1	1	2	1	7	6		33
3		3	3	13	4	4	3	2	1	7	11	1	52
4		5	3	15	16	4	7	1	2	9	4		66
5		4	3	6	3	2		1	1	1	5		26
6			2	2	1			1	1				7
7				2									2
≥ 8		1		1									2
Totals		23	13	44	26	11	11	7	7	26	28	1	197

CALMS – 51

TABLE XI — 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	5	2	5		2	3		2		2	1	23
3	2	2	2	6			2	2	6	7	4	2	35
4	2	7		6		2	1			9	11	4	42
5	3	3		6	1			3	2	16	8	1	43
6	4	2	1	5					2	10	4		28
7	2	4	1	3						4	2		16
≥ 8	4	2								3			9
Totals	18	26	6	32	1	4	6	5	12	49	32	8	199

CALMS – 41

TABLE XII — 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	4	5	2	1		1		2	1	3	2	2	23
3	6	3	1	2	7	1		4	7	4	7	5	47
4	12	3	2	6	1	1	1	3	4	11	6	7	57
5	9	6	1	2	2		2	2		5	3		32
6	3	7			2				2	3	4	2	23
7	2	6			1						4	1	14
≥ 8	2	2								1	4		9
Totals	38	32	6	11	13	3	3	11	15	27	30	17	206

CALMS – 42

TABLE XIII — AUGUST.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1			2								1		3
2	3	3	3		4	2	6		1	1	1	2	26
3	2	3	5	6	1	1	3	2		1	1	1	26
4	5	8	4	6		4	7	1	1	4	3	8	51
5	4	6	4	1		1	3	1		1		2	23
6	9	5	3	5				1		1	1	2	27
7	8	6	5				2	2				1	24
≥ 8	5	13	4					2					24
Totals	36	44	30	18	5	8	21	9	2	8	7	16	204

CALMS – 44

Frequency Tables XIV to XVII for Admiralty Bay, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — 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	4	1	1		1				1	2	1	13
2	2	2	1	1	1	1	2	3		3	3		19
3	5	2	1	6	2	3	1		2	6	2	1	31
4	5	7		5	1	2				4	1	3	28
5	3	1		7	3				1	4	6	2	27
6	1	6	1	2	1					2	2	1	16
7		14	1								2		17
>= 8		5											5
Totals	18	41	5	22	8	7	3	3	3	20	18	8	156

CALMS – 84

TABLE XV — 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	2		6
2	4	2		1	2				4	2		2	17
3	4	2	3	3	9	5	2	1	3	11	5	2	50
4	3	8	8	14	10	5		2	4	9	6	2	71
5	6	5	7	13	3	2		1	1	5	3		46
6	2	7	2	3	3				2	3	2		24
7		3	1	1			1			1	1	1	9
>= 8								1		7	3		11
Totals	20	28	22	35	27	12	3	5	14	39	22	7	234

CALMS – 14

TABLE XVI — NOVEMBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1		2			2	1			1		1		7
2	1		4	3	2	1	1	1	3	1	8	1	26
3	9	6	6	4	4	1	1	3	8	6	10	4	62
4	8	9	3	16	2			2	1	6	9	9	65
5	2	6	2	6	1		1		1	6	1	1	27
6		9	1	3	2				1	6	4		26
7		2		1					1	2		1	7
>= 8		2											2
Totals	20	36	16	33	13	3	3	6	16	27	33	16	222

CALMS – 18

TABLE XVII — 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	3		1	1	12
2	2	7	3	1	2	1	5	3	6	6	4	3	43
3	10	3	2	2	4	4	2	2	8	7	6	9	59
4	7	4	1	9	4	4		2	4	12	13	11	71
5	3	6		2	2	1				2	6	1	23
6		1			1					6	2		10
7		1			1						1		3
>= 8	3	5											8
Totals	25	28	8	16	14	10	7	9	21	33	33	25	229

CALMS – 19

Frequency Table XVIII for Admiralty Bay, South Shetlands, 1953.

Beaufort Force	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	All Directions
1	6	14	8	5	3	3	2	4	8	6	11	4	74
2	32	41	25	32	22	12	22	25	35	46	49	26	367
3	55	40	28	62	39	30	29	25	56	80	65	34	543
4	54	65	26	121	56	30	37	21	57	101	69	49	686
5	42	46	25	71	24	10	8	14	21	57	38	11	367
6	33	44	15	40	13		2	2	15	44	22	5	235
7	16	44	12	14	2		5	3	13	14	13	4	140
=> 8	18	40	4	3				3	1	13	7		89
Totals	256	334	143	348	159	85	105	97	206	361	274	133	2501

CALMS 419.

Means and Extremes Table I for Deception Island, South Shetlands, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] DAILY MEAN	EXTREMES [3]				MEAN AT [1]								[1-2] DAILY MEAN	[1] MEAN DAILY		EXTREMES			
		HIGH	DATE	LOW	DATE	0200	0500	0800	1100	1400	1700	2000	2300		MAX.	MIN.	MAX.	DATE	MIN.	DATE
January	989.9	1005.1	31st	972.7	26th	31.6	32.1	33.2	34.5	34.6	33.9	32.6	31.9	33.1	36.3	29.8	41	11, 25, 30	25	31st
February	987.1	1000.0	1st	961.9	12th	31.9	32.0	32.6	34.0	34.1	33.6	32.6	32.3	32.9	36.7	29.1	43	5th	22	20th, 21st
March	986.0	1009.0	11th	955.5	31st	29.1	29.1	29.3	30.3	30.2	29.4	28.8	28.7	29.4	32.9	25.6	43	1st	17	26th
April	989.2	*1019.8*	*20th*	960.5	1st	24.5	24.0	24.0	24.9	24.7	24.1	23.9	24.3	24.3	28.6	19.3	41	28th	8	18th
May	997.9	1018.3	4th	963.2	16th	22.0	22.1	22.1	22.5	22.6	22.0	22.2	22.3	22.2	25.5	17.9	37	12th	5	29th
June	982.1	1009.9	12th	*940.1*	*21st*	16.1	15.9	16.0	16.4	16.8	16.4	15.2	14.9	16.0	22.9	7.0	34	14th	−5	26th
July	992.7	1013.0	3rd	959.6	29th	19.1	18.7	17.8	18.0	19.1	19.4	19.6	19.8	18.9	24.9	12.2	40	24th, 25th	*−8*	*17th, 18th*
August	992.4	1019.3	30th	966.6	26th	23.2	22.8	22.3	22.9	24.1	24.2	24.5	24.3	23.5	29.0	17.7	42	11th	5	6th
September	1000.4	1015.3	5th	978.6	2nd	23.1	22.5	23.3	25.7	26.1	25.3	24.4	23.2	24.2	29.6	18.0	40	1st, 20th	−2	15th
October	983.8	1010.3	24th	961.7	28th	24.7	25.2	25.5	26.8	27.2	26.6	25.9	25.1	25.9	30.9	20.7	37	13th	6	7th
November	986.5	1009.3	5th	971.2	29th	28.9	29.1	29.8	30.7	31.1	30.7	29.8	29.5	29.9	33.1	26.4	40	10th, 29th	18	7th, 20th
December	993.1	1014.7	15th	975.2	1st	32.9	33.4	34.2	35.4	35.8	34.8	34.0	33.2	34.2	37.7	31.0	*47*	*24th*	26	17th
Total	11881.1	12144.0	—	11566.8	—	307.1	306.9	310.1	322.1	326.4	320.4	313.5	309.5	314.5	368.1	254.7	485	—	117	—
Mean	990.1	1012.0	—	963.9	—	25.6	25.6	25.8	26.8	27.2	26.7	26.1	25.8	26.2	30.7	21.2	40.4	—	9.7	—

Means and Extremes Table II for Deception Island, South Shetlands, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	MEAN AT [1]								1-2 DAILY MEAN.	MEAN AT [1]								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	85	82	80	80	83	86	88	84	7.1	7.3	7.3	7.0	6.8	6.7	7.1	7.1	7.1	3.1	3.2	18.7			
February	84	84	83	79	78	80	84	87	82	6.5	7.1	6.9	6.4	6.3	6.5	6.6	6.6	6.6	3.9	4.0	15.6	52.8	17.8	11th
March	89	90	90	89	88	87	87	89	89	6.7	7.0	7.3	7.0	7.2	7.3	7.0	7.0	7.1	1.6	1.6	12.8	51.9	17.4	3rd
April	87	86	85	84	83	83	84	83	84	6.5	6.7	6.8	6.8	6.8	6.9	6.8	6.3	6.7	1.1	1.2	9.2			
May	86	85	88	87	86	87	84	84	86	6.5	6.4	7.0	6.8	6.4	5.9	6.0	5.8	6.3	0.1	0.6	6.7			
June	85	85	86	84	84	84	85	85	85	5.7	5.1	6.0	5.8	6.5	6.2	5.6	5.2	5.8	0.0	0.8	4.9	Unreliable	Unreliable	Unreliable
July	87	84	85	83	83	84	86	88	85	5.1	5.0	5.6	6.5	5.8	5.8	5.2	5.5	5.6	0.0	0.9	5.7			
August	87	88	88	87	88	89	89	89	88	6.4	5.5	6.0	6.5	7.0	7.1	6.5	6.5	6.4	0.6	1.1	8.5			
September	90	89	89	87	89	89	88	89	89	5.5	6.2	6.4	6.5	6.8	6.6	5.7	5.8	6.2	1.9	2.4	11.5			
October	91	91	91	90	89	92	91	92	91	7.3	7.4	7.0	6.9	7.1	7.0	7.6	7.0	7.2	2.0	2.2	14.6			
November	93	92	92	92	92	93	93	93	93	7.3	7.3	7.1	7.2	7.4	7.6	7.4	7.5	7.3	2.2	2.3	17.9			
December	92	91	89	87	85	89	91	92	89	7.2	7.0	7.1	7.0	7.2	6.9	6.9	6.8	7.0	3.4	3.8	20.1			
Total	1058	1050	1048	1029	1025	1040	1048	1059	1045	77.8	78.0	80.5	80.4	81.3	80.5	78.4	77.1	79.3	19.9	24.1	146.2	—	—	—
Mean	88	87	87	86	85	87	87	88	87	6.5	6.5	6.7	6.7	6.8	6.7	6.5	6.4	6.6	1.7	2.0	12.2	—	—	—

Frequency Table I for Deception Island, South Shetlands, 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.9*	*1025.0 to 1029.9*	*1030.0 to 1034.9*	*1035.0 to 1039.9*
January								7	12	28	64	88	38	10	1						
February						2	3	3	12	49	63	62	29	1							
March					5	10	9	29	6	30	60	58	23	7	11						
April						8	13	14	36	32	26	42	11	12	9	16	21				
May						3	2	1	11	15	25	37	34	35	74	5	6				
June		4	1	2	4	17	15	25	36	37	34	19	20	9	16	1					
July					1	2	4	20	26	25	14	18	52	51	23	12					
August							4	10	27	55	26	19	37	22	20	14	14				
September									4	15	11	19	37	77	65	6	6				
October						6	16	46	29	43	31	30	22	15	9	1					
November								25	49	39	39	44	22	8	14						
December									9	59	46	35	35	27	18	19					
Year		4	1	2	10	48	66	180	257	427	430	471	360	274	260	74	47				

Frequency Table II for Deception Island, South Shetlands, 1953.

MONTH	TEMPERATURE : Number of observations at all hours, in 2° F ranges :—																																																		
	Negative Ranges																					Positive Ranges																													
	41	*39*	*37*	*35*	*33*	*31*	*29*	*27*	*25*	*23*	*21*	*19*	*17*	*15*	*1*	*11*	*9*	*7*	*5*	*3*	*1*	*1*	*3*	*5*	*7*	*9*	*11*	*13*	*15*	*17*	*19*	*21*	*23*	*25*	*27*	*29*	*31*	*33*	*35*	*37*	*39*	*41*	*43*	*45*	*47*	*49*	*51*	*53*	*55*	*57*	*59*
January																																			3	15	67	77	55	25	5	1									
February																																1	3	6	11	23	33	60	41	26	17	3									
March																															5	6	16	24	53	36	35	33	24	10	5		1								
April																												6	9	13	23	40	30	41	21	14	14	12	8	9											
May																									1	3	11	17	18	14	18	30	30	28	30	17	22	5	4												
June																					4	10	5	8	18	24	25	8	17	16	25	24	15	6	7	8	14	6													
July																		2	1	3	3	10	8	8	11	10	20	19	10	11	15	10	7	16	14	16	19	22	11	2											
August																									2	8	13	15	28	16	7	12	11	22	21	18	31	29	11	2	1	1									
September																						1	4	3	1	3	4	8	12	13	15	28	21	31	15	14	20	19	20	6	2										
October																										2	2	3	8	7	6	19	28	44	35	42	20	29	3												
November																															2	9	16	16	30	28	48	62	20	7	2										
December																																				11	63	55	55	25	26	9	3	1							
Year																		2	1	3	7	21	17	19	33	50	75	76	102	90	116	179	177	234	240	242	386	409	252	112	58	14	4	1							
DAILY EXTREMES.																																																			
Maximum																								1	2		6	2	9	4	8	9	19	22	21	30	32	47	59	39	27	20	5	2	1						
Minimum																		2	4	2	4	5	5	10	9	10	17	14	16	15	22	27	25	28	29	34	57	22	7	3											

Frequency Table III for Deception Island, South Shetlands, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)																No Cloud	Traces Disregarded[6]
																	All Amounts									7-8 Oktas									
	< 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	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	0	0	1	5	11	11	23	60	36	101	13	18	36	45	131	5	5	3	6	62	(4) 114	(4) 30	(6) 15	11	1	5	3	3	54	(4) 60	(4) 21	(6) 9	2	0	1	0
February	0	0	0	5	7	9	16	37	44	106	12	26	38	43	103	2	2	2	9	(1) 84	(2) 91	(3) 18	(5) 5	6	2	2	1	8	(1) 68	(1) 32	(2) 7	(3) 3	2	0	5	1
March	4	6	4	12	12	18	30	63	19	80	1	21	25	53	135	13	13	3	(1) 22	(3) 78	(7) 114	(13) 14	(10) 2	2	0	13	2	17	(4) 65	(4) 58	(12) 5	(9) 1	0	0	0	1
April	1	2	1	11	12	11	39	38	10	115	8	28	25	63	110	6	6	1	10	59	104	(8) 42	(14) 6	4	4	6	1	10	50	49	(7) 22	(14) 4	3	0	4	4
May	0	0	1	3	16	12	36	58	15	107	14	36	27	61	109	1	1	1	13	(1) 102	(5) 84	(7) 20	(4) 7	12	4	1	0	6	(1) 71	(2) 51	(7) 11	(4) 1	1	0	4	6
June	1	6	4	9	14	12	39	53	23	79	26	52	28	49	80	5	5	0	3	(1) 77	(4) 81	(5) 24	(2) 11	23	3	5	0	3	(1) 47	(3) 31	(4) 10	(2) 7	7	1	13	13
July	0	2	1	12	10	17	31	41	46	88	23	56	39	47	83	0	4	3	(2) 17	(2) 112	(9) 64	(4) 15	(12) 9	12	2	0	1	9	(2) 68	(4) 11	(4) 4	(9) 4	1	0	10	1
August	0	0	0	5	15	8	64	60	46	50	16	34	29	57	112	0	1	3	(1) 13	131	(5) 68	(13) 4	(15) 6	18	0	0	2	(1) 11	83	(5) 29	(11) 1	(12) 5	3	0	4	6
September	0	0	4	9	14	18	50	41	40	64	34	35	25	49	96	1	3	2	7	(2) 127	(3) 32	(11) 16	(26) 8	27	2	1	2	5	(1) 81	(2) 1	(8) 10	(22) 4	7	0	16	11
October	0	1	7	14	10	32	57	40	43	44	10	23	23	48	140	4	5	6	12	(3) 144	(16) 45	(19) 19	(4) 1	12	3	5	5	11	(2) 94	(14) 17	(15) 8	(4) 1	5	1	1	6
November	0	2	3	6	5	18	32	55	55	64	5	16	28	59	126	6	10	2	17	(3) 123	(8) 63	(24) 18	(8) 0	7	0	7	2	14	(3) 88	(7) 23	(19) 10	(6) 0	2	0	0	2
December	0	1	0	4	12	11	30	51	54	85	7	26	25	77	112	1	3	(1) 10	26	(5) 104	(10) 80	(23) 15	(12) 1	3	5	2	(1) 8	22	(5) 70	(10) 29	(12) 7	(11) 0	2	3	1	2
Total	6	20	26	95	138	177	447	597	431	983	169	371	348	651	1337	44	58	(1) 36	(4) 155	(21) 1203	(73) 940	(134) 235	(118) 71	137	26	47	27	(2) 119	(20) 839	(56) 391	(105) 116	(102) 39	35	5	59	53
Mean	1	2	2	8	11	15	37	50	36	82	14	31	29	54	111	4	5	3	13	(2) 100	(6) 78	(11) 20	(10) 6	11	2	4	2	10	(2) 70	(5) 33	(9) 10	(9) 3	3	—	5	4

Frequency Table IV for Deception Island, South Shetlands, 1953.

MONTH	WEATHER : No. of Days [1]																										
	TEMPERATURE [7]				PRECIPITATION [1]			[8] ≥ 6 WIND FORCE	[8] ≥ 8 WIND FORCE	[9 & 17] RAIN	[9] SNOW	[9] SLEET	[9 & 17] DRIZZLE	[9] THUNDER	[10] CLOUDY	[10] CLEAR	[11] SNOW LYING	[12] GROUND FROST	[13] DRIFT	[9 & 14] SHOWERS	[9 & 17] FOG		[9 & 16] HAIL		
	HIGH MIN.	LOW MAX.	LOW MIN.	HIGH MAX.	≥0.10 mm	≥1.0 mm	≥10.0 mm														True	Pseudo	True	Small	Soft
	>32°F	<5°F	<-4°F	>41°F																							
January	2							10		5	18	1	4		23				7		3	4			
February	4			1	14	7	1	16	4	6	18	2	12		16						1	7		1	
March	2			1	15	10	1	15	2	7	26	5	10		25				16	1	3	12	1		1
April								15	2	6	21	4	(2) 4		23				18	2	3	9	2		2
May								13	2	2	21	2	(1) 8		19				16		3	5			1
June			2					18	1	2	29	1	(5) 5		14				25		1	11		1	3
July			2					15	1	2	25	3	(3) 7		14	2			20	2	5	6		7	2
August				1				20		4	25	6	(7) 10		21	1	Not recorded	Not recorded	16	1	3	1		5	
September								7		(2) 8	21	6	(6) 11		18	3			12		6	1		4	1
October								23	2		29	4	(2) 3		25				29		1	12		3	1
November								12		8	24	5	6		27				18		2	4			
December	8			5				8		10	13	5	12		24				6		7	3			
Total	16		4	8	—	—	—	172	14	(2) 60	270	44	(29) 92		249	6			183	6	38	75	3	21	11
Mean	—		—	—	—	—	—	14	1	5	23	4	(2) 8		21	1			15	1	3	6	—	2	1

Frequency Table V for Deception Island, South Shetlands, 1953.

MONTH	2 Mean Wind Speed	WIND : Number of observations, at all hours, of :—															
		Forces (Beaufort)					Directions (degrees)										
	Knots	*8 or more*	*6 to 7*	*4 to 5*	*1 to 3*	Calm	*350 to 10*	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*
January	11.6		31	76	128	10	8	5	30	33	10	3	3	7	26	49	41	23
February	15.6	9	38	106	69	2	4	4	17	3	4		1	6	38	71	41	33
March	14.0	8	41	106	79	14	6	6	38	41	2	3	1	2	8	58	36	33
April	10.6	3	42	118	65	12	8	32	29	39	2	1	1		12	26	48	30
May	14.4	5	61	86	81	15	39	20	8	23	50	18	2	1		13	14	45
June	14.6	1	56	87	83	13	25	26	17	18	9	2	3	3	10	29	47	38
July	13.8	1	40	139	40	28	9	8	6	2			2	1	26	38	50	78
August	14.3		65	99	64	20	13	13	45	12	3	3	1	1	5	19	63	50
September	10.5		22	92	85	41	23	17	25	4	9		1	1	3	19	49	48
October	17.0	3	81	112	38	14	7	8	71	7		1		1	15	29	48	47
November	13.0		30	115	77	18	3	10	37	12	3		2	4	12	56	54	29
December	11.1		16	100	125	7	13	9	46	9	5	4	1	2	6	49	52	45
Total	160.5	30	526	1236	934	194	158	158	369	203	97	35	18	29	161	456	543	499
Mean	13.4	3	44	103	78	16	13	13	31	17	8	3	1	2	13	38	45	42

Frequency Tables VI to IX for Deception Island, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VI — 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	4	3	1		1	1	2	3	2	19
2	3	3	1	1	2	1	3		5	8	10	8	45
3	1	1	9	4	5			3	5	12	16	8	64
4	2		8	5		1		1	2	9	9	5	42
5	2		4	6				2	5	13	2		34
6		1	4	6					6	5	1		23
7			2	7					2				11
≥ 8													
Totals	8	5	30	33	10	3	3	7	26	49	41	23	238

CALMS – 10

TABLE VII — 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		4
2	1	1	5				1			2	3	5	18
3		1	2	1	1				6	16	10	10	47
4	1	1	6	1	1			3	7	23	12	11	66
5		1	3	1				2	7	17	4	5	40
6	2		1						6	11	7	2	29
7									6	1	2		9
≥ 8									6	1	2		9
Totals	4	4	17	3	4		1	6	38	71	41	33	222

CALMS – 2

TABLE VIII — 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	2	4	10
2	2	1		2					1	4	5	5	20
3	1		2	5			1			14	17	9	49
4	1		9	6		1		1	3	23	10	13	67
5	2	2	12	9					2	8	2	2	39
6		3	11	9	1				2	5			31
7			2	3	1	1				3			10
≥ 8			2	6									8
Totals	6	6	38	41	2	3	1	2	8	58	36	33	234

CALMS – 14

TABLE IX — 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		3	1							1	1	7
2	1	5								4	3	1	14
3	3	6	4	5		1				8	14	3	44
4	1	5	6	11	1		1		6	12	16	8	67
5	2	7	8	11					3	2	10	8	51
6		7	6	8	1				3		3	8	36
7		2		3								1	6
≥ 8			2								1		3
Totals	8	32	29	39	2	1	1		12	26	48	30	228

CALMS – 12

Frequency Tables X to XIII for Deception Island, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — 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	4
2	4	3	2	3	2			1		4	2	8	29
3	11	7	2	3	1	2	1			2	6	13	48
4	22	8	1	4	4	1				1	4	20	65
5	2	1	1	4	3	5				2	2	1	21
6			2	7	21	8				3		1	42
7				2	14	2				1			19
V = 8					5								5
Totals	39	20	8	23	50	18	2	1		13	14	45	233

CALMS – 15

TABLE XI — 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						1	1	3	9
2	5	7	3	1	1	2	1		1	2	11	5	39
3	3	8		4			2	2		1	8	7	35
4	6	5	1	2	3			1	1	7	14	14	54
5	5	4		4	3				3	7	4	3	33
6	5	2		4	2				5	9	5	5	37
7	1		10	1						2	4	1	19
V = 8			1										1
Totals	25	26	17	18	9	2	3	3	10	29	47	38	227

CALMS – 13

TABLE XII — 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										4	2	7
2				1			1			2	7		11
3		1	1						1	4	3	12	22
4	2	2	1				1		4	14	25	41	90
5	4	3	1					1	6	12	8	14	49
6	2	2	2	1					8	6	3	9	33
7			1						6				7
V = 8									1				1
Totals	9	8	6	2			2	1	26	38	50	78	220

CALMS – 28

TABLE XIII — 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	2	1	2				2	1		11
2	1		2				1			1	9	6	20
3			5	4	2	1		1		3	12	5	33
4	3	4	6	3					2	7	15	15	55
5	1	4	10	2					2	4	12	9	44
6	6	5	21	1					1	2	13	13	62
7											1	2	3
V = 8													
Totals	13	13	45	12	3	3	1	1	5	19	63	50	228

CALMS – 20

Frequency Tables XIV to XVII for Deception Island, South Shetlands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — 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						2	3	9
2		1	2		4		1	1	1	4	8	4	26
3	1	2	1	2	1				1	6	21	15	50
4	6	5	5	1	1					6	15	19	58
5	9	6	6						1	2	3	7	34
6	7	3	9							1			20
7			2										2
≥ 8													
Totals	23	17	25	4	9		1	1	3	19	49	48	199

CALMS – 41

TABLE XV — 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				2		1			1		5	4	13
3		2		1					1	6	9	4	23
4	3	4	11	1					3	8	18	15	63
5	3	1	18						2	4	6	15	49
6	1	1	32	1					6	3	5	7	56
7			10	2				1	2	5	4	1	25
≥ 8										3			3
Totals	7	8	71	7		1		1	15	29	48	47	234

CALMS – 14

TABLE XVI — 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	3
2			1	3	1		1	3		3	5	2	19
3	1			1	1		1	1	4	10	24	12	55
4		3	15	1					1	19	24	11	74
5	2	7	8	2					4	16	1	1	41
6			7	2					3	8		1	21
7			6	3									9
≥ 8													
Totals	3	10	37	12	3		2	4	12	56	54	29	222

CALMS – 18

TABLE XVII — 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		1		1		3	4	2	14
2			5		1	2	1		1	9	5	5	29
3	5	4	3	4	4	1		1	3	16	28	13	82
4	4	1	8						2	17	14	24	70
5	3	2	18	2						3	1	1	30
6	1	2	7	2						1			13
7			3										3
≥ 8													
Totals	13	9	46	9	5	4	1	2	6	49	52	45	241

CALMS – 7

Frequency Table XVIII for Deception Island, South Shetlands, 1953.

BEAUFORT FORCE	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	ALL DIRECTIONS
1	4	1	10	12	10	5	1	4	1	9	20	22	99
2	17	21	21	13	11	6	10	5	10	43	73	53	283
3	26	32	29	34	15	5	5	8	21	98	168	111	552
4	51	38	77	35	10	3	2	6	31	146	176	196	771
5	35	38	89	41	6	5		5	35	90	55	66	465
6	24	26	102	41	25	8			40	54	37	46	403
7	1	2	36	21	15	3		1	16	12	11	5	123
=> 8			5	6	5				7	4	3		30
Totals	158	158	369	203	97	35	18	29	161	456	543	499	2726

CALMS 194.

Means and Extremes Table I for Argentine Islands, 1953.

MONTH	M. S. L. PRESSURE (mb.)					AIR TEMPERATURE (°F)													
	[1-2] Daily Mean	Extremes [3]				Mean at [1]								[1-2] Daily Mean	[1] Mean Daily		Extremes			
		High	Date	Low	Date	0200	0500	0800	1100	1400	1700	2000	2300		Max.	Min.	Max.	Date	Min.	Date
January	989.6	1005.5	31st	971.1	25th	28.2	28.4	29.7	30.8	31.2	31.0	30.2	28.7	29.8	33.7	26.8	40	16th, 30th	21	1, 29, 31
February	986.1	1000.5	27th	956.0	12th	25.5	24.9	25.9	27.5	28.1	28.3	27.1	26.2	26.7	31.1	22.5	40	4th	10	21st, 22nd
March	985.3	1010.3	11th	956.0	22nd	22.9	22.8	23.7	24.3	24.9	24.5	22.8	22.5	23.6	29.1	18.2	41	1st, 16th	03	26th
April	989.3	*1021.1*	*20th, 21st*	962.1	29th	9.2	9.7	9.3	11.5	12.4	11.5	9.9	9.4	10.4	18.2	1.8	35	7th	−16	21st
May	998.3	1019.6	4th	964.4	16th	8.2	8.1	8.1	8.5	8.4	7.5	7.5	7.6	8.0	15.7	−1.4	36	15th, 16th	−30	27th
June	980.6	1008.0	12th	*945.1*	*21st*	5.6	6.0	7.0	6.5	6.4	5.5	4.6	4.2	5.7	15.7	−4.3	32	14, 19, 25	−25	4th, 22nd
July	992.3	1016.2	2nd	964.1	25th	4.0	3.3	4.1	5.0	6.2	6.9	5.5	4.9	5.0	15.1	−5.1	37	24th, 25th	*−37*	*18th*
August	990.1	1019.5	30th	961.7	19th	15.6	12.7	13.3	13.6	15.2	14.9	15.5	15.3	14.5	24.0	3.5	37	11th	−15	19th, 22nd
September	999.7	1012.2	5th	973.8	2nd	16.3	16.3	16.9	19.4	19.9	18.1	16.8	17.0	17.6	24.1	10.9	41	27th	−13	17th
October	982.5	1010.4	24th	960.1	28th	18.7	18.5	20.3	22.5	23.9	23.1	20.1	18.7	20.7	28.2	12.0	36	15th	−20	7th
November	985.7	1010.6	6th	969.1	29th	24.6	25.0	26.8	28.7	29.2	28.4	27.4	26.4	27.1	31.9	22.1	40	26th	3	6th
December	991.3	1013.3	15th	974.9	1st	30.1	30.4	32.0	33.8	34.5	33.6	32.8	31.1	32.3	37.4	28.6	*50*	*25th*	20	6th
Total	11870.8	12147.2	—	11558.4	—	208.9	206.1	217.1	232.1	240.3	233.3	220.2	212.0	221.4	304.2	135.6	465	—	−99	—
Mean	989.2	1012.3	—	963.2	—	17.4	17.2	18.1	19.3	20.0	19.4	18.3	17.7	18.5	25.3	11.3	38.7	—	-8.3	—

Means and Extremes Table II for Argentine Islands, 1953.

MONTH	RELATIVE HUMIDITY %									CLOUD AMOUNT (oktas)									SUNSHINE			RAINFALL (mm.)[1]		
	MEAN AT [1]								1-2 DAILY MEAN.	MEAN AT [1]								1-2 DAILY MEAN	MEAN Daily		Mean Length of Day	TOTAL	MAX. FALL	DATE
	0200	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		*0200*	*0500*	*0800*	*1100*	*1400*	*1700*	*2000*	*2300*		REC.	EST.				
January	90	90	87	87	86	89	89	92	89	6.9	7.3	7.0	6.7	6.6	6.8	6.7	6.9	6.9	3.3	3.3	20.1	7.1	2.3	25th
February	90	91	89	85	84	87	89	90	88	7.2	6.9	6.3	6.6	6.6	6.7	7.0	6.6	6.7	2.8	3.1	16.3	56.3	15.8	11th
March	88	90	88	89	87	88	90	89	89	6.3	6.6	7.0	6.8	6.8	6.6	6.2	5.9	6.5	2.1	2.5	12.8		5.0	1st
April	86	86	85	86	86	86	85	86	86	4.9	4.8	5.6	5.7	5.6	5.6	4.5	5.0	5.2	2.2	2.6	9.4			
May	88	87	88	88	87	88	87	88	88	4.8	4.2	5.2	5.4	5.1	5.4	4.3	4.5	4.9	0.7	0.9	6.0			
June	83	86	82	85	83	84	84	82	84	5.8	6.2	6.5	6.8	6.9	5.7	4.9	5.5	6.0	0.1	*0.1	3.7			
July	83	85	84	84	84	85	84	82	84	4.5	4.6	5.7	5.9	5.5	5.1	4.6	4.4	5.0	0.6	0.8	4.9	Unreliable	Unreliable	Unreliable
August	87	87	88	86	86	87	85	88	87	6.1	5.7	6.7	6.9	7.0	6.6	6.6	6.1	6.5	0.9	1.1	8.1			
September	89	88	86	86	88	89	88	87	88	5.4	5.6	6.3	6.0	6.9	6.4	5.4	5.7	6.0	1.9	2.2	11.4			
October	91	89	88	88	87	89	89	90	89	6.9	7.3	7.0	6.7	6.5	6.7	7.1	6.6	6.9	2.4	2.7	14.4			
November	93	93	91	90	89	90	90	92	91	7.0	7.4	7.3	7.3	7.3	7.3	7.4	7.2	7.3	2.0	2.0	18.5			
December	93	94	91	88	85	89	91	93	91	7.0	6.5	6.7	6.8	7.0	7.2	6.8	6.9	6.9	3.3	3.4	22.1			
Total	1061	1066	1047	1042	1032	1051	1051	1059	1054	72.8	73.1	77.3	77.6	77.8	76.1	71.5	71.3	74.8	22.3	24.7	147.7	—	—	—
Mean	88	89	87	87	86	87	87	88	88	6.1	6.1	6.4	6.5	6.5	6.3	6.0	5.9	6.2	1.9	2.1	12.3	—	—	—

* Recorded value, estimate not made.

Frequency Table I for Argentine Islands. 1953.

MONTH	M.S.L. PRESSURE : Number of observations, at all hours, in 5mb. ranges.																			
	935.0 to 939.9	*940.0 to 944.9*	*945.0 to 949.9*	*950.0 to 954.9*	*955.0 to 959.9*	*960.0 to 964.9*	*965.0 to 969.9*	*970.0 to 974.9*	*975.0 to 979.9*	*980.0 to 984.9*	*985.0 to 989.9*	*990.0 to 994.9*	*995.0 to 999.9*	*1000.0 to 1004.9*	*1005.0 to 1009.9*	*1010.0 to 1014.9*	*1015.0 to 1019.9*	*1020.0 to 1024.9*	*1025.0 to 1029.9*	*1030.0 to 1034.9*	*1035.0 to 1039.9*
January								9	13	30	59	87	38	7	5						
February					6	1	2	5	22	59	57	49	22	1							
March					13	7	7	28	12	40	44	54	23	7	10	3					
April						9	15	20	22	41	29	39	8	10	10	9	18	10			
May						1	4	3	13	12	24	38	25	30	83	6	9				
June			5	2	12	11	29	29	32	22	37	21	16	17	7						
July						4	17	12	22	21	13	29	47	43	21	14	5				
August						4	14	21	24	34	34	31	22	19	15	21	9				
September								2	12	8	9	35	27	65	76	6					
October						14	20	43	32	49	26	17	20	17	8	2					
November							3	27	51	38	44	44	14	4	10	5					
December								1	33	54	31	41	40	14	19	15					
Year			5	2	31	51	111	200	288	408	407	485	302	234	264	81	41	10			

Frequency Table II for Argentine Islands, 1953.

TEMPERATURE: Number of observations at all hours, in 2°F ranges :—

MONTH	Negative Ranges																			Positive Ranges																															
	-41	-39	-37	-35	-33	-31	-29	-27	-25	-23	-21	-19	-17	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59
January														1	7	4	9	5	19	4	10	11	12	8	11	15	14	14	8	14	10	10	11	10	9	9	12	3														
February																											1	3	4	14	15	9	22	21	33	19	28	39	12	2	2												
March																								1	6	7	17	10	10	16	20	15	15	21	12	24	21	36	9	6	2											
April														1	7	4	9	5	19	4	10	11	12	8	11	15	14	14	8	14	10	10	11	10	9	9	12	3														
May							1	4	1	3	4	3		5	2	4	6	12	12	12	19	11	9	7	3	7	11	4	22	14	26	7	5	7	6	11	6	6														
June									1	7	8	5	7	5	8	3	4	11	12	15	3	4	19	2	9	9	8	13	12	13	11	15	9	5	11	2	5	1														
July				2	1	3	5	1	3	1	1	2	14	15	12	13	13	8	8	3	8	9	13	5	7	4	5	5	5	4	4	2	5	5	5	10	27	18	2												
August														1	5	7	8	12	8	12	5	7	6	9	15	10	10	6	10	2	6	4	9	10	9	17	34	24	2	1												
September																	11	7	7	6	8	12	12	15	4	10	11	6	5	5	7	6	12	22	15	23	19	12	5	1											
October													1	1		2	3	1	1	1	1	1	6		8	4	4	13	15	12	15	20	26	29	25	21	29	7	2											
November																							1	2		2	4	3	4	13	4	13	10	25	30	27	41	41	16	4										
December																															1	3	2	3	15	28	57	74	33	18	8	3	3							
Year				2	1	3	6	5	5	11	13	10	22	28	34	33	43	60	67	54	52	51	78	46	74	62	84	82	96	107	117	106	128	168	220	237	346	307	101	45	14	3	3							

DAILY EXTREMES.

Maximum									1				1	1	2	2	2	1	2	5	4	4	7	9	4	7	7	8	6	4	13	18	11	11	22	29	34	60	33	34	14	8	2	1			1				
Minimum			2			1	2		8		4	6	5	10	13	11	13	6	6	10	3	7	9	11	16	6	10	12	18	11	24	16	10	18	26	30	28	15											

Frequency Table III for Argentine Islands, 1953.

Number of observations, at all hours, of :-

MONTH	VISIBILITY[5]										LOW CLOUD AMOUNTS (oktas)						CLOUD HEIGHTS[6] (metres)														No Cloud	Traces Disregarded[6]
																	All Amounts									7-8 Oktas									
	< 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	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	0	0	6	11	3	2	31	29	33	133	15	39	19	46	113	16	16	2	5	73	48	(14) 34	(29) 47	15	7	16	1	4	53	20	(12) 12	(28) 20	6	2	1	8
February	0	0	0	8	10	11	41	23	30	101	27	30	17	33	111	6	6	0	4	(1) 69	(7) 48	(15) 32	(21) 34	22	7	6	0	4	(1) 46	(7) 20	(14) 6	(17) 20	10	0	2	4
March	0	0	2	15	8	2	22	15	33	151	33	44	10	34	118	9	9	2	6	32	(2) 69	(8) 43	(15) 43	34	9	9	1	2	25	(1) 50	(7) 17	(15) 27	8	0	1	11
April	0	0	4	12	9	3	35	2	7	168	113	19	9	13	78	8	8	0	1	21	42	(2) 42	13	57	25	8	0	0	20	33	(2) 26	6	16	1	31	0
May	0	1	5	33	7	3	39	7	12	141	116	11	16	10	88	7	7	0	0	13	42	(3) 41	28	49	19	7	0	0	9	32	(3) 33	19	12	3	49	1
June	0	15	4	30	7	3	31	10	33	107	84	10	6	16	96	28	28	0	3	8	50	(2) 56	(1) 11	48	6	28	0	2	8	43	(2) 43	8	15	1	30	0
July	0	0	11	21	12	0	26	8	18	152	122	5	5	12	81	23	23	0	0	14	33	(2) 27	29	48	16	23	0	0	13	28	(2) 25	26	14	1	58	0
August	0	5	16	27	9	7	27	7	11	139	72	7	10	18	104	37	37	0	0	24	50	(1) 39	(2) 26	37	9	37	0	0	21	42	(1) 30	(1) 23	18	2	26	0
September	0	2	0	35	9	1	59	23	24	87	72	8	10	15	122	13	13	0	1	(1) 28	(1) 59	(2) 46	(2) 21	34	11	13	0	0	(1) 22	(1) 52	(2) 39	(2) 13	7	1	27	0
October	0	3	6	19	11	3	33	3	23	147	55	15	9	31	123	15	15	0	2	26	51	(4) 43	(5) 54	42	7	15	0	2	25	37	(3) 37	(4) 40	14	1	8	2
November	0	4	2	14	10	4	57	12	33	104	27	27	14	26	137	9	9	0	2	44	(1) 56	(11) 59	(11) 36	28	2	9	0	1	38	(1) 40	(11) 32	(9) 25	20	1	4	7
December	0	4	1	15	2	2	44	15	42	123	55	34	7	28	111	13	13	0	8	(1) 33	(3) 46	(16) 41	(17) 41	60	4	13	0	5	(1) 26	(3) 24	(15) 19	(17) 28	27	1	2	11
Total	0	34	57	240	97	41	445	154	299	1553	791	249	132	282	1282	184	184	4	32	(3) 385	(14) 594	(80) 503	(103) 383	474	122	184	2	20	(3) 306	(13) 421	(74) 319	(93) 255	167	14	239	44
Mean	0	3	5	20	8	3	37	13	25	129	66	21	11	23	107	15	15	—	3	32	(1) 49	(7) 42	(9) 32	39	10	15	—	2	25	(1) 35	(9) 27	(8) 21	14	1	20	4

Frequency Table IV for Argentine Islands, 1953.

WEATHER: No. of Days [1]

MONTH	TEMPERATURE [7]				PRECIPITATION [1]			8	8	9 & 17	9	9	9 & 17	9	10	10	11	12	13	9 & 14	9 & 17 FOG		9 & 16 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					9	2		2		1	15	2	(3) 6		23	1				1	7				3
February					17	14	2	4		4	21	7	(1) 6		19	1			6	2	2	7	1		2
March	1				18	3		4	2	3	20	5	(1) 6		21				7	2	6	2		1	1
April		6	11		14	4		2	1		14	1	2		11	1			8		4	3			
May		7	17		13	6		1			13		(1) 3		13	6			3		15	2			
June		9	13		22	13		12	3		21		(1) 2		15				16		7	13			
July		10	20		21	14		7	2	1	19	4	6		13	5	Not recorded	Not recorded	13	1	5	13			
August		3	11		22	14	3	15	3		22	4	6		22	2			15		8	10			
September			8		21	14	7	4		4	20	3	4		18	1			3		9	6			
October		1	3		20	10	3	7			20	1	5		22				13		4	6			
November					29	28	4	2		3	26	5	7		24				6	1	6	8			3
December	6			4	24	20	2	6		9	17	3	2		23				1	2	10	2			2
Total	7	36	83	4	230	142	21	66	11	25	228	35	(7) 55		224	17			91	9	83	72	1	1	11
Mean	—	—	—	—	19	12	2	5	1	2	19	3	(1) 5		19	1			8	1	7	6	—	—	1

Frequency Table V for Argentine Islands, 1953.

MONTH	2 MEAN WIND SPEED	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	5.5		3	26	176	43	27	22	3	4	5	19	49	34	23	5	5	9
February	8.3		9	62	122	31	34	44	7	2	2	8	32	32	20	5	1	6
March	7.5	2	7	43	159	37	20	39	7	2	4	20	54	26	21	10	4	4
April	5.9	2	7	21	182	28	7	22	6	3	5	34	74	38	9	7	3	4
May	4.0		1	19	184	44	18	13	4	2	7	42	69	20	12	9	4	4
June	9.1	5	22	46	143	24	34	38	1	4	12	21	38	17	15	11	14	11
July	8.1	2	20	48	146	32	30	32	7	2	5	15	65	22	13	9	9	7
August	11.8	6	48	48	121	25	30	47	13	1	10	25	44	15	12	12	6	8
September	6.0		7	38	169	26	23	30	8	7	9	38	39	21	16	7	7	9
October	8.5		25	39	168	16	13	33	5	3	8	44	55	18	20	11	5	8
November	6.6		3	38	185	14	42	22	12	5	14	26	35	17	27	11	8	7
December	6.9		13	33	188	14	52	23	7	6	3	33	53	16	13	8	12	8
Total	88.2	17	165	461	1943	334	330	365	80	41	84	325	607	276	210	105	78	85
Mean	7.3	1	14	38	162	28	27	30	7	3	7	27	51	23	17	9	7	7

Frequency Tables VI to IX for Argentine Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE VI — JANUARY.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	2	3	1	2	5	7	9	7	3	3	6	52
2	3	8		3	1	5	20	17	10	1	1	3	72
3	8	1				5	22	8	6	1	1		52
4	11	7			1	1							20
5	1	3				2							6
6		1			1	1							3
7													
≥ 8													
Totals	27	22	3	4	5	19	49	34	23	5	5	9	205

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TABLE VII — 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	1	1	3	4	5	2	2	1	1	25
2	4	1	3	1	1	1	15	15	6	2		3	52
3	8	5	2			4	8	9	7	1		1	45
4	15	19					5	2	2			1	44
5	4	9	1					1	3				18
6	1	3											4
7		5											5
≥ 8													
Totals	34	44	7	2	2	8	32	32	20	5	1	6	193

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TABLE VIII — MARCH.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	4	1		1	1	2	9	8	1	5	1	1	34
2	1	2	2		2	11	18	12	10	1	2	1	62
3	1	8	2	1	1	6	25	6	9	3		1	63
4	10	8				1	2		1	1	1	1	25
5	3	14	1										18
6	1	4											5
7		2											2
≥ 8			2										2
Totals	20	39	7	2	4	20	54	26	21	10	4	4	211

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TABLE IX — 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	3	1	1	1	17	23	14	5	1	3	2	72
2		1	4		3	13	26	13	2	5			67
3	1	4	1	1	1	4	18	10	2	1			43
4	2	3		1			7	1				1	15
5	2	3										1	6
6	1	4											5
7		2											2
≥ 8		2											2
Totals	7	22	6	3	5	34	74	38	9	7	3	4	212

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Frequency Tables X to XIII for Argentine Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE X — 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	5	3	1	1	3	26	34	7	11	7	2	1	101
2	6	1	1	1	4	14	18	7	1	2	2	1	58
3	2	2	1			2	13	5					25
4	4	3	1				4	1				1	14
5	1	3										1	5
6		1											1
7													
≥ 8													
Totals	18	13	4	2	7	42	69	20	12	9	4	4	204

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TABLE XI — 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	6	4			4	8	14	8	8	4	2	3	61
2	4	7		3	6	2	8	4	3	4	1	3	45
3	2	4				7	9	4	2	2	4	3	37
4	11	5		1		2	7		1		2		29
5	3	5	1		2	1		1	1	1	2		17
6	3	6				1							10
7	3	5									2	2	12
≥ 8	2	2									1		5
Totals	34	38	1	4	12	21	38	17	15	11	14	11	216

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TABLE XII — 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	2	1	1	2	7	24	10	7	4	3	1	65
2		2	1	1	3	4	12	5	2	2	2	1	35
3	4	1	2			4	20	7	4	1	2	1	46
4	13	9	1				8			1		2	34
5	5	3	1				1			1	2	1	14
6	3	13	1										17
7	1	1										1	3
≥ 8	1	1											2
Totals	30	32	7	2	5	15	65	22	13	9	9	7	216

CALMS – 32

TABLE XIII — 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	1	6	7	11	5	5	3	2	1	47
2		1	2		4	10	11	6	3	2			39
3		1	1			7	18	2	3	3			35
4	2	5				1	3	1	1	2	1	1	17
5	10	10	3				1	1		1	1	4	31
6	10	15									2	2	29
7	5	9	4							1			19
≥ 8	1	3	2										6
Totals	30	47	13	1	10	25	44	15	12	12	6	8	223

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Frequency Tables XIV to XVII for Argentine Islands, 1953.

WIND FORCES IN TWELVE 30° SECTORS

TABLE XIV — 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	7	2	5	8	17	12	9	7	5	2	4	83
2	2	1	3			15	11	10	6	1	2	2	53
3	2	1	1	2		6	12	1	3	1	2	2	33
4	7	9	1		1		4	1				1	24
5	4	9									1		14
6	2	3	1										6
7	1												1
≥ 8													
Totals	23	30	8	7	9	38	39	21	16	7	7	9	214

CALMS – 26

TABLE XV — OCTOBER.

BEAUFORT FORCE	350 to 10	20 to 40	50 to 70	80 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	ALL DIR.
1	3	3	1	3	2	14	17	5	7		2	1	58
2	1	4	1		4	17	17	2	6	4	1	4	61
3			1		2	8	17	8	6	3	2	2	49
4	1	2	1			3	3	3	9	3		1	26
5	4	4				2	1		1	1			13
6	1	14	1										16
7	3	6											9
≥ 8													
Totals	13	33	5	3	8	44	55	18	29	11	5	8	232

CALMS – 16

TABLE XVI — 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	6	2	3	4	9	8	11	8	4	4	3	65
2	8	3	5	2	6	12	11	4	7	4	2	2	66
3	13	5	1		2	4	12	2	9	3	2	1	54
4	12	4			2	1	3		1			1	24
5	5	4	2				1		2				14
6	1		1										2
7			1										1
≥ 8													
Totals	42	22	12	5	14	26	35	17	27	11	8	7	226

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TABLE XVII — 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	7	5	2	5	2	14	19	8	6	4	4	2	78
2	9	1	1	1	1	13	22	6	4	4	7		69
3	11	3	2			5	12	2	3		1	2	41
4	9	6				1						3	19
5	7	6										1	14
6	8	2	1										11
7	1		1										2
≥ 8													
Totals	52	23	7	6	3	33	53	16	13	8	12	8	234

CALMS – 14

Frequency Table XVIII for Argentine Islands, 1953.

Beaufort Force	WIND FORCES IN TWELVE 30° SECTORS : No. of observations, at all hours, annually												
	350 to 10	*20 to 40*	*50 to 70*	*80 to 100*	*110 to 130*	*140 to 160*	*170 to 190*	*200 to 220*	*230 to 250*	*260 to 280*	*290 to 310*	*320 to 340*	All Directions
1	45	41	15	23	36	129	182	99	74	42	29	26	741
2	38	32	23	12	35	117	189	101	60	32	20	20	679
3	52	35	14	4	6	62	186	64	54	19	14	13	523
4	97	80	4	2	4	10	46	9	15	7	4	13	291
5	49	73	9		2	5	4	3	7	4	6	8	170
6	31	66	5		1	2					2	2	109
7	14	30	6							1	2	3	56
=> 8	4	8	4								1		17
Totals	330	365	80	41	84	325	607	276	210	105	78	85	2586

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Index to Tables and Pages

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