CLIMATOLOGICAL SUMMARY FOR 1973

By D. W. S. LIMBERT

THE annual mean sea-level pressure at each station was approximately 2 mbar below the average for the previous 10 years, 1963–72, except at Signy Island where the mean annual pressure was only 1·2 mbar lower than usual. The greater part of the pressure deficit at all stations was a result of the large negative pressure anomalies that occurred in April. The April anomalies from the 1963–72 average were:

South Georgia	−6 mbar (lowest since 1964).
Signy Island	−9 mbar (lowest since records began in 1947).
Argentine Islands	−11 mbar (lowest since continuous records began in 1947).*
Adelaide Island	−11 mbar (lowest since 1962, probably since 1947 in lat. 68° S.).
Halley Bay	−6 mbar (lowest since 1966).

All the extreme minimum pressures for the year occurred within a 7 week period in autumn:

South Georgia	959·6 mbar (3 May)
Signy Island	941·1 mbar (11 April)
Argentine Islands	940·9 mbar (5 April)
Adelaide Island	941·4 mbar (5 April)
Halley Bay	946·7 mbar (15 March)

The one at Halley Bay was the second lowest annual pressure on record for that station and the one for Signy Island was the lowest so far.† The individual extreme high pressures were not exceptional.

The cyclonic activity of March and April had little discernible effect on monthly mean temperatures. The two Antarctic Peninsula stations, Argentine Islands and Adelaide Island, recorded annual temperatures below the 1971 and 1972 peak years, but they were still about a degree warmer than the 1947–72 average, whilst the Signy Island temperature was the same as in 1972. The Antarctic Peninsula stations had mild Augusts but, for the second year in succession, Signy Island recorded a cold June, 5° C below average. At Halley Bay, the three winter months were persistently cold with an average temperature of −32·8° C but, because of a warm January and the warmest November on record, the resultant annual temperature was similar to that for 1972 and only a half degree colder than average. Temperatures at South Georgia were about average.

The winter wind speed at South Georgia was below average and a large number of calms was reported. Wind speeds were also low in spring. At Signy Island, the cyclonic activity of March and April produced a 30 per cent increase of westerly winds with gales on 13 and 12 days, respectively. There was a corresponding reduction in southerly and easterly winds. For the same 2 months the Antarctic Peninsula stations recorded higher than usual wind speeds. In summer and autumn there were twice the usual number of northerlies at the Argentine Islands and a corresponding reduction in the number of calms. In contrast, at Adelaide Island there was double the number of westerlies in summer at the expense of the northerly winds. In winter, however, there was a high frequency of northerlies at Adelaide and a corresponding reduction in westerlies.‡ The mean wind speed for the 4 months July–October was 17·5 kt with an average of 12 gale days/month. At Halley Bay, persistent moderate to strong east winds produced the highest mean wind speed for November (17·0 kt).

The effect of the passage of depressions in March and April is seen in the general cloudiness for those months. Adelaide Island suffered 29 cloudy days in April with only 10 per cent

* Lower mean pressures have been recorded in other months. The lowest recorded mean was 973·9 mbar in March 1935 (British Graham Land Expedition) when pressures were also very low at Laurie Island.

† The lowest pressures recorded at each station are as follows: South Georgia 932·0 mbar (25 February 1966), Signy Island 941·1 mbar (11 April 1973), Argentine Islands 931·6 mbar (28 September 1959), Adelaide Island 936·8 mbar (16 September 1962), Halley Bay 940·4 mbar (14 October 1961).

‡ Because of the topography, the dominant wind direction at Adelaide Island is north or north-east.

of possible sunshine, and Signy Island had its lowest March sunshine (only 5 per cent of possible). However, there were redeeming features at other times. South Georgia had its sunniest September (58 per cent of possible), Signy Island its sunniest February (with only 23 per cent of possible), and the Argentine Islands and Adelaide Island the sunniest Januarys with 46 and 37 per cent sunshine, respectively. South Georgia experienced the second wettest May (347 mm.) since 1906* of which 90·5 mm. fell on 27 May.

Station Notes for 1973

South Georgia

1. Shading cuts out about 1½ hr. of possible sunshine each day in the months October–March but this rapidly increases at the equinoxes to almost total shading in June.
2. The maximum snow depth was recorded on 11 July.
3. There was one occasion with wind speed missing in summer.

Signy Island

1. One full synoptic observation is made at 09.00 hr. zone time (12.00 GMT). Data in parentheses in the following tables, total cloud amount, humidity and the frequency of weather types are based on these single daily observations.
2. The loss of sunshine due to shading varies from about 2½ hr./day in summer to about 1½ hr. in winter.
3. There were three occasions with wind speed missing in summer, three in winter and one in spring.
4. Mixed snow accumulation and rainfall is given as water equivalent as calculated at the station. The reliability of these data is not known. The snow-accumulation stakes were on Orwell Glacier, 150 ft [45 m.] above M.S.L. Measurements did not start until 10 May and maximum depth occurred on 25 September. NR signifies "not reported".

Argentine Islands

1. The loss of sunshine due to shading varies from about 2 hr./day in summer to ½ hr. in winter.
2. Datum for net snow depth is 7 April. No records were kept before that date. Maximum depth was measured on 8 and 9 November.

Adelaide Island

1. There was almost complete shading in June and negligible shading in December. The remainder of the year averages about 1½ hr. shading/day.
2. Rainfall or snow water-equivalent data are not available. Maximum snow depth was recorded on 11 September.

Halley Bay

1. Reference point for all net snow-depth measurements is 1 January. An estimate of the gross water equivalent of precipitation is based on daily measurements of snow depth and density. The maximum snow depth occurred on 8 December.
2. The exposure of the sunshine recorder is excellent. Any losses are inherent to the type of instrument in use.

MS. received 3 February 1976

* 534 mm. was recorded in May 1970.

CLIMATOLOGICAL SUMMARY FOR 1973
SOUTH GEORGIA (88903) lat. 54°16′S., long. 36°30′W.
ZONE TIME = GMT −2 hr. STATION LEVEL 4 m. a.s.l. ANEMOMETER at 10 m.

MONTH	M.S.L. PRESSURE (mbar)			AIR TEMPERATURE (°C)					WIND SPEED				ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS										
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed	Hourly Record			Number of observations		Seasonal frequency of wind direction and speed[3]								
		Highest	Lowest		Max.	Min.	Max.	Min.	kt	Highest Mean deg./kt	Highest Gust deg./kt		≥34 kt	Calm	Speed kt	North	East	South	West	Variable	Total	Season
December of the previous year									6.9	250	37	240 71	1	39	1-10	126	186	22	56	31	421	
															11-21	52	11	1	101		165	Summer
															22-33	3			11		14	Dec., Jan., Feb.
															≥34							
January	988.4	1008.3	961.6	4.3	8.2	1.7	14.6	-1.6	7.9	320	25	320 59	0	35	Total	181	197	23	168	31	600	
February	992.4	1019.8	960.0	3.8	7.7	1.2	16.1	-1.2	6.0	280	22	320 45	0	45								
March	1000.1	1021.6	975.5	6.6	10.6	3.0	18.7	-0.2	11.0	250	32	260 63	0	29	1-10	74	48	9	57	40	228	
April	989.5	1013.4	966.8	2.7	6.3	-0.1	13.2	-4.5	8.1	230	28	270) 280)	60	0	55	11-21	145	10	2	150		307	Autumn
															22-33	10		1	31		42	Mar., Apr., May
May	990.8	1013.0	959.6	0.6	3.9	-2.7	13.3	-7.8	8.2	-	34	- 59	0	75	≥34							
June	994.7	1016.9	966.7	-1.7	1.6	-4.2	12.1	-8.2	5.9	130	32	240 65	0	90	Total	229	58	12	238	40	577	
July	1004.4	1026.7	961.4	-1.9	2.1	-4.7	10.0	-9.8	6.1	290	37	270 82	1	86	1-10	65	24	12	72	75	248	
August	993.1	1018.9	965.5	0.5	3.7	-2.4	8.2	-8.2	7.5	260	26	260 53	0	72	11-21	112	11	5	88		216	Winter
															22-33	2	1	3	17		23	Jun., Jul., Aug.
September	998.2	1019.5	966.7	0.8	4.6	-2.7	13.9	-8.6	8.1	320	27	240) 330)	47	0	32	≥34		1			1	
October	1003.0	1018.7	965.9	2.3	6.2	-0.5	11.5	-6.8	5.8	280	25	350 55	0	77	Total	179	37	20	177	75	488	
November	993.0	1014.2	961.1	3.2	7.0	-0.4	15.2	-3.5	6.9	110	28	350 51	0	41	1-10	114	72	5	65	103	359	
December	990.5	1012.3	964.1	4.8	9.3	1.7	17.6	-1.2	8.8	280	25	270 65	0	40	11-21	109	16	3	75		203	Spring
															22-33	4	2		10		16	Sep., Oct., Nov.
YEAR	994.9	1026.7	959.6	2.2	5.9	-0.8	18.7	-9.8	7.5	290	37	270 82	1	677	≥34 Total	227	90	8	150	103	578	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE[1]		PRECIPITATION[2]		WEATHER—NUMBER OF DAYS WITH:										
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	Percentage observations 0–2 Oktas	Percentage observations 6–8 Oktas	Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms: Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.	Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visibility below 1,000 m.	Gale	Cloudy skies	Clear skies
January	5.9	72	6.1	6.4	68.1	153.7	32.9	0	86	18	16		6				2		17	
February	6.0	75	5.9	14.3	66.5	116.6	31.3	0	75	17	16		11				3		16	1
March	6.3	66	5.6	15.3	60.5	135.2	41.2	0	89	27	7		3					1	9	
April	5.8	78	6.4	10.8	73.7	44.1	23.0	0	203	16	19		3				3		21	
May	5.0	80	6.2	10.9	71.0	22.7	21.8	18	347	13	23		1	8	3	1	9	1	20	
June	4.4	81	5.5	20.8	59.2	-	-	40	121	8	21		1	8	2	2	3	2	18	3
July	4.1	77	4.5	32.3	44.4	22.6	50.2	12	42	3	13			9	4	2	3	3	10	4
August	5.0	80	5.7	18.5	63.3	55.7	33.2	10	297	15	20			7	5	3	5		17	1
September	4.5	70	4.7	31.3	47.9	156.1	56.2	0	44	9	15			2	1	1	1		9	2
October	5.5	77	6.2	12.1	71.8	128.3	33.6	0	116	18	16			2	1	1	4		19	
November	5.2	70	5.0	25.8	49.2	197.5	45.7	0	63	10	10		2						13	3
December	5.7	69	6.2	8.5	70.2	151.0	31.4	0	135	24	12		2	1	1	1	2		19	
YEAR	5.3	75	5.7	17.2	62.2	1183.5	36.4	66MAX	1618	178	188	NIL	29	37	17	11	35	7	188	14

CLIMATOLOGICAL SUMMARY FOR 1973
SIGNY ISLAND (88925) lat. 60°43′S., long. 45°36′W.
ZONE TIME = GMT −3 hr. STATION LEVEL 12 m. a.s.l. ANEMOMETER at 10 m.

MONTH	M.S.L. PRESSURE (mbar)			AIR TEMPERATURE (°C)					WIND SPEED			ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS	
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed	Hourly Record Highest		Number of observations	
		Highest	Lowest		Max.	Min.	Max.	Min.	kt	Mean deg./kt	Gust deg./kt	⩾34 kt	Calm
December of the previous year									12.6	270 41	270 72	2	5
January	988.7	1003.2	964.6	−0.5	+1.1	−1.7	+5.7	−4.5	9.0	120 32	220 55	0	32
February	988.2	1007.7	962.2	+1.0	+3.1	−0.4	+4.6	−3.4	13.0	290 45	290 62	5	17
March	986.5	1008.2	944.4	+0.6	+3.3	−1.1	+10.4	−6.8	20.2	270 42	240 73	26	3
April	982.2	1009.0	941.1	−3.5	−0.2	−6.2	+5.2	−21.8	15.9	230 47	230 98	15	12
May	990.8	1006.6	968.8	−10.5	−6.6	−14.6	+4.8	−29.4	8.8	230 40	230 67	4	60
June	998.1	1017.4	965.4	−13.0	−7.8	−19.0	+5.3	−29.0	6.5	290 30	330 56	0	76
July	1002.6	1028.4	976.7	−9.8	−6.4	−14.6	+6.7	−30.4	10.8	260 39	260 51	1	44
August	990.8	1011.4	965.0	−8.3	−4.1	−13.0	+3.8	−26.4	11.6	290 40	260 57	11	56
September	992.9	1026.1	962.3	−7.5	−3.3	−12.9	+6.3	−26.6	12.4	330 39	330 56	4	32
October	996.6	1015.5	972.7	−1.2	+1.8	−3.7	+4.5	−14.6	14.7	290 39	290 55	3	11
November	992.5	1013.0	974.6	−1.2	+0.9	−2.9	+4.9	−9.1	10.1	290 43	290 59	4	35
December	987.1	1003.5	974.9	+0.5	+2.7	−0.9	+6.5	−4.8	9.1	300 36	280 58	0	31
YEAR	991.5	1028.4	941.1	−4.5	−1.3	−7.6	+10.4	−30.4	11.8	230 47	230 98	71	404

ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS — Seasonal frequency of wind direction and speed[3]

Season	Speed kt	North	East	South	West	Variable	Total
Summer Dec., Jan., Feb.	1-10	27	113	58	109	12	319
	11-21	24	54	9	151	5	243
	22-33	7	10	4	72	1	94
	⩾34				7		7
	Total	58	177	71	339	18	663
Autumn Mar., Apr., May	1-10	13	39	48	118	12	230
	11-21	23	20	16	143	4	206
	22-33	15	15	4	146		180
	⩾34	4	2	1	38		45
	Total	55	76	69	445	16	661
Winter Jun., Jul., Aug.	1-10	16	40	54	141	24	275
	11-21	12	7	13	149		181
	22-33	2	12	1	72	2	89
	⩾34		5		7		12
	Total	30	64	68	369	26	557
Spring Sep., Oct., Nov.	1-10	14	50	42	127	31	264
	11-21	11	19	8	209	4	251
	22-33	8	2	1	111	1	123
	⩾34	2			9		11
	Total	35	71	51	456	36	649

MONTH	HUMIDITY[1]		TOTAL CLOUD AMOUNT[1]			SUNSHINE[2]		PRECIPITATION[4]		WEATHER—NUMBER OF DAYS WITH:[1]								
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	Percentage observations 0 – 2 Oktas	6 – 8 Oktas	Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms: Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.	Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visibility below 1,000 m.	Gale	Cloudy skies	Clear skies
January	(5.2)	(85)	(7.6)	(0.0)	(96.8)	49.6	10.4	NR	117	(2)	(16)					(1)	(2)	1		
February	(5.6)	(83)	(7.2)	(0.0)	(89.3)	82.5	22.7	NR	55	(2)	(9)							3		
March	(5.5)	(85)	(7.8)	(0.0)	(90.3)	16.4	5.0	NR	88	(7)	(6)				(1)		(1)	13		
April	(4.5)	(86)	(7.4)	(0.0)	(96.7)	22.3	9.2	NR	155	(2)	(16)			(1)	(1)		(2)	12		
May	(2.6)	(85)	(6.6)	(0.0)	(71.0)	29.2	16.5	−2	31	(1)	(7)				(2)	(1)	(1)	4		
June	(2.1)	(78)	(6.2)	(3.3)	(66.7)	11.1	9.1	+13	41		(9)					(3)	(6)	0		
July	(2.9)	(84)	(6.9)	(0.0)	(83.9)	18.4	11.9	+21	14	(2)	(5)				(1)	(2)	(4)	2		
August	(3.3)	(86)	(6.5)	(6.5)	(71.0)	41.4	18.6	+37	61	(1)	(10)			(2)	(2)		(1)	8		
September	(3.4)	(84)	(6.4)	(3.3)	(70.0)	70.8	23.1	+43	81		(11)			(1)	(3)			7		
October	(5.3)	(91)	(6.6)	(0.0)	(74.2)	69.6	17.6	+39	46	(3)	(11)			(1)				3		
November	(5.0)	(88)	(6.9)	(0.0)	(80.0)	84.4	19.0	+34	38	(1)	(10)					(1)	(1)	4		
December	(5.6)	(89)	(7.5)	(0.0)	(87.1)	58.3	11.4	NR	48	(4)	(12)							2		
YEAR	(4.3)	(85)	(7.0)	(1.1)	(81.4)	554.0	14.8	MAX 45	775	(25)	(122)	(NIL)	(NIL)	(5)	(10)	(8)	(18)	59		

CLIMATOLOGICAL SUMMARY FOR 1973
ARGENTINE ISLANDS (88952) lat. 65°15′S., long. 64°16′W.
ZONE TIME = GMT −4 hr. STATION LEVEL 10 m. a.s.l. ANEMOMETER at 10 m.

MONTH	M.S.L. PRESSURE (mbar)			AIR TEMPERATURE (°C)					WIND SPEED			ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS		Seasonal frequency of wind direction and speed							
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed	Hourly Record Highest		Number of observations		Speed	North	East	South	West	Variable	Total	Season
		Highest	Lowest		Max.	Min.	Max.	Min.	kt	Mean deg./kt	Gust deg./kt	≥34 kt	Calm	kt							
December of the previous year									7.7	060 27	060 40	0	42	1-10	104	58	185	35	1	383	
														11-21	108	17	11	8		144	Summer
														22-33	11	5	1			17	Dec., Jan., Feb.
														≥34							
January	992.8	1003.1	979.3	0.2	2.4	-1.9	4.1	-4.8	3.9	130 29	140 59	0	83	Total	223	80	197	43	1	544	
February	985.3	1002.3	964.0	1.0	3.0	-0.8	4.7	-3.2	6.6	030 30	030 42	0	51								
March	981.1	1003.9	960.8	-0.6	1.0	-2.1	4.9	-6.2	10.0	050 39	050 53	3	33	1-10	85	72	147	50		354	
April	978.0	1007.5	940.9	-3.3	-0.9	-5.1	4.8	-10.0	11.6	050 39	050 58	1	12	11-21	131	17	55	36		239	Autumn
May	987.3	1011.1	965.4	-4.5	-2.4	-6.5	2.8	-10.4	8.5	140 35	150 59	0	33	22-33	36	14	6	5		61	Mar., Apr., May
June	996.7	1020.6	969.0	-7.4	-5.1	-9.8	3.6	-13.9	7.4	050 30	050 44	0	57	≥34	1	3				4	
														Total	253	106	208	91		658	
July	1001.9	1031.5	965.6	-9.1	-5.7	-12.4	4.9	-24.8	6.6	040 32	040 45	0	70	1-10	69	64	200	30		363	
August	983.9	1008.2	960.5	-5.7	-2.4	-9.3	5.0	-23.6	8.8	050 36	040 52	0	48	11-21	107	8	18	10		143	Winter
														22-33	42	12		1		55	Jun., Jul., Aug.
September	985.8	1011.8	956.3	-7.3	-4.1	-11.5	2.4	-24.9	8.8	050 36	050 52	1	55	≥34							
														Total	218	84	218	41		561	
October	990.0	1006.8	958.6	-3.7	-0.7	-7.3	2.8	-16.4	8.9	020) 050) 31	020 45	0	57								
November	988.4	1017.7	960.5	-1.7	0.9	-4.3	4.4	-7.9	5.3	010 33	030 44	0	74	1-10	85	55	157	33		330	
														11-21	131	6	7	9		153	Spring
December	984.7	1008.4	968.2	0.1	2.6	-2.3	6.0	-7.9	3.6	010 23	010 31	0	91	22-33	46	10		2		58	Sep., Oct., Nov.
														≥34		1				1	
YEAR	988.0	1031.5	940.9	-3.5	-1.0	-6.1	6.0	-24.9	7.5	050 39	140) 150) 59	5	664	Total	262	72	164	44		542	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE[1]		PRECIPITATION[2]		WEATHER—NUMBER OF DAYS WITH:										
				Percentage observations						Precipitation forms:										
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	0–2 Oktas	6–8 Oktas	Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Rain or drizzle	Snow or sleet	Hail ≥5 mm. diam.	Prisms, grains, etc.	Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visibility below 1,000 m.	Gale	Cloudy skies	Clear skies
January	4.6	75	5.4	24.2	61.7	261.4	45.8	NR	18	3	10						1		17	5
February	5.2	79	6.7	9.4	84.8	107.0	25.5	NR	43	11	18					1	4		24	1
March	5.1	86	7.0	8.5	87.1	43.3	12.4	NR	71	10	27		5	8	3		6	2	26	1
April	4.0	82	7.3	0.8	91.7	19.8	8.0	13	46	8	28		3	20	12		7	1	28	
May	3.5	79	6.6	10.9	80.6	19.4	12.3	8	18	1	25		1	17	4		1	1	23	
June	3.0	82	5.3	27.9	60.0	(12.6)	(15.6)	28	8	2	19			10	5	3	4		18	5
July	3.3	90	6.3	15.3	74.6	9.4	7.4	49	32	11	22		5	13	3	2	4	1	21	1
August	3.7	86	6.5	12.9	77.8	32.4	14.7	53	13	3	22		4	19	11	4	14	3	21	2
September	3.4	86	6.6	11.7	79.2	69.5	22.5	75	14	5	23		5	16	11	3	16	2	24	2
October	4.3	88	6.9	7.3	88.3	78.4	18.4	87	16	10	23		1	16	11	10	17		26	2
November	4.8	88	7.0	6.7	84.6	118.6	23.3	90	38	8	23		4	10	4	11	18	1	26	
December	5.2	85	6.4	13.3	79.0	174.9	28.9	54	18	8	19		2			7	9		22	2
YEAR	4.2	84	6.5	12.4	79.1	946.7	23.5	MAX101	335	80	259	NIL	30	129	64	41	101	11	276	21

CLIMATOLOGICAL SUMMARY FOR 1973
ADELAIDE ISLAND (88958) lat. 67°46′S., long. 68°55′W.
ZONE TIME = GMT −5 hr. STATION LEVEL 14 m. a.s.l. ANEMOMETER at 10 m. (EFFECTIVE HEIGHT 6·7 m.)

MONTH	M.S.L. PRESSURE (mbar)			AIR TEMPERATURE (°C)					WIND SPEED					ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS									
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed	Hourly Record				Number of observations		Seasonal frequency of wind direction and speed							
		Highest	Lowest		Max.	Min.	Max.	Min.	kt	Highest mean deg./kt		Highest gust deg./kt		⩾34 kt	Calm	Speed kt	North	East	South	West	Variable	Total	Season
December of the previous year									9.8	340	36	350	54	2	8	1-10	114	156	77	128		475	Summer Dec., Jan., Feb.
																11-21	37	83	8	40		168	
																22-33	30	7		10		47	
																⩾34	5			1		6	
																Total	186	246	85	179		696	
January	992.7	1003.3	980.3	−0.8	1.2	−2.9	4.2	−5.5	5.8	090	28	090	42	0	11	1-10	83	100	40	37	11	271	Autumn Mar., Apr., May
February	983.9	999.3	956.5	−0.2	1.9	−2.4	6.5	−6.5	9.9	330	47	330	71	4	5	11-21	71	81	26	113		291	
March	977.2	997.4	956.4	−2.1	0.2	−4.2	4.8	−13.5	16.5	320	54	320	76	22	4	22-33	46	14		35		95	
April	976.2	999.5	941.4	−6.6	−3.6	−9.2	2.8	−19.6	15.9	360	54	360	77	20	5	⩾34	30	3		15		48	
May	987.1	1013.7	965.6	−8.4	−5.6	−11.6	3.0	−21.8	11.4	360	55	360	75	6	22	Total	230	198	66	200	11	705	
June	996.4	1022.1	969.3	−10.1	−7.1	−13.5	1.7	−19.1	11.3	360	40	360	57	8	17	1-10	140	94	31	27	13	305	Winter Jun., Jul., Aug.
July	997.6	1024.8	958.9	−8.7	−5.3	−12.3	4.9	−29.5	18.6	005	58	005	79	45	14	11-21	64	80	6	26		176	
August	980.0	1001.3	954.6	−6.5	−3.1	−10.1	3.8	−20.6	16.1	360	62	005	83	31	9	22-33	97	29		5		131	
September	982.1	1004.6	955.1	−7.0	−4.5	−9.8	2.7	−18.5	17.1	340	55	340	77	35	5	⩾34	79	5				84	
October	985.7	1002.8	960.7	−4.1	−1.4	−6.8	3.7	−17.2	18.0	350	54	355	75	51	19	Total	380	208	37	58	13	696	
November	986.6	1014.0	953.3	−1.4	0.6	−3.9	5.0	−7.5	12.2	360	51	360	76	3	17	1-10	58	128	51	36	15	288	Spring Sep., Oct., Nov.
December	983.3	1007.5	970.1	0.3	2.4	−1.9	5.5	−6.2	7.9	360	39	360	53	9	21	11-21	61	87	18	36		202	
																22-33	67	30	3	8		108	
YEAR	985.8	1024.8	941.4	−4.7	−2.0	−7.4	6.5	−29.5	13.4	360	62	005	83	234	149	⩾34	89					89	
																Total	275	245	72	80	15	687	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE[1]		PRECIPITATION[2]		WEATHER—NUMBER OF DAYS WITH:										
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	Percentage observations 0 – 2 Oktas	Percentage observations 6 – 8 Oktas	Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms: Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.	Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visibility below 1,000 m.	Gale	Cloudy skies	Clear skies
January	4.5	77	5.7	21.4	69.0	256.5	38.5	(13)		1	14		2				1		19	5
February	4.8	79	6.8	7.6	82.1	124.2	27.5	(8)		4	17		3	5	1		4	3	20	
March	4.5	83	6.9	5.2	84.3	61.8	17.4	14		2	25		3	16	4		5	10	26	
April	3.3	82	7.3	3.8	90.4	21.9	9.9	29		4	26		1	26	9		8	10	29	
May	2.6	77	6.2	13.3	75.4	(13.0)	(13.5)	31		1	18		1	22	9		7	5	21	1
June	2.4	80	5.2	25.8	55.4	(0.0)	–	34			15		2	21	8	1	5	3	14	6
July	3.3	84	5.9	14.9	70.6	(0.0)	(0.0)	48		4	22		3	20	15		11	14	23	4
August	3.3	83	6.0	13.7	67.7	41.9	22.9	74		1	19		3	24	13	1	13	11	21	3
September	3.3	86	6.3	12.5	75.4	56.3	19.0	77			21		1	21	12		11	11	22	2
October	4.0	85	6.3	16.5	79.4	147.5	34.5	78		1	22		2	22	12		11	12	23	3
November	4.5	81	6.1	12.9	72.9	201.0	33.8	61		4	11		5	14	10		6	2	21	1
December	4.9	79	6.0	16.1	69.4	260.1	35.1	37		3	18		4	2	2	2	7	4	22	3
YEAR	3.8	81	6.2	13.7	74.3	1184.2	29.1	88MAX		25	228	NIL	30	193	85	4	89	85	261	28

CLIMATOLOGICAL SUMMARY FOR 1973
HALLEY BAY (89022) lat. 75°31′S., long. 26°40′W.
ZONE TIME = GMT −2 hr. STATION LEVEL 31 m. a.s.l. ANEMOMETER at 11 m.

MONTH	M.S.L. PRESSURE (mbar)			AIR TEMPERATURE (°C)					WIND SPEED			ANALYSIS OF WIND REPORTED AT THE EIGHT SYNOPTIC HOURS	
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed	Hourly Record Highest		Number of observations	
		Highest	Lowest		Max.	Min.	Max.	Min.	kt	Mean deg./kt	Gust deg./kt	≥34 kt	Calm
December of the previous year									11.3	080 33	080 41	0	4
January	994.9	1008.3	985.9	-3.9	-0.9	-7.5	+2.8	-13.9	12.7	080 34	090 41	0	4
February	990.1	997.7	968.7	-10.4	-6.9	-14.1	-1.4	-28.0	12.6	220 24	220 34	0	0
March	981.4	993.7	946.7	-16.6	-12.1	-22.3	-2.7	-35.2	14.0	070 49	070 63	8	6
April	983.5	993.1	961.8	-19.0	-14.0	-25.1	-6.9	-37.2	16.4	080 44	080 56	14	13
May	993.3	1008.1	966.6	-24.8	-19.1	-31.4	-4.8	-41.0	12.1	080 51	070 63	10	16
June	995.9	1019.1	977.3	-31.7	-26.5	-37.0	-15.2	-46.2	10.5	070 26	060 32	0	6
July	983.9	1010.2	950.0	-30.0	-24.5	-36.0	-5.0	-50.9	16.0	230 44	070 59	7	6
August	988.8	1008.7	969.0	-36.8	-30.7	-42.4	-21.9	-41.5	10.9	070 29	070 37	0	18
September	986.5	1000.6	971.0	-26.0	-21.1	-31.8	-13.5	-44.4	15.0	070 42	070 52	10	3
October	987.7	1004.4	959.9	-17.0	-12.6	-22.3	-7.2	-30.7	16.0	070 44	060 56	14	8
November	984.1	1004.1	966.1	-9.9	-6.6	-14.6	-2.5	-21.8	17.0	080 42	080 55	31	6
December	986.4	1005.3	968.4	-6.5	-3.2	-10.4	-0.2	-17.9	11.3	080 37	080 47	5	9
YEAR	988.0	1019.1	946.7	-19.4	-14.9	-24.6	+2.8	-50.9	13.7	080 51	070 63	99	95

MONTH	Seasonal frequency of wind direction and speed							
	Speed kt	North	East	South	West	Variable	Total	Season
January	1-10	19	207	58	37		321	Summer Dec., Jan., Feb.
February	11-21	8	270	22	27		327	
	22-33	4	52	5	3		64	
	≥34							
	Total	31	529	85	67		712	
March	1-10	18	106	59	50		233	Autumn Mar., Apr., May
April	11-21	4	257	31	50		342	
May	22-33		92		2		94	
	≥34		32				32	
	Total	22	487	90	102		701	
June	1-10	21	127	48	77		273	Winter Jun., Jul., Aug.
July	11-21	5	214	49	85		353	
August	22-33		57	8	8		73	
	≥34		3	2	2		7	
	Total	26	401	107	172		706	
September	1-10	19	128	59	31		237	Spring Sep., Oct., Nov.
October	11-21	14	203	30	39		286	
November	22-33		128	2	3		133	
December	≥34		55				55	
	Total	33	514	91	73		711	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE[2]		PRECIPITATION[1]		WEATHER—NUMBER OF DAYS WITH:									
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	Percentage observations 0 – 2 Oktas	Percentage observations 6 – 8 Oktas	Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms: Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.	Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visibility below 1,000 m.	Gale	Cloudy skies	Clear skies
January	4.2	89	5.2	31.9	64.1	332.4	44.7	1	19		18	2	8	15	4	2	6	1	15	7
February	2.5	85	6.3	14.3	79.0	151.0	25.4	11	26		20		4	20	4	3	11		21	3
March	1.7	83	5.4	28.6	60.5	159.0	38.4	29	75		16			13	6	3	10	3	14	4
April	1.4	83	5.5	24.6	63.8	51.1	25.8	40	40		19		3	17	12	6	16	7	17	2
May	0.9	79	4.6	44.8	42.7	0.0	-	40	12		6		6	9	5	2	6	3	8	8
June	0.4	74	4.4	36.3	38.8	SUN BELOW HORIZON		47	28		9		15	13	1	3	4		9	5
July	0.6	75	4.1	40.3	36.7	2 MAY TO 10 AUG.		47	15		9		19	18	10	4	13	6	9	6
August	0.2	70	5.1	25.4	55.2	34.2	32.4	47	4		1		11	9		5	5		13	4
September	0.7	78	6.1	12.1	71.7	98.7	29.9	53	41		13		14	14	9	4	11	3	18	1
October	1.5	85	6.1	15.7	73.8	187.6	33.5	63	50		15		8	16	10	4	14	7	20	4
November	2.6	87	5.6	20.8	66.3	309.8	43.0	69	31		16		1	17	9		11	6	17	3
December	3.5	90	5.7	22.6	67.7	273.9	36.8	74	18		21		2	15	3	4	10	3	18	3
YEAR	1.7	81	5.3	26.6	59.9	1597.7	36.2	78MAX	359	NIL	163	2	91	176	73	40	117	39	179	50