

CLIMATOLOGICAL SUMMARY FOR 1974

By D. W. S. LIMBERT

IN contrast to the low annual mean sea-level pressures of 1973, the annual pressures for 1974 at all stations were close to average. There were large positive pressure anomalies in the Weddell and Scotia Seas in June and November without producing any exceptional extremes.

The two Antarctic Peninsula stations had annual temperatures $2-2.5^{\circ}\text{C}$ above average which was nearly as warm as the record in 1971. The Argentine Islands had their warmest summer yet followed by a mild autumn which included the warmest March on record. Winter was also generally warm. Exceptional extreme maximum temperatures were recorded in February ($+9.4^{\circ}\text{C}$) and in May ($+6.7^{\circ}\text{C}$). Temperature trends were similar at Adelaide Island, where the mean temperature for June was 6°C warmer than average. Signy Island recorded its highest maximum temperature since 1947, $+16.2^{\circ}\text{C}$ on 26 February, and a mean temperature for March of $+2.0^{\circ}\text{C}$, which was the highest for that month. South Georgia also had a very high maximum temperature of $+22.1^{\circ}\text{C}$ (27 February).

There were one or two isolated cold spells. South Georgia recorded the lowest July minimum (-14.9°C) since 1939, Signy Island had a record September minimum of -32.5°C and at Halley Bay a record extreme minimum of -55.3°C was measured in July. (The previous lowest was -53.2°C in June 1971.)

The warm temperatures of February at Signy Island, the Argentine Islands and Adelaide Island were associated with strong winds and much low cloud, in contrast to South Georgia where cloud amounts were below average. July was also windy at the Argentine Islands and at Adelaide Island. The latter station experienced hurricane-force northerly winds which achieved a mean speed of 66 kt with gusts up to 95 kt. Spring was also cloudy and windy. At Signy Island and along the Antarctic Peninsula there were on average 25 cloudy days/month from September to December.

The fine months, each with record total hours of sunshine, were January at Adelaide Island and the Argentine Islands, August at Signy Island, and January and February at South Georgia, where it was the sunniest year since 1953. The 243 mm. June rainfall at South Georgia was the second highest for that month (259 mm. was recorded in June 1961). It was the driest December since 1939.

At Halley Bay the cloud and wind pattern was somewhat different. January, April, August and November were cloudy. March, May-July, October and December were fine, the latter being very sunny. It was the windiest August so far with a mean wind speed of 20.3 kt.

STATION NOTES FOR 1974

South Georgia

1. Shading cuts out about $1\frac{1}{2}$ 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 28 August.

Signy Island

1. One full synoptic observation is made at 09.00 hr. zone time (12.00 GMT). Data in parentheses in the tables of total cloud amount, humidity and the frequency of weather types are based on the single daily observations.
2. The loss of sunshine due to shading varies from about $2\frac{1}{2}$ hr./day in summer to about $1\frac{1}{2}$ hr. in winter.
3. Mixed snow accumulation and rainfall is given as water equivalent as calculated at the station. The reliability of these data is not known. The left-hand column refers to snow depth at station level. The right-hand column refers to snow-accumulation stakes on McLeod Glacier (127 m. above M.S.L.), where measurements did not start until 19 April. Maximum depth at station level occurred on 16 and 17 July, and on McLeod Glacier on 6 October. NR signifies "not reported".

Argentine Islands

1. The loss of sunshine due to shading varies from about 2 hr./day in summer to $\frac{1}{2}$ hr. in winter.
2. The net snow-depth figures in parentheses denote ablation of the snow accumulation from the previous year, and refer back to 7 April 1973. The ablation season ended on 22 February. All subsequent depths refer to this date as datum for the 1974 accumulation. The positive February figure is the accumulation between 22 and 28 February. Maximum depth occurred on 10 November.

Adelaide Island

1. There is almost complete shading in June and negligible shading in December. The remainder of the year averages about $1\frac{1}{2}$ hr. shading/day.
2. The net snow depth was measured on a site close to the station and contained eight stakes initially; this was increased to nine in July. Maximum depth was recorded on 3 October. The data for the first 3 months included areas of bedrock and remnants of snowdrifts. A location 1.25 km. distant on the Fuchs Ice Piedmont using ten stakes gave net accumulation for the months May–December inclusive as -2.5 , $+8.0$, $+14.2$, $+13.2$, $+18.9$, $+1.2$, $+0.9$ and -25.2 cm., respectively. Here too maximum depth occurred on 3 October. NR signifies "not reported".

Halley Bay

1. The exposure of the sunshine recorder is excellent. Any losses are inherent to the type of instrument in use.
2. The reference point for all net snow-depth measurements is 1 January. Data for the period 1–14 February are missing. A new accumulation stake network came into use on 14 February. The accumulation for March was 14 cm., and this includes the period 14–28 February. Snow depths for March and subsequent months have been entered as if there was no accumulation in February. 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 21 November.

MS. received 3 February 1976

CLIMATOLOGICAL SUMMARY FOR 1974
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 kt	Hourly Record		Number of observations ≥34 kt	Calm	Seasonal frequency of wind direction and speed											
		Highest	Lowest		Max.	Min.	Max.	Min.		Mean deg./kt	Highest deg./kt			Speed kt	North	East	South	West	Variable	Total	Season				
December of the previous year.....									8.8	280	25	270	65	0	40	1-10 11-21 22-33 ≥34 Total	113 123 4 240	98 13 111	6 4 10	26 104 12 142	77 77	320 244 16 580	Summer Dec., Jan., Feb.		
January	995.9	1013.4	965.3	6.0	10.7	2.8	20.2	0.0	6.6	260	36	260	69	0	53	1-10 11-21 22-33 ≥34 Total	121 102 9 210	62 5 111	10 1 10	84 119 22 142	47 77	324 227 31 582		Autumn Mar., Apr., May	
February	1001.0	1014.3	983.5	7.6	12.2	3.7	22.1	0.2	8.5	320	24	290	57	0	47	1-10 11-21 22-33 ≥34 Total	84 122 6 212	44 18 1 63	53 9 62	117 64 11 192	78 78	376 213 18 607			Winter Jun., Jul., Aug.
March	1002.7	1025.9	976.7	6.3	10.3	2.9	20.5	-1.5	7.8	260	27	260	63	0	68	1-10 11-21 22-33 ≥34 Total	133 115 9 287	61 7 68	22 4 26	47 75 19 141	97 97	360 231 28 619			
April	990.8	1017.3	953.9	2.3	5.7	-0.3	10.8	-3.1	7.7	300	30	290	64	0	63	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619	Spring Sep., Oct., Nov.		
May	993.6	1018.8	970.0	-0.2	3.1	-3.1	10.5	-7.5	8.4	290	21	320	61	0	23	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619		Spring Sep., Oct., Nov.	
June	1004.0	1030.4	970.6	-1.8	0.2	-3.7	9.5	-8.9	5.9	330	23	330	35	0	62	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619			Spring Sep., Oct., Nov.
July	997.3	1020.4	974.1	-1.4	1.7	-4.1	8.3	-14.2	9.4	260	29	320	64	0	11	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619			
August	995.1	1021.6	958.0	-1.8	1.1	-4.3	5.0	-9.1	6.1	290	25	300	52	0	56	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619	Spring Sep., Oct., Nov.		
September	994.7	1028.3	964.2	0.5	4.1	-2.7	9.3	-11.1	10.8	290	32	300	65	0	37	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619		Spring Sep., Oct., Nov.	
October	999.5	1021.8	971.4	2.1	5.3	-0.5	9.4	-6.3	8.3	260	27	260	63	0	35	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619			Spring Sep., Oct., Nov.
November	996.4	1022.8	969.4	2.7	6.0	-0.1	11.3	-3.7	5.3	330	25	290	40	0	37	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619			
December	998.5	1030.4	983.8	3.7	7.1	0.7	20.3	-1.7	7.0	310	23	280	46	0	19	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619	Spring Sep., Oct., Nov.		
YEAR	997.4	1030.4	953.9	2.2	5.6	-0.5	22.1	-14.2	7.7	260	36	260	69	NIL	511	1-10 11-21 22-33 ≥34 Total	145 145 9 287	7 7 68	4 4 26	75 19 141	97 97	360 231 28 619		Spring Sep., Oct., Nov.	

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		Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms:				Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visi- bility below 1,000 m.	Gale	Cloudy skies	Clear skies
				0—2 Oktas	6—8 Oktas					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.							
January	6.8	73.5	5.5	16.5	58.5	238.9	51.1		117	22	3					3	3	1	15	
February	6.7	65.7	5.0	18.7	44.6	188.5	50.5		171	19									11	
March	6.7	72.4	5.5	16.5	56.8	128.9	39.3		137	29	1					4	4		15	
April	5.5	76.4	5.7	20.4	61.2	87.8	46.0		225	19	16		2	3	2	1	2	1	15	
May	6.6	72.7	5.5	20.2	59.2	34.2	32.9	7	83	7	24		3	9	4		2	1	16	1
June	4.3	78.7	5.3	28.3	59.1	(0.8)	(-)	33	243	8	23			6		1	2		14	2
July	4.0	70.7	5.4	23.8	57.3	(15.2)	(33.8)	58	113	8	24			11	5		2		15	4
August	4.3	80.1	5.7	22.7	65.2	52.2	31.1	155	219	6	26			9		2	7		15	2
September	4.5	70.9	5.4	25.0	60.0	99.5	35.8	45	127	12	19			6	2	1	1	2	14	3
October	4.8	68.9	5.1	27.0	44.0	155.2	40.6	2	149	17	18			3	1		1		12	4
November	5.5	72.9	6.1	12.1	70.8	158.0	36.6		100	13	13		1			1	1		20	1
December	5.3	68.9	6.3	12.1	79.0	143.6	29.9		29	12	16			1	1				20	
YEAR	5.4	72.3	5.5	20.2	59.6	1302.8	40.0	MAX 176	1713	172	183	NIL	6	48	15	13	25	5	182	17

CLIMATOLOGICAL SUMMARY FOR 1974
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 kt	Hourly Record		Number of observations ≥34 kt	Calm	Seasonal frequency of wind direction and speed																			
		Highest	Lowest		Max.	Min.	Max.	Min.		Mean deg./kt	Gust deg./kt			Speed kt	North	East	South	West	Variable	Total	Season												
December of the previous year																			9.1	300	36	280	58	0	31	1 10	14	86	51	155	21	327	Summer Dec., Jan., Feb.
January	991.0	1012.6	961.7	+1.5	+3.7	+0.1	+12.2	-1.6	9.6	300	31	300	46	0	22	11 21	18	20	6	191	1	236											
February	993.3	1010.1	960.4	+1.5	+4.2	-0.1	+16.2	-2.6	15.2	050	48	050	77	2	2	22 33	6	2	91	1	100												
March	994.2	1016.9	965.8	+2.0	+5.0	0.0	+11.3	-3.1	14.6	290	37	290	80	5	15	≥34	Total	38	108	57	1,359	23	665										
April	990.6	1017.9	957.2	-2.8	-0.3	-4.8	+4.4	-10.3	13.2	120	41	120	61	2	7	1 10	25	67	53	95		240	Autumn Mar., Apr., May										
May	994.6	1022.4	969.0	-7.8	-4.0	-11.4	+3.2	-24.0	13.3	230	40	230	58	5	14	11 21	23	57	36	213		329											
June	1006.9	1024.4	972.3	-9.7	-5.4	-13.6	+6.2	-24.6	8.9	120	43	310	64	6	44	22 33	8	27	2	82		119											
July	991.5	1019.1	966.3	-9.3	-4.6	-13.9	+2.7	-29.7	12.3	290	38	290	55	2	33	≥34	Total	58	156	91	325			700									
August	996.4	1015.3	970.9	-12.2	-8.6	-15.0	+3.2	-30.7	9.4	330	51	330	79	8	54	1 10	11	104	102	76		293	Winter Jun., Jul., Aug.										
September	987.5	1015.1	951.9	-6.2	-2.1	-10.7	+5.3	-32.5	17.0	290	41	290	61	14	12	11 21	36	36	21	103		196											
October	994.2	1014.7	975.8	-2.1	+1.1	-4.7	+6.2	-17.3	17.5	300	42	300	65	15	11	22 33	12	14	3	71		100											
November	995.8	1020.3	971.4	-0.6	+1.6	-1.9	+9.7	-5.2	11.7	280	35	250	53	0	30	≥34	Total	65	5	7	7			16									
December	997.9	1017.9	967.8	+0.6	+3.4	-2.2	+7.4	-2.2	9.7	290	31	120	68	0	30	1 10	18	76	32	62		188	Spring Sep., Oct., Nov.										
YEAR	994.5	1024.4	951.9	-3.8	-0.5	-6.5	+16.2	-32.5	12.7	330	51	290	80	59	274	11 21	21	61	11	191		284											
																22 33	8	24		162		174											
																≥34	1	1		27		29											
																Total	48	162	43	422		675											

MONTH	HUMIDITY ¹		TOTAL CLOUD AMOUNT ¹			SUNSHINE ²		PRECIPITATION ³			WEATHER—NUMBER OF DAYS WITH ¹											
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Oktas	Percentage observations		Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms:					Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visi- bility below 1,000 m.	Gale	Cloudy skies	Clear skies	
				0—2 Oktas	6—8 Oktas					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.									
January	(6.1)	(90)	(7.4)	(3.2)	(93.5)	46.3	9.7	0	NR	58	(13)	(16)				(1)	(1)					
February	(8.6)	(85)	(7.6)	(0.0)	(96.4)	23.8	6.5	0	NR	83	(19)	(18)				(4)	(4)	6				
March	(6.3)	(89)	(7.1)	(6.4)	(87.1)	62.0	19.0	1	NR	42	(19)	(16)				(5)	(5)	6				
April	(4.3)	(84)	(7.4)	(0.0)	(96.7)	18.9	7.8	9	16	27	(5)	(26)	(2)	(6)	(1)			2				
May	(3.4)	(87)	(7.2)	(3.2)	(93.5)	21.4	12.1	10	20	7	(6)	(26)	(7)	(9)	(5)	(1)	(2)	4				
June	(3.0)	(88)	(6.5)	(16.7)	(80.0)	17.7	14.5	6	20	5	(6)	(24)	(7)	(5)	(1)	(4)	(4)	3	INSUFFICIENT DATA			
July	(3.7)	(85)	(6.8)	(9.7)	(87.1)	23.8	15.4	21	40	8	(5)	(27)	(6)	(15)	(4)	(1)	(5)	2				
August	(2.6)	(87)	(5.2)	(29.0)	(61.3)	101.7	45.6	27	47	29	(3)	(25)	(6)	(6)	(4)	(1)	(1)	4				
September	(3.9)	(85)	(6.9)	(3.3)	(93.3)	64.6	21.1	13	62	38	(7)	(25)	(2)	(13)	(8)		(2)	4				
October	(4.8)	(86)	(7.4)	(3.2)	(93.5)	59.4	15.0	0	55	23	(14)	(24)	(4)	(7)	(3)	(1)	(1)	7				
November	(5.4)	(87)	(7.7)	(0.0)	(96.6)	55.9	12.6	0	33	18	(12)	(25)	(2)	(4)		(1)	(1)	2				
December	(5.5)	(84)	(6.8)	(3.2)	(80.6)	114.1	22.4	0	13	14	(18)	(20)										
YEAR	(4.8)	(86)	(7.0)	(6.5)	(88.3)	609.6	16.3	MAX 38	67	352	(127)	(272)	(0)	(36)	(65)	(26)	(19)	(26)	40			

CLIMATOLOGICAL SUMMARY FOR 1974
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															
	Daily mean	Extremes		Daily mean	Mean daily		Extremes		Mean speed kt	Hourly Record		Number of observations ≥34 kt Calm	Seasonal frequency of wind direction and speed													
		Highest	Lowest		Max.	Min.	Max.	Min.		Mean deg./kt	Gust deg./kt		Speed kt	North	East	South	West	Variable	Total	Season						
December of the previous year															3.6	010 23	010 31	0	91	110 1121 2233 ≥34 Total	116 70 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.
January	991.4	1008.4	973.9	+1.9	+4.0	0.1	+7.9	-2.2	3.4	010 23	120 45	0	96	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
February	988.7	1012.3	967.7	+2.1	+4.1	0.7	+9.4	-1.0	8.7	040 36	120 56	1	33	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
March	986.1	1007.7	968.1	+1.4	+3.8	-0.2	+8.1	-2.8	8.5	050 30	070 49	2	42	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
April	990.3	1013.1	959.6	-1.9	-0.1	-3.4	+3.7	-5.7	6.2	030 27	030 40	0	50	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
May	996.3	1019.2	981.7	-3.5	-1.7	-5.1	+6.7	-10.1	7.3	050 32	050 45	0	36	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
June	1003.7	1020.8	976.5	-3.7	-1.9	-5.6	+3.9	-9.5	5.0	030 41	030 56	1	86	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
July	986.5	1017.4	956.1	-5.1	-2.7	-7.0	+2.1	-13.4	11.3	050 39	050 57	4	16	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
August	991.3	1011.0	962.5	-5.6	-3.6	-8.2	+3.5	-13.4	5.3	050 37	050 56	1	61	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
September	980.1	1020.8	954.9	-7.2	-3.4	-11.2	+2.5	-20.8	10.6	030 42	030 58	3	36	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
October	983.9	1013.1	954.9	-2.3	+0.5	-6.0	+3.8	-13.8	10.2	050 36	050 51	1	33	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
November	993.2	1011.6	969.2	-1.2	+1.9	-3.5	+6.4	-15.2	1.6	030 24	030 35	0	64	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
December	994.8	1017.2	975.2	+0.5	+3.1	-1.2	+7.7	-4.6	4.1	360 26	360 37	0	58	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						
YEAR	990.5	1020.8	954.9	-2.1	+0.3	-4.2	+9.4	-20.8	7.1	030 42	030 58	13	611	2233 ≥34 Total	110 1121 15 201	55 13 7 76	171 8 1 179	37 7 1 44	379 98 22 1 500	Summer Dec, Jan, Feb.						

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		Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms:				Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visi-bility below 1,000 m.	Gale	Cloudy skies	Clear skies	
				0—2 Oktas	6—8 Oktas					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.								
January	5.2	74	5.9	13.3	72.6	260.6	46.5	(-2)	6	10	11		1						19		
February	5.9	84	7.1	3.5	89.3	75.0	17.9	(-22)+15	86	17	16		3			2	6	3	25		
March	5.4	81	6.6	8.5	84.7	94.4	26.5		25	12	22		4	1			2	1	26	1	
April	4.2	77	6.1	14.6	71.3	69.0	27.7	44	44	3	15		1	6	1		4		22	2	
May	4.0	82	6.1	18.1	74.6	32.0	19.9	37	42	11	19		7	9	5		6	1	21	3	
June	4.1	87	6.4	12.1	73.3	(6.2)	(7.5)	43	18	4	13		2	2	2	3	11	1	20		
July	3.5	79	6.1	20.2	73.0	20.8	15.3	72	109	1	22		1	21	12	2	16	4	20	3	
August	3.4	81	6.6	10.9	85.1	28.5	12.6	71	19	3	21			10	5			2	2	25	1
September	3.4	86	7.1	6.3	89.6	57.9	18.6	82	87	5	25		4	19	12		13	3	25		
October	4.6	87	7.2	5.2	90.3	62.6	14.5	87	41	10	27		1	22	7		13	2	28		
November	4.8	85	7.2	2.5	94.6	98.7	19.4	75	13	6	23			5			6	8		27	
December	5.5	87	6.7	11.3	81.5	131.6	21.8	31	50	14	14		1				6	6		24	1
YEAR	4.5	83	6.6	10.6	81.7	937.3	23.1	MAX 98	557	96	228	NIL	25	95	44	21		87	17	282	11

CLIMATOLOGICAL SUMMARY FOR 1974
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 kt	Hourly Record		Number of observations ≥34 kt Calm	Seasonal frequency of wind direction and speed								
		Highest	Lowest		Max.	Min.	Max.		Mean deg./kt	Gust deg./kt		Speed kt	North	East	South	West	Variable	Total	Season	
December of the previous year.....								7.9	360 39	360 53	9 21	1.10 11.21 22.33 ≥34 Total	138 60 51 24 273	145 84 16 3 248	50 6 1 56 80	47 32 1 11	10 1 1	390 183 68 27 668	Summer Dec., Jan., Feb.	
January	992.2	1007.9	977.1	1.0	3.1	-0.9	5.5	-3.2	7.8	350 30	350 43	0 26	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
February	985.0	1005.9	955.6	1.3	3.4	-0.6	5.9	-4.6	16.5	350 66	350 95	18 5	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
March	982.8	1005.6	965.9	0.5	2.4	-1.8	6.4	-6.2	12.7	350 58	350 80	11 21	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
April	989.7	1008.3	963.4	-3.8	-1.6	-6.0	2.6	-11.9	11.3	340 48	350 66	6 14	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
May	994.9	1014.4	979.4	-5.1	-3.4	-7.6	4.9	-15.1	17.1	350 56	350 86	13 8	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
June	1000.5	1019.3	971.7	-3.5	-0.9	-6.1	6.1	-14.3	11.0	350 48	350 70	19 18	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
July	983.5	1009.7	951.2	-8.1	-4.4	-10.9	4.3	-20.5	16.1	350 66	350 94	16 3	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
August	989.9	1010.9	956.3	-7.7	-4.3	-10.9	1.2	-22.3	9.1	360 49	360 69	16 31	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
September	975.4	1020.7	949.7	-9.2	-4.7	-13.4	1.8	-23.4	17.4	350 59	350 86	20 5	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
October	979.2	1014.5	950.3	-2.8	0.4	-6.0	7.1	-21.3	16.8	360 53	360 69	27 12	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
November	990.5	1007.7	963.6	-1.1	1.3	-3.5	4.5	-11.2	7.9	360 33	360 45	1 23	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
December	992.8	1014.0	971.6	-1.0	3.6	-1.2	7.8	-4.5	9.7	350 51	360 64	8 24	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	
YEAR	988.0	1020.7	949.7	-3.3	-0.4	-5.7	7.8	-23.4	12.8	350 66	350 95	155 190	1.10 11.21 22.33 ≥34 Total	99 58 107 12 65	134 107 19 1 29	27 12 1 29	17 1	303 242 118 30 693	Autumn Mar., Apr., May	

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		Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms:				Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visi- bility below 1,000 m.	Gale	Cloudy skies	Clear skies
				0-2 Oktas	6-8 Oktas					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.							
January	5.0	74	5.4	26.2	63.3	301.4	45.2	(11)	NR	2	13		4	0	0	1	3	0	17	4
February	5.6	83	6.7	12.1	83.0	94.6	21.0	(11)	NR	14	19		4	3	1	1	4	9	23	2
March	5.2	81	6.3	8.9	73.8	89.5	25.1	(9)	NR	5	21		6	6	1	0	1	9	24	1
April	3.6	75	5.0	32.9	55.8	81.0	36.5	20	22	1	15		6	14	4	0	4	4	13	5
May	3.7	82	5.9	18.1	70.2	(3.7)	(3.9)	24	44	11	22		10	21	6	0	7	7	20	2
June	4.0	83	6.0	13.3	69.6	(0.0)	(0.0)	23	19	6	18		5	8	6	0	6	6	19	0
July	2.9	80	5.9	19.8	69.0	(0.2)	(0.7)	58	32	2	23		9	23	11	0	11	8	18	2
August	2.9	80	5.8	18.5	72.2	45.5	24.9	72	44	2	22		10	16	4	0	2	2	19	3
September	2.8	84	6.6	11.7	83.3	38.8	13.1	97	65	2	27		7	28	23	0	16	10	25	1
October	4.1	81	6.6	10.9	84.7	96.4	22.5	91	29	4	28		5	27	17	0	14	12	27	2
November	4.7	82	6.6	5.8	80.0	135.6	22.8	74	17	1	24		7	12	6	2	6	1	23	1
December	5.3	81	7.0	4.0	88.7	135.2	18.2	38	58	7	18		9	3	0	4	5	5	26	0
YEAR	4.2	81	6.2	15.2	74.5	1021.9	25.1	MAX 102	-	57	250	NIL	82	161	79	8	79	73	254	23

CLIMATOLOGICAL SUMMARY FOR 1974
 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 kt	Hourly Record		Number of observations ≥34 kt Calm		Seasonal frequency of wind direction and speed									
		Highest	Lowest		Max.	Min.	Max.	Min.		Mean deg./kt	Gust deg./kt			Speed kt	North	East	South	West	Variable	Total	Season		
December of the previous year.....									11.3	080	37	080	47	5	9	1-10	28	176	81	61	346	Summer Dec, Jan, Feb	
January	995.7	1007.9	986.5	-4.5	-1.9	-7.7	+2.0	-18.2	10.6	240	28	240	36	0	17	11-21	10	182	29	50	271		
February	985.6	998.4	968.0	-12.1	-7.3	-19.0	-4.2	-23.6	12.5	080	33	080	40	7	11	22-33		44	2	8	54		
March	986.3	995.8	972.5	-16.8	-12.6	-22.3	-4.9	-31.2	16.0	110	43	100	55	23	9	Total	38	409	112	124	683		
April	991.6	1003.0	965.1	-21.9	-16.8	-28.5	-4.7	-38.8	12.7	070	44	070	53	11	20	1-10	8	113	74	64	259	Autumn Mar, Apr, May	
May	982.9	1017.7	951.0	-21.8	-16.4	-28.4	-8.9	-37.3	13.8	070	36	070	44	1	1	11-21	4	154	48	101	307		
June	995.7	1017.4	971.6	-29.9	-23.3	-37.3	-7.5	-48.2	10.5	070	51	070	60	7	10	22-33	1	70	3	31	105		
July	987.7	1003.6	962.5	-31.6	-24.4	-38.3	-14.5	-55.3	13.6	070	56	070	56	4	4	≥34	28	7	7	35	706		
August	998.7	1017.4	981.8	-21.8	-16.0	-27.7	-5.1	-42.7	20.3	060	60	080	74	45	8	1-10	15	170	59	41	285	Winter Jun, Jul, Aug	
September	976.3	1007.0	949.3	-22.9	-17.6	-28.0	-8.1	-41.0	14.6	100	50	070	65	10	5	11-21	9	197	31	55	292		
October	988.4	999.2	973.4	-20.8	-15.3	-28.8	-8.4	-36.3	12.0	060	37	060	50	4	10	22-33	4	72	2	3	81		
November	995.0	1009.6	979.6	-11.6	-7.7	-16.7	-1.1	-26.0	12.0	070	38	070	45	4	10	≥34	3	53			56		
December	997.6	1013.1	981.6	-4.6	-1.2	-7.8	+2.3	-11.1	10.0	070	29	240	33	0	20	Total	31	492	92	99	714	Spring Sep, Oct, Nov	
YEAR	990.1	1017.7	949.3	-18.4	-13.4	-24.2	+2.3	-55.3	13.2	060	60	080	74	107	121	1-10	23	161	76	37	297		
																11-21	16	187	69	39	311		
																22-33	63	10	4	77			
																≥34	1	16	1	18	18		
																Total	40	427	155	81	703		

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		Total hours	Per cent of max. possible record	Net snow depth (cm.)	Rainfall or snow equivalent (mm.)	Precipitation forms:				Drift snow (level <1.8 m.)	Blowing snow (level >1.8 m.)	True water or ice fog	Visi- bility below 1,000 m.	Gale	Cloudy skies	Clear skies	
				0-2 Oktas	6-8 Oktas					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.								
January	4.1	93	6.8	6.8	83.5	150.6	20.2	9	21		26	1	13	4	2	7		25			
February	2.2	83	5.6	19.6	62.0	237.0	39.6	-	-		12	1	6	2	5	5	1	16	4		
March	1.4	81	5.1	29.4	57.3	138.4	32.1	(23)	73		14	2	18	11	5	11	9	12	5		
April	1.0	80	5.5	24.6	64.2	15.8	7.9	(36)	45		13	7	15	6	1	5	4	25	3		
May	1.0	81	4.8	30.6	52.8	(0.0)	-	(38)	20		15	11	20	3		3	1	7	5		
June	0.5	75	4.0	46.2	41.6	SUN BELOW HORIZON 3 MAY TO 10 AUG.		(39)	17		10	16	14	3		8	1	4	3		
July	0.5	74	4.1	43.1	43.9		(42)	22	13	19	16	7	10	2	9	10					
August	1.1	81	5.6	12.9	75.8		10.4	10.0	(62)	64	23	9	16	19	3	20	9	22	2		
September	0.9	80	5.9	17.9	72.1	84.3	25.5	(66)	16		17	15	20	15		13	5	19	3		
October	1.0	82	5.3	29.8	56.4	250.7	44.6	(67)	8		7	2	16	6	8	5	2	13	1		
November	2.3	86	5.7	21.2	69.2	228.3	31.7	(68)	1		16	2	17	5		5	2	21	1		
December	3.9	88	5.5	16.5	60.9	368.0	49.5	(63)	1		9		9	0	5	5		12	1		
YEAR	1.7	82	5.3	24.9	61.6	1483.5	33.5	MAX (69)	287		NIL	175	NIL	85	180	81	29	97	36	185	38