

## CLIMATOLOGICAL SUMMARY FOR 1975

By D. W. S. LIMBERT

THE form of the 1975 climatological summary is identical to those for previous years. In order to minimize delay in publication, the descriptive summary of significant climatic features has not been included for this year. If demand justifies, it will be included with the summary of the 1976 data. Attention is drawn to the corrections of the pressure values for Signy Island, 1970 and 1971, which are published as a separate note (*British Antarctic Survey Bulletin*, No. 47, p. 140-41).

### STATION NOTES FOR 1975

#### *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.

The sunshine spheres were incorrectly focussed in February and March with an estimated loss of 5.7 hr. record in February and 14.8 hr. in March. The amended totals are: February 128.6 hr., March 145.6 hr., year 1,397.1 hr. The amended percentages of maximum possible record are: February 34.5, March 44.4, year 42.9.

2. The maximum snow depth was recorded on 31 July.
3. The wind-speed recorder was insensitive to gusts from January to November inclusive. The values in the tables should be increased by 10 per cent at 30 kt, 15 per cent at 40 kt and 20 per cent at 50 kt and above.

#### *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 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. Wind-speed data were missing on nine occasions in summer, six in autumn, 11 in winter and two in spring.
4. The snow depths were measured on the ice of Moss Lake which is about 2 km. north-west of the main station. Although these reported depths are not comparable with data collected in previous years or representative for Signy Island as a whole, they do give a guide to the main accumulation and ablation seasons. Maximum depth was recorded in early August. 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 refer back to 1 January. The ablation season ended on 31 January. The first column of figures for February onwards represents the new accumulation year. The 11 cm. remaining in January from the 1974 accumulation year indicates that the mass balance for 1974-75 was positive. Maximum depth was recorded on 4 July. Secondary peaks of 63 cm. occurred on 23 August and 24 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.

CLIMATOLOGICAL SUMMARY FOR 1975  
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.

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BRITISH ANTARCTIC SURVEY BULLETIN

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	Gust deg./kt			Speed kt	North	East	South	West	Variable	Total	Season			
December of the previous year									7.0	310	23	280	46	0	20	1-10 11-21 22-33 ≥34 Total	156 89 4 0 249	139 13 0 0 152	37 8 0 0 45	55 77 8 0 140	63 0 12 0 63	450 187 12 0 649	Summer Dec, Jan, Feb		
January	991.7	1015.8	971.2	5.3	9.3	1.9	21.1	-1.4	6.9	270	30	300	57	0	28	1-10 11-21 22-33 ≥34 Total	156 89 4 0 249	139 13 0 0 152	37 8 0 0 45	55 77 8 0 140	63 0 12 0 63	450 187 12 0 649	Summer Dec, Jan, Feb		
February	989.8	1010.7	959.7	5.7	9.2	3.1	15.5	0.4	7.9	260	25	300	53	0	23	1-10 11-21 22-33 ≥34 Total	156 89 4 0 249	139 13 0 0 152	37 8 0 0 45	55 77 8 0 140	63 0 12 0 63	450 187 12 0 649	Summer Dec, Jan, Feb		
March	994.5	1014.2	972.4	4.5	8.2	1.3	14.0	-2.4	9.6	240	23	240	49	0	27	1-10 11-21 22-33 ≥34 Total	138 168 2 0 308	65 16 1 0 82	23 0 0 0 23	98 120 8 0 226	19 0 0 0 19	343 304 11 0 658	Autumn Mar, Apr, May		
April	1000.1	1016.3	970.2	4.4	8.0	1.3	18.2	-5.0	8.0	120	23	340	42	0	42	1-10 11-21 22-33 ≥34 Total	138 168 2 0 308	65 16 1 0 82	23 0 0 0 23	98 120 8 0 226	19 0 0 0 19	343 304 11 0 658	Autumn Mar, Apr, May		
May	993.5	1025.0	968.1	0.8	4.1	-2.0	12.3	-6.3	7.9	260	22	270	56	0	9	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
June	994.2	1029.1	962.4	-0.6	2.3	-3.1	10.1	-7.8	8.5	120	24	260	47	0	9	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
July	997.4	1017.8	967.2	-2.3	0.3	-4.5	6.5	-8.8	7.3	290	24	250	49	0	11	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
August	992.9	1014.5	968.9	-0.7	2.6	-3.8	10.3	-8.3	10.3	280	27	290	53	0	6	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
September	999.5	1018.1	969.9	0.6	4.1	-2.7	11.3	-11.0	9.5	250	29	250	49	0	8	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
October	1000.2	1023.0	954.0	2.4	5.9	-0.6	9.9	-6.0	6.9	260	27	250	46	0	5	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
November	989.6	1013.1	962.2	3.0	6.6	0.2	12.1	-3.6	8.7	320	25	300	53	0	7	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov		
December	991.3	1018.0	959.7	4.1	7.9	1.4	14.1	-1.5	7.3	280	21	43	0	4	1-10 11-21 22-33 ≥34 Total	167 166 3 0 336	126 2 0 0 128	33 4 0 0 37	105 77 13 0 195	12 0 0 0 12	443 249 16 0 708	Spring Sep, Oct, Nov			
YEAR	994.5	1029.1	954.0	2.3	5.7	-0.6	21.1	-11.0	8.2	270	30	300	57	0	179	1-10 11-21 22-33 ≥34 Total	156 89 4 0 249	139 13 0 0 152	37 8 0 0 45	55 77 8 0 140	63 0 12 0 63	450 187 12 0 649	Summer Dec, Jan, Feb		

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE <sup>1</sup>		PRECIPITATION <sup>2</sup>		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	Visibility 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	5.8	65	5.4	61.3	19.0	206.8	44.3	N11	54	20	13	0	0	0	1	1	0	14	0	
February	6.3	70	6.0	71.9	16.1	122.9	32.9	N11	173	27	5	0	1	0	0	1	0	18	0	
March	5.6	67	5.7	66.1	19.0	130.8	39.9	N11	184	26	13	0	8	0	3	3	0	13	0	
April	6.1	73	5.3	60.8	22.9	82.9	43.4	17	106	21	11	0	3	0	3	4	0	10	3	
May	4.7	72	5.0	55.2	26.2	36.8	35.4	1	104	10	21	0	7	4	1	0	1	11	4	
June	4.5	76	6.5	82.5	6.7	0.1	—	23	187	9	23	0	12	12	8	1	9	21	0	
July	4.0	77	5.6	66.1	17.7	14.4	(32.0)	55	128	4	27	0	6	21	7	1	12	16	1	
August	4.3	73	5.4	62.1	19.0	74.4	44.3	20	129	7	28	0	3	19	6	2	6	13	0	
September	4.2	64	4.6	50.0	32.1	161.5	58.0	10	200	15	14	0	6	3	0	1	5	10	5	
October	5.4	74	5.6	66.5	22.2	169.3	44.3	N11	121	19	6	0	2	1	0	1	2	15	3	
November	5.4	72	6.1	73.3	10.4	179.5	41.6	N11	193	18	22	0	14	1	0	0	5	17	0	
December	5.8	71	6.2	76.6	12.1	197.2	41.0	N11	120	22	17	0	11	0	0	0	2	19	1	
YEAR	5.2	71	5.6	66.0	18.6	1376.6	42.3	Max. 55	1699	198	200	0	73	61	22	14	51	177	17	

CLIMATOLOGICAL SUMMARY FOR 1975  
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 <sup>3</sup>										
		Highest	Lowest		Max.	Min.	Max.	Min.		Highest			Speed kt	North	East	South	West	Variable	Total	Season			
										Mean deg./kt	Gust deg./kt												
December of the previous year.....									9.7	290	31	120	68	0	30	1-10 11-21 22-33 ≥34 Total	18 23 7 0 48	102 41 21 1 165	79 26 9 0 114	126 143 51 3 323	12 0 0 0 12	337 233 88 4 662	Summer Dec, Jan, Feb.
January	990.8	1011.2	970.4	0.8	2.9	- 0.4	9.1	- 2.3	11.6	290	34	290	54	2	4	1-10 11-21 22-33 ≥34 Total	18 23 7 0 48	102 41 21 1 165	79 26 9 0 114	126 143 51 3 323	12 0 0 0 12	337 233 88 4 662	
February	984.9	1007.0	961.3	1.6	3.6	0.2	11.9	- 5.6	12.6	090	44	190	88	2	15	1-10 11-21 22-33 ≥34 Total	23 23 7 0 48	102 41 21 1 165	79 26 9 0 114	126 143 51 3 323	12 0 0 0 12	337 233 88 4 662	Summer Dec, Jan, Feb.
March	988.9	1002.0	972.0	- 0.5	2.2	- 2.5	9.9	- 6.6	13.5	300 120	37	120	74	4	16	1-10 11-21 22-33 ≥34 Total	21 20 9 1 51	57 20 11 6 94	57 32 2 0 91	131 167 97 9 404	4 0 0 0 4	270 239 119 16 644	
April	994.1	1016.3	969.9	- 1.3	1.7	- 3.8	9.0	-14.5	13.0	280	49	290	79	8	25	1-10 11-21 22-33 ≥34 Total	21 20 9 1 51	57 20 11 6 94	57 32 2 0 91	131 167 97 9 404	4 0 0 0 4	270 239 119 16 644	Autumn Mar, Apr, May
May	992.6	1018.3	944.2	- 8.1	-4.3	-11.6	3.8	-23.5	9.3	290	35	290	67	4	45	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 6 94	69 17 2 0 91	102 32 97 9 404	5 0 0 0 4	283 143 87 11 524	
June	998.7	1029.4	959.3	-15.0	-9.8	-19.9	2.3	-30.8	7.9	290	41	270	56	2	78	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 6 94	69 17 2 0 91	102 32 97 9 404	5 0 0 0 4	283 143 87 11 524	Winter Jun, Jul, Aug.
July	997.1	1019.7	967.4	-13.2	-8.4	-18.7	2.2	-29.8	7.5	310	38	310	58	1	75	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 6 94	69 17 2 0 91	102 32 97 9 404	5 0 0 0 4	283 143 87 11 524	
August	989.5	1010.9	961.2	-13.2	-7.5	-19.3	3.8	-30.8	11.5	110	42	110	65	8	48	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 6 94	69 17 2 0 91	102 32 97 9 404	5 0 0 0 4	283 143 87 11 524	Winter Jun, Jul, Aug.
September	995.9	1012.7	974.0	- 8.1	-4.2	-13.2	3.6	-26.4	13.0	110	48	110	66	6	44	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 6 94	69 17 2 0 91	102 32 97 9 404	5 0 0 0 4	283 143 87 11 524	
October	991.9	1011.4	966.4	- 0.8	2.3	- 3.7	9.2	-20.2	14.8	330	44	300	71	9	27	1-10 11-21 22-33 ≥34 Total	13 22 11 4 50	71 28 18 5 172	37 10 3 0 48	112 172 124 14 422	2 0 0 0 2	235 232 154 23 644	Spring Sep, Oct, Nov.
November	986.6	1003.2	963.1	- 1.5	0.4	- 3.0	4.3	- 7.6	13.3	290	41	300	71	8	11	1-10 11-21 22-33 ≥34 Total	13 22 11 4 50	71 28 18 5 172	37 10 3 0 48	112 172 124 14 422	2 0 0 0 2	235 232 154 23 644	
December	987.6	1008.4	964.4	0.8	2.9	- 0.6	6.8	- 2.3	11.1	050	47	050	70	4	16	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 4 50	69 17 3 0 172	102 32 124 14 422	5 0 0 0 2	283 143 87 23 644	Spring Sep, Oct, Nov.
YEAR	991.5	1029.4	944.2	- 4.9	-1.5	- 8.0	11.9	-30.8	12.4	280	49	190	88	58	404	1-10 11-21 22-33 ≥34 Total	16 21 9 1 51	81 22 11 4 50	69 17 3 0 172	102 32 124 14 422	5 0 0 0 2	283 143 87 23 644	

MONTH	HUMIDITY <sup>1</sup>		TOTAL CLOUD AMOUNT <sup>1</sup>			SUNSHINE <sup>2</sup>		PRECIPITATION <sup>4</sup>		WEATHER—NUMBER OF DAYS WITH: <sup>1</sup>										
	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	(5.8)	(89)	(7.6)	(3.3)	(96.7)	38.2	8.0	0	49	(12)	(21)			(0)	(0)	(0)	(0)	3		
February	(6.2)	(90)	(7.3)	(0.0)	(89.2)	37.1	10.2	1	46	(17)	(17)			(0)	(0)	(0)	(1)	2		
March	(5.3)	(86)	(7.4)	(3.2)	(93.5)	25.5	7.8	1	29	(11)	(21)			(3)	(1)	(0)	(1)	6		
April	(5.2)	(89)	(7.1)	(6.7)	(90.0)	32.4	13.3	2	23	( 8)	(15)			(3)	(3)	(1)	(2)	8		
May	(3.5)	(89)	(7.7)	(0.0)	(93.5)	16.1	9.1	14	(29)	( 2)	(23)			(4)	(4)	(0)	(3)	6		
June	(2.2)	(86)	(6.5)	(13.3)	(76.7)	29.6	24.3	30	NR	( 3)	(13)			(2)	(2)	(2)	(2)	3		
July	(2.4)	(87)	(6.2)	(12.9)	(71.0)	27.8	17.9	35	NR	( 2)	(12)			(5)	(5)	(0)	(0)	3		
August	(2.3)	(85)	(6.2)	(16.1)	(74.1)	70.5	31.6	31	NR	( 2)	(11)			(8)	(8)	(3)	(5)	11		
September	(3.3)	(88)	(6.4)	(6.7)	(70.0)	96.1	31.4	22	NR	( 4)	(12)			(2)	(2)	(2)	(2)	9		
October	(5.3)	(90)	(6.8)	(12.9)	(83.8)	72.0	18.2	5	(12)	( 3)	( 9)			(0)	(0)	(0)	(0)	9		
November	(4.6)	(81)	(7.3)	(6.7)	(90.0)	84.6	19.1	2	( 2)	( 1)	(12)			(1)	(1)	(0)	(0)	6		
December	(5.9)	(89)	(7.3)	(3.2)	(90.3)	90.8	17.8	0	35	( 3)	(11)			(0)	(0)	(0)	(0)	4		
YEAR	(4.3)	(87)	(7.0)	(7.1)	(84.9)	620.7	16.6	Max+38	(225)	(68)	(177)			(28)	(26)	(8)	(16)	70		

CLIMATOLOGICAL SUMMARY FOR 1975  
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.

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BRITISH ANTARCTIC SURVEY BULLETIN

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 Gust deg./kt		Speed kt	North	East	South	West	Variable	Total	Season		
December of the previous year.....									360	26	360	37	0	91	1-10	105	78	242	45	0	470	Summer Dec., Jan., Feb.
January	993.8	1006.3	978.0	1.1	3.4	- 0.4	7.0	- 3.1	3.8	020 20	130 34	0	62	11-21	39	3	8	1	0	51		
February	987.6	1002.8	970.8	1.4	3.7	- 0.1	8.7	- 2.8	4.0	030 29	030 46	0	73	22-33	6	0	0	0	0	6		
March	985.2	1003.8	960.9	-0.2	1.9	- 1.8	4.7	- 4.7	7.9	020 27	160 38	0	34	≥34	0	0	0	0	0	0		
April	989.9	1013.0	964.8	-1.4	0.5	- 2.8	4.8	- 7.2	8.6	050 28	050 42	0	24	Total	150	81	250	46	0	527		
May	991.5	1015.6	961.2	-4.0	-1.9	- 5.6	4.1	-10.5	6.7	050 34	050 49	1	37	1-10	85	101	195	37	0	418	Autumn Mar., Apr., May	
June	999.4	1023.6	965.2	-7.2	-5.3	- 9.2	0.0	-14.5	5.1	170 26	120 42	0	55	11-21	135	7	46	14	0	202		
July	997.5	1020.0	974.2	-9.2	-6.4	-12.3	0.0	-18.5	6.1	150 25	160 36	0	57	22-33	15	3	2	0	0	20		
August	991.2	1013.8	970.4	-8.2	-5.2	-11.5	2.4	-16.8	8.6	130 46	120 75	3	26	≥34	0	1	0	0	0	1		
September	990.4	1012.3	955.7	-5.0	-2.5	- 8.0	3.4	-14.5	8.4	020 31	020 45	0	30	Total	235	112	243	51	0	641		
October	980.8	1000.3	950.8	-3.4	0.3	- 6.5	7.1	-17.4	12.6	020 38	020 52	4	19	1-10	40	93	274	50	0	457	Winter Jun., Jul., Aug.	
November	986.0	1000.0	955.7	-3.8	-1.2	- 6.9	3.3	-16.7	7.0	040 28	040 40	0	36	11-21	32	15	55	7	0	109		
December	984.8	1003.9	955.9	-0.8	3.0	- 2.2	7.1	- 5.5	5.0	010 28	010 40	0	70	22-33	6	12	9	2	0	29		
YEAR	989.8	1023.6	950.8	-3.4	-0.8	- 5.6	8.7	-18.5	7.0	130 48	120 75	8	523	≥34	0	2	1	0	0	3		
														Total	78	122	339	59	0	598		
														1-10	73	47	199	64	0	383	Spring Sep., Oct., Nov.	
														11-21	131	5	29	29	0	194		
														22-33	55	6	0	1	0	62		
														≥34	3	1	0	0	0	4		
														Total	262	59	228	94	0	643		

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE <sup>1</sup>		PRECIPITATION <sup>2</sup>		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	5.3	80	6.6	80	9	157	28.0	11 (-13)	43	11	19	0	1	1	0	3	4	0	22	1	
February	5.6	84	6.2	75	12	135	32.1	10 (-3)	53	10	14	1	1	0	0	7	8	0	18	1	
March	5.1	83	7.0	89	6	45	12.6	17 (4)	55	12	27	0	4	3	2	0	5	0	28	0	
April	4.8	86	6.6	79	11	43	17.3	14 (1)	43	11	22	0	4	6	3	1	5	0	24	1	
May	3.9	81	6.3	74	17	29	18.0	33 (20)	45	11	23	0	4	9	6	4	5	1	22	1	
June	3.0	82	5.8	68	18	10	(12.0)	61 (48)	21	4	16	0	1	8	2	2	6	0	16	1	
July	2.5	78	5.6	69	22	22	16.2	55 (42)	14	0	17	0	0	12	1	4	4	0	14	2	
August	2.6	77	6.1	74	17	45	19.9	29 (16)	5	5	16	0	1	12	6	5	10	1	19	2	
September	3.9	87	7.5	95	3	26	8.3	39 (26)	19	9	27	0	4	11	1	2	9	1	28	0	
October	4.2	85	6.9	86	9	57	13.2	51 (38)	88	11	26	1	13	22	3	5	16	3	28	1	
November	4.0	85	6.2	76	19	160	31.3	55 (42)	22	5	19	0	9	9	0	8	13	0	21	2	
December	5.0	83	6.7	83	5	162	26.8	24 (11)	20	7	18	0	2	0	0	3	3	0	22	0	
YEAR	4.2	82	6.5	79	12	892	22.0	Max. 65	428	96	244	2	44	93	24	44	88	6	262	12	

CLIMATOLOGICAL SUMMARY FOR 1975  
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.	Min.		Mean deg./kt	Gust deg./kt			Speed kt	North	East	South	West	Vari- able	Total	Season		
December of the previous year									350	51	350	64	8	24	1-10 11-21 22-33 ≥34	141 45 12 10	166 78 1 0	41 6 0 0	44 22 6 0	33 0 0 0	425 151 59 11	Summer Dec, Jan, Feb	
January	992.6	1006.3	977.1	1.3	3.4	- 0.8	6.7	- 5.0	9.6	350	39	350	59	3	21	1-10 11-21 22-33 ≥34	77 45 12 10	111 96 1 0	55 30 4 0	29 64 14 2	11 271 0 0		283 1 108 41
February	987.3	1001.9	972.1	1.0	3.5	- 1.0	6.5	- 4.9	7.3	350	30	350	41	0	29	1-10 11-21 22-33 ≥34	77 45 12 39	111 96 1 0	55 30 4 0	29 64 14 2	11 271 0 0	283 1 108 41	Winter Jun, Jul, Aug
March	982.4	999.8	963.6	- 1.1	0.8	- 3.0	6.4	- 8.0	15.3	350	49	350	69	13	10	1-10 11-21 22-33 ≥34	77 45 12 39	111 96 1 0	55 30 4 0	29 64 14 2	11 271 0 0	283 1 108 41	
April	987.8	1013.4	963.8	- 2.5	- 0.5	- 4.3	5.4	- 9.3	15.2	010	46	010	64	15	6	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	Summer Dec, Jan, Feb
May	989.8	1013.3	962.2	- 5.7	- 3.4	- 8.1	5.0	-16.2	12.4	360	51	360	69	13	17	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	
June	997.5	1019.2	961.7	- 9.1	- 6.4	-12.3	1.7	-25.2	11.2	020	49	010	69	16	10	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	Winter Jun, Jul, Aug
July	999.0	1018.6	976.1	-15.4	-10.6	-20.2	-2.1	-27.5	13.8	100	40	100	52	7	20	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	
August	990.4	1014.3	969.3	-11.3	-7.7	-12.9	0.4	-28.2	14.1	100	50	100	70	10	18	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	Summer Dec, Jan, Feb
September	987.1	1014.7	950.0	- 7.2	- 3.4	-11.6	3.9	-23.3	13.2	350	58	360	76	11	17	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	
October	975.4	997.1	949.3	- 5.3	- 1.1	- 9.0	3.9	-23.3	20.6	360	61	350	83	49	8	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	Winter Jun, Jul, Aug
November	984.3	997.7	962.8	- 3.8	- 1.1	- 6.5	5.0	-17.5	13.1	360	56	360	67	14	19	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	
December	984.0	1000.0	961.0	0.2	2.4	- 1.6	5.9	- 6.3	9.3	100	35	100	51	1	21	1-10 11-21 22-33 ≥34	94 69 36 27	144 145 7 6	24 33 0 0	24 12 0 0	15 3 0 0	301 257 97 33	Summer Dec, Jan, Feb
YEAR	988.1	1019.2	949.3	- 4.9	- 2.0	- 7.6	6.7	-28.2	12.9	360	61	350	83	152	196	Total	314	204	48	88	30	684	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE <sup>1</sup>		PRECIPITATION <sup>2</sup>		WEATHER—NUMBER OF DAYS WITH:											
	Vapour pressure (mbar)	Relative humidity (%)	Mean total amount Okta	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 Okta	6-8 Okta					Rain or drizzle	Snow or sleet	Hail >5 mm. diam.	Prisms, grains, etc.								
January	5.1	76	6.1	19	76	223	33.5	-11	31	8	18	0	0	0	0	0	1	2	22	4	
February	5.0	77	6.3	11	75	122	27.1	9	32	4	12	0	2	2	0	0	2	0	20	1	
March	4.6	81	7.2	0	92	45	12.6	24	93	6	21	0	1	14	10	5	9	5	28	0	
April	4.5	87	7.2	7	87	22	9.9	59	188	10	21	0	6	8	6	2	14	5	28	0	
May	3.5	82	6.7	12	74	3	(3.1)	74	93	6	26	0	1	20	9	4	6	6	24	1	
June	2.8	84	5.4	38	53	-	(-)	68	45	1	13	0	2	13	7	5	10	5	16	3	
July	1.6	79	3.5	55	35	3	(10.0)	60	11	1	15	0	2	20	10	3	8	3	8	12	
August	2.2	79	6.3	16	75	34	18.6	69	65	3	18	0	3	16	10	3	10	6	21	1	
September	3.2	84	6.9	10	80	40	13.5	76	44	3	23	0	1	18	10	1	6	6	24	1	
October	3.7	84	7.3	2	92	77	18.0	97	89	5	25	0	2	26	20	0	17	13	28	0	
November	3.8	81	6.3	13	83	167	28.1	100	51	2	22	0	4	12	9	1	7	6	23	2	
December	4.8	78	6.9	8	87	176	23.7	14	1	4	20	0	3	3	3	1	3	1	26	2	
YEAR	3.7	81	6.3	16	76	912	22.4	Max. 107	743	53	234	0	27	152	94	25	93	58	268	27	

CLIMATOLOGICAL SUMMARY FOR 1975  
 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	Vari- able	Total	Season		
December of the previous year									10.6	070	29	070	33	0	20	1-10	30	163	105	40	0	338	Summer Dec, Jan, Feb
January	995.4	1006.8	974.0	- 4.2	- 1.4	- 7.6	1.3	-17.1	11.6	080	33	070	34	0	12	11-21	9	196	48	29	0	282	
February	989.9	1003.0	972.7	-10.2	- 4.8	-16.8	- 0.1	-26.0	12.1	060	36	060	46	3	9	22-33	2	44	3	7	0	56	
March	986.3	1002.8	969.5	-12.0	- 8.4	-17.0	- 3.1	-26.1	18.1	070	58	070	74	29	5	≥34	0	3	0	0	0	3	
April	982.4	999.3	960.2	-21.1	-16.5	-26.5	- 9.7	-43.6	13.1	070	44	070	54	13	14	1-10	12	112	56	34	0	214	Autumn Mar., Apr., May
May	990.1	1009.9	964.1	-17.9	-13.5	-23.7	- 1.3	-45.0	18.9	060	50	060	66	29	7	11-21	12	222	45	23	0	302	
June	988.4	1009.3	960.1	-24.0	-19.6	-31.1	- 7.3	-42.5	15.7	080	49	080	63	19	7	22-33	17	94	4	4	0	119	
July	993.9	1009.5	974.1	-24.2	-19.9	-30.4	- 7.9	-45.5	17.6	070	50	070	61	21	8	≥34	10	65	0	0	0	75	
August	984.8	1003.7	951.0	-30.0	-24.7	-35.4	- 8.4	-48.0	14.6	070	43	070	56	7	3	1-10	11	104	60	45	0	220	Winter Jun, Jul, Aug.
September	982.4	996.5	960.9	-26.2	-21.0	-32.2	- 9.2	-46.5	13.8	070	43	060	54	10	14	11-21	16	167	85	59	0	327	
October	980.8	999.6	954.6	-14.7	-11.2	-19.5	- 3.0	-37.0	22.6	070	53	070	65	66	5	22-33	4	101	11	8	0	124	
November	984.9	996.3	957.5	-10.4	- 6.0	-15.2	- 1.6	-22.1	16.1	070	54	070	72	22	11	≥34	2	45	0	0	0	47	
December	991.6	1001.6	962.3	- 4.2	- 0.8	- 8.4	2.4	-15.0	12.2	080	31	080	39	0	14	Total	33	417	156	112	0	718	
YEAR	987.6	1009.9	951.0	-16.6	-12.3	-22.0	2.4	-48.0	15.5	070	58	070	74	219	109	1-10	8	103	29	65	0	205	Spring Sep, Oct, Nov.
																11-21	8	167	41	67	0	283	
																22-33	1	101	3	7	0	112	
																≥34	1	94	0	3	0	98	
																Total	18	465	73	143	0	698	

MONTH	HUMIDITY		TOTAL CLOUD AMOUNT			SUNSHINE <sup>1</sup>		PRECIPITATION <sup>2</sup>		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	4.2	91	6.0	17	76	217	29.2	9	43	0	15	0	1	13	2	2	0	0	22	3	
February	2.7	86	5.3	27	63	221	37.0	14	42	0	13	0	3	10	5	9	15	4	13	4	
March	2.3	87	6.5	9	82	85	20.4	34	87	1	22	0	4	21	9	2	12	7	24	2	
April	1.2	83	5.6	22	67	31	15.3	55	82	0	23	0	18	19	10	7	16	2	15	4	
May	2.0	86	5.9	20	71	–	Sun	66	41	0	21	0	16	21	12	2	14	9	22	4	
June	0.9	82	5.0	32	57	–	below horizon	71	17	0	18	0	20	21	11	3	16	7	13	3	
July	0.9	82	6.3	13	76	–		86	57	0	22	0	24	27	21	3	19	7	23	1	
August	0.6	78	4.9	29	54	35	31.3	100	55	0	21	0	20	22	14	6	13	3	12	6	
September	0.7	81	4.9	30	54	130	39.2	103	14	0	15	0	9	15	11	8	15	4	8	5	
October	2.0	89	6.8	8	85	124	22.1	137	107	0	23	0	3	26	19	4	22	16	26	1	
November	2.5	85	5.4	29	65	335	46.5	135	10	0	18	0	2	18	10	5	15	7	19	6	
December	3.9	85	5.4	27	64	345	46.3	132	4	0	11	0	1	13	3	5	8	0	14	4	
YEAR	2.0	85	5.7	22	68	1523	34.4	Max. 137	559	1	222	0	121	226	127	56	165	66	211	43	



2. The net snow depth was measured on the Fuchs Ice Piedmont, 1.25 km. from the main station. A geodetic grid of ten snow stakes was used. 30 January marked the end of the 1974-75 ablation season with a net loss of 11 cm. since 30 April 1974 (see station notes for 1974; *British Antarctic Survey Bulletin*, No. 45, p. 140). Data for February-December inclusive refer to 30 January as datum. Maximum depth occurred on 18 November. The snow water equivalent has been calculated using average snow densities for days with net positive accumulation.

#### *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 2-9 June inclusive are missing (daily variations). Measurements were made daily where possible and less frequently during periods of little change. The estimates of the gross water equivalent of precipitation are based on these measurements of snow depth. A mean density of 0.3 Mg. m.<sup>-3</sup> is assumed for all months except March, April, May and June, during which density measurements were made *in situ*. The maximum snow depth occurred on 31 October.

*MS. received 30 November 1977*