

Meteorological data from Polish Antarctic Station „H. Arctowski” for 1987

Table 1a

Meteorological data from Polish Antarctic Station “H. Arctowski” for te 1st quarter of 1987

Parameters \ Month	January	February	March
Atmospheric pressure (hPa)			
— mean	989,9	992,9	984,6
— max.	1014,5	1018,2	1009,1
— min.	965,6	965,6	952,9
Temperature (°C)			
— mean	1,6	1,8	1,3
— max.	6,3 (03.01)	9,1 (15.02)	9,3 (01.03)
— min.	-2,3 (11.01)	-4,3 (24.02)	-6,4 (22.03)
Wind velocity ($m \cdot s^{-1}$)			
— mean	4,6	5,1	7,2
— number of days with wind velocity over $20 m \cdot s^{-1}$ at 11 m above ground	5	10	20
Precipitation (mm)			
— monthly total	32,8	53,8	47,7
— number of days with precipitation	28	23	26
Snow cover thickness (cm)			
— mean	0	—	—
— max.	0	—	—
— min.	0	—	—
— number of days with snow cover	0	2	12
Sunshine			
— mean value in hours per day	2,5	4,0	4,0
Cooling			
— monthly mean	13,6	14,3	16,4
Water temperature (°C) of the Admiralty Bay at 0,5 m			
— mean	0,5	0,8	0,6
— max.	1,4	1,4	1,1
— min.	-1,0	-0,4	-0,2
Ice phenomena in the Admiralty Bay:	single growlers	single growlers, brash ice	single growlers, brash ice

“—” — lack of data

Table 1b

Meteorological data from Polish Antarctic Station "H. Arctowski" for the II quarter of 1987

Parameters	Month	April	May	June
Atmospheric pressure (hPa)				
— mean		989,1	997,4	992,9
— max.		1008,0	1019,4 (22.05)	1017,0 (05.06)
— min.		962,9	972,1 (05.05)	962,7 (27.06)
Temperature (°C)				
— mean		-2,5	-5,3	-7,6
— max.		4,6 (19.04)	7,2 (29.05)	2,9 (26.06)
— min.		-11,4 (21.04)	-20,3 (21.05)	-27,3 (21.06)
Wind velocity ($m \cdot s^{-1}$)				
— mean		5,9	5,0	5,3
— number of days with wind velocity over 20 $m \cdot s^{-1}$ at 11 m above ground		12	11	10
Precipitation (mm)				
— monthly total		41,6	36,4	25,5
— number of days with precipitation		27	27	28
Snow cover thickness (cm)				
— mean		8	39	55
— max.		—	61	67
— min.		—	6	34
— number of days with snow cover		26	—	—
Sunshine				
— mean value in hours per day		0,8	0,7	0,2
Cooling				
— monthly mean		18,1	18,0	18,3
Water temperature (°C) of the Admiralty Bay at 0,5 m				
— mean		-0,6	1,2	-1,5
— max.		0,1	0,2 (01.05)	-1,3
— min.		-1,4	-1,6 (22.05)	-1,7
Ice phenomena in the Admiralty Bay:				
		growlers, brash ice	single growlers, icebergs, open ice floes, close ice floes, shuga, ice foot, young coastal ice	open ice floes, close ice floes, young coastal ice, shuga, ice foot, single growlers

"—" — lack of data

Table 1c

Meteorological data from Polish Antarctic Station “H. Arctowski” for the IIIrd quarter of 1987

Parameters	Month	July	August	September
Atmospheric pressure (hPa)				
— mean		993,7	1000,2	988,3
— max.		1031,4 (28.07)	1021,4 (27.08)	1017,0 (19.09)
— min.		957,8 (20.07)	972,0 (23.08)	958,8 (11.09)
Temperature (°C)				
— mean		-13,2	-4,1	-5,6
— max.		1,0 (20.07)	5,0 (07.08)	3,1 (05.09)
— min.		-27,4 (12.07)	-19,3 (02.08)	-18,2 (25.09)
Wind velocity ($m \cdot s^{-1}$)				
— mean		5,4	7,6	7,7
— number of days with wind velocity over $20 m \cdot s^{-1}$ at 11 m above ground		13	16	22
Precipitation (mm)				
— monthly total		16,9	19,0	14,2
— number of days with precipitation		26	18	29
Snow cover thickness (cm)				
— mean		47	50	47
— max.		50	74	54
— min.		39	36	36
— number of days with snow cover		—	—	—
Sunshine				
— mean value in hours per day		0,9	2,6	2,7
Cooling				
— monthly mean		20,8	19,5	20,6
Water temperature (°C) of the Admiralty Bay at 0,5 m				
— mean		-1,9	-1,8	-1,8
— max.		-1,5	-1,6	-1,7
— min.		-2,0	-1,9	-1,9
Ice phenomena in the Admiralty Bay:		single growlers, shuga, young coastal ice, nilas	young ice in Ezcurra Fjord, single growlers, brash ice, ice foot, shuga	young ice in Ezcurra Fjord, nilas, single growlers, open and close floes, ice foot

“—” — lack of data

Table 1d

Meteorological data from Polish Antarctic Station "H. Arctowski" for the IVth quarter of 1987

Parameters	Month	October	November	December
Atmospheric pressure (hPa)				
— mean		989,6	982,6	987,2
— max.		1007,8 (24.10)	1014,8 (02.11)	1003,6 (23.12)
— min.		960,1 (27.10)	963,5 (08.11)	966,8 (10.12)
Temperature (°C)				
— mean		-1,4	1,0	2,1
— max.		5,8 (14.10)	7,3 (02.11)	12,0 (22.12)
— min.		-12,6 (01.10)	-5,0 (09.11)	-2,2 (02.12)
Wind velocity (m·s⁻¹)				
— mean		7,7	8,4	5,4
— number of days with wind velocity over 20 m·s ⁻¹ at 11 m above ground		22	23	13
Precipitation (mm)				
— monthly total		14,9	81,7	40,2
— number of days with precipitation		22	24	26
Snow cover thickness (cm)				
— mean		37	—	0
— max.		52	16	0
— min.		17	—	0
— number of days with snow cover		—	19	0
Sunshine				
— mean value in hours per day		3,7	5,3	3,4
Cooling				
— monthly mean		19,4	18,6	15,4
Water temperature (°C) of the Admiralty Bay at 0,5 m				
— mean		-1,6	-0,9	0,2
— max.		-0,8	-0,3 (30.11)	1,1 (29.12)
— min.		-1,8	-1,8 (13.11)	-0,8 (06.12)
Ice phenomena in the Admiralty Bay:				
		young ice in Ezcurra Fjord behind Dufayel I., nilas, ice foot, close ice floes, open and very open ice floes, single growlers, brash ice	first year ice in Ezcurra Fjord behind Dufayel I., in some places ice foot, brash ice, grow- lers, brash ice, very open ice floes, icebergs	first year ice in Ezcurra Fjord behind Dufayel I. until 7.12., afterwards ice- bergs, brash ice, single growlers

"—" — lack of data

Prepared by Jan Niemiec and Zygmunt Rawa