

Supporting Information for

The AntAWS dataset: a compilation of Antarctic automatic weather station observations

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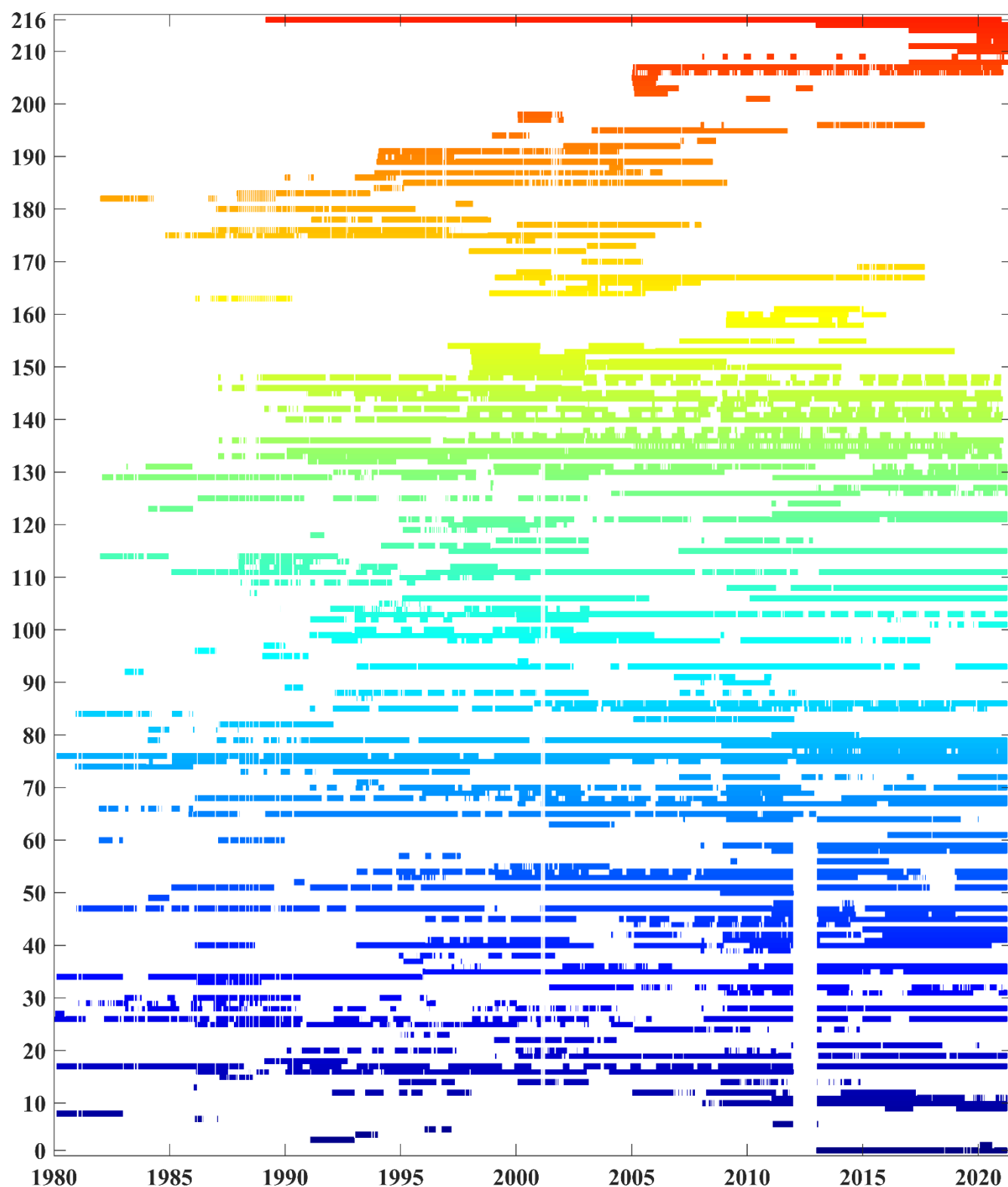


Fig.S1. Daily data availability of air pressure. The missing value has no colour, and 1-216 corresponds to NO. in supplement Table S1.

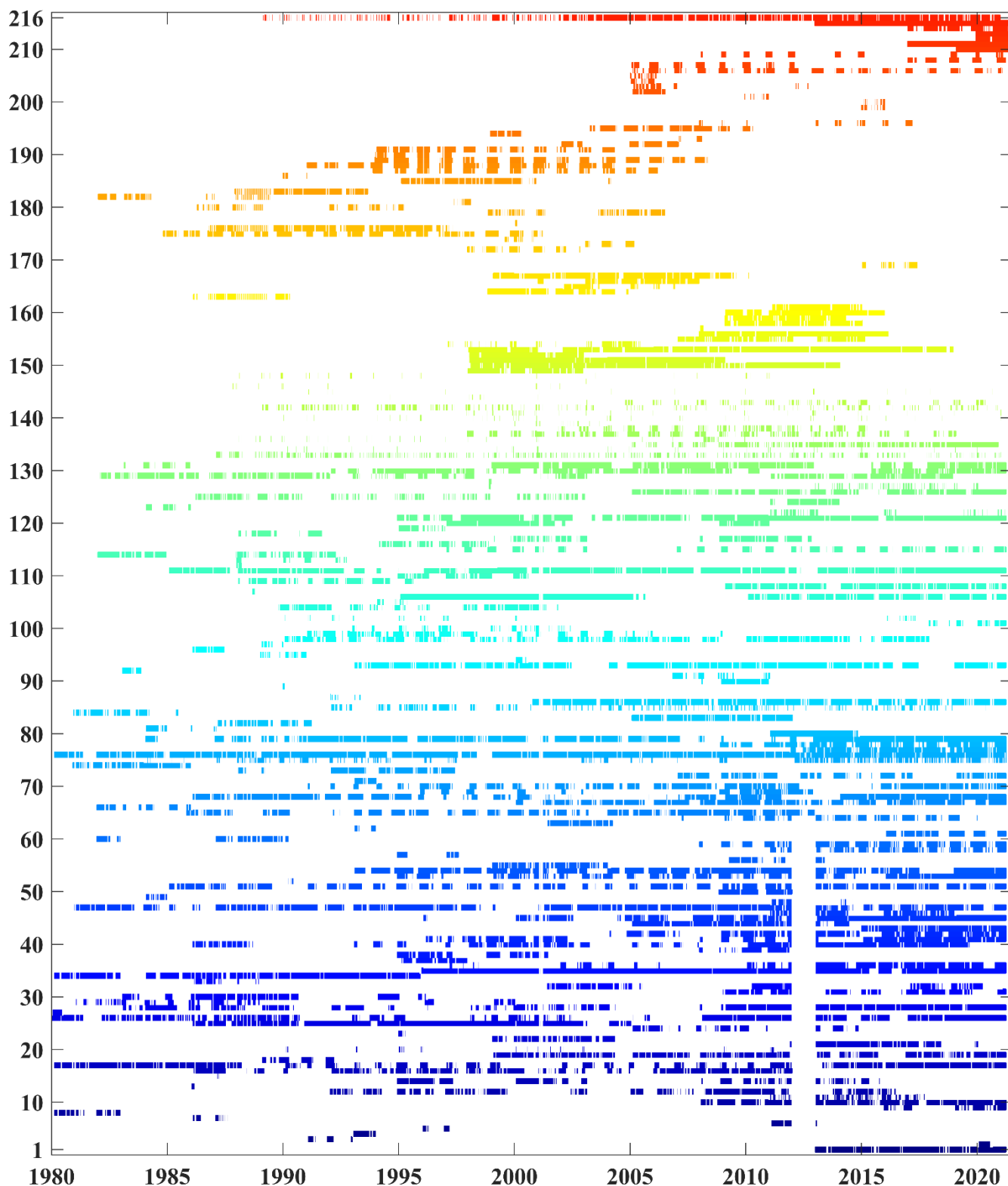


Fig.S2. Daily data availability of wind speed. The missing value has no colour, and 1-216 corresponds to NO. in supplement Table S1.

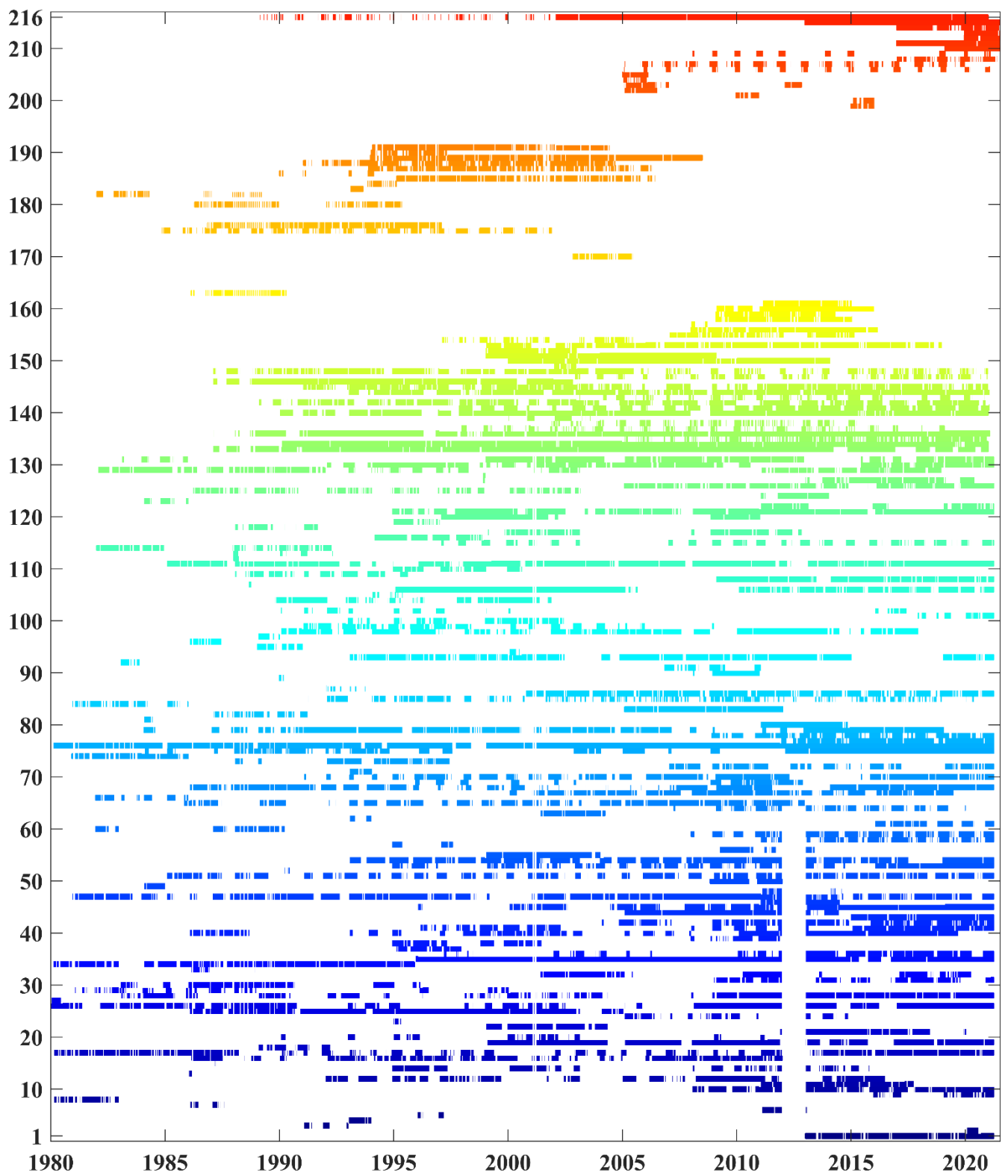


Fig.S3 Daily data availability of wind direction. The missing value has no colour, and 1-216 corresponds to NO. in supplement Table S1.

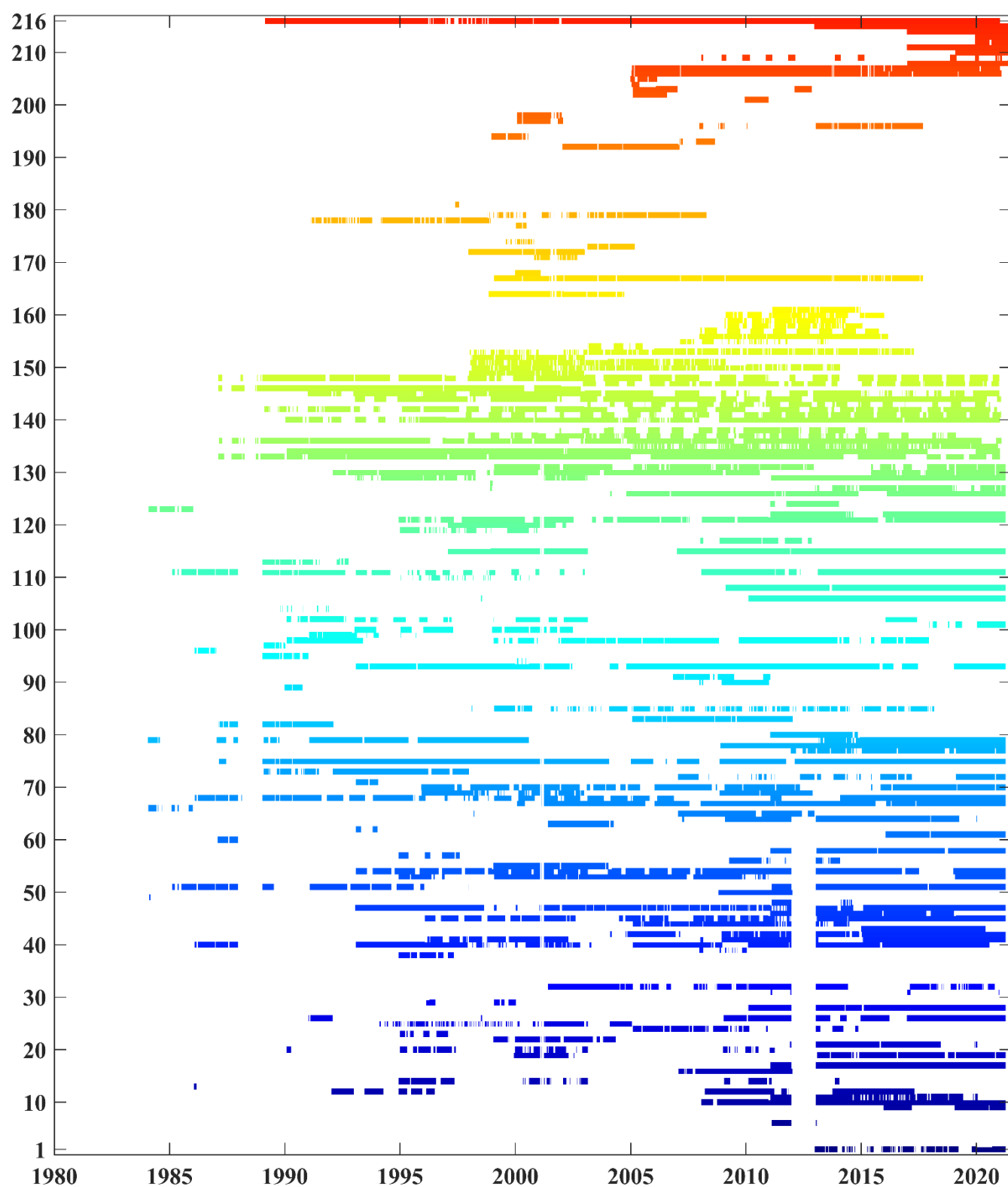


Fig.S4. Daily data availability of relative humidity. The missing value has no colour, and 1-216 corresponds to NO. in supplement Table S1.

Table S1. Main characteristics of automatic weather station.

No.	Station	Lat(°C)	Lon(°C)	Elevation(m)	Institution
1	AGO-4	-82.01	96.76	3597	AMRC
2	AGO-5	-77.24	123.52	3519	AMRC
3	AGO Site	-77.52	-23.74	1545	AMRC
4	AGO-A81	-81.5	3.74	2410	AMRC
5	AGO-A84	-84.36	-23.86	2103	AMRC
6	Alexander (TT!)	-79	170.76	55	AMRC
7	Allison	-89.88	-60	2835	AMRC
8	Asgard	-77.6	161.07	1750	AMRC
9	Austin	-75.99	-87.48	1292	AMRC
10	Baldrick	-82.77	-13.05	1968	AMRC
11	Bear Peninsula	-74.55	-111.87	416	AMRC
12	Bonaparte Point	-64.78	-64.07	8	AMRC
13	Bowers	-85.2	163.4	2090	AMRC
14	Brianna	-83.89	-134.18	520	AMRC
15	Buckle Island	-66.87	163.24	520	AMRC
16	Butler Island	-72.21	-60.17	91	AMRC
17	Byrd	-80.01	-119.44	1539	AMRC
18	Cape Adams	-75.01	-62.53	25	AMRC
19	Cape Bird	-77.22	166.44	38	AMRC
20	Cape Denison	-67.01	142.66	31	AMRC
21	Cape Hallett	-72.32	170.23	1	AMRC
22	Cape Spencer	-77.97	167.53	23	AMRC
23	Cape Webb	-67.94	146.81	37	AMRC
24	Carolyn	-79.9	175.95	52	AMRC
25	Clean Air	-90	0	2835	AMRC
26	D-10	-66.71	139.84	243	AMRC
27	D-17	-66.73	139.7	438	AMRC
28	D-47	-67.39	138.73	1560	AMRC
29	D-57	-68.2	137.54	2105	AMRC
30	D-80	-70.04	134.88	2500	AMRC
31	D-85	-70.43	134.15	2651	AMRC
32	Dismal Island	-68.09	-68.83	12	AMRC
33	Dolleman Island	-70.58	-60.92	396	AMRC
34	Dome C	-74.5	123	3280	AMRC
35	Dome C II	-75.11	123.35	3250	AMRC
36	Dome F	-77.31	39.7	3810	AMRC
37	Dome Fuji	-77.31	39.7	3810	AMRC
38	Doug	-82.32	-113.24	1433	AMRC
39	E-66	-68.91	134.62	2485	AMRC
40	Elaine	-83.07	174.24	59	AMRC
41	Elizabeth	-82.61	-137.08	523	AMRC
42	Emilia	-78.43	173.19	52	AMRC
43	Emma	-84	-175.05	76	AMRC
44	Eric	-81.49	163.96	46	AMRC
45	Erin	-84.9	-128.87	988	AMRC

46	Evans Knoll	-74.85	-100.4	178	AMRC
47	Ferrell	-77.78	170.82	43	AMRC
48	Ferrell II	-77.83	170.82	45	AMRC
49	Fogle	-77.9	166.72	200	AMRC
50	Fossil Bluff	-71.33	-68.28	63	AMRC
51	Gill	-79.82	-178.54	53	AMRC
52	Halley Bay	-75.5	-26.65	52	AMRC
53	Harry	-83.01	-121.41	956	AMRC
54	Henry	-89	-0.41	2781	AMRC
55	Herbie Alley	-78.1	166.67	30	AMRC
56	Hugo Island	-64.96	-65.67	25	AMRC
57	J.C.	-85.07	-135.52	549	AMRC
58	Janet	-77.18	-123.39	2085	AMRC
59	JASE2007	-75.89	25.83	3661	AMRC
60	Jimmy	-77.87	166.81	200	AMRC
61	Kathie	-78	-97.27	1607	AMRC
62	Kelly	-89	-179.61	2950	AMRC
63	Kirkwood Island	-68.34	-69.01	30	AMRC
64	Kominko-Slade	-79.47	-112.11	1801	AMRC
65	Larsen Ice Shelf	-67.01	-61.55	17	AMRC
66	Laurie	-77.55	170.09	25	AMRC
67	Laurie II	-77.43	170.74	34	AMRC
68	Lettau	-82.48	-174.59	38	AMRC
69	Limbert	-75.91	-59.26	40	AMRC
70	Linda	-78.38	168.46	41	AMRC
71	Lindsay	-89	-89.85	2940	AMRC
72	Lorne	-78.18	170.04	44	AMRC
73	Lynn	-74.21	160.41	1772	AMRC
74	Manning	-78.75	166.85	66	AMRC
75	Manuela	-74.95	163.69	78	AMRC
76	Marble Point	-77.44	163.75	108	AMRC
77	Marble Point II	-77.44	163.76	111	AMRC
78	Margaret	-79.98	-165.1	67	AMRC
79	Marilyn (Byrd Glacier)	-79.9	165.77	62	AMRC
80	Marlene	-83.65	-167.42	83	AMRC
81	Martha I	-78.31	-172.5	42	AMRC
82	Martha II	-78.38	-173.42	18	AMRC
83	Mary	-79.31	162.99	58	AMRC
84	Meeley	-78.52	170.18	49	AMRC
85	Minna Bluff	-78.55	166.69	895	AMRC
86	Mizuho	-70.7	44.29	2260	AMRC
87	Mount Howe	-87.32	-149.55	2400	AMRC
88	Mount Siple	-73.2	-127.05	230	AMRC
89	Mt.Erebus	-77.53	167.13	3700	AMRC
90	Mt.Fleming	-77.53	160.28	1868	AMRC
91	Mulock	-79.03	160.19	378	AMRC
92	Nancy	-77.91	168.17	25	AMRC

93	Nico	-89	90.02	2979	AMRC
94	Noel	-79.33	-111.08	1833	AMRC
95	Pat	-74.88	163.1	30	AMRC
96	Patrick	-89.88	45	2835	AMRC
97	Pegasus	-78	166.64	10	AMRC
98	Pegasus North	-77.95	166.5	8	AMRC
99	Pegasus South	-77.99	166.56	5	AMRC
100	Penguin Point	-67.62	146.18	30	AMRC
101	Phoenix	-77.95	166.76	10	AMRC
102	Port Martin	-66.82	141.39	39	AMRC
103	Possession Island	-71.89	171.21	30	AMRC
104	Racer Rock	-64.07	-61.61	17	AMRC
105	Recovery Glacier	-80.82	-22.26	1220	AMRC
106	Relay Station	-74.02	43.06	3353	AMRC
107	Rothera	-67.57	-68.13	15	AMRC
108	Sabrina	-84.24	-170.26	86.62	AMRC
109	Sandra	-74.49	160.49	1525	AMRC
110	Santa Claus Island	-64.96	-65.67	25	AMRC
111	Schwerdtfeger	-79.82	170.36	54	AMRC
112	Scott Island	-67.37	-179.97	30	AMRC
113	Shristi	-74.7	161.57	1200	AMRC
114	Siple	-75.9	-83.92	1054	AMRC
115	Siple Dome	-81.65	-148.99	667	AMRC
116	Ski-Hi	-74.98	-70.77	1395	AMRC
117	Sky Blu	-74.79	-71.49	1510	AMRC
118	Sushila	-74.41	161.31	1441	AMRC
119	Sutton	-67.08	141.37	871	AMRC
120	Swthinbank	-81.2	-126.18	959	AMRC
121	Theresa	-84.6	-115.85	1454	AMRC
122	Thurston Island	-72.53	-97.55	225	AMRC
123	Tiffany	-77.95	166.17	25	AMRC
124	Tom	-84.43	-171.48	79	AMRC
125	Uranus Glacier	-71.36	-68.8	753	AMRC
126	Vito	-78.41	177.83	50	AMRC
127	White Island	-78.08	167.45	686	AMRC
128	White Out	-77.87	168.16	30	AMRC
129	Whitlock	-76.14	168.39	262	AMRC
130	Willie Field	-77.87	166.92	9	AMRC
131	Windless Bight	-77.73	167.67	40	AMRC
132	Young Island	-66.23	162.28	30	AMRC
133	Alessandra	-73.59	166.62	160	PNRA
134	Areliis	-76.72	162.97	150	PNRA
135	Concordia	-75.1	123.4	3233	PNRA
136	Eneide	-74.7	164.09	91	PNRA
137	Giulia	-75.54	145.86	2510	PNRA
138	Irene	-71.65	148.66	2094	PNRA
139	Jennica	-74.69	164.12	20	PNRA

140	Lola	-74.14	163.43	1621	PNRA
141	Maria	-74.63	164.01	355	PNRA
142	Modesta	-74.64	160.65	1924	PNRA
143	Paola	-72.83	159.19	2385	PNRA
144	Rita	-74.73	164.03	268	PNRA
145	Silvia	-73.05	169.6	568	PNRA
146	Sofia	-74.82	163.23	40	PNRA
147	Sofiab	-75.61	158.59	1552	PNRA
148	Zoraida	-74.16	162.74	880	PNRA
149	aws04	-72.75	-15.48	35	IMAU
150	aws05	-73.1	-13.17	360	IMAU
151	aws06	-74.47	-11.52	1160	IMAU
152	aws08	-76	-8.05	2400	IMAU
153	aws09	-75	0	2900	IMAU
154	aws10	-79.57	-45.78	890	IMAU
155	aws11	-71.17	-6.8	690	IMAU
156	aws12	-78.65	35.63	3620	IMAU
157	aws13	-82.12	55.03	3730	IMAU
158	aws14	-67.02	-61.5	50	IMAU
159	aws15	-67.57	-62.12	50	IMAU
160	aws16	-71.95	23.33	1300	IMAU
161	aws17	-65.93	-61.85	50	IMAU
162	A028	-68.41	112.22	1622	AAD
163	A028-A	-68.41	112.22	1622	AAD
164	A028-B	-68.41	112.22	1622	AAD
165	AM01	-69.44	71.42	65	AAD
166	AM02	-69.71	72.64	47	AAD
167	AmeryG3	-70.89	69.87	84	AAD
168	Apfel	-66.34	100.81	150	AAD
169	AuroraBN	-71.17	111.37	2714	AAD
170	B9Berg	-67.24	148.46	35	AAD
171	BrownGl	-53.09	73.64	640	AAD
172	DSS	-66.8	112.81	1376	AAD
173	DSS-A	-66.8	112.81	1376	AAD
174	Eder	-66.96	143.94	52	AAD
175	GC41	-71.6	111.26	2791	AAD
176	GF08	-68.49	102.18	2123	AAD
177	GF08-A	-68.49	102.18	2123	AAD
178	Lanyon	-66.28	110.8	390	AAD
179	Lanyon-A	-66.28	110.8	390	AAD
180	LawDome	-66.73	112.74	1376	AAD
181	LawDome-A	-66.73	112.74	1376	AAD
182	LGB00	-68.66	61.11	1830	AAD
183	LGB00-A	-68.66	61.11	1830	AAD
184	LGB00-B	-68.66	61.11	1830	AAD
185	LGB00-C	-68.66	61.11	1830	AAD
186	LGB10	-71.29	59.21	2620	AAD

187	LGB10-A	-71.29	59.21	2620	AAD
188	LGB20	-73.83	55.67	2741	AAD
189	LGB35	-76.04	65	2342	AAD
190	LGB46	-75.85	71.5	2352	AAD
191	LGB59	-73.45	76.79	2537	AAD
192	LGB69	-70.84	77.07	1854	AAD
193	LGB69-A	-70.84	77.07	1854	AAD
194	MtBrown	-69.13	86	2064	AAD
195	MtBrown-A	-69.13	86	2064	AAD
196	Panda	-73.69	76.97	2584	AAD
197	Ranvik	-68.86	78.04	339	AAD
198	Rumdoodle	-67.72	62.81	430	AAD
199	AWS_A	-75.55	-27.45	-	BAS
200	AWS_B	-75.58	-26.79	-	BAS
201	Ferrigno	-74.57	-86.91	1385	BAS
202	Gomez	-74	-70.61	1400	BAS
203	Jurassic	-74.54	-73.21	1361	BAS
204	Latady	-72.69	-78.03	200	BAS
205	Wormold	-67.47	-68.14	-	BAS
206	Dome_A	-80.37	77.37	4093	CHINARE/AAD
207	Eagle	-76.42	77.02	2825	CHINARE/AAD
208	Kunlun	-80.43	77.12	4093	CHINARE
209	Panda-South	-82.33	75.99	4027	CHINARE/AMRC
210	Panda100	-70.22	76.65	1352	CHINARE
211	Panda200	-70.97	77.19	1952	CHINARE
212	Panda300	-72	77.95	2344	CHINARE
213	Panda400	-72.86	77.38	2572	CHINARE
214	Panda1100	-79.01	76.99	3736	CHINARE
215	Taishan	-73.86	76.98	2626	CHINARE
216	Zhongshan	-69.37	76.38	18	CHINARE

Table S2. Station list with their 3-hourly mean, max and min values of meteorological elements

NO.	Station	3-hourly data														
		Temperature (°C)			Pressure(hPa)			Wind Speed(m/s)			Wind Direction			Relative Humidity (%)		
		mean	max	min	mean	max	min	mean	max	min	mean	max	min	mean	max	min
1	AGO-4	-52.6	-17.7	-79	617.7	646.5	579.9	5.3	14.3	0	264.8	360	0	52	98	0.4
2	AGO-5	-58.8	-24.5	-78.6	654.9	678.9	635.6	2.7	7.6	0	241.3	360	3	NaN	NaN	NaN
3	AGO Site	-26.1	-2	-50.4	807.7	831.3	772.5	6.1	32.3	0	115.2	360	0	NaN	NaN	NaN
4	AGO-A81	-42.1	-13.5	-74.3	721.4	743.8	688.9	8	14.8	0	96.2	360	0	NaN	NaN	NaN
5	AGO-A84	-34.5	-10.2	-59.4	754.5	779.6	726.4	8.5	22.5	0	79.7	360	0	NaN	NaN	NaN
6	Alexander (TT!)	-20.7	-0.5	-53.1	983.2	1020	946	8.1	24.3	0	221.1	360	0	75.5	98	35
7	Allison	-50.4	-18	-74.7	688.7	710.8	664	3.4	14.9	0	75.7	360	0	41.5	67	11
8	Asgard	-22.9	-2.6	-44.5	801.2	836.3	768.5	3.1	22.5	0	172.8	360	0	NaN	NaN	NaN
9	Austin	-23.2	-1	-52.7	834.2	865.4	796.3	7.7	27.1	0	151.2	360	0	78.2	100	30
10	Baldrick	-37.6	-7.7	-64.2	760.9	792.2	724.8	8.2	20.8	0	83.1	360	0	57.5	90.2	28.4
11	Bear Peninsula	-13.5	4.8	-40.7	927.6	980.3	874.5	8.1	43.3	0	113.9	360	0	79.1	100	7
12	Bonaparte Point	-2.1	10.4	-25.2	982.1	1034.6	899.8	4	25.1	0	149	360	0	82	100	0
13	Bowers	-27.8	-11	-52.5	752.6	766.6	728.8	6	20.9	0	183	320	0	44.9	70	16
14	Brianna	-21.5	1.4	-56.5	921.3	960.3	873.5	7.6	25.8	0	76.7	360	0	69.2	99.2	15
15	Buckle Island	-10.7	3.4	-27.5	924.5	1006.9	881.5	6.5	23.2	0	176.9	360	0	NaN	NaN	NaN
16	Butler Island	-16.9	10.2	-57.6	975.2	1020	926.9	4.5	31	0	196.2	360	0	81	100	0.9
17	Byrd	-26	1.3	-63.2	807.9	844	762.8	7	27.7	0	137.7	360	0	76	100	46
18	Cape Adams	-23	4.9	-49.3	982.3	1021.2	935.4	3.3	29.5	0	186.8	360	0	NaN	NaN	NaN
19	Cape Bird	-15.4	6.9	-45	982	1027.3	935.2	3.7	32	0	115.8	360	0	68	99.9	15
20	Cape Denison	-10.2	9	-33.8	983.4	1024.4	930.9	20	53.9	0	154.7	360	0	62.1	100	12
21	Cape Hallett	-15.3	5.8	-41.6	987.8	1022.5	950.6	2.6	29.7	0	185.4	360	0	68.7	100	19
22	Cape Spencer	-21.1	3.4	-55.6	989	1031.7	947.9	3.4	25	0	166.6	360	0	77.2	100	9.5
23	Cape Webb	-10.7	14.2	-36.9	986.7	1022.1	939.7	13.3	33	0	194.7	358	0	67.9	100	12
24	Carolyn	-24.4	1.9	-66	978.3	1020.2	927.9	4.9	22	0	222.5	360	0	77.3	99.9	11.9
25	Clean Air	-49.8	-14.1	-80.5	681.1	718.2	602.2	3.9	15.5	0	98.8	360	0	42.4	95	0
26	D-10	-13.2	9.2	-36.8	952.3	997.5	902	8.3	35.1	0	150.4	360	0	57	100	0
27	D-17	-13.1	3.4	-35.5	917.8	942.3	886.9	10.3	29.1	0.2	160.4	231	0	NaN	NaN	NaN
28	D-47	-24.6	-2.5	-48.6	806.2	842.1	769.6	11.7	37.4	0	147.5	360	0	73.7	100	35
29	D-57	-29.1	2.6	-61.1	750.4	783.8	713.9	9.7	34.3	0	145.3	360	0	63.2	96	13
30	D-80	-41.6	-7.1	-71	711.6	747.1	672.2	5.8	35	0	163.8	360	0	27.5	44	0
31	D-85	-41.6	-9.4	-67.4	696.3	726.6	666.6	6.3	20.1	0	165.5	360	1	46.1	99.4	6.2
32	Dismal Island	-4.6	7.1	-33.2	984.6	1030.1	923.9	6.4	30.3	0	148.3	360	0	84	100	0.9
33	Dolleman Island	-18.2	5.1	-39.7	942.5	980.1	904	5.5	24.9	0	167.4	360	0	NaN	NaN	NaN
34	Dome C	-54.3	-10.8	-82.9	644.3	680.5	608.1	2.8	15.7	0	184.6	360	0	NaN	NaN	NaN
35	Dome C II	-54.2	-10.6	-82.1	642.3	676.6	603.6	3.2	15.8	0	199.1	360	0	NaN	NaN	NaN
36	Dome F	-57	-13.2	-82.9	596.6	626.8	561.2	3	35.1	0	161.7	360	0	NaN	NaN	NaN
37	Dome Fuji	-57.8	-18	-82	596.6	619.3	584.6	2.6	12.6	0	153	360	0	NaN	NaN	NaN
38	Doug	-24.2	-5	-56.5	812	842.6	778.4	8.3	27.3	0	100.8	360	0	75.1	98	16
39	E-66	-37.4	-8.1	-65.4	714.8	747.6	684.6	8.4	20.5	0	149	360	0	59.8	92.2	12.2
40	Elaine	-22.2	3.5	-62	982	1030.8	928.5	4	28.2	0	180.7	360	0	70.4	100	1
41	Elizabeth	-24	2.4	-61.8	918	957.9	872.7	5.3	27.7	0	144.3	360	0	74.2	100	12
42	Emilia	-24.7	4.5	-66.8	977.8	1024.2	924.1	5.4	22.8	0	209.2	360	0	71.4	99.8	8
43	Emma	-19.9	4.7	-56.7	975.8	1012.2	927.2	5.5	33.3	0	151.6	360	0	71.1	98	30

44	Eric	-24.3	2.8	-61.4	983.4	1023.3	932.8	3	22.4	0	198.6	360	0	71.2	99.8	9.1
45	Erin	-21.1	-0.2	-52.8	867.4	909.9	819.1	11.7	34	0	76.1	360	0	75.9	100	5.6
46	Evans Knoll	-12.7	5.5	-39.2	961.1	1010.7	912.2	5	34.1	0	174.4	360	0	77.2	100	19.8
47	Ferrell	-22.9	6.1	-58.1	983.4	1025.5	933.1	5.4	31.2	0	193.2	360	0	78.2	100	1
48	Ferrell II	-24	-0.4	-53.8	983.4	1020.6	947.3	6.2	24.3	0	199	360	0	76.5	99	46
49	Fogle	-17.3	4.2	-37.4	964	989.3	927.4	7.5	24.7	0	146.1	360	0	68	100	8
50	Fossil Bluff	-8.5	6.8	-40.4	977.2	1017.2	917.1	2.9	23.4	0	228.8	360	0	78.3	99.1	22.1
51	Gill	-27.4	5.5	-65.1	979.9	1024	923.2	4.1	23.9	0	201.4	360	0	63.6	100	2
52	Halley Bay	-21.2	-3.8	-45	983.5	1016.6	955.2	7.2	27.5	0	110	360	0	NaN	NaN	NaN
53	Harry	-22.8	1.2	-59.6	869.8	907.9	826.6	7.7	28.4	0	61.3	360	0	78.4	100	14
54	Henry	-46.3	-9.4	-75.1	690.1	728.6	651	5	17.4	0	91.4	360	0	46.4	84.2	0
55	Herbie Alley	-19.9	6.1	-55.6	989	1030.2	946.9	3.2	30.6	0	153.5	360	0	72.7	100	11.8
56	Hugo Island	-8.8	4.5	-34.8	983.9	1028.2	924.5	7.8	25.4	0	156.6	360	0	86.2	100	19.6
57	J.C.	-15.5	1.1	-43	920.9	947.3	876.6	9.3	28.3	0	71.4	360	0	73.1	100	19
58	Janet	-27	-2.7	-62	746.7	782.9	709.9	5.9	27.2	0	112.7	360	0	75.2	95.9	20.7
59	JASE2007	-52.4	-15	-80.5	608.8	636.5	575.1	4.5	19.5	0	112.2	360	0	NaN	NaN	NaN
60	Jimmy	-17.6	9.4	-42	962.9	1009.5	924.8	5.2	23.6	0	108.7	360	0	54.6	89	6
61	Kathie	-27.3	-5.9	-61.5	797.5	828.3	762	5.8	24.8	0	114.6	360	0	73.1	92	47
62	Kelly	-44.1	-18.4	-71.6	NaN	NaN	NaN	3.3	11.3	0	217	360	0	39.4	69	5
63	Kirkwood Island	-5.8	5.2	-37.1	982.2	1021.8	941.1	6.2	26.6	0	164.8	360	0	81.2	99.5	27.7
64	Kominko-Slade	-27.7	-2.2	-66.2	778.5	813.6	736.8	6.4	27.9	0	94.5	360	0	71	99.6	8.7
65	Larsen Ice Shelf	-13.9	14.5	-53.5	985.3	1035.8	928.2	3.7	21.1	0	173.5	360	0	81.7	98.8	0
66	Laurie	-19.1	0	-69.7	978.3	1012.2	916.3	5.9	27.3	0	183	360	0	68.9	100	6
67	Laurie II	-22	4.5	-56.4	983.7	1025.9	939	6	30	0	198.7	360	0	77.3	100	11.8
68	Lettau	-26.4	4	-63	982.6	1027.2	928	4.3	24.9	0	172	360	0	65.3	100	1
69	Limbirt	-22.4	5	-52.4	985.8	1024	938	4.7	23.7	0	177.4	360	0	82.3	100	18
70	Linda	-21.3	4.6	-55.4	979.6	1025.5	809.8	6.4	35.7	0	192	360	0	76.3	100	10
71	Lindsay	-48.1	-20.6	-76	681.3	701.9	661.5	3.1	11.3	0	147.8	360	0	40.1	86	5
72	Lorne	-20.8	3	-54.9	983	1024.6	938.1	5.9	25.9	0	197.8	360	0	76.4	99.8	19.2
73	Lynn	-34.8	-6.1	-62.4	780.9	813.7	744.6	9.2	23.7	0	264.2	360	0	41.2	100	0
74	Manning	-21.8	3.1	-54.6	980.9	1024	942.6	4.2	20.8	0	216.5	360	0	NaN	NaN	NaN
75	Manuela	-18.3	13.5	-42.3	979.1	1021.9	933.9	12.6	47.6	0	262.6	360	0	47.6	100	12.9
76	Marble Point	-16.3	8.4	-44.6	975.6	1017.4	0.2	3.3	26.5	0	178.4	360	0	NaN	NaN	NaN
77	Marble Point II	-15.7	5.6	-40.4	973.6	1009.6	929.6	3.9	32.5	0	193.7	360	0	59.7	95.3	13.6
78	Margaret	-27.6	1.6	-64.7	974.1	1012	921.6	3.5	20.1	0	179	360	0	66.8	100	12.2
79	Marilyn (Byrd Glacier)	-22.6	4.9	-58.2	981.2	1025	928.9	5.6	33.8	0	214.6	360	0	69.7	100	11.5
80	Marlene	-23.9	0.2	-58.2	976.1	1014.2	935.2	6.1	32.4	0	155.9	360	0	74.1	96.7	41
81	Martha I	-18.9	3	-59.9	978.9	1008.5	929.4	4.2	19.7	0	173.6	360	0	NaN	NaN	NaN
82	Martha II	-26.1	3	-64.8	980.7	1017.7	932.8	4.3	21.1	0	160.6	360	0	56.2	86	4
83	Mary	-20.7	4.5	-58.1	983.7	1025.2	938.8	4.9	23.4	0	242.4	360	0	62	93	9
84	Meeley	-23.8	-0.1	-56.4	983.5	1025	932.7	5.5	24.2	0	194.2	360	0	NaN	NaN	NaN
85	Minna Bluff	-22.1	3.5	-48.5	876.8	950.3	831.8	6.5	54.3	0	190.2	360	0	78.1	100	0
86	Mizuho	-28.8	1.9	-54.6	737.9	775.2	698.9	10.3	24.4	0	94.7	360	0	NaN	NaN	NaN
87	Mount Howe	-34.5	-16	-57.6	715.5	736.8	688.8	13.1	32.3	0	122.5	360	0	NaN	NaN	NaN
88	Mount Siple	-9.3	4.8	-42.4	953.9	1002.6	890.2	0.6	9.5	0	47.4	359	0	59.7	72.5	35.6
89	Mt.Erebus	-32.8	-15.6	-50.6	589.3	617.6	562.1	5.3	27.4	0	178	360	0	44.3	75	11
90	Mt.Fleming	-23.3	-3.9	-45	764	797.5	727.3	8.7	31.9	0	198.1	360	0	47.5	93	5
91	Mulock	-19.9	3.1	-45.6	936.3	975.1	894.5	13.7	42.6	0	306	359	1	69	99.8	11.8
92	Nancy	-24.2	-0.1	-54.9	986.3	1025.8	948.9	2.3	22.5	0	147.6	360	0	NaN	NaN	NaN
93	Nico	-47.9	-11.1	-81	669.5	709.1	635.8	4.1	18.5	0	264.6	360	0	49.8	90.5	6

94	Noel	-28	-12.1	-52.2	776.5	799.5	749.7	7.8	27.5	0	93.7	360	0	85	100	12
95	Pat	-17.3	4.3	-38.8	988.1	1024.6	953.3	10.6	31.8	0	247	360	0	45.7	100	16
96	Patrick	-49.6	-16.1	-78.6	680.6	706.7	647.3	3.4	14.1	0	105.1	360	0	38.2	60	12
97	Pegasus	-24.9	0.5	-50	952.1	1017.5	593.6	3.9	27.9	0	98.7	360	0	55.4	91	2
98	Pegasus North	-19.7	6.4	-53	989.3	1030.9	944.4	3.6	32.8	0	112.3	360	0	70.9	100	4
99	Pegasus South	-20.6	14.9	-52.9	991.7	1034.6	943.7	3.1	33	0	106.5	360	0	63.5	100	0
100	Penguin Point	-12.4	6.2	-38	977	1019.3	934.7	11.4	41.6	0	156.6	360	0	70.2	100	14
101	Phoenix	-17.5	2.1	-50.2	985.3	1013.7	894.2	4.2	28.6	0	117.7	360	0	72	100	30
102	Port Martin	-10.5	8.9	-33.8	984.5	1025.1	943.1	15.4	43.9	0	159.6	360	0	64.1	100	12.6
103	Possession Island	-11.3	10.8	-36.2	975.6	1016.7	934.7	0	0	0	359	359	359	NaN	NaN	NaN
104	Racer Rock	-2.1	7.2	-28.4	987.7	1034.7	934	5.4	29.5	0	145.2	360	0	80.9	100	30
105	Recovery Glacier	-29	-4.2	-60.6	846.6	876	810.3	5.5	21.5	0	66.8	360	0	NaN	NaN	NaN
106	Relay Station	-50.2	-10.6	-75.5	636.3	671	600.9	7.3	20.6	0	94	360	0	51	86.5	0
107	Rothera	-6.5	3.6	-22.3	984.8	1016	954.9	3.7	14.2	0	106.1	360	0	NaN	NaN	NaN
108	Sabrina	-20.4	2.9	-57.4	975.6	1015	925.1	6.4	35.4	0	152.9	360	0	69.9	100	30
109	Sandra	-33.6	0.2	-56.8	803.1	991.6	762.2	9.4	26.2	0	273	356	0	NaN	NaN	NaN
110	Santa Claus Island	-1.9	5.9	-31.4	985.6	1030.9	938.6	5.7	27.7	0	193.1	360	0	88	100	6
111	Schwerdtfeger	-25.6	3.4	-62.9	980.3	1023	928.5	4.8	21.1	0	217.7	360	0	70.4	100	2
112	Scott Island	-7.3	4.5	-32.2	977.6	1022.9	809.8	4.7	18.7	0	167.3	360	0	NaN	NaN	NaN
113	Shristi	-30.5	-4.1	-55.1	852.8	884.4	819	8.3	24.9	0	289.8	359	0	43	79	2
114	Siple	-24.5	0.1	-53.4	861.4	896.7	820	5.2	22.1	0	183	360	0	NaN	NaN	NaN
115	Siple Dome	-21.9	4.4	-57.1	891.7	931.1	840.4	3.7	26.3	0	130.9	360	0	65	100	1
116	Ski-Hi	-19	4.1	-51.6	826.2	858.9	786.6	5.5	35.3	0	160.6	360	0	NaN	NaN	NaN
117	Sky Blu	-18.7	1.4	-52.3	803.5	844.4	756.5	6.6	41.1	0	114.7	360	0	78.2	95.8	11.9
118	Sushila	-37	-4.5	-56	794.2	824.4	767.1	8.8	19.6	0	124	360	0	NaN	NaN	NaN
119	Sutton	-20.4	-0.9	-41.2	879.1	915.5	846.2	14.7	38.4	0	192.5	360	0	75.7	100	18
120	Swithinbank	-21.7	1.5	-51	867.5	904.2	824.4	8	24.8	0	181.2	360	0	74.3	100	14
121	Theresa	-22.1	-1	-55.2	816.1	849.8	778.6	9.7	33.9	0	91.2	360	0	74.2	100	10
122	Thurston Island	-10.7	4.7	-36.4	952.9	1001.9	897.3	5.7	44.5	0	166.9	360	0	82.5	100	19
123	Tiffany	-21.6	4.5	-56.4	985.1	1013.5	948	2.6	18.1	0	155.4	360	0	53.6	96	1
124	Tom	-17.6	2	-55.3	978.4	1012.8	936.4	5.9	27.7	0	180.1	360	0	73.6	100	24
125	Uranus Glacier	-11	8.5	-48.1	899.3	952.3	850	4.6	26.5	0	177.6	360	0	NaN	NaN	NaN
126	Vito	-25.6	5.9	-60.5	981.3	1025	930	5	22.2	0	208.6	360	0	74.3	99.9	11.2
127	White Island	-18.6	2.4	-41.1	894.5	995	836.8	8.7	57	0	201.9	360	0	68	100	0
128	White Out	-6.3	0.6	-13.5	984	997.8	967	2.7	15	0.2	185.4	345	1	64.9	100	12
129	Whitlock	-16.7	6.2	-43.5	953.9	992.5	911.5	4.5	31	0	188.2	360	0	80.7	100	10
130	Willie Field	-20.1	5.1	-56.9	988.5	1030.3	940.9	3.5	24.8	0	107.2	360	0	67.6	100	8.2
131	Windless Bight	-19.2	5.5	-58.2	985.8	1032.5	941.8	2.4	20.5	0	142.4	360	0	67.4	100	7
132	Young Island	-8.1	4.2	-35	979.3	1021.7	928.9	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
133	Alessandra	-15.1	7.5	-39.3	970	1009.3	926.9	2.3	60	0	179.1	360	0	56.6	99	5
134	Arelis	-15.8	7.3	-41.5	969.9	1011.5	924.4	8.8	59	0	205.5	360	0	57.2	99	3
135	Concordia	-56.2	-15.1	-83.1	642.3	676.8	603.7	6.4	36	0	191.1	360	0	43.5	84	13
136	Eneide	-13.6	9.2	-39.2	978.1	1019.5	934.7	4.7	60	0	220.6	360	0	47.7	99	5
137	Giulia	-43.5	-11.4	-71.5	712.2	773.8	633.5	10.8	36	0	212	360	0	55.7	99	27
138	Irene	-36.7	-4.6	-65.9	756.3	790.9	722.3	10.7	32	0	149.1	360	0	64.2	99	26
139	Jennica	-13.4	10	-36	NaN	NaN	NaN	4.6	42	0	216.2	360	0	NaN	NaN	NaN
140	Lola	-22.4	1.1	-49	796.2	833	690.4	5.2	60	0	162.1	360	0	43.1	99	1
141	Maria	-15.2	5.2	-38.9	944.9	983	905	6.4	59	0	232.4	360	0	57.6	99	13
142	Modesta	-36.9	-3.7	-62.7	762.2	799	724.5	12.8	37	0	286.7	360	0	55.7	99	7
143	Paola	-37.6	-5.8	-65	723.6	787.2	661.4	7.9	32	0	181.6	360	0	65.1	99	34
144	Rita	-15.2	6.9	-46.4	954.7	1027.5	744.5	8.1	60	0	246.1	360	0	47.1	99	3

145	Silvia	-16.9	7.7	-40.5	921.2	963.2	873.7	9.3	60	0	195.9	360	0	63.7	99	0
146	Sofia	-18	5	-44.3	985	1024.7	941.8	7.7	60	0	198.2	360	0	45.7	97	7
147	Sofiab	-25.9	-5.1	-55.1	804.1	838.6	764.4	12.8	60	0	179.4	360	0	64.8	95	3
148	Zoraida	-21.7	3.4	-47.9	900	951.3	842.9	23.4	60	0	299.9	360	0	40.9	99	2
149	aws04	-18.3	1.9	-51.5	979.4	1018.5	934.6	5.1	26.6	0.1	135.6	358.3	5.5	93.9	100	50.8
150	aws05	-16.1	3.2	-87.7	943.1	979.4	862.9	6.6	31.7	0.1	88.4	359.9	0.1	82.3	100	16.4
151	aws06	-20.1	1.2	-45.6	855.1	888.9	818.6	6.6	29.3	0.1	69.2	359.9	0.1	77.3	100	18
152	aws08	-38.6	-6.9	-68.7	718.5	748.7	600	5.3	24.2	0.1	74.2	360	0.1	94.3	100	27
153	aws09	-43.3	-11.7	-72.5	676.7	706.1	640.2	4.4	24.3	0.1	87.7	360	0.1	95.2	100	11.7
154	aws10	-22.3	15	-49.1	879.6	917.6	849	3.7	30.5	0.1	148.1	360	0	95.3	100	17
155	aws11	-17.3	-0.6	-39.4	903	938.9	816.7	7.7	30.7	0.1	150.1	359.8	0.3	84.4	100	10.4
156	aws12	-54.5	-14.2	-83.7	NaN	NaN	NaN	4.4	16.8	0.1	159.5	360	0	91.8	100	47.3
157	aws13	-54.9	-19.5	-85.5	NaN	NaN	NaN	4.5	12.3	0.1	182.6	359.9	0	92.1	100	34.6
158	aws14	-15.4	4.3	-49.4	985.7	1028.1	932.6	3.8	19.9	0.1	175.9	360	5.9	93.7	100	36
159	aws15	-15.4	5.4	-49.6	985.6	1028.9	932.1	3.9	21.2	0.1	175.5	360	0	94.8	100	58
160	aws16	-17.9	3	-37.4	827.4	860.5	788.5	4.7	25	0.1	138	360	0.3	55.7	100	10
161	aws17	-15.5	6.8	-42.1	987.6	1029.5	950.2	3.9	21.1	0.1	179.2	359.8	0.5	92.1	100	30.8
162	A028	-27.5	-7.1	-51.8	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
163	A028-A	-26.2	-2.4	-59.5	797.8	841	759.1	11.7	25.8	0	146.7	343	11	NaN	NaN	NaN
164	A028-B	-26.4	-6.4	-52.5	800.5	834.2	764.8	10	22	0	NaN	NaN	NaN	68.7	96	12
165	AM01	NaN	NaN	NaN	978.3	1012.4	885.4	7.4	51.1	0	NaN	NaN	NaN	NaN	NaN	NaN
166	AM02	NaN	NaN	NaN	982.1	1019.4	474.5	5.5	21.1	0	NaN	NaN	NaN	NaN	NaN	NaN
167	AmeryG3	-21.3	8.3	-53.3	979.6	1020	494.6	7.7	26.4	0	NaN	NaN	NaN	74.5	100	16
168	Apfel	-9.7	5.8	-31.2	967.2	994.6	935.4	NaN	NaN	NaN	NaN	NaN	NaN	61.9	98	12
169	AuroraBN	-43.6	-13.8	-66	692.3	719.6	659.2	6	14.3	0.2	NaN	NaN	NaN	NaN	NaN	NaN
170	B9Berg	-16.7	6.4	-40	980.9	1020.1	941	NaN	NaN	NaN	202.1	357	0	NaN	NaN	NaN
171	BrownGl	-1.5	14.9	-12.3	NaN	NaN	NaN	3.3	17.5	0.1	NaN	NaN	NaN	81.9	100	8
172	DSS	-21	-2.7	-45.8	822.4	853.8	793.8	6.2	24.9	0	NaN	NaN	NaN	75.6	96	6
173	DSS-A	-21	-4.5	-45.6	823.3	856.6	790	6.5	26	0	NaN	NaN	NaN	76.7	96	16
174	Eder	-13.7	2	-31.4	981.5	1022.8	947.6	10.9	29.6	0	NaN	NaN	NaN	66.4	98	28
175	GC41	-44.7	-5.6	-75.4	689.3	730.1	644.2	5.8	17.5	0	137.6	349	0	NaN	NaN	NaN
176	GF08	-31.3	-5.2	-62.2	741.2	781.6	364.4	13.4	38.9	0	99.2	349	0	NaN	NaN	NaN
177	GF08-A	-30	-7.1	-54.6	749	777.4	709.2	10.6	18.1	0.3	NaN	NaN	NaN	63.2	86	44
178	Lanyon	NaN	NaN	NaN	934.5	973.9	894.4	NaN	NaN	NaN	NaN	NaN	NaN	80	99	14
179	Lanyon-A	-11.4	6.4	-43.2	NaN	NaN	NaN	6.2	37.6	0	NaN	NaN	NaN	71.1	100	8
180	LawDome	-21.3	-1.9	-48.3	817.7	861.4	409.2	8.1	31.8	0	112.1	355	0	NaN	NaN	NaN
181	LawDome-A	-20.2	-3.4	-42.3	822.9	849.8	789.4	6.1	19	0	NaN	NaN	NaN	72.6	84	34
182	LGB00	-28.8	-3.5	-52.4	749.3	774.4	370.6	9.9	26.1	0	150.8	352	6	NaN	NaN	NaN
183	LGB00-A	-29	-4.5	-51	776.6	818.6	383.6	11.5	30.8	0	158	282	68	NaN	NaN	NaN
184	LGB00-B	-27.4	-5	-48.3	775.4	794.6	742.6	NaN	NaN	NaN	170.3	349	79	NaN	NaN	NaN
185	LGB00-C	-29.1	-8.1	-50.1	774.6	808.8	380.5	10.2	26.1	0	138.4	338	0	NaN	NaN	NaN
186	LGB10	-40.1	-15.3	-62.8	699.6	726.8	356.2	6.6	14.2	0.3	212.6	345	6	NaN	NaN	NaN
187	LGB10-A	-39.8	-5.9	-60.3	700.1	734.7	355.4	6.4	18.2	0	200.5	349	0	NaN	NaN	NaN
188	LGB20	-42.9	-12.4	-64.3	716.5	740.6	351.1	7.1	18.4	0	197.2	343	0	NaN	NaN	NaN
189	LGB35	-37.7	-7.9	-62.3	728.8	764.7	361.6	10	23.1	0	138.6	349	0	NaN	NaN	NaN
190	LGB46	-37.3	-11	-62.7	728.2	761.2	698.1	7	17.8	0	97.5	349	0	NaN	NaN	NaN
191	LGB59	-34.8	-8.7	-59.4	707.8	739.2	669.3	9.8	21.5	0.2	50.2	349	0	NaN	NaN	NaN
192	LGB69	-26.6	-3.7	-48.5	774.9	801.8	738.8	9.3	22.1	0	NaN	NaN	NaN	70.8	94	30
193	LGB69-A	-25.3	-10.9	-43.2	775.1	802.8	750.6	8.9	18.7	1.3	NaN	NaN	NaN	68.6	90	22
194	MtBrown	-29.9	-10.6	-52.8	752.7	779	729	9.8	22.4	0	NaN	NaN	NaN	62.4	86	30
195	MtBrown-A	-29.6	-6.6	-54	754.2	783.8	371.7	9.2	23.1	0	NaN	NaN	NaN	NaN	NaN	NaN

196	Panda	-34.9	-5.8	-59.1	700.3	727.6	663.2	8.9	18.4	0	NaN	NaN	NaN	57.3	82	10
197	Ranvik	-12.2	3.8	-30.1	944.1	970.6	903	NaN	NaN	NaN	NaN	NaN	NaN	64.7	98	14
198	Rumdoodle	-14.2	3.2	-33.8	936.1	964.8	896.6	NaN	NaN	NaN	NaN	NaN	NaN	53.5	94	14
199	AWS_A	-16.6	0.7	-53.6	NaN	NaN	NaN	9.2	38.7	0	128.9	350	0	NaN	NaN	NaN
200	AWS_B	-17.6	-0.1	-54.3	NaN	NaN	NaN	8.8	39.7	0	128.5	332.9	0	NaN	NaN	NaN
201	Ferrigno	-24.6	-1.5	-39.7	820	846.1	272.7	14	43.6	0	113.8	359.8	0	76.7	94.7	18.8
202	Gomez	-16.9	-2.2	-42.6	850	886	806.7	5.9	18.9	0	99.1	359.9	0	75.2	97.5	22.7
203	Jurassic	-20.7	-1.6	-54.2	830	866	401.3	6.8	43.5	0	116.5	359.9	0	79.1	97.2	0
204	Latady	-8.6	14.3	-28.8	928.9	970.6	889.7	5.2	22.7	0	236	358.7	0	92.8	100	30.6
205	Wormold	-5.9	4.5	-26.6	949.4	987.6	860.6	3.9	23.6	0	218.5	359.9	0	84.9	100	22
206	Dome_A	-53.2	-12.5	-81.5	575	799.2	500	2.6	13.2	0.1	176.9	360	0	41.8	78	10
207	Eagle	-42.8	-11.6	-68	682.6	716	643.6	4.5	16	0	65.9	360	0	53.7	90	20
208	Kunlun	-53.6	-18.3	-80.6	573.5	602	545	3.7	13.5	0	141.3	359	0	55	81	30
209	Panda-South	-37.6	-16.5	-61.6	587.7	608.8	563.4	4	17	0	222.1	360	0	41.3	80.3	5.6
210	Panda100	-22.1	-3.7	-43.8	826.7	850	799	13.4	29.5	1.1	127.1	342	3	72.9	93	48
211	Panda200	-26.7	-6	-49	763.4	793	731	10.9	27.2	0.6	78.4	353	0	71.6	90	44
212	Panda300	-30.9	-9.4	-52.5	723.3	748	699	9.3	22.2	0	73.9	359	0	67.6	86	39
213	Panda400	-33.3	-10.3	-55.2	709.5	735	687	9	18	0	71.3	359	0	33.9	50	18
214	Panda1100	-48.6	-15.1	-70.2	603.2	633	576	6.5	18.7	0.1	127.2	359	0	55.1	79	38
215	Taishan	-36.1	-9.2	-60	696.7	728	500	10.3	21.7	0.5	78.1	360	0	66.7	92	46
216	Zhongshan	-9.8	9.1	-44.9	984.8	1032.4	926.9	6.2	32	0	95.5	360	0	57.3	99	13

Table S3. Station list with their daily mean, max and min values of meteorological elements

NO.	Station	Daily data														
		Temperature (°C)			Pressure(hPa)			Wind Speed(m/s)			Wind Direction			Relative Humidity (%)		
		mean	max	min	mean	max	min	mean	max	min	mean	max	min	mean	max	min
1	AGO-4	-52.2	-19.8	-77.9	617.7	645.9	582.1	5.3	11.9	0.8	264.8	346.4	67	52	88.5	29
2	AGO-5	-56.9	-27.9	-76.5	654.9	678.3	636.6	2.7	5.1	0.5	241.3	334.7	43.2	NaN	NaN	NaN
3	AGO Site	-25.9	-5.9	-48.6	807.7	830.2	775.5	6.6	25.7	0.5	113.1	358.6	11.5	NaN	NaN	NaN
4	AGO-A81	-42.1	-17.4	-71.5	720.4	742.6	692.8	8	13.6	2	98.1	358.3	1.5	NaN	NaN	NaN
5	AGO-A84	-34.3	-12.2	-58.9	754.6	778.7	727.8	8.5	19.1	0	78.9	252.9	0	NaN	NaN	NaN
6	Alexander (TT!)	-21.5	-1.8	-51.8	983.2	1019	951.3	8.2	22.4	1.2	221.3	315.3	63	75.5	95.6	50.2
7	Allison	-51.2	-22	-73	688.7	709.5	664.8	3.3	10.6	0	74.4	348.5	0	43.5	60	16.8
8	Asgard	-23	-3.7	-42.4	801.2	833.4	770.4	3.4	21.1	0.1	169.7	304.5	10.3	NaN	NaN	NaN
9	Austin	-23.2	-3.8	-52	834.4	864.9	802.6	7.6	22.1	0.3	152.8	351.3	0.5	78.3	95.8	55.5
10	Baldrick	-37.6	-9.4	-63	760.9	789.5	728	8.2	17.7	0.4	83	341.4	5.8	57.5	87	30
11	Bear Peninsula	-13.5	3.5	-39	927.5	977.7	880.4	9.1	38.8	0.1	114.1	338.5	6	79.3	100	10.2
12	Bonaparte Point	-2.2	7.1	-22.5	982.1	1027.8	903	4.4	19.9	0	147.6	354.3	0	81.9	100	0
13	Bowers	-27.7	-13.4	-51.6	752.4	765.8	730	6.6	19.1	0.6	182.2	266.9	90.6	45	67	33.8
14	Brianna	-21.8	-1.3	-55.3	921.3	956.8	880.3	7.7	21.1	0	76.6	351.5	19	69.1	97.8	31
15	Buckle Island	-10.8	0.7	-25.7	924.7	1002.9	888.6	6.7	19.3	0	172.8	329.7	0.7	NaN	NaN	NaN
16	Butler Island	-16.7	6.6	-56.7	975.1	1017	929.4	4.7	24	0	195.2	360	0	81	97.9	33.7
17	Byrd	-26.5	-1.5	-59.7	807.9	841.2	767.6	7.1	24.2	0	139.7	360	0.5	76	94.7	57.1
18	Cape Adams	-23.1	0.5	-48	982.3	1019.6	938	3.4	19.7	0	186.3	341.8	0	NaN	NaN	NaN
19	Cape Bird	-15.4	4.6	-42	982	1022.8	942.6	4	26.8	0.1	115.7	291.9	4.4	68	99.8	30.6
20	Cape Denison	-10.3	5.6	-32.9	983.3	1021.8	939.1	19.9	46.8	0	154.6	241.3	30	62.6	99.5	26.2
21	Cape Hallett	-15.5	1.6	-38.1	987.8	1021.6	953.2	2.9	26.4	0.1	184.9	290.9	3.7	68.7	95.6	33.1
22	Cape Spencer	-22.1	0.4	-54.5	989	1029.8	952.9	3.6	22.7	0.1	166.6	318.1	36.1	77.4	100	42.8

23	Cape Webb	-10.6	10	-35.8	986.6	1019.8	951	13.8	31.5	1	200.6	351.7	99.1	68	99.8	36.1
24	Carolyn	-25.2	-0.1	-64.7	978.3	1016.4	934.1	4.9	19.5	0	222.7	356	16.5	77.7	99.9	32.9
25	Clean Air	-50.1	-16.8	-78.6	681	717.8	603.2	3.9	11.7	0.1	99.2	359.3	4.5	42.4	78.5	4.1
26	D-10	-13	4.8	-34	952.3	993.3	912.9	8.5	33.1	0	150.4	310.6	0	57.2	100	0
27	D-17	-13	-1.3	-32.8	917.8	940.2	888.2	10.5	24.1	2.5	160.4	204.5	117.5	NaN	NaN	NaN
28	D-47	-24.4	-4.4	-45.8	806.1	840.6	771.3	11.7	24.4	0.8	147.5	325.8	1.5	73.7	98.1	43.9
29	D-57	-29.2	0.1	-60.2	750.3	782.7	717	9.9	29.6	0.6	145.9	300	36.3	63.2	92.1	39.1
30	D-80	-40.2	-11.3	-69.2	711.5	745.5	676.3	5.9	18.5	0.1	164.3	360	15.8	27.5	27.5	27.5
31	D-85	-40.4	-12.7	-64.9	696.3	723.8	667.9	6.3	18	0.7	165.5	354.5	37.8	46.4	58.2	35.6
32	Dismal Island	-4.8	4.5	-30.4	984.5	1028.8	938	6.8	24.5	0	146.3	358.4	3.9	84.2	100	46.6
33	Dolleman Island	-18.1	3.1	-38	942.5	979	909.4	5.5	22	0	166.2	352	0	NaN	NaN	NaN
34	Dome C	-51.2	-11	-80.6	644.3	678.4	608.8	2.8	12	0	183.3	358.6	0	NaN	NaN	NaN
35	Dome C II	-50.6	-13.3	-81	642.3	675.5	604.1	3.2	13.5	0	199.1	359	16.2	NaN	NaN	NaN
36	Dome F	-54.2	-17	-80	596.6	625.2	563	3	29.9	0	161.5	359.2	0	NaN	NaN	NaN
37	Dome Fuji	-55.1	-21	-78.5	596.6	615.2	586	2.6	10.1	0	151.5	353	0	NaN	NaN	NaN
38	Doug	-24.4	-6.2	-55.2	812.1	841.5	782.2	8.4	26.9	0.1	101	359.8	6	75.1	97.3	49
39	E-66	-36	-14	-63.4	714.5	747.4	685.8	8.4	18.2	1	148.9	303.1	24.5	59.8	90	39.8
40	Elaine	-23.2	0.9	-60.5	982	1028.2	939.9	4.3	26.5	0	179.2	348.6	0	70.2	100	1
41	Elizabeth	-24.2	0.5	-59.9	918.1	957.2	878.6	5.4	21.4	0	143.7	353.8	0	74.2	98.4	44.3
42	Emilia	-25.2	-0.4	-61.2	977.6	1023.4	928.6	5.4	20.1	0	209.2	347.7	0	71.3	98.6	42.3
43	Emma	-20.6	2.2	-55.6	975.8	1008.5	937.8	6	28.6	0.1	151.6	326.5	12	71.1	96.1	39
44	Eric	-24.7	0.9	-60.1	983.3	1021.5	944.1	3.2	19.8	0.1	198.6	347	25.6	71.5	99.6	36.2
45	Erin	-21.3	-1.9	-50.1	867.5	908.9	823.2	12	30.3	0	76.3	332.3	0	76.1	99.9	41.1
46	Evans Knoll	-13	3.1	-36.5	961.1	1008.4	919	5.5	23.2	0	174.1	339.6	10.5	77.2	98.5	28.9
47	Ferrell	-23.5	2.9	-56.4	983.4	1022.4	937.6	5.7	25.4	0	192.6	351.3	0	78.5	99.8	1
48	Ferrell II	-24.7	-2.6	-53.5	983.4	1020	952.6	6.2	20.9	0.1	198.5	332.4	21.5	76.4	95.9	48.5
49	Fogle	-17.6	2.7	-35.6	964	986.1	935.6	7.8	20.5	1.1	146.6	337	38.6	68.6	99	26.8
50	Fossil Bluff	-8.9	3.1	-38.3	977.2	1016.1	933.5	3.2	22.2	0.2	229	341	55.8	78.2	97.4	43.6
51	Gill	-28	2	-64.1	979.9	1021.2	931.7	4.1	17.9	0	200.7	358	0	63.5	96.9	15.9
52	Halley Bay	-21.5	-4.5	-41.3	983.6	1015.3	958.9	8.2	24.5	0.9	108.5	293.5	46.5	NaN	NaN	NaN
53	Harry	-23.1	-1	-55.7	869.8	904.6	833.7	7.8	23.1	0	61.4	359.7	0	78.8	99.7	44.8
54	Henry	-46.3	-12.7	-73.8	690.1	727.5	657	5	14.4	0	91.6	358.3	4.5	46.4	79.4	0
55	Herbie Alley	-20.9	3	-52.7	989	1029	954.4	3.8	28.6	0	153.5	304.1	0	72.8	99.3	13.3
56	Hugo Island	-8.9	3.2	-33.2	983.9	1026.9	935.4	8.1	23.4	0	156.6	334.1	14.5	86.5	100	22.1
57	J.C.	-15.8	-0.6	-40	920.8	943.8	886	9.6	26.3	0.5	71.5	311.8	18	73.2	96.5	42.5
58	Janet	-27.6	-4.2	-58.6	746.7	780.7	710.6	6.2	24.1	0	112.6	351.3	0	75.2	92.2	41.2
59	JASE2007	-49.8	-17.6	-78	608.8	634.4	575.9	4.5	16.4	0.4	112.7	344	10.4	NaN	NaN	NaN
60	Jimmy	-18.1	1.9	-38.8	962.9	1008.6	930.8	5.2	21	0	108.5	357	0	54.6	84.5	22.5
61	Kathie	-27.5	-7.8	-60.7	797.5	827.9	764.3	5.9	23.2	0.1	114.9	339.8	2.3	73.1	90.2	56.2
62	Kelly	-44	-22.8	-70.1	NaN	NaN	NaN	3.3	8.6	0.4	216.3	300.9	98.2	39.4	63.3	12.8
63	Kirkwood Island	-6.1	2.9	-34.5	982.2	1021.4	947	6.7	20.8	0.2	164.5	351.9	20.6	81.4	98	47.7
64	Kominko-Slade	-28.2	-3.8	-63.7	778.5	812.3	739.1	6.5	23.3	0	94.2	354.3	4.5	71	98.3	37.9
65	Larsen Ice Shelf	-14.1	13.5	-50.9	985.3	1035	931.2	3.7	17.3	0	172	355	0	81.6	96.2	0
66	Laurie	-19.7	-2.5	-68.8	978.4	1010	919.6	6.4	26.1	0	181.7	345.4	15	69.1	97.1	28.7
67	Laurie II	-22.5	0.7	-54.6	983.7	1023	942.9	6.3	27	0	198.9	353	0	77.4	99.8	38.5
68	Lettau	-26.8	1.9	-61.4	982.6	1024.6	941.3	4.4	22	0	171.4	360	0	65.2	98.8	29.3
69	Limbirt	-22.8	1.2	-51.2	985.8	1022.6	944.4	4.8	22.2	0	176.1	359.4	0	82.6	100	49.4
70	Linda	-22	1	-53.5	979.6	1022.9	812.4	6.8	32.1	0	191.8	336.9	0	76.4	99.9	37.2
71	Lindsay	-48.4	-22.2	-74.8	681.2	700.3	663	3.1	9.3	0.1	147.7	294.5	27.3	40	68.1	15.9
72	Lorne	-21.4	0.3	-52.2	983	1022.3	943.3	6.1	23.6	0	197.9	353.2	4.5	77.1	99.8	39.5
73	Lynn	-33.8	-11	-61	780.9	811.1	747.7	9.4	19.1	0.8	264.1	348	14.8	41.3	93.8	19.1

74	Manning	-22.9	0.4	-51.9	980.9	1021.6	946	4.3	18.6	0	213.9	326.1	0	NaN	NaN	NaN
75	Manuela	-18.1	9.7	-40.9	979.2	1018.9	938	13.4	43.9	0	262.4	335	0	47.5	97.9	22.9
76	Marble Point	-16.4	5.1	-41.4	975.6	1015	749.5	3.4	23.7	0.1	178.2	350.4	19.4	NaN	NaN	NaN
77	Marble Point II	-15.8	2.8	-37.7	973.6	1008.2	937.4	4.1	25.9	0.3	193.7	343.5	37.7	59.7	93.6	23.5
78	Margaret	-28	0.2	-62	974.1	1011.3	929.2	3.5	18.6	0	178.7	344.9	7	66.8	96.1	36.7
79	Marilyn (Byrd Glacier)	-22.9	0.7	-56.6	981.3	1022.1	939	5.8	27.4	0	214.7	352.4	0	69.7	99.1	30.3
80	Marlene	-24.5	-1.8	-56.8	976.1	1013.1	943	6.3	31.5	0	155.8	315.3	58	74.1	94.5	42.5
81	Martha I	-19.5	2.9	-56.6	979.3	1005.5	941.9	4.3	13.7	0	178.7	313	46.3	NaN	NaN	NaN
82	Martha II	-26.8	0.5	-63	980.7	1017	938	4.3	18.8	0	159.3	304.9	0	56.2	86	30.1
83	Mary	-21.3	1.3	-57.3	983.7	1023.8	945.6	5.1	19.5	0.5	241.8	328.8	6	61.8	91.9	30
84	Meeley	-24.3	-1	-55.6	983.4	1022.7	948	5.6	22.7	0.1	193.3	348.5	0	NaN	NaN	NaN
85	Minna Bluff	-22.2	0.9	-47.4	876.8	949.2	836.5	7.1	43.2	0	189.5	353.9	0	78.7	100	3
86	Mizuho	-28.1	-0.3	-53.4	737.7	773.3	701.7	10.4	22.3	0	95	350.3	33	NaN	NaN	NaN
87	Mount Howe	-34.8	-18.4	-55	715	736.2	693.3	13.3	29.3	0	121.2	200.6	24.3	NaN	NaN	NaN
88	Mount Siple	-9.5	1.7	-40.5	954	999.5	890.9	0.4	6.2	0	49.4	222.7	0	57	57	57
89	Mt.Erebus	-32.8	-20.9	-45.9	589.3	615.4	563.1	5.7	25.1	0.2	174.9	324.4	33	44.3	68.3	15.8
90	Mt.Fleming	-23.4	-6.2	-42.7	764	793.3	731.7	9	27.9	0.5	197.8	272.3	1	47.5	87.9	8
91	Mulock	-19.6	0.4	-43.1	936.3	972.8	902.5	14.3	40.6	0	306.1	353.3	92.8	69.2	98.5	39.7
92	Nancy	-24.9	-5	-48.6	986.3	1024.9	951.6	2.5	13.4	0.1	145.4	298.6	17.8	NaN	NaN	NaN
93	Nico	-48.1	-11.9	-79.5	669.5	708.2	638.9	4.1	17.7	0	264	358	0	49.8	83.6	12.8
94	Noel	-28.4	-13.5	-51.2	776.5	797.7	756.1	8.5	23.2	0.4	97.7	358.3	10.8	85.5	99.7	45.6
95	Pat	-17.3	1	-36.5	988.2	1023.2	958	11.4	29.4	0	247.1	342.5	15	45.7	95.5	21.5
96	Patrick	-49.8	-20.9	-77.6	680.5	705.7	648.7	3.4	10.4	0.2	104.9	358.9	0.3	38.2	57.8	20.1
97	Pegasus	-25.2	-2.2	-47.6	951.7	1014.6	594.8	4.2	23.2	0.2	97.4	240	12	55.4	86.1	7.4
98	Pegasus North	-20.4	2.4	-51.4	989.3	1028.9	952.1	3.9	27.8	0	112.2	338.1	0	71	99.4	38.6
99	Pegasus South	-21.1	14	-51.2	991.7	1032.2	948.7	3.5	29.7	0	105.9	344.3	0	63.2	98	0
100	Penguin Point	-12.4	5.2	-34.2	977	1018	938.6	11.5	35.3	0	155.6	256.9	0	70.2	97	26.8
101	Phoenix	-18.1	-1.1	-45.5	984	1010.3	897.9	4.6	27.9	0.2	118	332	39.4	72.1	99.9	44.8
102	Port Martin	-10.5	5.7	-31.5	984.3	1021.4	948.4	15.2	40.8	0	159	351.5	0	64.2	100	18.2
103	Possession Island	-11.1	6.6	-34.9	975.6	1013.4	937.4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
104	Racer Rock	-2.1	4.5	-28.2	987.6	1033.3	936.6	5.9	24.1	0	146.1	349.5	0	82.4	100	46
105	Recovery Glacier	-28.8	-7.2	-58.5	846.4	874.2	817.5	5.5	19.5	0	68.4	356	0	NaN	NaN	NaN
106	Relay Station	-47.5	-13.1	-74	636.3	670.5	602.7	7.3	18.9	0.5	93.6	354.3	2.7	51	84.2	0
107	Rothera	-6.7	1.1	-18.7	984.9	1015	958.4	4	11.4	0.3	108	262.7	17.1	NaN	NaN	NaN
108	Sabrina	-21.1	1.4	-56.2	975.6	1010.3	936.3	6.9	34.6	0	152.9	357	0.5	69.9	100	43.9
109	Sandra	-32.5	-9.8	-56	803	833	764.9	9.6	22.3	0.8	272.9	317.9	100.7	NaN	NaN	NaN
110	Santa Claus Island	-1.9	4.2	-23.7	985.6	1028.5	948.8	6	23.6	0	191.7	340	0	88.9	100	44.4
111	Schwerdtfeger	-26.2	1.1	-61.2	980.3	1020.5	933	4.9	19.1	0	217.3	355	0	70.4	99.4	25.1
112	Scott Island	-7.6	1.9	-31.1	977.5	1016.3	812.4	4.7	17.8	0	149.9	323.8	0	NaN	NaN	NaN
113	Shristi	-29.6	-8.2	-54.1	852.8	883.3	822.2	8.8	22.6	0.7	290.8	342.3	54.5	43	61.6	26.1
114	Siple	-24.4	-3.4	-49.3	861.4	895.9	824.2	5.3	19.2	0	182.3	360	0	NaN	NaN	NaN
115	Siple Dome	-22.3	0.3	-54	891.7	930.5	844.4	3.8	18.8	0	129.4	354.8	0	65	100	15.3
116	Ski-Hi	-19.5	-0.7	-49.3	826.2	858.2	792.5	6.1	32.1	0.1	159.8	358.5	3.3	NaN	NaN	NaN
117	Sky Blu	-19	-2.5	-50.4	803.5	843.3	762.6	7	34.8	0	115.2	357.1	0	78.2	92.9	34.1
118	Sushila	-35.5	-11	-55.1	794.2	822.6	768.4	8.7	17	1.3	126.8	360	2.5	NaN	NaN	NaN
119	Sutton	-20.1	-4.6	-40.8	879.1	913.9	849.3	14.9	31.5	3.6	193.1	358.5	11.1	75.7	97.6	43.5
120	Swthinbank	-21.8	-1.7	-50.3	867.5	903.4	832.4	8.2	21.8	0.4	181.3	358	3.1	74.3	97.9	42.3
121	Theresa	-22.3	-3.1	-53.5	816.1	848.8	781.4	9.9	30.5	0.7	91.3	355	23.4	74.2	98.6	31.9
122	Thurston Island	-10.8	3.3	-33.5	952.9	999.8	908.9	6.4	31.5	0	165.5	328	0	82.6	100	30.6
123	Tiffany	-22.7	0.7	-54.1	985.1	1010.5	952.3	2.8	15.1	0	151.4	311.3	0	53.4	89.6	15.5

124	Tom	-18.7	1.5	-54.3	978.4	1010.5	945.5	6.4	24.9	0.1	180.2	342.8	100.3	73.5	99.1	43
125	Uranus Glacier	-11	4.8	-39.7	899.3	951.2	853.8	4.9	23.2	0	176.7	357.5	0	NaN	NaN	NaN
126	Vito	-26	1.8	-59.8	981.2	1022.2	931.9	5	18.1	0	209	349.1	12	74.4	99.6	41.7
127	White Island	-18.7	-1.3	-37.9	894.4	993.6	846.7	9.7	46.3	0	201.8	340.2	3.3	68.2	100	21.8
128	White Out	-6.2	-2.9	-11.6	984	996.6	968	2.8	5.5	1.4	185.4	292.6	53.4	64.9	82.9	50.1
129	Whitlock	-16.8	3.7	-42.1	953.9	991.1	915	4.6	25.2	0	187.4	353	0	80.8	100	13
130	Willie Field	-21	1	-55.3	988.5	1028.5	945	3.6	21.7	0	107	352.9	0	67.5	100	26.3
131	Windless Bight	-20.1	3.6	-55.1	985.8	1029.3	947	2.5	11.3	0	142.1	351.3	0	67.3	100	25.3
132	Young Island	-8.3	2.9	-31.7	979.3	1020.2	936.9	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
133	Alessandra	-15.3	5.9	-37.8	970	1007.9	930.1	2.6	58	0	179.1	331.3	0	56.6	99	5
134	Arelis	-16	6.6	-39.3	969.9	1010.1	928.6	9.1	58.5	0	205	342.5	0	57	98.3	7.1
135	Concordia	-53.2	-16	-82.3	642.3	675.7	604.7	6.6	29	0	189.9	340	0	43.4	81.5	13.3
136	Eneide	-13.7	8	-38	978.1	1016.2	937.9	5	58.5	0	221.3	346.7	0	47.7	99	8.9
137	Giulia	-42.2	-15	-69.4	712	772.9	637.8	11.3	33.5	0	212.7	323.8	27.5	55.3	98.6	28.3
138	Irene	-34.8	-8	-65.6	756.2	790.3	724.8	11.2	28	0	148.6	316.3	2.5	64	99	26
139	Jennica	-14.3	9.2	-33.7	NaN	NaN	NaN	5	27.3	0.3	219.6	360	15	NaN	NaN	NaN
140	Lola	-22.6	-3.9	-48.3	796.2	832.3	704.9	5.5	58	0	161.9	325	0	42.7	97	2
141	Maria	-15.4	3.3	-37.2	944.8	980.2	906.7	6.6	53	0	232.3	348.8	0	57.5	99	16.4
142	Modesta	-36	-5.5	-61.1	762.2	797	726.8	12.6	30.5	0	287.7	353.3	0	55.6	99	10.9
143	Paola	-36.4	-9.1	-63.9	723.5	786.2	662.9	8.5	28	0	181.4	356.7	0	65	99	34.6
144	Rita	-15.3	5.2	-41.7	954.7	1007.2	745.4	8.2	60	0	246.5	360	0	47.2	99	9.1
145	Silvia	-17	5	-39.8	921.2	958.1	880.9	9.9	60	0	196.6	348.3	0	63.4	99	0.8
146	Sofia	-18.2	4.2	-41.7	985	1023.8	945.3	7.9	58	0	198.9	356.7	0	45.7	95.6	14.8
147	Sofiab	-26.4	-7.5	-52.3	803.9	836.7	770	12.7	60	0	180.6	335	5	64.7	91.3	3
148	Zoraida	-21.6	0	-46	900	944.8	849.8	23.8	60	0	301.9	360	10	40.9	99	2.6
149	aws04	-18.9	0.5	-49.1	979.4	1014.7	946.1	5.2	23.9	0.2	136	271.8	32.2	94.1	99.9	71.1
150	aws05	-16.2	1.5	-87.4	943.1	975.9	909.6	6.8	29.1	0.5	87.2	313	16.1	83	100	35.7
151	aws06	-20.4	-0.4	-44.2	855.1	886	822.6	6.7	24.6	0.9	68.4	311.6	9.5	78	100	30.3
152	aws08	-37.2	-10.5	-67.3	718.5	746.3	692.5	5.3	22.1	0.2	74	356	7.3	94.5	99.9	69.8
153	aws09	-41.7	-12.6	-70.8	676.7	705.5	642	4.5	20.9	0.1	87.7	358.8	0.3	95.4	99.9	41.8
154	aws10	-22.4	14.8	-47.3	879.6	915.5	851.3	3.9	17.4	0.2	147	355.1	12.9	95.6	99.9	38.2
155	aws11	-17.4	-3.7	-36.7	903	932.9	847.9	7.9	28.2	0.1	150.7	346.1	5.3	86.5	99.9	20.7
156	aws12	-52.7	-17.1	-81.8	NaN	NaN	NaN	4.4	11.7	0.2	159.6	356.8	3.2	91.9	99.6	70.9
157	aws13	-54.4	-21.2	-83.5	NaN	NaN	NaN	4.5	10.9	1.7	185	358.2	4.4	92.1	99.9	59.1
158	aws14	-15.9	2.9	-46	985.7	1023.9	947.2	3.9	16	0.1	175.8	347.6	13.4	94	99.9	52.8
159	aws15	-15.9	3.9	-46.1	985.6	1022.5	946.1	3.9	17.4	0.1	175.3	338.2	0.6	95.1	99.9	68.5
160	aws16	-18	-2.3	-35.9	827.4	857.9	792	4.9	20.3	0.3	138	279.7	29.2	56.5	99.9	15.1
161	aws17	-15.5	4.8	-40.5	987.6	1026.1	953.8	4	17.9	0.2	179.4	330	20.2	92.6	99.7	55.4
162	A028	-27.3	-7.7	-48.4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
163	A028-A	-25.9	-4.9	-58.5	797.8	838	765.1	11.8	23	2.1	146.8	211.3	36.8	NaN	NaN	NaN
164	A028-B	-26.2	-7.5	-51.6	800.6	831.3	769.8	10	20.2	1.1	NaN	NaN	NaN	68.8	89	36
165	AM01	NaN	NaN	NaN	977.8	1009.6	885.4	7.5	20.5	0.4	NaN	NaN	NaN	NaN	NaN	NaN
166	AM02	NaN	NaN	NaN	982.1	1019	895	5.6	18.1	0.4	NaN	NaN	NaN	NaN	NaN	NaN
167	AmeryG3	-20.5	3.6	-52	979.5	1019.4	927.5	7.8	25.3	0.1	NaN	NaN	NaN	74.3	100	40.8
168	Apfel	-10	2.4	-30.3	967.2	994.4	939.6	NaN	NaN	NaN	NaN	NaN	NaN	61.9	92.8	35
169	AuroraBN	-41.8	-16.3	-65.6	692.3	717.5	662	6	11.5	1.2	NaN	NaN	NaN	NaN	NaN	NaN
170	B9Berg	-16.5	2.5	-40	981	1016.4	944.4	NaN	NaN	NaN	200.6	329	0	NaN	NaN	NaN
171	BrownGl	-1.3	12.3	-10.5	NaN	NaN	NaN	3.3	9.2	1.1	NaN	NaN	NaN	81.7	100	23
172	DSS	-21.2	-6.4	-43.8	822.5	852.9	795.8	6.4	23.1	0	NaN	NaN	NaN	75.7	95	18
173	DSS-A	-21.1	-6.9	-44.3	823.4	852.4	793.1	6.7	23.2	0.5	NaN	NaN	NaN	76.7	92	22.5
174	Eder	-13.7	-0.1	-30.8	981.3	1021.7	951	11	26.7	0.7	NaN	NaN	NaN	65.9	97.6	30

175	GC41	-44.1	-11.1	-73.7	689.3	728.4	650.8	5.8	15	0.4	137.7	294	3.5	NaN	NaN	NaN
176	GF08	-30.9	-6.4	-60.7	741	779.4	607.4	13.3	30.5	0.9	99.5	229.3	20.8	NaN	NaN	NaN
177	GF08-A	-29.7	-10.3	-53.6	749.1	775.5	711	10.6	17.1	3.9	NaN	NaN	NaN	63.1	83.7	44
178	Lanyon	NaN	NaN	NaN	934.4	972.5	896.8	NaN	NaN	NaN	NaN	NaN	NaN	80.2	99	27.3
179	Lanyon-A	-11.6	1.6	-39.8	NaN	NaN	NaN	6.6	32.2	0	NaN	NaN	NaN	71.1	97.4	13.6
180	LawDome	-21.4	-4.5	-46.8	817.9	860.2	758.5	8.1	29.3	0.1	113.1	343	0	NaN	NaN	NaN
181	LawDome-A	-20.2	-7.3	-41.2	822.8	844.5	792.4	6.2	18.7	0.1	NaN	NaN	NaN	72.9	83.2	50.6
182	LGB00	-28.4	-5.6	-50.9	749.4	773.2	685	9.8	24.5	1.2	150.9	230	85.3	NaN	NaN	NaN
183	LGB00-A	-28.5	-6.7	-49.5	776.7	814.9	703.1	11.4	27.8	1.4	157.9	197.3	99.6	NaN	NaN	NaN
184	LGB00-B	-26.9	-10.3	-47.7	775.4	794.5	745.1	NaN	NaN	NaN	170.3	214	118.3	NaN	NaN	NaN
185	LGB00-C	-28.9	-9.9	-49.3	774.7	806.7	689.3	10.1	23.5	0.1	138.6	261	41.3	NaN	NaN	NaN
186	LGB10	-39.2	-17.5	-60.2	699.7	726.4	640.3	6.5	12.2	0.8	212.4	309.5	88.3	NaN	NaN	NaN
187	LGB10-A	-39.3	-13.3	-59.4	700.2	733.7	639.4	6.3	15.9	0.6	200.8	333.5	69.8	NaN	NaN	NaN
188	LGB20	-42.2	-16.2	-63	716.4	738.9	651.6	7.1	16.2	1	197.4	308.7	39.3	NaN	NaN	NaN
189	LGB35	-36.9	-11.6	-60.1	728.8	762.6	677.4	10	22.9	0.4	138.7	229.8	36.8	NaN	NaN	NaN
190	LGB46	-36.2	-14	-61.5	728.2	758.4	700.7	6.9	16.3	1.1	97.6	199.9	33	NaN	NaN	NaN
191	LGB59	-34.2	-12.6	-56.8	707.9	737	669.7	9.7	19.4	0.5	50.2	331.1	6.8	NaN	NaN	NaN
192	LGB69	-26.1	-7.5	-45.6	775	801.1	744.3	9.4	20	0.1	NaN	NaN	NaN	70.9	92	46
193	LGB69-A	-25	-12.7	-41.7	775	802	752	9	16.8	2.2	NaN	NaN	NaN	68.6	84.3	40.5
194	MtBrown	-29.6	-11.5	-51.5	752.5	777.5	730.6	9.8	19.9	2.3	NaN	NaN	NaN	62.5	79.6	44.3
195	MtBrown-A	-29.3	-9.6	-52.5	754.2	782	695.3	9.3	21.7	0.6	NaN	NaN	NaN	NaN	NaN	NaN
196	Panda	-33.7	-11.9	-58.4	700.3	725.4	666.5	8.8	17.1	2.1	NaN	NaN	NaN	57.1	76	35.7
197	Ranvik	-12.1	2	-29.4	944.1	970.4	913.5	NaN	NaN	NaN	NaN	NaN	NaN	64.6	94.3	37.7
198	Rumdoodle	-14.5	-0.3	-30.9	936	962.4	904.5	NaN	NaN	NaN	NaN	NaN	NaN	53.3	91.5	19
199	AWS_A	-17.3	-2	-51.5	NaN	NaN	NaN	9.6	35	0	129	261.4	29.8	NaN	NaN	NaN
200	AWS_B	-18.1	-2.3	-53.5	NaN	NaN	NaN	9.4	38.4	0	128.1	266	12.4	NaN	NaN	NaN
201	Ferrigno	-24.7	-6.8	-39.7	820	845.5	750.6	14.2	36.1	0.1	113.7	344.4	2.4	76.7	93.5	41.5
202	Gomez	-17.2	-4	-40.7	850	885.4	810.1	6	17.2	0.4	99.2	342.5	14.1	75.2	95.7	33.9
203	Jurassic	-21.1	-2.6	-52.5	830	865.6	754.6	7.3	43	0	115.5	348.6	0.2	79.1	94.5	0
204	Latady	-8.8	-1.8	-25.3	928.9	970	894.5	5.7	18.6	0	234.8	332.2	0	92.6	99.9	48.1
205	Wormold	-6.1	1	-23.3	949.4	986.7	910.4	4.7	18	0.2	218.6	336.8	5.7	85.1	99.2	34.4
206	Dome_A	-52.2	-16.7	-78.5	574.4	783.2	529.3	2.6	12.9	0.1	176.9	357	0	41.8	69	20
207	Eagle	-42.1	-13.3	-66.1	682.6	715.4	645	4.5	13.1	0	65.5	358	6	53.7	87.3	29.5
208	Kunlun	-52.6	-20.4	-78	573.6	601.8	546.6	3.6	11.2	0	141.2	352	1.5	55	76	31.8
209	Panda-South	-38.9	-19.6	-58.6	586.8	608.4	564.9	4.1	12.6	0	222.4	358	0	41.6	72.2	10.4
210	Panda100	-21.8	-5.2	-41.8	826.7	848.8	803.8	13.5	27.8	2.4	127.1	179.5	71.5	73	87.1	52.5
211	Panda200	-26.4	-8.4	-47.1	763.4	790.6	734.6	10.9	22.9	2.4	78.4	154.3	21	71.6	87.6	54.5
212	Panda300	-30.1	-12.2	-51	723.3	747.4	702.3	9.2	17.4	1.1	73.9	128.3	22.9	67.6	80.6	56.3
213	Panda400	-32.4	-13.2	-53.8	709.5	734	689.4	8.9	15.7	0.7	71.4	184	11.4	33.9	47.9	18.8
214	Panda1100	-47.9	-17	-69.5	603.2	631.9	577.3	6.5	14.5	0.8	127.2	249.6	20	55.1	74.9	39
215	Taishan	-35.3	-12	-59.3	696.7	725.9	500	10.3	18.5	2	78	342.8	10.6	66.7	86.9	51.1
216	Zhongshan	-10	6	-43.6	984.8	1027	932.5	6.6	28.7	0.1	97.8	326.3	11.8	57.9	99	18.3

Table S4. Station list with their monthly mean, max and min values of meteorological elements

NO.	Station	Monthly data														
		Temperature (°C)			Pressure(hPa)			Wind Speed(m/s)			Wind Direction			Relative Humidity (%)		
		mean	max	min	mean	max	min	mean	max	min	mean	max	min	mean	max	min
1	AGO-4	-52.3	-27.8	-68.1	617.7	631.6	605	5.3	7.1	3.1	265	310.4	216.7	51.7	63.1	41.8
2	AGO-5	-59.1	-41.7	-65.6	655.9	669.4	648.7	2.7	3.8	1.7	239.5	256.7	216.9	NaN	NaN	NaN
3	AGO Site	-25.7	-11.2	-38.7	807.8	820.4	798	6.6	13.3	4	113.7	158.2	36	NaN	NaN	NaN
4	AGO-A81	-41.6	-21	-59.3	720.7	736.9	711.5	8	9.6	5.4	98.3	172.5	55.9	NaN	NaN	NaN
5	AGO-A84	-34.5	-17.7	-49.4	754.2	762.1	742.7	8.7	12	6.1	80.3	95.7	70.9	NaN	NaN	NaN
6	Alexander (TT!)	-21.3	-6.6	-30	983.2	988.8	974.7	8.2	10.5	4.7	221.2	234.5	195.1	75.5	86.3	68.7
7	Allison	-50.7	-24.7	-61.5	690.6	704.2	681.7	3.4	4.2	2.7	74.1	99.5	57.5	42.7	42.7	42.7
8	Asgard	-22.8	-11.1	-29.9	801.3	816.8	789.8	3.2	5.1	1.1	172.7	215.9	143.3	NaN	NaN	NaN
9	Austin	-22.9	-12.3	-37.1	834.5	847.1	817.6	7.7	13.7	3.9	153.1	255.2	92	78.3	84.9	70.2
10	Baldrick	-37.7	-16.7	-53.3	760.9	774.3	749.7	8.3	12.2	4.1	82.9	131.8	67.4	57.5	77.2	38.9
11	Bear Peninsula	-13.4	-2.9	-26.5	927.5	945.6	907.1	8.3	14	3.9	113.9	158.2	81.6	79.2	92.7	63.8
12	Bonaparte Point	-2.1	2.8	-12.6	981.9	1004.1	946	4	8.3	1.2	147.2	242.6	67.6	81.7	95.5	2
13	Bowers	-28.8	-16.2	-40.6	750.9	758.3	740.1	6.5	9.2	4.3	180.3	216.4	143.7	44.3	46.6	41.6
14	Brianna	-21.7	-6.5	-38.5	921.3	935.9	904.5	7.6	11.9	3.1	76.3	132.2	46.7	69.6	88.6	46.5
15	Buckle Island	-10.4	-1.6	-16.4	923.7	930.8	911.3	8.6	8.6	8.6	201.2	201.2	201.2	NaN	NaN	NaN
16	Butler Island	-16.9	-1	-53.7	975.2	993.2	958.8	4.6	8.9	0.6	194.9	239.2	63.8	80.9	91.3	71.9
17	Byrd	-26.3	-9.4	-45.6	808	825.2	787.4	7	11.4	2.5	136.6	308.8	7	76	82.9	68.6
18	Cape Adams	-23.1	-4.3	-37.2	982.2	1000.3	966.1	3.3	5.3	2.6	187	210.7	160.3	NaN	NaN	NaN
19	Cape Bird	-15.4	0.6	-36.7	982.1	997.9	964.7	3.7	6.6	2.4	115.9	166.8	82.3	67.9	87.3	58.4
20	Cape Denison	-10.6	2	-20.7	983.6	1004.1	966.8	20.1	29.2	8.8	154.9	171.3	123.2	62.2	80.4	47
21	Cape Hallett	-15.1	-0.5	-27.9	987.8	998.9	976.7	2.6	5.3	1.2	184.9	214.7	142.2	68.6	77.8	58.6
22	Cape Spencer	-21.7	-3.4	-39.9	988.8	1004.6	972.6	3.4	5.1	1.8	167.4	208.3	121.1	77.1	89	60.2
23	Cape Webb	-11	-2.7	-19.7	986.7	1001.1	974.5	13.1	19.4	8.3	180.9	185.3	177.1	68.8	91.1	53.9
24	Carolyn	-25	-5.6	-51	978.3	991.8	965.7	4.9	7.8	2.8	222.6	275.2	172.4	77.5	90.9	58.3
25	Clean Air	-50.2	-20.4	-67.5	681.1	698.2	664.9	3.9	6.6	2	98.8	245.8	47.3	42.3	57.2	30
26	D-10	-12.9	-0.5	-24.8	952.3	973	939.1	8.4	13.7	4.9	150.4	183.3	86	57.1	74.9	0
27	D-17	-12.9	-4.2	-19.2	917.7	920.1	914.2	10.1	12.7	6.7	160.2	168.9	149	NaN	NaN	NaN
28	D-47	-24.3	-11.9	-35.5	806.1	821.8	792.6	11.7	15.8	7.2	147.7	295.4	48.4	73.8	85	65.6
29	D-57	-29.2	-15.6	-42.4	750.2	766.7	732.1	9.9	13.8	6.8	146.6	173.5	121.6	63.1	70.6	55.8
30	D-80	-40.1	-20.3	-55.9	711.5	729.6	695.3	5.9	9	2.9	163.8	185.8	131.9	NaN	NaN	NaN
31	D-85	-40.2	-20.9	-53.7	696.4	711	686.1	6.3	8.1	4.5	165.4	194.5	135.3	45.9	51.3	38.2
32	Dismal Island	-4.9	2.3	-18.5	984.8	1001.3	968.8	6.5	11.5	3.4	147.3	235.8	79.3	84.1	97.9	68.7
33	Dolleman Island	-18.1	-4.8	-29.3	942.7	954.7	928.7	5.3	7.7	2.3	165.2	186.9	140.7	NaN	NaN	NaN
34	Dome C	-51.1	-24.1	-70.6	644.3	662.5	626.2	2.8	4.6	1.4	184.3	229.4	139.9	NaN	NaN	NaN
35	Dome C II	-50.4	-21.5	-70.5	642.3	659.3	628.7	3.2	5.3	1.3	199.1	245.7	148.2	NaN	NaN	NaN
36	Dome F	-54.4	-26.6	-71.7	596.6	612.7	575.8	3	12.4	1.2	162.8	274.7	81.4	NaN	NaN	NaN
37	Dome Fuji	-54.8	-29.1	-68.5	596.9	612.1	589.7	2.6	3.7	1.6	151.4	194.4	92.2	NaN	NaN	NaN
38	Doug	-24.3	-10.6	-38.7	812.2	823.8	798.5	8.3	11.8	4	101.7	233	39.6	75.2	84	67.4
39	E-66	-36.5	-16.6	-50.4	714.4	726.3	701.6	8.4	10.4	6	149	164.7	128.3	60.1	71.4	55.8
40	Elaine	-23.2	-3.8	-48.3	982	1003.7	964.1	4	7.6	1.5	179.4	219.5	108.1	70.2	98.6	28.5
41	Elizabeth	-24.2	-5.5	-45.8	918.1	934.4	901.6	5.4	10.3	1.9	141	267.1	41.6	74.1	84.7	61.2
42	Emilia	-24.9	-5.2	-47.7	977.7	998.9	950.2	5.5	9.7	2.8	209.5	237.1	158	71.4	82.8	60.6
43	Emma	-20.6	-3.7	-37.7	975.8	988.4	965.1	5.6	8.7	2.8	151.4	184.1	119.1	71.1	82.1	59.8
44	Eric	-25	-4.4	-48.6	983.3	996.4	970.1	3.1	4.2	2	198.6	215	180.7	71.2	84.1	55.3
45	Erin	-21.3	-7.9	-36.7	867.5	889.9	844	11.9	18.2	5.9	76.6	109.9	13.5	76.2	94.3	57
46	Evans Knoll	-12.8	-2.5	-26.2	961.2	977.1	941.3	5.1	8.1	2.2	175.4	204.9	149.8	77.2	86.9	67.8

47	Ferrell	-23.2	-3.2	-43.3	983.4	1001.5	966.6	5.5	11.5	2.3	193.1	226.2	142.9	78.5	92.5	1.2
48	Ferrell II	-24.4	-6.6	-38.5	983.4	989.7	975.8	6.2	8.2	4.3	199.2	218.4	187.7	76.4	86.9	64.8
49	Fogle	-17.9	-3.4	-25.5	963.5	974.5	954.6	7.5	9.2	5.5	147.5	183.2	109.6	61.9	71.6	52.2
50	Fossil Bluff	-8.8	-0.2	-22	977.3	992.3	965.4	3	5.8	1.9	228.8	268.1	156.2	78.3	83.4	68.8
51	Gill	-28	-5.3	-51.5	979.9	999.9	962.6	4.1	8.8	0.5	201.8	242.7	109.2	63.2	87.4	28.6
52	Halley Bay	-20.5	-14.7	-25.5	983.9	993.7	976.1	7.2	13.1	3.5	108.4	140.1	68.5	NaN	NaN	NaN
53	Harry	-23.1	-8	-40.1	869.7	885.7	850.6	7.9	12.5	2.2	60.3	155.5	30.4	78.9	95.5	67.3
54	Henry	-46.5	-21.1	-65	690.1	706.3	673.1	5	10.5	1.6	90.9	303	39.1	46.4	70.9	22.5
55	Herbie Alley	-20.4	-2.9	-40.3	989	1006.6	971.3	3.2	5.9	1.4	153.6	187.7	116	72.7	81.3	59.7
56	Hugo Island	-8.8	1.2	-24	983.8	993	975.1	7.9	11	4.5	156.5	200.1	102.1	85.5	93	49
57	J.C.	-15.8	-4.1	-26.5	920.5	928.1	903.2	9.4	13.1	5.6	71	116.8	45.2	72.9	79.1	63.5
58	Janet	-27.3	-13.5	-44.1	746.7	762.6	728.5	6.1	10.5	3.4	111.6	200	58.9	75.2	83.3	60.6
59	JASE2007	-49.4	-26.8	-69	608.8	624.4	595.5	4.6	7.8	2.6	111.9	190.2	75.2	NaN	NaN	NaN
60	Jimmy	-17.7	0	-29.7	963.6	1002.3	951.8	5.2	6.5	3.5	108.6	141.9	64.6	55	65.3	43.4
61	Kathie	-27.2	-14.6	-41	797.6	812	779.8	5.8	10.2	2.1	114.7	151.7	79.8	73.2	79.9	65.7
62	Kelly	-45.1	-27.8	-59.8	NaN	NaN	NaN	3.3	3.6	2.9	217.5	246.6	186	39.6	43.7	34.4
63	Kirkwood Island	-5.9	0.9	-18.9	982.1	996.8	967.6	6.4	9	4	165.4	205.3	125.4	81.3	88.9	68.6
64	Kominko-Slade	-27.8	-13.4	-45.3	778.6	792.7	760.1	6.6	11.5	1.6	91.8	168.3	36.2	71.1	85	61.8
65	Larsen Ice Shelf	-13.9	5.4	-31.5	985.3	1003.7	967.9	3.7	7.6	1.6	173.4	244.8	87.7	81.7	90.1	0
66	Laurie	-20.6	-6.1	-60.9	980.1	998	939.9	5.8	9.7	2.3	181.8	221.5	142.7	68.1	79.1	53.7
67	Laurie II	-22.4	-4.3	-42.9	983.7	997.3	970.7	6.1	12.2	2.3	198.9	279.4	100.4	77.3	87.8	63.4
68	Lettau	-26.6	-3	-50.4	982.7	1000.6	964.1	4.3	10.3	2.2	170.9	259.3	91.3	65.3	90.1	41.4
69	Limbert	-22.9	-3.2	-40.5	985.9	999.9	970.7	4.7	7.2	1.7	177.5	213.1	107.9	82.5	92.8	66.6
70	Linda	-21.8	-3.4	-41.5	979.8	1003.7	954.8	6.7	13.3	2.9	192	229.7	124.2	76.4	90.3	61.8
71	Lindsay	-48.4	-24.8	-63.4	981.3	693.5	673.2	3.1	4	2.5	147.3	169.1	121.8	40.1	44.2	33.4
72	Lorne	-21.2	-4	-37.4	983	997.4	969.7	5.9	10.5	3.3	197.9	228	161	77.2	93.3	67
73	Lynn	-33.7	-16	-49.6	781.2	794.1	769.8	9.3	13.5	4.6	263.9	286.3	171.8	42.3	74.1	29.1
74	Manning	-22.4	-4.8	-41.1	981	992.9	968.3	4.2	6.8	2.2	215.2	254.8	142.8	NaN	NaN	NaN
75	Manuela	-18.1	-0.8	-31.6	979.2	997.1	962.6	12.9	23.7	2.8	263	310.3	167.4	47.5	73.5	32
76	Marble Point	-16.4	-0.3	-33.2	975.6	994.2	959.1	3.3	6.4	1	178.2	244.2	141.7	NaN	NaN	NaN
77	Marble Point II	-15.9	-2.1	-30.1	973.7	985.7	963.4	3.9	6.6	2.5	193.6	224.1	147.7	59.6	73	48.4
78	Margaret	-28.1	-4.8	-52.2	974	991.3	958.9	3.5	5.6	0.9	178.8	230.1	133	66.8	83.2	49
79	Marilyn (Byrd Glacier)	-22.7	-3.6	-40.3	981.3	997.6	963.7	5.7	10.1	2	215.7	266.5	61.3	69.5	91	43.5
80	Marlene	-24.4	-6.5	-41.7	976.2	987.1	965.9	6.1	10.4	3.2	156.5	193.5	139.4	74.1	86.6	61.3
81	Martha I	-18.9	-4.1	-46.4	979.2	988.9	967.1	4.2	7.4	2.5	176.1	191.2	165.2	NaN	NaN	NaN
82	Martha II	-26.6	-5.5	-48.4	980.6	994.5	966.9	4.3	5.9	2.4	161	195	127.3	56.4	66.4	43.6
83	Mary	-20.8	-3.9	-35.8	983.7	998.5	970.5	5	8.5	2.5	242.4	266	189.2	62	74.1	50.2
84	Meeley	-24.2	-6.3	-42.9	983.3	994.2	969.4	5.5	10.2	2.4	193.9	215.8	140.2	NaN	NaN	NaN
85	Minna Bluff	-22.1	-7.6	-37.4	876.9	926.6	857.1	6.6	12.3	1.3	189.2	259.1	82.7	77.6	95.2	30.7
86	Mizuho	-27.8	-7.7	-44.1	737.7	753.1	723.8	10.4	14.2	5.6	94.8	115.6	78.1	NaN	NaN	NaN
87	Mount Howe	-34.8	-21.4	-40.5	714.7	722.1	707.8	12.9	18.2	8.4	122.3	138.3	98.5	NaN	NaN	NaN
88	Mount Siple	-9.3	-1.4	-24.7	954.1	974.6	935.1	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
89	Mt.Erebus	-32.9	-24.6	-36.5	589.1	602	574.4	6.2	9.5	3.2	173	215.7	120.1	43.9	59.4	32.3
90	Mt.Fleming	-23.5	-13.4	-32.8	763.9	780.8	746.6	8.9	14.3	5.4	198.6	207.6	183.7	47.5	59.8	33.6
91	Mulock	-20.2	-5.5	-33.4	936	948.9	924.1	14	25.7	4.3	307.3	331.5	257.2	69.8	84.4	52.6
92	Nancy	-24.4	-8.3	-37.1	986.7	1002.3	971.7	2.3	2.8	1.5	145.3	173.5	116.3	NaN	NaN	NaN
93	Nico	-48.3	-22.6	-65.5	669.4	687.2	655.9	4.1	6.7	1.8	264.6	310.8	181.9	49.7	65	35.9
94	Noel	-27.5	-20.3	-37.5	776.2	780.4	768.2	8.4	14.8	4.7	93.1	128.5	58.3	85	91.7	76.1
95	Pat	-17.2	-1.7	-29.3	988.1	1001.8	976.4	11.1	16	3.9	248.4	309.5	200.1	45.7	61.4	34.9
96	Patrick	-50.1	-24.8	-65.2	680.9	695.2	665.6	3.4	4.4	2.2	104	155.3	48.1	38.3	44.2	34.2

97	Pegasus	-23.4	-5	-36.4	955.4	995.3	603.7	3.8	5.3	3	102.6	138.1	78.1	55.7	64.9	36.5
98	Pegasus North	-20.2	-1.4	-41.1	989.3	1003.5	976	3.6	7	1.4	112	231.9	70.3	71	85.8	52.7
99	Pegasus South	-21.1	-0.6	-42.2	991.7	1011.1	974.6	2.9	9.7	0.7	104.8	156	61.4	61.7	80.1	4.4
100	Penguin Point	-12.4	-0.1	-22.4	977.1	989.6	966.7	11.7	18.5	3.5	156.2	173.8	115.1	70.3	84.6	54.5
101	Phoenix	-18.6	-5.1	-30.9	983.9	995.4	926.6	4.3	6.7	2.5	118.5	143.9	95.2	72	81.1	65.9
102	Port Martin	-10.3	0.3	-20.6	984.2	995.4	972.6	15.4	22.2	8.7	160.3	172.7	118.9	64.1	83.7	29.7
103	Possession Island	-11.2	2.2	-26.1	975.6	992.7	960.4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
104	Racer Rock	-2	2.2	-9.6	987.7	1001.8	976.2	5.6	10.4	1.7	144.7	208.3	102.8	81.3	91.1	72.3
105	Recovery Glacier	-28.6	-12	-40.3	846.3	858.1	838.8	5.4	7.7	2.4	67	101.2	48.1	NaN	NaN	NaN
106	Relay Station	-47.3	-24.4	-63.7	636.3	652.4	619	7.3	11.4	5	93.1	233.6	30.3	51.1	70.3	0
107	Rothera	-6.2	-4	-8.9	981.9	989.9	969.6	3.5	4.5	2	109.8	137.9	87.2	NaN	NaN	NaN
108	Sabrina	-21.2	-3.5	-37.4	975.7	990.8	963.2	6.6	12.2	2.6	152.6	187.5	100.3	69.9	84	59
109	Sandra	-32.9	-13.1	-47.5	803	820.9	789.1	9.6	14.3	4.4	273.5	287.1	237.4	NaN	NaN	NaN
110	Santa Claus Island	-1.9	2.5	-11.2	985.7	999.1	972	5.9	9.7	3.6	194.4	263.2	115.6	89.3	98.1	59.4
111	Schwerdtfeger	-26.1	-4.7	-48.7	980.4	997.9	956.3	4.8	8.9	1.9	217.5	272.3	127.5	70.7	90.6	46.7
112	Scott Island	-7.6	0.5	-19.3	977.8	992.3	962.9	4.4	6.7	0.8	151.5	223.8	41.3	NaN	NaN	NaN
113	Shristi	-30	-11.1	-41.9	853	863.2	840.1	8.8	14	2	293.5	325	253.7	43.1	49.2	36.6
114	Siple	-24.3	-10.4	-37.7	861.5	880.9	845.4	5.2	8.7	2.7	182.5	247.6	137.8	NaN	NaN	NaN
115	Siple Dome	-22.2	-7.1	-40.4	891.8	914.5	864.1	3.7	8.6	1.6	127.5	201.9	57.9	65	88	45.9
116	Ski-Hi	-18.8	-7.3	-31.5	826.3	838.3	814.8	5.7	10.8	3.5	160.8	250.1	106.3	NaN	NaN	NaN
117	Sky Blu	-18.7	-7.8	-31.9	803.5	822.8	783.8	6.7	16	0.7	114.9	240.9	42	78	83.1	70.5
118	Sushila	-37.1	-16.3	-49.8	793.5	799.1	782.5	8.9	12.5	4.5	122.2	189	66.3	NaN	NaN	NaN
119	Sutton	-19.9	-7.9	-29.2	879.2	892.9	870.5	14.7	18.5	10.9	191.3	230.5	178.6	75.8	84.7	56.3
120	Swthinbank	-21.5	-5.5	-40.8	867.8	882.6	851.1	8	11.2	3.8	182.6	301.6	96.6	74.4	83.3	64.6
121	Theresa	-22.3	-9.3	-36.9	816.1	832.9	799.3	9.8	14.7	4.9	91.1	141.4	63.8	74.2	89.2	57.6
122	Thurston Island	-10.8	-1.9	-23.9	953	967.3	933.2	5.8	9.9	3	167	218	118.7	82.5	91.3	68.2
123	Tiffany	-22.7	-4.4	-40.5	985.2	999.5	973.4	2.6	4	1.8	152.4	188.7	116.8	53.4	63.8	34.3
124	Tom	-17.9	-4.1	-32.3	978.8	989.1	970.9	6	11.7	3.2	180.9	216.5	157.3	73.4	83.2	57.4
125	Uranus Glacier	-10.7	0	-25.4	899.5	914.4	881.5	4.7	9	1.9	177.4	250.7	66.8	NaN	NaN	NaN
126	Vito	-26	-3.8	-48.2	981.2	996.5	966.3	5	8	2.3	209.4	294.8	164	74.4	86.4	58.5
127	White Island	-18.6	-5.7	-29.8	894.4	980.7	882.2	9.1	17.3	3.3	202.1	224.8	175.1	67.9	85.9	47.5
128	White Out	-6.3	-6.3	-6.3	984	984	984	2.7	2.7	2.7	185.4	185.4	185.4	64.9	64.9	64.9
129	Whitlock	-16.8	-1.7	-30.7	953.9	973.3	936.9	4.5	7.2	1.1	187.3	234.3	95.7	80.7	93.7	43.5
130	Willie Field	-20.8	-2.6	-40.4	988.5	1008.5	970.3	3.5	6.1	1.3	107.3	277.2	63.2	67.6	84.4	48
131	Windless Bight	-19.9	-1.8	-44.6	985.7	1006.1	971.7	2.5	3.6	1.3	142.6	186.3	95.6	67.4	90.3	43.9
132	Young Island	-8.3	0.7	-19.9	979.2	996	969.6	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
133	Alessandra	-15.4	-0.9	-30.4	970	986.8	953.6	2.4	5.2	1.3	179.6	226.6	116.7	56.7	83.3	30.6
134	Arelis	-15.9	-0.2	-31.9	969.9	988.6	953.8	8.6	16.7	3.8	205.4	227.9	151.8	57	79.8	29.3
135	Concordia	-53.5	-26.4	-71.8	642.3	659.7	628.9	6.4	9.7	3	190.9	239.4	135.4	43.5	71.8	14.4
136	Eneide	-13.7	0.7	-28.6	978.1	996.5	960.3	4.5	15.4	0	220.6	255.5	106.2	47.6	75.8	27.6
137	Giulia	-42.6	-21.9	-61.6	711.8	762.5	658.2	11.1	20.2	5.7	212.6	236.4	188.2	55.1	74.4	34.6
138	Irene	-35.3	-16.8	-55.7	756.2	771.1	742.5	10.8	14.8	7.3	148.6	176.6	8.5	63.6	84.6	36.8
139	Jennica	-14.2	-0.3	-26.6	NaN	NaN	NaN	4.8	8.6	2.1	216.3	257.4	147.2	NaN	NaN	NaN
140	Lola	-22.5	-11.6	-31.6	796.2	814.5	767.5	5	11	2.3	162.2	241.9	123	42.8	69.3	17.9
141	Maria	-15.4	-3.1	-28.5	944.7	958.7	929.4	6.4	10.7	3.6	232.9	290.9	190.1	57.1	79.6	31.8
142	Modesta	-36.2	-17	-51.1	762.2	778.3	749.1	12.7	19.8	4.9	287.6	325.3	215.1	55.5	90.2	18.9
143	Paola	-37	-19.2	-55.7	723.8	771	674.7	7.8	11.3	1.3	180.3	274.7	133.3	64.6	88.6	45.1
144	Rita	-15.3	-1.3	-30.9	954.8	983	756.2	7	21.3	1.6	245.8	303.2	176.6	47.2	74.2	25.2
145	Silvia	-17	-4.2	-30.8	921.2	935.9	906.5	8.9	28.1	0.8	195.4	239.2	84.3	63	94.5	8.8
146	Sofia	-18.1	-2.1	-31.5	985	1003	968.6	7.3	14.6	1.5	198.2	246.4	103.9	45.9	76.3	24
147	Sofiab	-26.4	-11.8	-43.2	804	821.4	787.2	11.1	17	7.1	179.7	224	153.8	64.8	76.3	44.4

148	Zoraida	-21.7	-5.5	-36.6	899.9	925.1	866.5	23	41.6	7.8	300.5	341.2	224.8	41	78.5	12
149	aws04	-18.2	-3.7	-33.5	979.4	991.1	968.8	5.1	7.8	3.4	134.9	160.6	109.6	93.8	97.3	87.8
150	aws05	-16	-3.6	-27.3	943.1	956	931.5	6.6	10.2	3.3	87.2	133.6	59.2	82.4	93.3	67.6
151	aws06	-20	-7.8	-31.2	855.2	869.3	844.7	6.6	9.4	4	68.5	98.8	47.6	77.4	88.7	65
152	aws08	-37	-17.9	-50.1	718.5	730.2	708.4	5.2	7.7	1	73.7	127.1	45.1	94.4	98.9	83.2
153	aws09	-41.3	-21	-58	676.7	691.7	664.3	4.4	7.3	1.3	87.3	173.3	44.4	95.2	98.8	82.8
154	aws10	-22.1	8.7	-36.6	879.7	891.5	869.1	3.8	5.9	1.1	145.8	224	33.6	94.5	99.3	82.5
155	aws11	-17.2	-5.6	-26.4	903.1	914.5	886.5	7.7	14.6	1.8	150	182.4	111.6	84.7	99	69
156	aws12	-52.4	-28.7	-70.1	NaN	NaN	NaN	4.4	5.9	3.1	159	265.1	75.6	91.9	96.9	88.5
157	aws13	-54.4	-32.8	-69.8	NaN	NaN	NaN	4.7	5.5	3.8	180.8	264.6	121	92.3	97.2	81.9
158	aws14	-15.6	-2.2	-29.1	985.6	999.4	973.6	3.8	5.5	2	176	216.3	115.3	93.6	98.4	85.2
159	aws15	-15.6	-2.3	-29.4	985.4	999.2	973.5	3.9	5.2	2.4	175.9	221.5	140.8	94.6	98.9	86.9
160	aws16	-17.7	-7	-26.6	827.5	840.6	813.6	4.7	6.7	3.3	138.1	180.8	70.8	55.8	74.2	38.9
161	aws17	-15.3	-1.8	-28.8	987.5	1000.1	976.1	3.9	6	2.2	178.6	204.8	114.4	92	96.6	83.9
162	A028	-26.8	-12.2	-38.8	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
163	A028-A	-25.9	-11.9	-39.8	797.5	809.6	780.8	11.7	15.3	8.3	147	159.8	131	NaN	NaN	NaN
164	A028-B	-26.1	-13.3	-41	800.6	813.1	788.5	10	14.6	5.9	NaN	NaN	NaN	68.7	75.6	59
165	AM01	NaN	NaN	NaN	977.7	992.8	885.4	7.5	10.4	2.7	NaN	NaN	NaN	NaN	NaN	NaN
166	AM02	NaN	NaN	NaN	982.1	994.9	972.9	5.5	8	2.9	NaN	NaN	NaN	NaN	NaN	NaN
167	AmeryG3	-20.3	-1.8	-32.7	979.5	993.7	965.7	7.8	13.7	2.2	NaN	NaN	NaN	74.3	85	62.6
168	Apfel	-10	-0.9	-17.9	967.1	976.7	959.7	NaN	NaN	NaN	NaN	NaN	NaN	62.2	70.7	53.1
169	AuroraBN	-41.9	-22.6	-57.1	692.2	706.2	680.2	5.9	7.3	4.2	NaN	NaN	NaN	NaN	NaN	NaN
170	B9Berg	-16.2	-1.5	-28.1	980.9	991.3	974.5	NaN	NaN	NaN	201.9	235.8	168.1	NaN	NaN	NaN
171	BrownGl	-1.4	2.8	-4.8	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	81.6	90.2	70.6
172	DSS	-21	-9.8	-31.7	822.6	833.4	812.6	6.2	10.3	3.3	NaN	NaN	NaN	75.6	92.1	55.9
173	DSS-A	-20.8	-10.5	-30.3	823.5	834.2	812	6.3	9.2	3.4	NaN	NaN	NaN	76.5	81.7	67.6
174	Eder	-13.5	-3.1	-19.5	981.2	991.4	973	10.8	15.4	6.7	NaN	NaN	NaN	66.6	74.6	55.1
175	GC41	-44.5	-20.6	-61.2	689.1	706.7	672.5	5.9	7.8	3.4	137.4	167.2	101.8	NaN	NaN	NaN
176	GF08	-30.8	-14.6	-44.8	741.2	755.3	726.6	13.4	18.8	7.7	99.4	107.6	82.8	NaN	NaN	NaN
177	GF08-A	-29.7	-15.7	-41.3	749	764.1	737.4	10.5	11.2	9.8	NaN	NaN	NaN	63.7	68.1	59.3
178	Lanyon	NaN	NaN	NaN	934.4	951.9	920.9	NaN	NaN	NaN	NaN	NaN	NaN	80	87.2	72.6
179	Lanyon-A	-11.4	-1.9	-21	NaN	NaN	NaN	6.2	9.8	3.6	NaN	NaN	NaN	71.2	81.4	56.4
180	LawDome	-21.2	-9.9	-32.8	818	833.4	800.1	8.1	12.6	4.6	112	159.5	74.4	NaN	NaN	NaN
181	LawDome-A	-20.1	-11.2	-28.2	823	830.7	816.6	6.3	8.2	4.2	NaN	NaN	NaN	72.1	76.9	67.4
182	LGB00	-28.1	-13.5	-41.1	749.5	763.5	735.5	9.8	12.8	6.5	151	171.9	128.2	NaN	NaN	NaN
183	LGB00-A	-28.3	-13.5	-40.2	776.7	790.8	760	11.4	14	7.8	157.9	163	151.4	NaN	NaN	NaN
184	LGB00-B	-26.7	-15.8	-37.7	775.5	783.9	767.9	NaN	NaN	NaN	170.1	187.1	150.8	NaN	NaN	NaN
185	LGB00-C	-28.8	-14.6	-40.4	774.7	790.1	759.1	10.2	14.4	5.5	138.2	161	110.4	NaN	NaN	NaN
186	LGB10	-38.7	-21.3	-51.2	699.7	711.7	688.9	6.5	8.2	5.3	214.1	231.9	192.8	NaN	NaN	NaN
187	LGB10-A	-39.2	-20.7	-52.6	700.2	717	685.5	6.4	9.7	3.9	200.8	222.3	149.6	NaN	NaN	NaN
188	LGB20	-42	-20.6	-54.7	716.3	731	705.9	7.1	10.3	3.7	197.6	214.7	159.5	NaN	NaN	NaN
189	LGB35	-36.9	-17.1	-49.9	728.8	745.5	712.7	10.1	14.2	5.4	138.6	149	122.5	NaN	NaN	NaN
190	LGB46	-35.9	-20	-50.1	728.2	744.1	713.9	7	9.9	4.5	97.3	111.9	79.9	NaN	NaN	NaN
191	LGB59	-34.1	-18.8	-45.5	707.9	722.8	691.7	9.8	13.9	6.4	50.2	79.1	38.9	NaN	NaN	NaN
192	LGB69	-26.1	-12.3	-37.1	775	791.2	763.3	9.4	11.6	7.1	NaN	NaN	NaN	70.9	77.8	64.9
193	LGB69-A	-25.3	-16.6	-34.5	775.1	778	767.8	9.2	10.8	7.3	NaN	NaN	NaN	68.4	73	62.6
194	MtBrown	-29.6	-19.3	-37.5	752.6	759.9	742	9.8	13	7.6	NaN	NaN	NaN	62.5	67.9	59
195	MtBrown-A	-29.2	-14.5	-41.4	754.2	769.8	740.4	9.3	13.9	5.4	NaN	NaN	NaN	NaN	NaN	NaN
196	Panda	-33.8	-19.1	-47.2	700.3	713.6	688.9	9	11.8	7	NaN	NaN	NaN	57.2	62.7	49.4
197	Ranvik	-12.1	-0.6	-21.7	944	953.4	935.8	NaN	NaN	NaN	NaN	NaN	NaN	64.4	73.8	54.2
198	Rumdoodle	-14.5	-3.3	-24	935.9	944.6	927.6	NaN	NaN	NaN	NaN	NaN	NaN	53.4	70.1	41.5

199	AWS_A	-17	-4.5	-27.7	NaN	NaN	NaN	9.2	10.9	7.4	128.1	146.7	111.4	NaN	NaN	NaN
200	AWS_B	-17.8	-4.7	-29.6	NaN	NaN	NaN	8.8	10.4	7.1	128	148	110.8	NaN	NaN	NaN
201	Ferrigno	-24	-13.8	-32.7	820.7	833.5	811	13.9	20	6	114.9	148.4	83.1	77.3	85.9	68.8
202	Gomez	-17.1	-9.5	-24	848.2	858.7	839.6	6	7.1	4.5	92.9	133.5	75	75.3	84.6	43.9
203	Jurassic	-20.5	-12.3	-31	830	842.1	815.6	7.1	10.7	2.7	115.2	173.4	33.2	79.2	85.7	72.9
204	Latady	-8.7	-5.2	-12.2	928.8	936.7	919.1	5.3	8.5	3.8	236.1	273	205.4	88.9	96.6	72.8
205	Wormold	-5.9	-2.1	-13.5	949.4	956.2	940.6	4.1	6.5	2.2	218.3	244.5	195.3	84.9	89.6	79.7
206	Dome_A	-52.2	-30.6	-68.2	574.3	592	558.8	2.6	5.4	1	177.9	238.2	120.8	41.9	57.5	31.7
207	Eagle	-42.1	-20.4	-56	682.6	700.4	668.2	4.5	6.5	3	64.6	116.5	42.2	53.7	80.8	41.3
208	Kunlun	-52.6	-29.8	-67.6	573.6	587.8	559.8	3.6	5.9	1.8	141.6	210.4	77.1	55	67.3	44.6
209	Panda-South	-37.4	-28.1	-52.3	587.1	598	576.4	4	5.4	2.6	222.1	268.1	166.1	41.6	50.2	32.5
210	Panda100	-21.7	-9.5	-30.5	826.9	839.2	818.2	13.4	16.1	10.1	127.1	136	119.4	73.1	78.2	67.8
211	Panda200	-26.1	-13.3	-35.9	763.5	776.8	752.9	10.9	14	7.5	78.4	93.5	67.6	71.6	76.5	67.2
212	Panda300	-30	-16.4	-42.1	723.7	735.7	717	9.2	11.5	5.8	73.8	82.4	61	67.7	70.5	63.9
213	Panda400	-32.2	-18.1	-44.7	709.9	720.5	702.7	8.9	10.8	6.1	71.1	78.8	61.7	34	44	25.3
214	Panda1100	-47.9	-28	-60.9	603.2	616.7	590.6	6.6	9.2	3.9	127.1	144.5	99.8	55	64.7	45.8
215	Taishan	-35.3	-19.4	-47.1	696.8	713.1	503.3	10.3	13	6.5	78.1	99	60.2	66.7	74.2	61.4
216	Zhongshan	-9.9	2.1	-22.6	984.8	997.4	970.4	6.4	11.5	2.1	98.2	154.3	37	57.9	86.6	34.7

Table S5. Station list with their start and end dates and the overall data integrity.

NO.	Station	Start data	Last data	3-hourly data integrity (%)				
		(YYYY/MM/DD)	(YYYY/MM/DD)	Tem	Pre	WS	WD	RH
1	AGO-4	2013/1/1	2021/3/31	90.52	99.41	97.26	97.44	79.26
2	AGO-5	2020/1/1	2020/8/31	72.03	84.17	82.68	82.84	0
3	AGO Site	1991/1/1	1992/12/31	75.68	95.96	37.93	40.51	0
4	AGO-A81	1993/1/1	1993/12/31	60.14	65.24	64.76	64.83	0
5	AGO-A84	1996/1/1	1998/11/30	21.22	21.5	12.89	13	0
6	Alexander (TT!)	2011/2/1	2013/2/28	42.41	47.96	42.75	47.76	47.96
7	Allison	1986/1/1	1987/7/31	47.44	28.88	46.4	46.34	2.58
8	Asgard	1980/2/1	1982/12/31	92.43	97.22	61.38	83.73	0
9	Austin	2015/12/1	2021/3/31	55.8	63.85	52.21	55.27	63.69
10	Baldrick	2008/1/1	2021/3/31	81.86	89.63	84.65	85.29	91.18
11	Bear Peninsula	2011/1/1	2021/3/31	76.52	78.28	32.88	54.97	73.22
12	Bonaparte Point	1992/1/1	2017/4/30	69.23	49.4	44.05	54.83	39.64
13	Bowers	1986/1/1	1986/8/31	33.95	35.39	30.5	35.03	35.44
14	Brianna	1994/11/1	2015/12/31	49.73	42.92	40.95	43.63	28.35
15	Buckle Island	1987/1/1	1988/7/31	54.97	82.42	7.42	8.63	0
16	Butler Island	1986/3/1	2011/12/31	80.68	86.68	60.44	66.09	18.92
17	Byrd	1980/1/1	2021/3/31	63.5	78.39	58.03	60.12	22.31
18	Cape Adams	1989/1/1	1992/9/30	77.14	95.72	49.52	56.58	0
19	Cape Bird	1999/1/1	2021/3/31	90.51	88.8	67.68	81.93	47.09
20	Cape Denison	1990/1/1	2011/4/30	40.65	42.21	8.59	20.88	27.9
21	Cape Hallett	2011/1/1	2020/2/29	56.21	62.45	53.41	61.34	62.43
22	Cape Spencer	1999/1/1	2004/5/31	66.6	88.27	74.96	87.99	86.01
23	Cape Webb	1995/1/1	1997/3/31	56.78	60.78	10.92	13.58	63.43
24	Carolyn	2005/2/1	2014/11/30	51.36	62.69	47.06	49.05	59.59
25	Clean Air	1986/1/1	2005/1/31	83.81	76.55	87.9	88.49	45.86
26	D-10	1980/1/8	2021/3/31	57.56	65.6	47.15	59.05	25.72
27	D-17	1980/1/1	1980/6/30	79.6	81.73	68.27	79.53	0
28	D-47	1983/1/1	2021/3/31	42.28	57.74	54.25	53.26	26.42
29	D-57	1981/1/1	2000/1/31	23.89	28.17	25.9	27.08	6.66

30	D-80	1983/1/1	1996/3/31	35.06	44.46	43.3	43.92	0.02
31	D-85	2008/12/1	2021/3/31	43.74	63.07	59.7	61.07	3.44
32	Dismal Island	2001/5/1	2021/1/31	47.24	64.12	32.32	40.12	65.53
33	Dolleman Island	1986/2/1	1988/12/31	85.23	93.37	41.35	27.34	0
34	Dome C	1980/2/1	1996/1/31	54.2	90.29	86.7	84.84	0
35	Dome C II	1995/12/1	2021/3/31	57.26	92.73	91.06	92.5	0
36	Dome F	1996/2/1	2021/3/31	37.37	57.71	44.04	44.54	0
37	Dome Fuji	1995/2/1	1997/12/31	62.01	30.93	82.51	83.05	0
38	Doug	1994/11/1	2001/10/31	61.31	58.66	57.68	62.34	30.53
39	E-66	2008/1/1	2011/11/30	49.27	63.2	60.47	62.79	22.12
40	Elaine	1986/1/1	2020/11/30	58.62	74.66	47.26	53.28	68.47
41	Elizabeth	1996/2/1	2021/3/31	52.13	60.12	48.85	51.08	60.11
42	Emilia	2004/2/1	2021/3/31	64.26	74.06	65.43	69.92	79.47
43	Emma	2014/12/1	2021/3/31	85.91	99.65	85.55	98.3	85.99
44	Eric	2005/1/1	2014/9/30	64.95	74.38	75.12	81.95	81.06
45	Erin	1994/11/1	2021/3/31	72.01	74.56	56.11	62.59	73.43
46	Evans Knoll	2011/1/1	2019/1/31	77.62	73.01	53.69	30.46	84.74
47	Ferrell	1980/12/1	2021/3/31	70.54	86.12	69.14	79.1	58.87
48	Ferrell II	2011/2/1	2014/7/31	32.18	38.11	31.23	34.47	38.11
49	Fogle	1984/1/1	1985/1/31	78.12	86.71	58.06	85.99	10.08
50	Fossil Bluff	2008/11/1	2011/12/31	89.53	98.75	76.24	88.48	98.17
51	Gill	1985/1/1	2021/3/31	74.87	88	64.3	65.7	46.6
52	Halley Bay	1990/3/1	1990/11/30	67.68	77.14	33.82	37.32	0
53	Harry	1994/11/1	2021/3/31	74.8	74.81	62.94	65.71	58.59
54	Henry	1993/1/1	2021/3/31	78.23	81.18	78.68	79.06	81.27
55	Herbie Alley	1999/1/1	2004/2/29	74.91	85.44	76.26	94.51	95.76
56	Hugo Island	2009/4/1	2016/2/29	75.74	51.1	26.33	33.55	41.04
57	J.C.	1994/11/1	1997/7/31	53.25	55.96	29.92	36.09	55.94
58	Janet	2011/1/1	2021/3/31	70.34	88.83	68.5	75.87	88.84
59	JASE2007	2008/1/1	2021/3/31	54.6	86.2	71.79	73.45	0
60	Jimmy	1981/12/1	1990/4/30	39.99	42.84	36.05	42.12	10.94
61	Kathie	2016/1/1	2021/3/31	84.36	99.05	73.44	76.06	99.05

62	Kelly	1993/1/1	1993/12/31	43.22	0	45.07	45.68	46.1
63	Kirkwood Island	2001/5/1	2004/3/31	90.23	92.55	77.76	93.73	95.03
64	Kominko-Slade	2007/4/1	2019/12/31	60.74	72.9	51.6	56.04	72.9
65	Larsen Ice Shelf	1985/10/1	2012/12/31	59.24	89.39	63.44	67.15	20.7
66	Laurie	1981/12/15	1986/1/31	40.72	53.64	43.96	49.93	23.18
67	Laurie II	2000/2/1	2021/3/31	74.77	91.29	73.44	78.44	90.62
68	Lettau	1986/1/1	2021/3/31	65.1	78.51	64.73	68.69	66.05
69	Limbert	1995/11/1	2012/12/31	48.69	57.73	30.92	32.42	55.72
70	Linda	1991/1/1	2021/3/31	61.09	72.26	51.77	64.91	64.43
71	Lindsay	1993/1/1	1994/1/31	83.05	88.76	85.61	86.33	89.58
72	Lorne	2007/1/1	2021/3/31	55.97	58.09	53.88	62.19	53.18
73	Lynn	1988/1/1	1998/1/31	62.83	75.65	47.83	54.56	76.97
74	Manning	1980/12/1	1986/1/31	75.59	97.09	78.29	89.47	0
75	Manuela	1984/1/1	2021/3/31	83.93	87.89	30.38	50.81	79.28
76	Marble Point	1980/2/1	2021/3/31	91.21	96.19	83.51	95.5	0
77	Marble Point II	2011/12/1	2021/3/31	88.6	93.1	80.61	93.02	91.54
78	Margaret	2008/11/1	2021/3/31	81.27	99.73	80.1	82.21	99.68
79	Marilyn (Byrd Glacier)	1984/1/1	2021/3/31	71.17	86.99	64.87	66.87	50.9
80	Marlene	2011/1/1	2014/11/30	85.84	97.05	88	96.31	97.05
81	Martha I	1984/1/1	1987/12/31	25.68	31.82	28.87	9.91	0
82	Martha II	1987/1/1	1992/2/29	74.57	96.07	63.13	62.97	76.84
83	Mary	2005/2/1	2012/1/31	78.28	96.14	80.02	96.19	96.3
84	Meeley	1980/12/1	1985/12/31	60.54	72.17	52.5	65	0
85	Minna Bluff	1991/1/1	2020/8/31	74.62	81.85	40.7	58	49.09
86	Mizuho	2000/10/1	2021/3/31	69.09	96.62	87.49	91.41	0
87	Mount Howe	1992/1/1	1993/11/30	56.86	25.11	28.71	46.02	0
88	Mount Siple	1992/2/1	2019/10/31	47.59	41.5	0.06	0.06	0
89	Mt.Erebus	1990/1/1	1990/10/31	54.03	92.8	19.53	31.54	92.97
90	Mt.Fleming	2008/1/1	2011/1/31	71.43	73.39	57.55	71.31	73.38
91	Mulock	2006/10/1	2011/1/31	61.59	66.64	34.05	52.89	65.99

92	Nancy	1983/1/1	1983/11/30	48.13	92.1	76.31	82.82	0
93	Nico	1993/1/1	2021/3/31	81.07	85.71	79.9	75.05	85.68
94	Noel	2000/1/1	2000/7/31	73.24	85.39	63.67	74.94	47.59
95	Pat	1988/12/1	1990/12/31	87.11	90.21	51.31	79.73	89.88
96	Patrick	1986/1/1	1987/6/30	87.16	62.61	89.15	88.76	62.64
97	Pegasus	1989/1/1	1989/12/31	73.12	87.67	58.36	74.59	87.02
98	Pegasus North	1990/1/1	2017/12/31	65.77	63.79	61.84	73.35	67.05
99	Pegasus South	1991/1/1	2009/1/31	65.69	81.78	41.46	48.44	14
100	Penguin Point	1992/12/1	2002/7/31	59.9	62.28	32.24	55.6	61.37
101	Phoenix	2017/11/1	2021/3/31	49.11	59.13	47.88	55.86	57.71
102	Port Martin	1990/1/1	2017/6/30	31.32	26.34	6.87	12.99	30.91
103	Possession Island	1992/12/1	2021/3/31	86.29	90.28	0	0	0
104	Racer Rock	1989/10/1	2003/2/28	60.19	46	40.24	52.67	9.46
105	Recovery Glacier	1994/1/1	1995/12/31	32.96	34.57	23.99	25.24	0
106	Relay Station	1995/2/1	2021/3/31	60.55	83.25	78.46	79.15	42.99
107	Rothera	1988/7/1	1988/10/31	47.56	50.41	40.35	48.07	0
108	Sabrina	2009/2/1	2021/3/31	86.25	94.53	79.08	93.09	99.38
109	Sandra	1988/1/1	1995/8/31	59.3	68.68	58.36	65.08	0
110	Santa Claus Island	1994/12/1	2000/10/31	63.38	70.4	52.91	61.66	43.75
111	Schwerdtfeger	1985/1/1	2021/3/31	72.05	90.25	80.84	85.98	64.04
112	Scott Island	1988/1/1	1999/3/31	49.88	54.32	2.06	2.53	0
113	Shristi	1988/1/1	1992/9/30	68	76.59	27.92	27.83	57.54
114	Siple	1982/1/1	1992/4/30	58.94	69.26	58.64	61.81	0
115	Siple Dome	1997/1/1	2021/3/31	70.36	83.83	44.26	47.17	83.82
116	Ski-Hi	1994/2/1	1998/11/30	65.36	86.44	66.65	85.22	0
117	Sky Blu	1999/2/1	2012/11/30	44.72	53.82	41.26	49.16	26.82
118	Sushila	1988/1/1	1991/9/30	54.38	16.8	59.05	60.19	0
119	Sutton	1994/12/1	2000/12/31	56.87	59.76	20.75	25.56	61.14
120	Swithinbank	1997/1/1	2011/1/31	44.28	34.5	46.54	49.97	34.61
121	Theresa	1994/11/1	2021/3/31	83.9	87.46	80.59	86.92	87.43

122	Thurston Island	2011/1/1	2021/3/31	93.92	99.34	27.2	46.97	86.83
123	Tiffany	1984/1/1	1985/12/31	67.99	91.59	55.57	63.87	82.93
124	Tom	2011/1/1	2014/1/31	72.95	83.48	68.64	82.59	83.45
125	Uranus Glacier	1986/3/1	2003/2/28	60.98	70.89	47.18	61.71	0
126	Vito	2004/2/1	2021/3/31	75.56	85.31	77.52	81.86	89.24
127	White Island	1998/12/1	2021/3/31	30.93	31.77	15.91	27.87	30.81
128	White Out	1998/12/1	1998/12/31	76.21	100	93.95	100	99.19
129	Whitlock	1982/1/1	2021/3/31	65.49	64.6	45.78	53.64	41.54
130	Willie Field	1992/1/1	2021/3/31	60.92	73.1	62.1	69.82	78.89
131	Windless Bight	1983/1/1	2021/3/31	36.91	50.31	46.35	48.21	44.49
132	Young Island	1991/1/1	1997/12/31	66.96	70.8	0	0	0
133	Alessandra	1987/1/1	2021/1/3	86.7	91.35	56.58	90.58	88.73
134	Arelis	1990/1/1	2021/1/1	93.94	97.29	26.85	94.06	91.31
135	Concordia	2005/1/1	2020/11/30	59.69	91.64	68.41	77.78	91.5
136	Eneide	1987/1/1	2021/1/27	90.32	94.62	27.77	89.36	89.66
137	Giulia	1997/1/1	2019/1/30	48.56	59.25	37.52	42.25	61.53
138	Irene	2001/1/1	2015/3/23	41.41	55.07	33.08	47.45	58.22
139	Jennica	1999/1/1	2003/12/31	27.97	0	16.29	27.67	0
140	Lola	1990/1/1	2021/1/3	89.46	93.67	29.19	86.57	88.79
141	Maria	1997/1/1	2021/1/31	65.69	67.33	23.92	66.79	65.59
142	Modesta	1989/1/1	2020/12/31	63.01	81.14	39.19	70.59	75.47
143	Paola	2003/1/1	2020/12/31	36.91	38.19	26.67	36.45	52.82
144	Rita	1993/1/1	2021/1/31	85.21	94.27	20.17	85.87	84.21
145	Silvia	1990/1/1	2021/1/31	79.79	82.13	23.52	73.06	73.5
146	Sofia	1987/1/1	2002/12/31	80.58	88.82	25.81	86.49	90.68
147	Sofiab	2002/1/1	2020/12/31	64.11	74.14	13.89	45.81	73.54
148	Zoraida	1987/1/1	2021/1/31	73.47	75.67	19.11	62.52	75.17
149	aws04	1997/1/1	2002/12/31	69.22	83.52	74.13	8	75.84
150	aws05	1998/1/1	2014/12/31	81.39	93.27	85.18	73.73	86.95
151	aws06	1998/1/1	2009/12/31	77.97	92.29	86.9	67.56	86.49
152	aws08	1998/1/1	2003/12/31	59.41	83	78.88	32.47	72.93
153	aws09	1997/1/1	2018/12/31	60.74	90.71	86.33	75.56	63.88

154	aws10	1995/1/1	2005/12/31	58.02	58.86	32.41	43.86	14.51
155	aws11	2007/1/1	2015/12/31	69.68	77.07	66.33	73.49	38.57
156	aws12	2007/1/1	2016/12/31	45.07	0	73.7	79.48	73.44
157	aws13	2008/1/1	2016/12/31	67.02	0	2.01	9.6	51.9
158	aws14	2009/1/1	2015/12/31	70.1	85.14	78.56	80.56	66.54
159	aws15	2009/1/1	2014/12/31	73.17	61.54	80.57	83.62	70
160	aws16	2009/1/1	2016/12/31	73.05	74.95	75.62	81.43	72.88
161	aws17	2011/1/1	2015/12/31	67.6	77.55	68.55	75.24	65.42
162	A028	1985/4/12	1986/2/15	55.4	0	0	0	0
163	A028-A	1986/2/19	1990/5/30	50.52	58.36	51.75	57.84	0
164	A028-B	1998/11/6	2005/7/30	65.06	68.88	50.04	0	59.84
165	AM01	2002/2/12	2006/12/6	0	63.42	36.16	0	0
166	AM02	2001/1/10	2007/12/23	0	64.29	58.71	0	0
167	AmeryG3	1999/2/4	2017/9/1	56.94	88.48	42.04	0	87.73
168	Apfel	2000/1/5	2001/7/17	59.64	63.33	0	0	46.83
169	AuroraBN	2014/1/25	2017/9/1	53.29	77.61	36.86	0	0
170	B9Berg	2002/11/5	2005/7/8	58.89	68.85	0	65.47	0
171	BrownGl	2000/11/1	2002/8/31	45.93	0	1.49	0	48.45
172	DSS	1997/12/20	2003/1/19	60.94	66.86	38.64	0	65.78
173	DSS-A	2003/1/5	2005/3/2	65.53	72.37	36.79	0	70.49
174	Eder	1999/8/9	2000/10/19	59.56	58.7	40.72	0	50.63
175	GC41	1984/10/29	2005/12/30	57.7	65.28	33.95	39.92	0
176	GF08	1986/10/28	1998/9/29	53.01	59.96	53.34	57.39	0
177	GF08-A	2000/1/17	2007/12/31	73.36	77.79	0.88	0	4.1
178	Lanyon	1991/2/22	1998/11/24	0	59.66	0	0	58.51
179	Lanyon-A	1998/10/19	2008/4/24	61.99	0	33.13	0	65.69
180	LawDome	1986/4/17	1998/7/2	55.87	43.8	22.46	34.94	0
181	LawDome-A	1997/5/27	1998/2/25	58.64	69.91	53.68	0	16.32
182	LGB00	1982/1/5	1989/7/21	32.77	36.48	30.17	28.8	0
183	LGB00-A	1987/12/5	1993/8/31	57.45	66.09	59.81	6.97	0
184	LGB00-B	1993/11/13	1995/2/13	50.71	59.93	0	58.49	0
185	LGB00-C	1995/2/15	2009/8/7	63.4	66.42	27.82	48.8	0

186	LGB10	1990/1/1	1994/10/24	28.65	33.5	4.84	13.5	0
187	LGB10-A	1993/11/22	2006/5/8	59.99	65.48	36.27	61.88	0
188	LGB20	1991/1/18	2004/9/1	69.96	3.58	47.72	65.99	0
189	LGB35	1993/12/21	2008/7/1	76.87	83.5	48.61	80.6	0
190	LGB46	1994/1/7	1997/5/6	65.45	76.7	49.27	71.84	0
191	LGB59	1994/1/25	2004/6/28	64.46	72.69	45.95	70.91	0
192	LGB69	2002/1/22	2007/2/2	76.71	83.64	44.38	0	83.25
193	LGB69-A	2007/2/2	2008/8/20	57.44	63.07	25.62	0	62.28
194	MtBrown	1998/12/23	2000/7/17	56.81	67.1	60.69	0	66.78
195	MtBrown-A	2003/2/24	2011/10/9	81.59	87.13	54.9	0	0
196	Panda	2008/1/1	2017/9/1	44.18	48.51	17	0	49.56
197	Ranvik	2000/2/4	2002/1/18	59.11	60.96	0	0	60.86
198	Rumdoodle	2000/2/1	2001/12/26	62.27	64.73	0	0	64.8
199	AWS_A	2015/1/1	2015/12/31	81.06	0	57.09	94.04	0
200	AWS_B	2015/1/1	2015/12/31	78.94	0	49.93	85.21	0
201	Ferrigno	2009/12/20	2010/12/20	86.51	99.9	52.42	92.11	99.66
202	Gomez	2005/1/31	2006/7/21	88.48	99.7	90.08	98.44	99.3
203	Jurassic	2005/2/7	2012/11/1	28.16	34.96	21.66	31.31	34.88
204	Latady	2005/1/7	2006/1/31	33.56	99.39	72.66	86.28	35.22
205	Wormold	2005/1/5	2006/2/27	93.38	99.67	70.11	98.84	95.47
206	Dome_A	2005/1/17	2021/1/26	71.87	77.76	48.89	27.7	92.99
207	Eagle	2005/1/27	2020/12/31	88.5	96.89	18.97	52.53	96.47
208	Kunlun	2017/1/6	2021/7/10	73.26	96.95	59.24	81.18	97.17
209	Panda-South	2008/1/14	2021/4/30	17.27	23.8	23.28	23.5	24.04
210	Panda100	2019/2/8	2021/7/10	91.87	99.83	92.56	99.82	99.79
211	Panda200	2016/12/16	2021/7/10	89.22	99.8	96.35	98.7	99.19
212	Panda300	2019/12/13	2021/7/10	81.51	97.31	95.94	96.61	97.4
213	Panda400	2019/12/14	2021/7/10	83.96	99.59	99	97.74	99.76
214	Panda1100	2017/1/1	2021/7/10	87.18	99.84	84.41	91.69	99.91
215	Taishan	2012/12/24	2021/7/10	86.19	99.8	98.86	96.34	99.85
216	Zhongshan	1989/3/1	2020/12/31	76.9	79.65	58.23	73.48	79.24