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1956-60 AND 1961-62

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and related research work carried out during the period 1956-62
in the Southern Ocean and the Antarctic continent.

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RESEARCH NOTES

NOTES

22

A Data Bank of Mean Monthly and Annual Surface Temperatures
for Antarctica, the Southern Ocean and South Pacific Ocean

T.H. Jacka, L. Christou and B.J. Cook

ANTARCTIC DIVISION
DEPARTMENT OF SCIENCE AND TECHNOLOGY

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A DATA BANK OF MEAN MONTHLY AND ANNUAL SURFACE TEMPERATURES
FOR ANTARCTICA, THE SOUTHERN OCEAN AND SOUTH PACIFIC OCEAN

by

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ABSTRACT

Tables of mean monthly surface temperature and plots of mean annual temperature are presented for most of the permanent Antarctic and Southern Ocean stations. Because of the geographic sparsity of meteorological stations, particularly in the Pacific sector, data from some more northerly stations are also included.



Figure 1. Map of Antarctica and surrounding oceans showing location of meteorological stations used in this program.

1. INTRODUCTION

The monitoring of climatic parameters has lately acquired a new importance because of the possibility of a global warming prompted by increased atmospheric carbon dioxide concentrations.

In particular, the study of sea ice extent and surface temperatures in polar regions has gained new significance. Positive feedback mechanisms involving changes in ice cover and surface temperature may amplify small climatic fluctuations in polar regions (The Polar Group, 1980). Changes to these two parameters may provide early indications of a significant warming.

Consequently, several recent reports have recommended further detailed study of polar climate including consistent, up to date monitoring, e.g. The Polar Group, 1980; Kellogg and Bojkov, 1982; Allison, 1983; Barry, 1984.

One of many sea ice monitoring projects has already been reported by Jacka (1983). This report attempts to set a basis for the monitoring of mean monthly and annual surface temperatures for the Antarctic and surrounding oceans.

2. THE GEOGRAPHICAL DISTRIBUTION OF CLIMATE MONITORING STATIONS

The location of meteorological stations from which data has been collected is shown in Figure 1.

Until the establishment of Russkaya station in 1975, there were no Antarctic coastal stations in the large sector bounded by the Antarctic Peninsula, the Ross Ice Shelf and the Pacific Ocean. In addition, there are no Southern Ocean stations in this sector. In order to obtain some coverage over these longitudes, data from several South Pacific island stations have been included. Similarly, with the absence of Southern Ocean data west of Macquarie Island, data from the Australian stations, Maatsuyker Island, Cape Naturaliste and Cape Leeuwin have been included. Finally, the inclusion of Cape Town provides good areal coverage of the region.

In some areas such as the Antarctic Peninsula region, there is a high geographical concentration of observing stations. Data from neighbouring stations has been used to check or extend the record period.

3. THE TIME DOMAIN

Antarctic and Southern Ocean climate studies of more than thirty years are severely restricted by the lack of sufficient data before the International Geophysical Year for Antarctica, and prior to the mid 1940s for the Southern Ocean. They must rely on a few infrequent meteorological measurements made by early Antarctic explorers, sealers or whalers. Alternatively proxy evidence of climatic fluctuations may be obtained through Antarctic ice core studies, geomorphological studies, etc. Many of the northerly stations monitored have records commencing in the 1800's. The data presented in this paper begins for these stations in 1901.

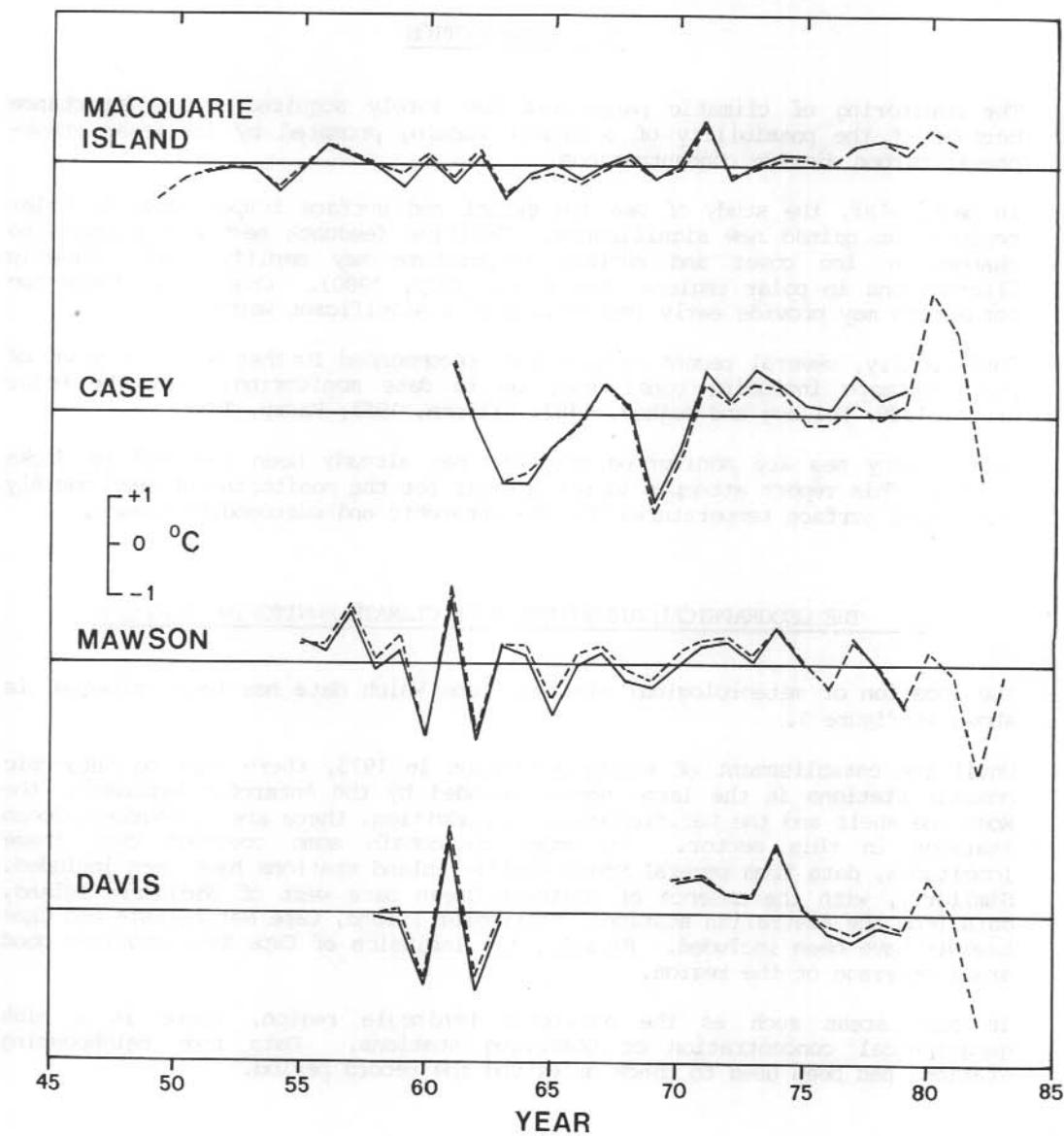


Figure 2. Plot of mean annual temperatures for Australian stations; calculations from 3 hourly observations (dashed line) and $[\text{minimum} + \text{maximum}] / 2$ (solid line).

4. DATA SOURCES

Several journals publish mean monthly temperatures for Antarctic and Southern Ocean stations on a regular basis. The Antarctic Journal of the United States (U.S.A.), Polar Record (Britain), the News Bulletin of the National Institute of Polar Research (Japan), TAAF (France) and ANARE News (Australia) report monthly data from stations operated by their countries. Climate Monitor and Monthly Climatic Data of the World publish data from many stations.

Climatic data from station inception to 1970 is presented for most stations in World Weather Records (several volumes), published by the U.S. Department of Commerce. Several countries publish their own annual summaries of climatic data, e.g. Meteorological Observations in New Zealand.

The most valuable sources however are the CLIMAT messages (particularly those from South Africa and from Australia) and personal contacts established with meteorological services world-wide or directly with observing stations.

5. DATA RELIABILITY

From time to time, inconsistent data are found within the sources mentioned previously. While some stations report mean temperatures calculated from eight 3-hourly observations per day, some record fewer observations and others, the daily minimum and maximum temperatures only. Figure 2 shows annual mean temperatures for Australian Antarctic stations and Macquarie Island, calculated using (1) the 3-hourly observations and (2) the daily minimum and maximum temperature only. Usually these estimates of mean temperature provide similar values.

Data errors can occur in radio transmission from recording stations to responsible authorities, in publication, and in personal communications. When discrepancies of this nature have been detected, attempts have been made to confirm data with the organisation responsible for the data collection, or with the observing station.

6. THE DATA RANK

Appendices I and II contain the complete results, including the mean monthly and annual surface temperatures for all stations included in the program. Appendix I contains data from Antarctic stations and II from Southern Ocean stations. Stations are arranged according to longitude.

Annual mean temperatures are calculated from the twelve monthly mean temperatures. If only one monthly mean is missing in a given year, an annual mean is estimated using the long term mean for the missing month. Annual means calculated by this method are indicated with an asterisk.

Appendices III to VIII display the annual mean temperatures from the monitoring program in graphical form. The annual mean temperatures are plotted as

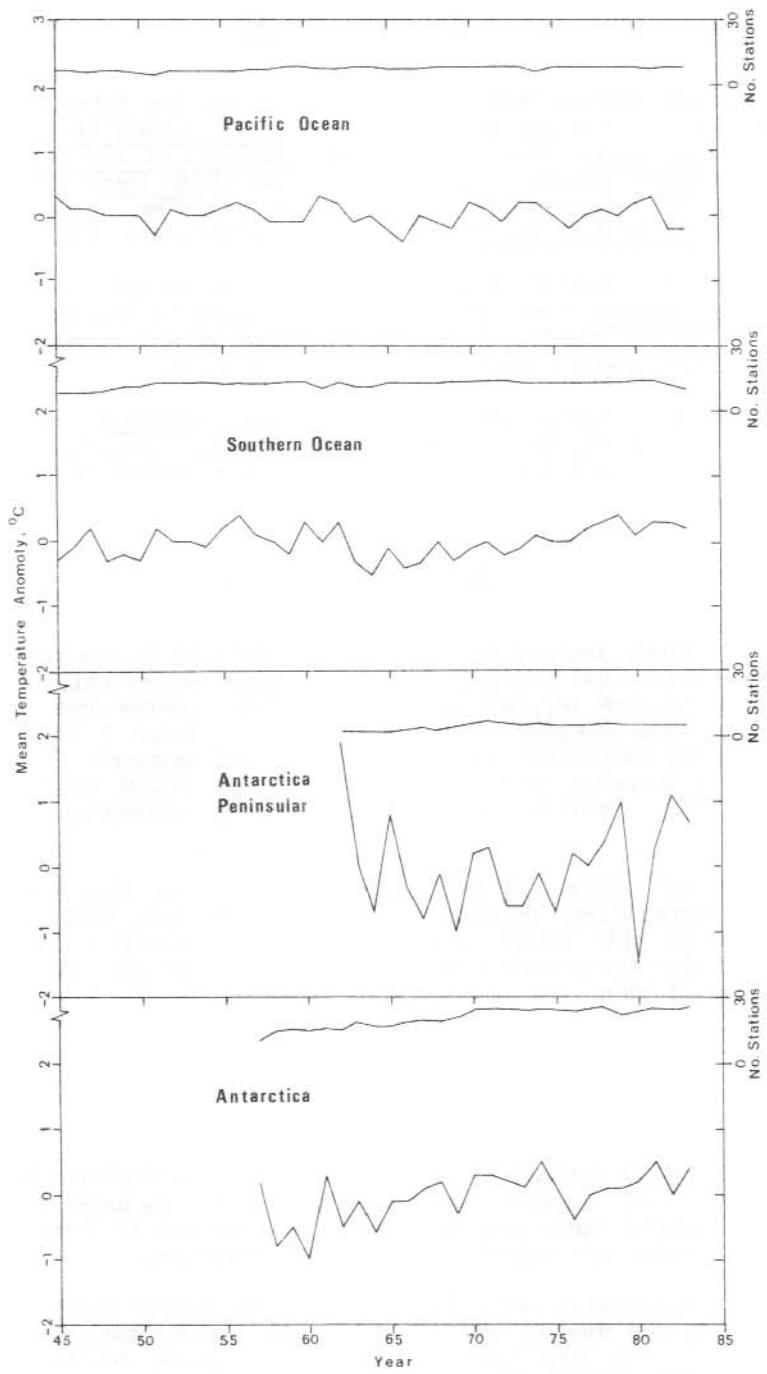


Figure 3. Plots of mean temperature anomalies calculated across stations within (a) South Pacific Ocean, (b) Southern Ocean, (c) Antarctic Peninsula, and (d) coastal East Antarctica.

anomalies above (warmer) or below (colder) the long term mean (calculated over the whole record) for each station. Stations are arranged longitudinally so that fluctuations in both the time and areal domain may be examined.

Appendix III shows annual mean temperatures for coastal Antarctic stations, excluding those in the Antarctic Peninsula area which, because of the high geographical concentrations are plotted separately in Appendix IV.

Appendix V shows annual mean temperatures since 1945 for each of the Southern and Pacific Ocean stations.

Appendix VI, VII and VIII display data over longer time scales, and again are grouped into sections: South America - South Atlantic (Appendix VI); Cape Town and Australian stations (Appendix VII); and South Pacific Ocean (Appendix VIII). In some cases, e.g. Orcadas - Signey Island, neighbouring stations have been plotted. This serves to check data, and in some instances, e.g. Stanley - Pembroke, to extend the time domain of the data.

7. A CLIMATIC INDEX

The main purpose of this report is to present the entire data base. For research purposes however, it is sometimes useful to develop simple climatic indices.

Figure 3 shows mean temperature anomalies calculated across the stations within the South Pacific Ocean, Southern Ocean, Antarctic Peninsula and coastal East Antarctica. Each of the graphs indicate a warming trend which is more pronounced in Antarctica than in the Southern Ocean, and in turn, the South Pacific Ocean.

On a shorter time scale, it is seen that 1980 and 1981 were particularly warm years at coastal Antarctic stations, yet particularly cold years at Antarctic Peninsula stations. This opposing effect is evident also in some other years.

8. CONCLUDING REMARKS

The continued monitoring of climatic parameters has been recommended by several working groups, e.g. World Climate Research Program, Antarctic Climate Research. The data presented in this report represents the complete surface temperature data set held by the Antarctic Division's Glaciology Section, and has been collected with the cooperation of several personal contacts in meteorological services, observing stations and research institutions.

It is hoped that this co-operation will continue and increase. Prompt, unrestricted international data exchange is essential for the monitoring programs.

Appendix I Mean monthly surface temperatures and annual mean temperatures for Antarctic climate stations.

Station	Latitude S	Longitude E	WMO Number	Page
South Pole	90 00		89009	10
Novolazarevskaya	70 46	11 50	89512	11
Syowa	69 00	30 35	89532	12
Mizuho	70 42	44 20	89544	13
Molodezhnaya	67 40	45 50	89542	14
Mawson	67 36	62 52	94986	15
Davis	68 35	77 58	89751	16
Mirny	66 38	93 01	89592	17
Vostok	78 27	106 51	89606	18
Casey	66 17	110 32	89611	19
Dumont d'Urville	66 40	140 01	95502	20
Leningradskaya	69 30	159 24	89657	21
McMurdo	77 51	166 40	89664	22
Scott	77 51	166 45		23
Russkaya	74 46	223 09	89132	24
Byrd	80 00	240 00	89125	25
Siple	75 56	275 45		26
Adelaide Island	67 46	291 04	88958	27
Rothena Point	67 34	291 52	89062	28
Argentine Island	65 15	295 44	88952	29
Palmer	64 46	295 47		30
Almirante Brown	64 53	297 07	88971	31
Matienzo	64 58	299 57	88970	32
Arturo Prat	62 29	300 23	85986	33
Eduardo Frei	62 12	301 04	85984	34
Bellingshausen	62 12	301 06	89050	35
Bernardo O'Higgins	63 19	302 06	85988	36
Hope Bay	63 24	303 01	88940	37
Esperanza	63 24	303 01		38
Marambio	64 14	303 17	89055	39
Petrel	63 30	303 49		40
General Belgrano	78 00	312 12		41
Belgrano III	77 54	314 01	89045	42
Ellsworth	77 43	318 59	89043	43
Belgrano II	77 52	325 23	89034	44
Halley Bay	75 31	333 00	89022	45
SANAE	70 10	357 36	89001	46

MEAN MONTHLY SURFACE TEMPERATURES

	SOUTH POLE	90 00S (89009)												
		J	F	M	A	M	J	J	A	S	O	N	D	MEAN
57	-28.3	-38.3	-53.9	-56.7	-55.6	-56.7	-61.1	-58.3	-62.2	-52.8	-37.2	-25.0	-48.8	
58	-25.0	-35.6	-53.9	-62.2	-57.2	-61.1	-55.0	-61.7	-56.1	-49.4	-38.3	-31.1	-48.9	
59	-28.9	-40.0	-55.0	-55.0	-56.1	-60.0	-59.4	-59.4	-61.7	-51.1	-41.1	-28.9	-49.7	
60	-30.6	-40.0	-57.8	-56.7	-55.6	-58.3	-58.3	-62.2	-57.2	-52.2	-38.3	-27.2	-49.5	
61	-30.6	-41.4	-57.1		-57.2	-52.9	-60.6	-56.9	-57.7	-49.1	-38.4	-29.0	-49.0*	
62	-29.8	-41.9	-53.7	-58.1	-59.1	-53.2	-60.2	-60.6	-57.6	-50.4	-37.6	-30.2	-49.4	
63	-28.9	-41.6	-54.3	-60.8	-55.8	-55.3	-59.6	-54.6	-54.3	-50.7	-40.8	-26.0	-48.6	
64	-28.9	-42.2	-52.7	-60.8	-61.5	-53.9	-56.4	-57.9	-63.9	-53.3	-38.7	-28.1	-49.9	
65	-29.0	-39.9	-51.0	-57.3	-56.3	-52.9	-64.2	-57.1	-63.1	-52.6	-40.1	-27.7	-49.3	
66	-29.5	-40.6	-52.8	-56.7	-61.2	-61.7	-57.8	-61.1	-58.3	-50.6	-37.2	-26.7	-49.5	
67	-24.8	-40.1	-54.6	-57.1	-58.5	-61.4	-56.8	-61.3	-57.9	-53.9	-36.4	-27.2	-49.2	
68	-29.4	-40.0	-53.9	-54.1	-59.2		-62.4	-62.1	-61.8	-46.9	-38.0	-20.9	-48.9*	
69	-27.8	-42.2	-57.9	-54.7	-56.6	-55.6	-64.3	-57.8	-56.2	-47.9	-40.5	-28.6	-49.2	
70	-27.9	-40.6	-53.8	-58.7	-58.9	-59.8	-59.9	-59.9	-56.6	-49.1	-40.5	-27.7	-49.5	
71	-25.4	-37.3	-54.8	-53.7	-56.3	-61.9	-61.6	-60.4	-62.1	-50.1	-37.5	-23.8	-48.7	
72	-26.4	-39.1	-56.3	-58.0	-59.6	-58.6		-54.6	-60.1	-48.0	-37.1	-28.7	-48.0*	
73	-29.0	-41.4	-55.5	-56.8	-55.3	-59.9		-69.3	-58.1	-50.6	-35.8	-29.6	-50.1*	
74	-27.7	-41.4	-53.7	-57.7	-57.7	-57.9	-60.9	-56.2	-58.5	-50.7	-39.1	-24.0	-48.8	
75	-27.8	-39.2	-52.1	-58.3	-53.8	-62.2	-62.8	-61.2	-59.9	-49.8	-37.9	-27.0	-49.3	
76	-27.4	-40.6	-54.0	-60.0	-59.8	-56.5	-60.8	-65.1	-59.6	-51.2	-37.1	-25.8	-49.8	
77	-25.0	-41.9	-54.1	-58.0	-55.1	-56.4	-56.5	-60.0	-62.3	-55.3	-40.1	-29.2	-49.5	
78	-29.8	-40.2	-54.3	-50.6	-53.3	-60.3	-60.4	-62.6	-60.0	-50.1	-38.8	-28.2	-49.0	
79	-27.5	-40.6	-51.7	-53.4	-61.5	-57.1	-63.8	-61.2	-56.0	-53.2	-37.4	-27.6	-49.3	
80	-33.0	-40.2	-54.2	-56.7	-55.6	-57.9	-60.0	-62.7	-59.8	-51.2	-33.8	-25.2	-49.2	
81	-24.8	-38.7	-52.5	-58.6	-53.6	-57.9	-56.2	-55.3	-62.1	-55.7	-41.6	-28.3	-48.8	
82	-29.1	-56.9	-60.0	-58.0	-41.2	-54.8	-54.8	-61.3	-61.7	-49.0		-27.1	-49.4*	
83	-29.1	-42.6	-54.9	-56.1	-56.7	-62.1	-64.3	-59.8	-58.9	-55.2	-43.1		-50.8*	
MEAN	-28.2	-40.9	-54.5	-57.1	-56.6	-57.9	-59.9	-60.0	-59.4	-51.1	-38.6	-27.3	-49.2	

MEAN MONTHLY SURFACE TEMPERATURES

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
61		-02.4	-09.1	-13.6	-13.6	-14.4	-19.0	-16.6	-14.9	-11.0	-05.5	-02.7	-10.3*
62	-02.0	-04.4	-08.6	-13.7	-16.4	-10.8	-20.0	-22.1	-16.0	-15.2	-05.9	-01.8	-11.4
63	-01.3	-04.6	-10.3	-17.3	-14.2	-13.8	-18.1	-14.4	-16.0	-15.7	-08.2	-00.9	-11.2
64	-00.7	-03.8	-09.6	-13.0	-14.8	-14.4	-14.6	-16.3	-20.9	-13.5	-05.5	02.4	-10.4
65	-01.2	-03.2	-08.0	-11.1	-10.8	-13.6	-20.8	-18.9	-21.6	-13.9	-08.3	-01.7	-11.1
66	-02.5	-04.2	-08.1	-12.0	-12.4	-19.7	-16.5	-20.5	-16.5	-13.9	-05.4	04.4	-10.6
67	00.4	-04.6	-07.4	-12.8	-12.2	-12.2	-16.6	-17.2	-17.4	-12.6	-06.1	-00.1	-09.9
68	-01.1	-03.8	-06.7	-12.1	-15.0	-17.3	-21.5	-18.3	-18.0	-11.0	-05.2	-01.9	-11.0
69	00.5	-03.4	-07.7	-08.6	-12.8	-12.3	-20.1	-22.6	-20.7	-11.2	-08.5	-00.9	-10.7
70	00.6	-04.3	-06.1	-12.8	-16.7	-17.9	-18.7	-19.9	-18.3	-11.2	-04.4	-00.3	-10.8
71	00.7	-01.5	-08.4	-12.4	-14.9	-19.2	-17.9	-20.8	-16.0	-11.9	-06.3	-00.8	-10.8
72	-00.8	-03.0	-08.7	-09.8	-14.2	-13.2	-22.0	-14.1	-14.8	-14.6	-06.1	-02.0	-10.3
73	-00.4	-04.0	-08.7	-10.4	-10.2	-13.0	-18.1	-21.0	-26.9	-11.2	-05.4	-01.4	-10.9
74	-01.4	-03.6	-07.8	-13.1	-09.5	-15.8	-16.0	-17.9	-17.0	-12.0	-06.6	-00.1	-10.1
75	-00.3	-03.4	-06.1	-14.0	-11.2	-16.2	-19.2	-19.3	-16.3	-12.7	-04.7	-02.0	-10.4
76	-01.7	-04.2	-07.9	-12.5	-16.6	-14.8	-19.8	-19.8	-18.7	-14.6	-06.4	-00.1	-11.4
77	00.3	-03.2	-08.2	-12.4	-12.8	-15.1	-13.7	-15.1	-17.9	-13.5	-07.5	-01.1	-10.0
78	-01.7	-02.9	-08.7	-12.4	-14.3	-18.1	-13.4	-20.3	-13.9	-11.3	-05.8	-00.2	-10.3
79	-00.8	-03.4	-07.7	-07.7	-12.7	-18.5	-20.6	-21.0	-15.9	-12.3	-04.5	-00.8	-10.5
80	00.1	-04.7	-06.3	-10.2	-10.0	-16.6	-12.8	-17.1	-15.2	-12.4	-03.8	-00.4	-09.1
81	00.0	-01.7	-07.3	-12.4	-16.0	-15.8	-11.9	-11.4	-17.6	-15.0	-06.0	-00.9	-09.7
82	-04.3			-12.0	-16.8	-17.1	-19.0	-17.5	-13.2	-04.7	-00.2		
83	00.4	-03.0	-08.0	-09.5	-11.8	-14.6	-18.8	-17.6	-14.8	-11.5	-07.0	-01.8	-09.8
MEAN	-00.6	-03.5	-08.0	-12.0	-13.3	-15.4	-17.7	-18.3	-17.5	-12.8	-06.0	-00.7	-10.5

MEAN MONTHLY SURFACE TEMPERATURES

SYOWA	69 00S	30 35E	(89532)	MEAN									
	J	F	M	A	M	J	J	A	S	O	N	D	
57		-05.2	-09.5	-14.7	-12.9	-17.7	-18.3	-20.4	-11.7	-06.7	-01.3		
58	00.3												
59	-00.3	-04.4	-05.5	-10.1	-14.6	-13.3	-16.3	-19.2	-21.7	-12.7	-09.2	-02.2	-10.8
60	-00.8	-04.7	-07.5	-09.8	-15.7	-19.6	-19.3	-19.1	-22.4	-14.1	-07.3	-01.9	-11.8
61	-02.2	-02.3	-07.5	-11.4	-14.8	-13.8	-19.8	-18.8	-15.9	-11.0	-05.9	-02.7	-10.5
62	-02.1												
63													
64													
65													
66	-03.9	-05.9	-10.8	-12.6	-18.0	-19.6	-21.0	-16.6	-15.8	-05.9	-01.1	-11.0*	
67	-00.1	-04.5	-07.3	-09.7	-12.3	-14.2	-16.7	-18.7	-19.5	-12.5	-05.5	-01.2	-10.2
68	-01.2	-03.2	-04.7	-09.0	-11.7	-15.7	-19.3	-16.8	-19.1	-12.8	-06.1	-02.2	-10.2
69	00.4	-01.6	-04.5	-08.2	-11.3	-11.6	-17.5	-22.3	-19.8	-12.7	-05.8	-00.8	-09.6
70	-00.9	-03.6	-05.6	-08.9	-15.1	-16.5	-18.3	-20.5	-20.7	-11.5	-06.0	-01.1	-10.7
71	-00.5	-01.1	-07.3	-10.8	-16.7	-18.4	-18.8	-20.0	-16.0	-12.6	-07.3	-00.7	-10.8
72	-00.1	-02.7	-07.7	-10.5	-16.1	-17.8	-20.3	-15.5	-14.1	-13.3	-06.4	-02.5	-10.6
73	-00.8	-04.0	-07.6	-09.1	-11.3	-14.5	-20.5	-22.9	-17.3	-11.4	-06.3	-02.2	-10.7
74	-01.4	-03.1	-08.5	-11.0	-12.4	-16.7	-16.7	-17.7	-17.4	-14.0	-05.7	-00.8	-10.5
75	-00.3	-03.4	-06.2	-12.1	-14.0	-15.3	-20.8	-22.3	-18.9	-13.6	-06.9	-02.5	-11.4
76	-01.5	-03.9	-06.7	-11.5	-15.1	-19.6	-21.4	-23.2	-21.0	-15.1	-06.7	00.0	-12.1
77	00.9	-03.7	-06.1	-11.3	-12.1	-16.0	-13.5	-16.0	-18.2	-15.3	-07.6	-01.4	-10.0
78	-02.1	-03.8	-09.3	-11.3	-11.7	-16.9	-14.7	-21.3	-15.2	-13.7	-07.2	-01.6	-10.7
79	-00.4	-03.3	-06.7	-09.2	-13.8	-18.5	-20.5	-19.4	-18.7	-14.4	-04.9	-01.2	-10.9
80	00.6	-03.2	-04.1	-06.2	-09.9	-12.3	-13.5	-17.2	-15.7	-12.7	-04.2	-00.5	-08.2
81	-01.2	-02.6	-04.9	-08.8	-11.7	-14.8	-14.1	-16.1	-18.1	-15.5	-06.6	-01.8	-09.7
82	-01.6	-04.0	-06.2	-09.4	-12.9	-14.8	-17.8	-22.4	-20.4	-15.5	-05.9	-00.8	-11.0
83	-00.3	-03.0	-07.0	-10.6	-12.2	-13.6	-16.2	-19.3	-14.2	-12.4	-08.4	-03.5	-10.1
84	-00.1	-03.1											
MEAN	-00.7	-03.3	-06.5	-10.0	-13.3	-15.7	-17.9	-19.5	-18.2	-13.4	-06.5	-01.5	-10.5

MEAN MONTHLY SURFACE TEMPERATURES

DUMONT DURVILLE 66 40S 140 01E (95502)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
56				-10.4	-15.1	-16.5	-17.8	-17.2	-13.2	-13.5	-06.4	-00.3	
57	00.1	-05.0	-09.2	-12.4	-15.2	-16.9	-19.8	-17.9	-15.0	-11.6	-06.3	-01.0	-10.8
58	-01.5	-04.8	-06.8	-08.9	-12.1	-21.6	-15.7	-17.0	-23.6	-14.0	-07.5	-03.0	-11.4
59	-02.2	-04.0	-10.9	-10.5	-16.9	-17.6	-16.1	-19.5	-18.9	-13.7	-08.7	-02.1	-11.8
60	-00.1	-03.4	-10.0	-12.1	-16.6	-15.7	-20.2	-15.2	-18.1	-12.8	-06.6	-03.0	-11.2
61	-01.6	-05.0	-08.2	-12.1	-13.4	-15.4	-16.6	-16.2	-16.8	-13.5	-08.0	-03.8	-10.9
62	-00.3	-02.4	-06.2	-13.8	-17.9	-16.4	-19.1	-16.2	-12.9	-09.3	-05.9	-02.6	-10.3
63	-01.3	-04.2	-08.6	-12.6	-17.6	-18.4	-16.0	-16.7	-14.7	-16.8	-07.5	-04.8	-11.6
64	-01.1	-05.7	-08.2	-14.6	-17.3	-18.2	-15.1	-14.3	-16.3	-13.5	-06.0	-01.6	-11.0
65	-01.2	-03.1	-06.8	-13.9	-14.3	-17.8	-15.4	-18.0	-17.8	-12.5	-07.8	-01.5	-10.8
66	-01.0	-03.8	-07.9	-11.1	-11.9	-19.3	-15.7	-17.9	-17.1	-14.1	-08.7	-01.9	-10.7
67	00.3	-04.3	-07.7	-14.6	-14.8	-18.1	-16.2	-18.9	-13.4	-13.1	-06.3	-01.2	-10.7
68	-00.6	-04.5	-08.9	-11.6	-11.3	-14.8	-16.8	-15.1	-14.8	-10.5	-07.0	-01.8	-09.8
69	-00.8	-05.1	-11.1	-13.2	-15.2	-16.7	-19.9	-20.2	-15.7	-12.4	-07.8	-02.3	-11.7
70	-00.4	-04.9	-09.1	-12.4	-16.4	-16.0	-15.7	-21.4	-16.9	-11.9	-07.0	-01.6	-11.1
71	-00.3	-05.2	-09.0	-13.8	-10.7	-11.7	-15.9	-14.6	-18.2	-10.8	-08.0		-10.0*
72	00.8	-03.5	-09.9	-11.6	-16.0	-10.9	-13.8	-11.4	-14.7	-12.9	-08.7	-01.3	-09.5
73	-00.4	-05.2	-08.4	-11.7	-14.2	-15.3	-13.7	-15.9	-15.5	-14.7	-06.2	-03.0	-10.3
74	-00.5	-05.5	-09.7	-14.8	-17.1	-13.1	-19.3	-16.7	-15.1	-12.9	-06.9	-00.4	-11.0
75	-00.2	-04.9	-07.5	-14.7	-13.7	-16.8	-12.5	-20.6	-19.9	-13.2	-06.5	-01.7	-11.0
76	-00.6	-03.8	-10.1	-17.7	-15.1	-16.3	-19.0	-14.7	-15.5	-14.8	-10.4	-00.8	-11.6
77	00.5	-04.0	-08.7	-11.8	-13.9	-15.6	-18.9	-14.2	-17.5	-13.3	-07.5	-01.5	-10.5
78	-01.0	-03.1	-09.3	-12.1	-13.6	-16.8	-12.0	-18.1	-16.3	-14.1	-06.8	-02.1	-10.4
79	-01.0	-05.2	-08.5	-14.0	-15.9	-15.4	-17.7	-14.5	-16.1	-12.9	-07.5	00.4	-10.7
80	00.2	-03.3	-06.1	-11.4	-14.7	-16.6	-12.8	-15.2	-11.3	-14.4	-05.2	-00.0	-09.2
81	-01.0	-03.0	-08.2	-10.5	-14.6	-10.7	-13.4	-10.0	-12.7	-11.0	-07.8	-02.4	-08.8
82	-01.6	-03.5	-09.7	-14.0	-10.7	-11.9	-14.3	-22.2	-17.3	-12.6	-06.4	00.0	-10.4
83	00.1	-02.5	-10.2	-13.1	-13.1	-13.4	-20.7	-18.7	-13.1	-15.9	-07.9	-01.9	-10.9
MEAN	-00.6	-04.2	-08.7	-12.7	-14.6	-15.9	-16.4	-16.7	-16.0	-13.1	-07.2	-01.7	-10.7

MEAN MONTHLY SURFACE TEMPERATURES

CASEY	66	17S	110 32E	(89611)									
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
57		-04.4	-06.1	-11.7	-17.8	-17.8	-12.2	-11.1	-09.4	-04.4	00.0		
58	00.0	-02.2	-05.0	-07.2	-08.3	-21.1	-15.0	-18.3	-20.0	-12.8	-05.0	-01.7	-09.7
59	-01.1	-03.8	-09.3	-08.8	-11.7	-14.9	-14.6	-16.9	-21.5	-09.6	-05.8	-00.6	-09.9
60	-00.4	-02.3	-09.8	-13.2	-15.9	-17.3	-21.7	-14.0	-14.6	-10.9	-04.5	-01.4	-10.5
61	00.0	-02.1	-05.2	-09.4	-10.6	-13.4	-11.9	-12.7	-11.7	-14.6	-06.4	-03.0	-08.4
62	-01.4	-00.2	-04.5	-13.2	-17.4	-16.3	-21.1	-15.0	-12.0	-09.9	-05.4	-01.7	-09.8
63	-00.4	-03.8	-08.2	-15.9	-19.7	-13.7	-14.8	-17.5	-12.5	-13.5	-07.4	-02.4	-10.8
64	-00.5	-03.1	-06.7	-15.8	-17.8	-16.5	-19.5	-14.9	-17.8	-11.5	-04.5	-01.6	-10.9
65	00.8	-01.8	-07.8	-14.2	-13.3	-17.6	-14.0	-13.8	-17.9	-11.8	-08.9	-01.3	-10.1
66	-01.8	-02.5	-04.0	-11.5	-14.0	-18.3	-11.6	-17.0	-17.8	-12.4	-04.2	-00.9	-09.7
67	00.5	-03.5	-06.5	-13.9	-13.3	-12.7	-11.2	-13.7	-11.0	-12.2	-05.8	-02.0	-08.8
68	-00.5	-02.7	-07.0	-12.3	-15.6	-11.0	-14.1	-14.4	-15.9	-11.0	-05.1	-01.7	-09.3
69	00.9	-02.4	-09.3	-12.4	-18.0	-15.1	-18.0	-22.0	-17.9	-11.6	-07.6	-01.6	-11.3
70	-00.3	-02.6	-07.4	-13.0	-12.6	-17.2	-17.0	-20.3	-15.4	-11.7	-05.0	-00.8	-10.3
71	01.0	-03.2	-05.9	-09.6	-10.1	-10.8	-16.2	-14.6	-16.0	-09.7	-06.2	-00.7	-08.5
72	01.0	-02.3	-05.8	-10.2	-14.4	-10.3	-13.4	-11.8	-17.3	-16.0	-07.2	-01.8	-09.1
73	-00.4	-02.9	-06.0	-08.9	-11.5	-12.3	-13.8	-15.2	-14.2	-11.9	-04.0	-01.7	-08.6
74	00.9	-03.9	-07.1	-14.2	-13.9	-12.3	-16.8	-14.6	-13.1	-07.3	-03.9	00.9	-08.8
75	00.7	-02.1	-05.5	-14.1	-10.2	-12.5	-10.6	-20.1	-19.4	-12.0	-04.5	-00.6	-09.2
76	00.6	-01.5	-07.9	-16.8	-14.9	-12.6	-17.8	-15.6	-13.3	-08.8	-04.3	00.6	-09.4
77	02.2	-02.3	-05.1	-12.5	-10.1	-15.5	-12.0	-12.7	-17.3	-12.1	-06.1	-00.6	-08.7
78	-01.0	-01.4	-09.3	-11.8	-12.7	-11.0	-12.8	-16.5	-14.8	-11.9	-05.9	-00.8	-09.2
79	-00.7	-04.0	-06.8	-08.8	-12.9	-15.4	-14.9	-13.8	-15.2	-08.6	-06.2	00.2	-08.9
80	01.3	-01.2	-03.5	-06.9	-10.8	-11.9	-07.1	-12.7	-10.7	-12.3	-02.8	00.2	-06.5
81	00.1	-01.9	-03.1	-09.9	-14.1	-11.1	-11.7	-08.7	-10.9	-09.5	-05.8	-01.1	-07.3
82	00.5	-02.0	-09.9	-13.3	-11.5	-15.0	-12.3	-22.1	-19.5	-11.1	-06.7	00.3	-10.2
83	01.9	-01.3	-08.4	-09.7	-10.6	-12.5	-19.9	-14.6	-10.3	-14.9	-06.4	-01.1	-09.0
84	00.9	-01.3	-03.2	-09.5	-08.3	-15.7	-13.7						
MEAN	00.2	-02.4	-06.5	-11.5	-13.1	-14.4	-14.8	-15.4	-15.2	-11.4	-05.6	-01.0	-09.3

MEAN MONTHLY SURFACE TEMPERATURES

VOSTOK	(89606)												
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
58	-31.3	-44.6	-55.9	-64.0	-62.9	-67.9	-65.3	-71.8	-66.3	-58.8	-43.2	-33.4	-55.5
59	-36.2	-43.7	-52.9	-61.8	-64.7	-66.3	-68.4	-69.6	-68.4	-57.6	-44.5	-31.1	-55.4
60	-35.2	-43.7	-61.8	-67.6	-67.8	-70.6	-68.2	-70.9	-66.5	-58.6	-44.8	-33.2	-57.4
61	-32.8	-43.0	-57.7	-65.2	-65.3	-60.0	-64.1	-67.1	-62.6	-54.8	-43.4	-34.0	-54.2
62													
63	-45.3	-59.3	-64.3	-66.0	-64.9	-64.0	-63.7	-57.5	-58.0	-45.2	-33.4	-54.5*	
64	-32.2	-46.2	-61.1	-69.4	-68.8	-62.0	-66.6	-62.0	-70.4	-58.2	-42.4	-32.5	-56.0
65	-33.6	-43.1	-58.8	-65.8	-64.3	-66.7	-69.2	-66.1	-66.9	-56.8	-44.2	-34.1	-55.8
66	-35.4	-42.7	-54.7	-66.8	-67.2	-68.9	-67.3	-71.4	-67.9	-56.8	-43.0	-31.7	-56.2
67	-30.2	-45.5	-54.5	-66.1	-68.6	-66.7	-67.2	-73.0	-64.3	-56.7	-41.5	-31.1	-55.5
68	-33.4	-44.6	-57.8	-62.4	-65.0	-63.6	-71.2	-70.0	-71.5	-53.6	-42.6	-33.0	-55.7
69	-32.6	-43.6	-59.8	-62.9	-66.8	-62.5	-69.4	-69.5	-69.8	-55.6	-43.8	-32.6	-55.7
70	-31.8	-44.0	-55.8	-64.6	-66.1	-62.7	-67.1	-70.2	-64.1	-55.6	-46.6	-32.2	-55.1
71	-30.1	-41.4	-58.2	-64.4	-63.5	-63.5	-69.1	-66.7	-63.4	-56.2	-43.8	-30.7	-54.3
72	-31.1	-44.9	-57.7	-65.0	-65.8	-66.4	-68.8	-61.6	-62.4	-56.6	-43.9	-33.7	-54.8
73	-34.0	-44.3	-59.0	-60.2	-63.5	-64.5	-68.4	-71.5	-62.8	-56.0	-40.6	-33.8	-54.9
74	-29.3	-46.5	-61.9	-68.5	-67.0	-62.8	-66.1	-68.3	-68.7	-55.2	-42.0	-32.0	-55.7
75	-32.0	-45.4	-55.9	-63.5	-61.4	-66.5	-69.5	-73.1	-70.0	-56.3	-41.9	-33.2	-55.7
76	-32.2	-43.4	-58.0	-66.2	-70.9	-64.7	-62.7	-65.4	-68.3	-57.6	-42.6	-28.9	-55.1
77	-29.9	-43.7	-57.3	-66.9	-62.5	-64.4	-64.2	-67.0	-71.2	-59.4	-45.3	-31.6	-55.3
78	-34.5	-43.3	-58.7	-64.7	-64.6	-64.4	-63.8	-73.6	-64.3	-57.2	-42.1	-30.0	-55.1
79	-31.5	-45.8	-60.4	-62.1	-69.2	-69.5	-72.4	-68.2	-67.7	-61.3	-44.0	-31.1	-56.9
80	-29.8	-43.2	-54.3	-61.5	-65.6	-61.4	-64.7	-61.7	-62.6	-58.1	-42.6	-31.8	-53.1
81	-33.2	-44.9	-56.4	-68.8	-69.5	-68.4	-63.0	-60.8	-61.4	-58.6	-44.5	-31.7	-55.1
82		-44.4			-63.7		-63.2	-72.4	-71.3	-57.3	-38.8	-31.2	
83	-31.5	-44.4	-57.9	-63.5	-60.5	-60.5	-73.8	-67.3	-60.7	-57.4	-45.5	-33.3	-54.7
MEAN	-32.3	-44.2	-57.7	-64.8	-65.6	-65.0	-67.1	-68.1	-66.0	-57.1	-43.3	-32.2	-55.3

MEAN MONTHLY SURFACE TEMPERATURES

MIRNY

66 33S

93 01E

(89592)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
56	-00.4	-03.0	-09.3	-14.1	-13.8	-15.4	-16.9	-21.0	-15.2	-13.9	-06.2	-01.9	-10.9
57	-00.6	-05.1	-09.4	-08.4	-14.6	-15.9	-16.9	-14.3	-14.3	-11.1	-07.6	-02.1	-10.0
58	-01.8	-06.3	-09.2	-11.6	-11.1	-20.1	-15.0	-19.1	-20.4	-14.6	-07.7	-03.1	-11.7
59	-03.4	-06.7	-08.9	-12.6	-13.7	-15.0	-17.1	-17.2	-22.1	-12.0	-09.1	-01.9	-11.6
60	-02.3	-05.1	-13.1	-16.2	-17.8	-18.5	-21.7	-16.5	-16.3	-13.2	-06.6	-02.7	-12.5
61	-01.1	-03.9	-09.2	-12.7	-12.9	-15.4	-12.8	-14.8	-13.9	-14.1	-07.6	-04.5	-10.2
62	-03.8	-04.7	-10.2	-15.2	-19.9	-17.3	-20.8	-17.8	-12.7	-12.1	-08.4	-03.4	-12.0
63	-01.7	-06.4	-12.3	-17.8	-18.0	-14.2	-18.3	-15.5	-15.0	-16.2	-09.1	-04.0	-12.4
64	-01.9	-05.4	-11.3	-15.9	-18.8	-14.2	-17.7	-15.0	-21.8	-14.0	-05.5	-02.0	-12.0
65	-01.0	-03.6	-10.6	-14.8	-15.1	-19.9	-18.3	-17.5	-20.6	-13.6	-09.6	-02.2	-12.2
66	-02.9	-04.2	-07.0	-13.0	-14.3	-17.5	-12.5	-20.6	-18.1	-14.8	-06.3	-02.2	-11.1
67	-00.7	-06.7	-09.9	-13.2	-15.8	-13.5	-13.4	-18.7	-14.7	-16.2	-06.1	-02.7	-11.0
68	-02.3	-05.8	-09.9	-15.0	-15.3	-13.3	-18.3	-17.4	-18.3	-12.2	-06.3	-03.0	-11.4
69	-00.5	-05.0	-10.1	-14.4	-18.6	-15.4	-19.6	-24.8	-16.6	-12.3	-08.6	-02.7	-12.4
70	-01.8	-05.7	-09.5	-13.1	-12.6	-16.2	-18.2	-17.8	-15.7	-13.0	-06.0	-01.9	-11.0
71	-00.7	-05.1	-10.7	-12.8	-12.3	-14.7	-17.4	-15.0	-15.0	-12.1	-07.9	-01.8	-10.5
72	-00.3	-04.8	-09.4	-12.5	-19.8	-12.2	-16.7	-12.3	-18.1	-17.2	-08.5	-03.0	-11.2
73	-01.8	-05.6	-12.0	-10.9	-13.2	-12.4	-19.4	-15.9	-14.1	-12.5	-05.1	-03.5	-10.5
74	-00.0	-06.7	-10.7	-15.0	-15.2	-14.2	-16.6	-13.4	-17.2	-08.7	-05.5	-00.2	-10.3
75	-00.8	-05.7	-08.5	-16.3	-11.9	-13.9	-15.2	-20.3	-20.2	-13.9	-06.1	-03.1	-11.3
76	-01.3	-05.1	-11.7	-16.5	-18.3	-12.9	-17.2	-19.3	-17.2	-14.4	-07.1	-07.1	-12.3
77	-00.0	-04.5	-08.6	-14.0	-14.0	-16.8	-16.4	-16.0	-22.0	-15.7	-07.9	-02.4	-11.5
78	-02.6	-04.7	-09.8	-14.1	-14.4	-13.5	-15.2	-20.0	-18.0	-15.8	-06.4	-02.4	-11.4
79	-02.6	-06.3	-10.9	-12.4	-14.9	-16.4	-19.2	-18.4	-17.6	-12.7	-07.4	-01.6	-11.7
80	-01.1	-05.1	-07.6	-10.7	-15.2	-16.7	-10.5	-14.6	-14.6	-14.4	-05.1	-02.4	-09.8
81	-02.4	-06.0	-09.1	-16.7	-17.0	-16.0	-11.7	-11.1	-14.9	-13.5	-07.4	-03.2	-10.8
82	-05.7	-13.1		-13.6	-19.1	-12.7	-24.7	-21.0	-13.3	-07.8	-01.0		
83	-01.0	-04.1	-11.6	-12.4	-13.7	-14.7	-20.9	-17.5	-14.3	-15.2	-09.6	-02.8	-11.5
MEAN	-01.5	-05.3	-10.1	-13.8	-15.2	-15.5	-16.7	-17.4	-17.1	-13.7	-07.2	-02.7	-11.3

MEAN MONTHLY SURFACE TEMPERATURES

DAVIS	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
68 35S	68	35S	77	58E	(89571)								
57	-03.0	-08.5	-09.4	-14.8	-11.7	-17.6	-15.3	-16.8	-08.9	-06.7	-00.2	-09.3*	
58	-00.3	-03.6	-07.5	-11.8	-13.5	-16.1	-14.6	-19.0	-18.7	-13.8	-06.4	-00.1	-10.5
59	-01.7	-03.9	-05.5	-11.9	-13.5	-16.8	-17.5	-16.9	-20.0	-11.5	-06.2	-00.4	-10.5
60	00.0	-02.3	-11.2	-14.8	-17.1	-19.5	-22.7	-17.3	-16.4	-13.1	-04.5	-01.1	-11.7
61	00.6	-00.5	-08.7	-09.8	-11.8	-15.6	-13.4	-16.0	-12.4	-12.8	-05.3	-01.4	-08.8
62	-01.7	-02.9	-09.1	-14.8	-19.1	-16.0	-19.6	-21.9	-18.0	-12.8	-05.6	-00.8	-11.9
63	00.7	-04.6	-09.8	-14.0	-16.3	-14.5	-17.3	-14.1	-15.3	-14.2	-05.2	-00.7	-10.4
64	00.3	-01.5	-09.5	-16.8	-18.1	-13.6	-17.2	-15.1	-21.1	-12.7			
65													
66													
67													
68													
69	-07.8	-12.2	-16.9	-15.1	-18.9	-22.7	-16.9	-15.4	-03.6	01.0			
70	01.7	-03.5	-06.4	-12.0	-11.4	-16.9	-17.7	-17.3	-15.1	-12.8	-05.3	01.0	-09.6
71	01.8	-02.1	-08.7	-14.6	-13.0	-18.4	-15.9	-14.7	-14.8	-10.7	-05.6	01.7	-09.6
72	03.0	-02.1	-06.9	-11.3	-19.1	-14.1	-18.6	-12.4	-16.3	-15.2	-05.0	-01.0	-09.9
73	01.2	-03.1	-10.8	-14.1	-14.7	-12.9	-20.9	-18.0	-12.5	-10.1	-02.7	-01.1	-10.0
74	02.7	-02.5	-09.1	-12.8	-16.3	-12.5	-15.4	-14.5	-18.1	-07.5	-02.9	02.3	-08.9
75	03.0	-03.0	-10.0	-14.0	-12.0	-14.0	-18.2	-19.8	-19.0	-12.2	-03.4	00.0	-10.2
76	01.9	-02.5	-10.1	-13.8	-19.9	-14.9	-16.0	-21.3	-18.6	-09.5	-05.0	01.7	-10.7
77	03.2	-01.8	-09.9	-13.2	-14.6	-15.4	-17.7	-15.8	-21.5	-15.3	-07.7	-00.5	-10.9
78	-00.1	-02.3	-06.8	-11.3	-15.2	-13.5	-16.1	-22.5	-17.5	-17.0	-04.7	00.5	-10.5
79	00.5	-03.3	-09.5	-12.3	-15.5	-18.1	-21.0	-17.7	-15.0	-12.5	-04.3	01.1	-10.6
80	00.8	-03.5	-06.6	-10.0	-19.8	-20.1	-11.6	-17.0	-13.7	-12.0	-02.5	00.0	-09.7
81	00.5	-03.2	-03.2	-17.1	-16.2	-16.0	-16.1	-12.5	-15.1	-15.2	-05.4	-00.6	-10.0
82	00.7	-02.5	-12.2	-18.1	-15.9	-12.2	-15.3	-24.9	-23.1	-12.5	-04.8	-01.0	-11.8
83	01.8	-02.1	-08.7	-10.9	-13.4	-15.2	-20.7	-16.4	-13.5	-13.7	-07.8	-01.1	-10.1
84	02.4	-02.6	-08.3	-11.3	-14.4	-17.5	-18.6						
MEAN	01.0	-02.7	-08.4	-13.0	-15.5	-15.4	-17.4	-17.5	-16.9	-12.7	-05.0	-00.0	-10.3

MEAN MONTHLY SURFACE TEMPERATURES

MAWSON	67 36S 62 52E (94986)												
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
54		-07.7	-17.7	-17.6	-14.4	-17.2	-19.7	-21.0	-14.8	-05.2	00.0		
55	-00.3	-07.2	-12.3	-14.5	-14.1	-18.2	-17.8	-15.1	-16.8	-11.3	-03.4	03.3	-10.6
56	01.0	-02.6	-11.3	-11.8	-14.8	-16.3	-17.4	-21.6	-17.6	-13.3	-05.1	01.3	-10.8
57	00.8	-04.1	-09.9	-13.0	-15.4	-11.6	-17.9	-15.6	-18.4	-08.8	-05.7	-00.4	-10.0
58	00.1	-05.6	-09.5	-14.2	-14.8	-15.7	-15.7	-19.4	-18.0	-13.7	-06.0	-00.5	-11.1
59	-01.7	-05.4	-07.1	-13.2	-14.4	-15.5	-17.2	-16.7	-20.0	-12.4	-07.1	-00.3	-10.9
60	-00.3	-03.3	-12.4	-16.6	-18.1	-21.8	-21.6	-18.8	-18.3	-13.7	-05.8	-01.6	-12.7
61	-00.6	-01.8	-09.4	-12.9	-13.1	-15.1	-15.5	-17.0	-13.2	-12.4	-04.9	-01.7	-09.8
62	-02.7	-04.4	-10.9	-14.3	-19.1	-14.6	-21.8	-23.8	-19.2	-14.0	-06.0	-01.4	-12.7
63	00.3	-05.3	-11.4	-14.8	-16.4	-16.0	-16.1	-14.6	-13.3	-14.7	-06.3	-01.6	-10.9
64	-00.4	-03.9	-10.6	-15.4	-18.5	-13.8	-15.1	-14.6	-20.6	-14.4	-04.3	00.4	-10.9
65	-00.0	-02.9	-11.1	-14.4	-12.9	-21.1	-21.6	-18.1	-20.3	-13.5	-07.7	-00.5	-12.0
66	-00.9	-03.4	-08.0	-17.9	-12.8	-18.6	-14.5	-22.9	-15.4	-14.1	-05.7	-00.4	-11.2
67	01.5	-05.1	-08.7	-13.6	-14.7	-15.8	-16.3	-21.8	-16.3	-14.0	-04.8	00.1	-10.8
68	-00.5	-04.9	-10.0	-12.4	-14.5	-18.3	-20.0	-19.7	-18.8	-12.4	-05.9	-03.5	-11.7
69	00.3	-04.3	-09.7	-13.9	-16.3	-16.0	-19.6	-21.1	-18.6	-12.0	-06.1	-00.5	-11.5
70	-00.5	-05.7	-07.9	-13.1	-15.2	-19.7	-17.1	-19.6	-15.8	-12.4	-05.4	00.3	-11.0
71	01.1	-03.2	-10.4	-14.8	-15.3	-17.2	-18.2	-16.6	-15.8	-12.1	-06.3	00.8	-10.7
72	01.8	-03.8	-09.9	-11.8	-18.9	-16.5	-16.7	-14.1	-16.0	-14.6	-06.0	-00.5	-10.6
73	00.5	-05.0	-12.3	-14.5	-13.9	-14.6	-20.9	-20.8	-13.1	-11.9	-04.5	-01.7	-11.1
74	00.7	-04.4	-11.5	-13.3	-18.7	-13.7	-17.8	-14.9	-18.7	-09.5	-04.0	00.7	-10.4
75	01.5	-04.7	-10.7	-14.7	-13.3	-14.5	-19.9	-20.1	-18.6	-13.3	-03.9	-00.3	-11.0
76	01.2	-03.9	-11.3	-15.1	-20.7	-17.7	-17.3	-22.5	-20.9	-10.6	-04.7	01.8	-11.8
77	02.5	-03.8	-11.5	-15.5	-14.4	-14.1	-14.1	-14.8	-19.1	-14.7	-08.4	-00.3	-10.7
78	-00.7	-04.0	-09.1	-13.0	-14.7	-15.6	-15.9	-23.1	-17.5	-15.2	-04.5	00.1	-11.1
79	-00.5	-05.7	-11.5	-13.6	-18.5	-18.1	-23.9	-19.9	-16.2	-12.6	-05.0	00.6	-12.1
80	00.5	-04.6	-08.5	-11.8	-19.9	-20.3	-14.3	-18.5	-14.2	-14.6	-02.7	-00.1	-10.8
81	-00.0	-03.6	-08.6	-17.5	-17.6	-18.3	-10.3	-14.3	-17.5	-15.3	-05.5	-07.7	-11.4
82	-00.5	-05.3	-13.1	-19.1	-18.3	-23.2	-17.9	-24.1	-22.9	-12.9	-04.3	01.0	-13.4
83	00.9	-03.9	-11.7	-12.7	-14.9	-18.9	-21.5	-16.7	-14.5	-13.0	-08.7	-01.8	-11.5
84	00.9	-04.6	-11.4	-15.1	-14.2	-19.2	-20.6						
MEAN	00.2	-04.3	-10.3	-14.4	-16.0	-16.9	-17.8	-18.7	-17.6	-13.1	-05.5	-00.5	-11.2

MEAN MONTHLY SURFACE TEMPERATURES

MOLODEZHNAЯ	67 40S		45 50E		(89542)									
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN	
63	-03.8	-10.6	-11.4	-14.3	-12.2	-18.7	-16.5	-14.0	-15.3	-07.6	-01.7	-	-10.5*	
64	-00.7	-05.4	-08.2	-11.3	-15.5	-17.2	-14.7	-14.9	-18.8	-14.6	-05.5	-00.9	-10.6	
65	-00.7	-03.5	-08.7	-09.8	-11.2	-15.4	-22.8	-19.0	-20.8	-14.4	-09.6	-01.1	-11.4	
66	-01.7	-04.8	-07.2	-14.2	-13.2	-17.8	-19.4	-20.9	-15.1	-15.9	-06.5	-00.8	-11.5	
67	00.8	-04.9	-07.6	-10.5	-12.0	-14.6	-17.4	-18.2	-18.2	-12.2	-05.4	-01.0	-10.1	
68	-00.7	-04.2	-07.3	-10.3	-13.0	-16.0	-18.8	-16.9	-19.2	-13.5	-06.5	-02.5	-10.7	
69	-00.0	-02.4	-07.4	-11.2	-14.2	-14.5	-18.3	-21.9	-18.6	-12.2	-06.6	-01.0	-10.7	
70	-00.7	-04.4	-05.8	-10.7	-14.3	-17.0	-17.3	-20.6	-20.0	-12.0	-06.4	-01.1	-10.9	
71	-00.4	-02.8	-08.9	-12.6	-17.2	-17.9	-19.6	-19.1	-16.3	-12.6	-07.5	-00.1	-11.3	
72	00.2	-03.4	-09.3	-10.5	-15.3	-17.4	-18.3	-14.9	-15.2	-13.6	-07.5	-02.9	-10.7	
73	-00.8	-05.4	-10.0	-11.1	-12.1	-15.5	-19.3	-22.8	-17.0	-12.0	-06.1	-02.6	-11.2	
74	-01.6	-03.7	-09.7	-12.0	-14.2	-16.3	-17.0	-17.4	-16.7	-12.3	-05.8	-00.2	-10.6	
75	00.4	-04.8	-08.4	-13.2	-14.6	-18.0	-19.3	-19.5	-18.8	-13.8	-06.0	-02.2	-11.3	
76	-00.6	-04.5	-08.1	-12.4	-14.9	-19.8	-20.7	-21.3	-20.3	-14.8	-06.6	-00.3	-12.0	
77	01.4	-03.6	-08.6	-14.7	-14.5	-15.9	-13.7	-14.0	-18.2	-14.3	-07.7	-01.0	-10.4	
78	-01.8	-03.5	-09.2	-10.4	-12.2	-16.9	-15.0	-20.7	-15.8	-13.0	-07.1	-01.7	-10.6	
79	-00.2	-04.1	-08.9	-08.8	-15.1	-18.7	-19.8	-19.7	-17.7	-14.2	-05.4	-01.7	-11.2	
80	-00.1	-04.7	-07.5	-10.0	-14.3	-15.4	-15.2	-17.6	-15.6	-13.7	-04.7	-01.0	-10.0	
81	-01.6	-03.7	-06.8	-11.7	-14.9	-16.3	-15.6	-15.9	-19.5	-15.7	-07.5	-02.4	-11.0	
82	-05.0	-07.6	-	-	-16.4	-11.6	-18.3	-21.3	-20.1	-15.5	-06.1	-01.2	-	
83	00.3	-04.8	-09.6	-09.6	-14.9	-16.4	-17.2	-19.5	-14.5	-12.9	-08.8	-	-10.8*	
MEAN	-00.4	-04.2	-08.4	-11.3	-14.2	-16.1	-17.9	-18.7	-17.6	-13.7	-06.7	-01.4	-10.9	

MEAN MONTHLY SURFACE TEMPERATURES

MIZUHO	70 42S	44 20E	(89544)	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
79	-17.6	-24.2	-31.6	-33.1	-39.3	-42.7	-42.2	-42.1	-38.9	-33.7	-23.7	-18.3	-12.3	-32.3		
80	-17.6	-24.5	-31.3	-35.9	-40.2	-41.1	-39.4	-41.2	-38.3	-37.3	-24.8	-19.2	-12.6	-32.6		
81	-20.1	-23.7	-30.2	-38.1	-41.2	-42.4	-39.5	-39.0	-41.2	-37.4	-25.9	-19.1	-13.2	-33.2		
82	-20.6	-27.4	-31.9	-39.9	-42.1	-41.8	-43.0	-45.9	-44.2	-36.3	-24.0	-17.7	-12.6	-34.6		
83	-17.3	-24.8	-32.9	-36.5	-38.4	-39.8	-39.6	-40.9	-37.0	-32.9	-28.5	-21.3	-16.5	-32.5		
84	-18.4	-24.8														
MEAN	-18.6	-24.9	-31.6	-36.7	-40.2	-41.6	-40.7	-41.8	-39.9	-35.5	-25.4	-19.1	-13.0	-33.0		

MEAN MONTHLY SURFACE TEMPERATURES

	LENINGRADSKAYA			69 30S			159 24E			(89657)			
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
71				-11.1	-14.6	-16.9	-16.4	-20.6	-20.1	-21.0	-16.4	-12.3	-05.5
72	-02.7	-06.1	-11.3	-13.2	-19.1	-18.2	-18.7	-21.6	-19.8	-19.6	-12.6	-05.2	-14.0
73	-04.1	-08.9	-11.8	-15.3	-17.8	-19.4	-19.6	-21.3	-21.2	-19.0	-09.3	-05.8	-14.5
74	-03.9	-08.0	-11.5	-17.4	-18.7	-16.0	-24.2	-30.7	-20.1	-18.4	-10.3	-04.5	-15.3
75	-03.8	-07.0	-11.2	-16.7	-19.2	-21.6	-18.6	-24.5	-22.8	-19.8	-11.4	-05.6	-15.2
76	-03.3	-06.5	-12.4	-20.8	-20.1	-23.5	-22.2	-21.1	-23.0	-23.1	-10.4	-03.2	-15.8
77	-02.5	-07.0	-11.6	-15.4	-20.6	-20.9	-23.2	-20.1	-23.2	-17.5	-10.9	-05.4	-14.9
78	-05.4	-06.1	-09.6	-13.9	-20.0	-22.3	-17.9	-25.2	-22.4	-18.2	-10.6	-06.3	-14.8
79	-04.9	-07.2	-09.8	-13.0	-18.9	-19.8	-24.4	-20.6	-19.2	-17.4	-10.0	-03.0	-14.0
80	-03.6	-06.2	-08.0	-13.0	-16.0	-21.6	-20.6	-20.7	-17.7	-20.1	-09.4	-05.0	-13.5
81	-05.2	-05.8	-10.0	-13.7	-16.4	-16.5	-19.3	-18.3	-18.9	-16.5	-12.0	-05.6	-13.2
82		-05.9			-16.9	-16.6	-21.7	-23.1	-21.2	-17.2	-09.9	-03.7	
83	-03.6	-04.8	-10.2	-14.5	-15.6	-19.8	-24.2	-24.7	-17.9	-18.2	-11.9	-04.7	-14.2
MEAN	-03.9	-06.6	-10.7	-15.1	-18.2	-19.4	-21.2	-22.5	-20.6	-18.6	-10.8	-04.9	-14.5

MEAN MONTHLY SURFACE TEMPERATURES

MCMURDO	77	51S	166	40E	(89664)	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
56			-23.7	-19.0	-24.4	-24.3	-31.7	-20.3	-20.0	-08.5	-02.3							
57	-03.4	-08.1	-17.4	-24.1	-24.1	-23.9	-27.7	-25.6	-22.2	-20.5	-08.2	-02.9						-17.3
58	-02.3	-05.9	-18.8	-20.8	-25.3	-26.4	-31.5	-29.3	-26.8	-19.4	-08.9	-06.0						-18.4
59	-02.7	-09.7	-17.0	-20.4	-25.4	-23.7	-23.8	-31.0	-25.4	-24.9	-11.7	-02.7						-18.2
60	-06.1	-11.1	-20.7	-23.7	-21.5	-24.6	-28.7	-27.5	-22.4	-17.1	-10.6	-04.6						-18.2
61	-02.8	-08.3	-19.4	-16.5	-20.4	-23.5	-28.8	-28.8	-22.2	-20.4	-08.4	-04.4						-17.0
62	-03.5	-09.0	-22.8	-20.6	-22.9	-22.4	-28.3	-28.4	-29.2	-22.4	-07.7	-04.9						-18.5
63	-04.1	-09.6	-22.8	-20.6	-26.9	-22.3	-26.5	-25.8	-20.9	-20.0	-08.6	-03.8						-17.7
64	-04.6	-11.2		-19.4	-27.8	-19.4	-21.7	-31.4	-24.1			-07.8	-05.6					
65	-02.4	-06.7	-20.0	-19.2	-29.1	-27.9	-22.3	-24.2	-23.2	-18.6								
66	-03.4	-07.1	-20.7	-21.4	-18.9	-19.3	-22.8	-28.0	-25.6	-18.3	-08.3	-03.4						-16.4
67	-01.4	-05.3	-17.8	-24.1	-23.2	-24.8	-24.9	-23.2	-23.9	-20.7	-10.1	-02.8						-16.9
68	-03.2	-07.8	-14.5	-19.9		-24.6	-26.3	-31.4	-33.7	-20.5	-09.6	-04.7						-18.2*
69	-02.6	-09.2	-15.6	-21.4	-24.0	-12.4	-31.0	-25.7	-25.4	-22.0	-10.1	-02.4						-16.8
70	-01.6	-08.0	-12.8	-20.6	-24.3	-21.2	-25.5	-20.4	-22.4	-15.3	-10.0	-02.2						-15.4
71	-01.1	-08.8	-19.0	-17.3	-21.8	-30.7	-27.8	-16.0	-21.9	-19.4	-08.7	-03.1						-16.3
72	-03.1	-01.0	-15.0	-20.3	-15.1	-19.3	-23.6	-25.4	-21.5	-15.7	-19.9	-01.2						-15.1
73	-03.2	-11.8	-21.1	-21.2	-21.4	-22.8	-23.4	-22.2	-23.4	-11.0	-08.6	-01.0						-15.9
74	-02.0	-09.7	-20.1	-20.8	-20.7	-21.0	-28.7	-23.3	-30.3	-16.7	-08.4	-02.3						-17.0
75	-03.0	-07.9	-16.5	-21.5	-20.4	-22.8	-24.6	-30.4	-25.4	-22.3	-11.0	-05.4						-17.6
76	-02.6	-08.2	-16.9	-24.2	-26.8	-27.3	-21.2	-26.8	-25.2	-26.1	-11.8	-03.0						-18.3
77	-01.4	-11.4	-19.1	-21.8	-21.6	-24.0	-22.8	-22.2	-30.5	-19.9	-12.2	-05.4						-17.7
78	-05.9	-11.1	-15.7	-20.8	-23.0	-23.1	-27.0	-35.8	-24.6	-19.9	-10.5	-04.7						-18.5
79	-03.7	-08.8	-18.6	-18.0				-30.3	-24.3	-20.6	-09.6	-03.9						
80	-03.7	-07.6	-18.7	-19.4	-19.4	-24.7	-24.4	-22.1	-24.0	-19.7	-08.8	-03.4						-16.3
81	-03.8	-09.5	-13.1	-23.4	-22.8	-19.9	-20.5	-24.7	-28.2	-15.9	-11.2						-16.4*	
82	-03.7	-24.1	-25.9	-28.6	-09.4	-20.9	-24.2	-23.1	-26.9	-19.5	-07.0	-02.2						-18.0
83	-02.9	-12.6	-17.1	-16.4	-16.9	-24.7	-27.7	-25.4	-24.5	-18.9	-09.2	-03.5						-16.6
MEAN	-03.1	-09.2	-18.4	-21.1	-22.0	-23.0	-25.6	-26.4	-24.9	-19.5	-09.8	-03.5						-17.2

MEAN MONTHLY SURFACE TEMPERATURES

SCOTT BASE

77 51S

166 45E

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
57	-19.8	-27.1	-27.2	-26.2	-30.4	-27.6	-24.5	-22.9	-09.8	-04.6			
58	-03.9	-07.9	-20.9	-23.9	-29.7	-28.8	-35.1	-32.6	-29.2	-22.4	-11.6	-07.4	-21.1
59	-04.8	-12.2	-19.7	-19.8	-29.2	-26.6	-26.6	-35.0	-26.9	-28.6	-14.8	-03.6	-20.7
60	-08.8	-15.7	-24.6	-26.4	-27.4	-28.2	-31.2	-31.3	-25.4	-19.2	-13.2	-07.4	-21.6
61	-04.3	-09.4	-21.0	-19.4	-24.2	-26.2	-33.7	-32.8	-25.0	-24.6	-10.9	-06.8	-19.9
62	-05.5	-12.5	-26.6	-23.3	-26.2	-25.4	-31.2	-32.3	-33.2	-25.8	-13.0	-06.6	-21.8
63	-05.7	-11.6	-23.1	-27.4	-30.2	-24.9	-29.6	-28.8	-25.8	-21.6	-10.1	-05.6	-20.4
64	-06.8	-12.8	-20.8	-22.2	-29.5	-22.4	-24.2	-35.3	-26.2	-21.3	-10.1	-05.3	-19.7
65	-06.8	-10.2	-24.1	-23.6	-33.5	-31.1	-24.6	-27.2	-27.4	-21.3	-11.1	-03.7	-20.4
66	-06.6	-09.3	-13.0	-24.2	-32.1	-21.9	-26.7	-32.1	-29.5	-21.2	-12.2	-05.1	-19.5
67	-02.9	-06.6	-20.2	-27.2	-25.7	-24.2	-27.7	-25.5	-28.4	-25.1	-12.9	-04.9	-19.3
68	-04.9	-09.4	-16.5	-23.8	-28.1	-27.9	-30.0	-33.9	-37.8	-22.1	-12.7	-06.2	-21.1
69	-04.9	-10.9	-18.8	-25.4	-27.7	-28.4	-35.4	-29.1	-29.2	-23.4	-11.7	-03.8	-20.7
70	-03.2	-09.5	-13.6	-22.3	-27.1	-24.5	-30.3	-33.5	-27.0	-17.7	-13.5	-04.0	-18.9
71	-01.6	-10.4	-20.8	-19.2	-24.6	-26.4	-31.8	-30.4	-23.2	-23.5	-11.6	-05.5	-19.1
72	-05.6	-09.6	-18.1	-26.9	-24.5	-22.5	-26.7	-27.2	-24.7	-19.5	-12.3	-04.7	-18.5
73	-05.0	-13.2	-23.6	-24.5	-25.1	-26.1	-26.9	-26.5	-26.1	-17.2	-09.8	-05.8	-19.1
74	-03.6	-10.4	-21.5	-22.5	-22.6	-24.0	-31.5	-25.0	-32.5	-18.7	-10.2	-03.8	-18.9
75	-04.7	-10.2	-19.4	-24.8	-23.6	-25.1	-27.3	-30.2	-24.2	-21.6	-12.8	-06.6	-19.2
76	-04.7	-10.7	-20.6	-28.2	-31.6	-33.3	-25.7	-32.8	-30.0	-31.9	-13.1	-04.4	-22.3
77	-03.0	-13.3	-23.4	-26.0	-25.9	-27.6	-25.4	-26.9	-34.7	-23.1	-14.5	-07.5	-20.9
78	-08.4	-10.9	-17.1	-24.2	-26.2	-26.3	-31.3	-41.4	-28.1	-23.5	-11.3	-06.9	-21.3
79	-05.4	-09.8	-21.1	-21.5	-29.3	-24.7	-33.6	-34.9	-27.5	-25.9	-10.8	-04.9	-20.8
80	-05.4	-10.0	-19.9	-21.7	-22.2	-28.5	-26.0	-25.8	-27.7	-21.5	-10.9	-03.6	-18.6
81	-04.9	-10.6	-15.3	-27.2	-25.8	-23.0	-25.3	-28.4	-31.7	-23.8	-14.1	-04.8	-19.6
82	-04.4	-09.9	-24.4	-28.4	-28.1	-29.1	-33.0	-26.1	-31.3	-22.4	-10.5	-03.3	-20.9
MEAN	-05.0	-10.7	-20.3	-24.3	-27.2	-26.3	-29.3	-30.5	-28.4	-22.7	-11.9	-05.3	-20.2

MEAN MONTHLY SURFACE TEMPERATURES

RUSSKAYA

74 46S

223 09E

(89132)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
80				-07.2	-08.1	-19.4	-11.0	-13.6	-16.6	-11.9	-09.2	-04.2	
81	-03.8	-07.0	-07.8	-14.2	-16.0	-17.9	-18.4	-24.0	-19.8	-12.4	-09.7	-03.4	-12.9
82						-18.5	-16.5		-17.9		-15.5	-07.5	-02.2
83				-06.4									
	-03.7	-07.2	-08.0	-09.9	-10.0	-19.8	-21.0	-23.1	-16.4	-15.7	-09.5	-03.5	-12.3
MEAN	-03.8	-06.9	-07.9	-10.4	-13.2	-18.4	-16.8	-19.7	-17.6	-13.9	-09.0	-03.3	-12.6

MEAN MONTHLY SURFACE TEMPERATURES

COSTUME 2000

BYRD	80 00S 240 00E (89125)												MEAN
	J	F	M	A	M	J	J	A	S	O	N	D	
57	-15.6	-21.1	-30.0	-35.6	-36.1	-33.3	-41.1	-28.9	-30.6	-26.7	-20.6	-12.2	-27.7
58	-15.0	-15.0	-28.3	-30.6	-27.2	-41.1	-41.1	-42.2	-40.0	-36.0	-21.7	-17.2	-29.6
59	-17.2	-18.3	-25.0	-23.3	-33.3	-32.8	-33.9	-38.9	-35.6	-33.9	-22.8	-14.4	-27.4
60	-15.6	-23.9	-31.7	-30.0	-32.8	-30.6	-33.9	-40.6	-33.9	-27.2	-24.4	-14.4	-28.3
61	-13.1	-20.0	-29.7	-28.1	-36.2	-34.8	-35.7	-37.2	-33.2	-37.6	-22.3	-16.3	-28.7
62	-15.7	-23.9	-28.8	-36.2	-29.3	-40.3	-36.0	-34.7	-43.7	-33.2	-22.0	-15.6	-30.0
63	-15.8	-21.3	-31.0	-30.1	-34.0	-28.6	-39.9	-35.2	-36.8	-27.6	-19.4	-17.2	-28.1
64	-17.3	-22.6	-25.3	-30.3	-31.1	-31.9	-32.1	-40.0	-35.0	-31.4	-19.8	-13.8	-27.5
65	-14.4	-19.5	-28.8	-27.3	-37.0	-34.7	-30.2	-33.1	-39.0	-28.4	-19.1	-13.4	-27.1
66	-15.3	-18.6		-26.7	-33.6		-34.7				-20.1	-13.7	
67	-13.5	-15.6	-26.7	-33.3	-28.0	-32.0	-38.2	-31.4	-38.0	-34.4	-23.2	-14.5	-27.4
68	-13.9	-16.8	-24.6	-29.2	-36.5	-41.6	-36.6	-38.7	-42.7	-28.3	-21.6	-15.1	-28.8
69	-15.6	-23.6	-24.3	-33.2	-31.1	-38.1	-33.6	-37.3	-33.8	-31.2	-23.5	-14.3	-28.3
70	-11.8	-22.4	-21.6	-26.1	-35.0	-30.1	-33.9	-33.8	-35.3	-15.3		-11.4	-24.8*
71	-12.6	-09.3								-30.6	-19.3	-14.7	
72	-16.0												
73													
74													-15.9 -12.7
75	-14.2												
MEAN	-14.9	-19.5	-27.4	-30.0	-32.9	-34.6	-35.8	-36.3	-36.7	-30.1	-21.0	-14.4	-28.2

MEAN MONTHLY SURFACE TEMPERATURES

SIPLE	75°56'S 275°45'E												MEAN
	J	F	M	A	M	J	J	A	S	O	N	D	
78	-11.4	-17.7	-24.6	-27.0	-28.9	-34.5	-28.4	-38.8		-26.4	-15.9	-13.4	-24.9*
79	-11.9	-19.1	-23.5	-29.4							-18.6	-12.8	
80	-12.4	-18.3	-23.6	-25.7	-25.6	-32.4	-28.8	-31.5	-30.6	-25.3			-12.8
81													
82	-11.9	-30.9	-25.3	-35.2				-31.5	-33.0	-26.3	-17.8	-11.6	
83	-11.7	-17.3	-25.0	-25.5	-28.8	-35.9	-37.1	-33.9	-30.1	-27.1			

MEAN MONTHLY SURFACE TEMPERATURES

ADELAIDE ISLAND

67 46S

291 04E

(88958)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
57	-01.6	-00.6	-02.5	-02.6	-08.2	-19.9	-17.9	-15.5	-06.4	-11.6	-01.5	-01.1	-07.5
58	-00.9	-00.3	-03.7	-06.2	-12.9	-17.7	-17.6	-19.9	-14.8	-06.6	-00.6	-01.3	-08.5
59	-01.4	-04.4	-02.4	-15.6	-15.7	-07.8	-22.6	-14.1	-12.4	-05.3	-05.4	-00.4	-09.0
60													
61													
62													
63	00.0	-00.2	-03.7	-07.0	-05.5	-07.8	-13.6	-19.1	-10.5	-08.7	-02.5	00.7	-06.5
64	-01.0	00.0	-02.3	-07.7	-09.5	-11.6	-06.0	-20.1	-09.6	-03.1	-01.1	00.0	-06.0
65	-00.9	-00.6	-01.1	-03.3	-04.0	-07.5	-13.1	-12.1	-05.9	-08.8	-02.0	-00.8	-05.0
66	00.2	-00.4	-01.8	-05.8	-06.1	-08.7	-16.0	-12.0	-10.3	-06.7	-02.2	-00.6	-05.9
67	00.0	-02.1	-01.4	-02.9	-08.7	-08.0	-08.2	-08.5	-09.9	-07.5	-03.8	-00.2	-05.1
68	-00.1	-00.1	-00.2	-01.6	-05.4	-10.7	-08.1	-13.1	-12.5	-05.4	-03.2	-00.1	-05.0
69	00.2	-00.7	-04.7	-06.2	-12.5	-18.3	-15.5	-11.1	-06.1	-08.9	-03.5	00.6	-07.2
70	-00.2	-00.8	-02.2	-08.6	-08.8	-08.8	-05.3	-11.0	-03.8	-02.4	-00.6	00.8	-04.3
71	-01.5	-00.3	-00.3	-01.9	-05.2	-03.2	-05.8	-06.8	-05.5	-02.6	-01.4	-00.7	-02.9
72	02.0	01.1	-00.5	-02.7	-03.8	-06.9	-05.3	-10.6	-05.9	-03.9	-02.4	00.6	-03.2
73	-00.8	-00.2	-02.1	-06.6	-08.4	-10.1	-08.7	-06.5	-07.0	-04.1	-01.4	00.3	-04.6
74	01.0	01.3	00.5	-03.8	-05.1	-03.5	-08.1	-07.7	-09.2	-02.8	-01.1	-01.0	-03.3
75	01.3	01.0	-01.1	-02.5	-05.7	-09.1	-15.4	-11.4	-07.2	-05.3	-03.8	00.2	-04.9
MEAN	-00.2	-00.5	-01.8	-05.3	-07.8	-10.0	-11.7	-12.5	-08.6	-05.9	-02.3	-00.2	-05.6

MEAN MONTHLY SURFACE TEMPERATURES

ROTHERA POINT

67 34S

291 52E

(89062)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
77	00.9	-00.6	-01.8	-02.0	-07.1	-10.3	-16.8	-12.5	-17.7	-12.1	-02.7	00.1	-06.9
78	00.2	-01.0	-03.0	-05.1	-08.3	-08.7	-19.3	-14.7	-07.8	-07.3	-04.4	-00.9	-06.7
79	00.8	-00.4	-00.5	-03.5	-10.0	-11.1	-12.1	-12.7	-08.3	-07.5	-02.3	00.2	-05.6
80	00.6	00.8	-04.2	-10.6	-11.5	-15.0	-20.6	-17.8	-11.3	-07.7	-06.5	00.0	-08.7
81	00.6	-01.3	-01.6	-03.6	-08.9	-09.4	-09.7	-12.8	-10.0	-07.3	-04.3	-00.3	-05.7
82	01.2	00.1	-01.5	-03.5	-02.8	-04.4	-15.1	-14.3	-10.8	-09.7	-05.1	00.4	-05.5
83	01.6	00.2	-01.6	-01.4	-02.5	-04.6	-05.0	-07.1	-08.5	-06.0	-01.3	00.8	-03.0
84	01.1	01.1	00.7	-02.7									
MEAN	00.9	-00.1	-01.7	-04.1	-07.3	-09.1	-14.1	-13.1	-10.6	-08.2	-03.8	00.0	-06.0

MEAN MONTHLY SURFACE TEMPERATURES

JANUARY-JUNE 1950

ARGENTINE ISLAND			65 15S		295 44E		(88952)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
51	-01.0	-00.4	00.1	-00.5	-04.1	-07.1	-11.2	-08.5	-13.9	-05.3	-01.5	00.4	-04.4
52	01.2	00.4	-01.7	-04.7	-10.9	-08.3	-12.1	-07.3	-06.4	-06.7	-02.8	-00.8	-05.0
53	-00.9	-02.9	-04.6	-12.2	-13.5	-14.5	-15.2	-10.3	-08.1	-06.2	-02.8	00.5	-07.6
54	-00.7	00.2	-01.2	-05.1	-07.3	-11.7	-13.4	-17.5	-12.1	-03.1	-01.1	00.2	-06.1
55	00.3	00.7	-01.3	-02.2	-04.4	-08.2	-05.8	-07.2	-06.9	-03.4	-04.1	-01.1	-03.6
56	00.8	00.9	00.2	-00.9	-01.4	-01.9	-05.9	-03.9	-06.4	-02.5	-01.4	-00.5	-01.9
57	01.2	01.4	00.4	-01.3	-03.7	-12.6	-13.9	-14.3	-05.2	-07.8	-00.9	-01.2	-04.8
58	00.7	-00.7	-02.4	-03.2	-11.6	-17.2	-18.8	-17.2	-13.6	-04.9	-00.5	-01.7	-07.6
59	-01.6	-02.2	-01.7	-14.0	-14.3	-09.3	-17.4	-13.3	-11.7	-05.4	-04.8	-00.6	-08.0
60	00.2	00.9	-01.8	-06.1	-06.0	-10.9	-12.2	-11.2	-05.1	-04.9	-04.3	-00.8	-05.2
61										-05.8		-00.4	
62	01.2	-00.4	-01.3	-01.5	-04.0			-07.8	-09.5	-06.9	-03.3	-03.1	-00.5
63	00.2	00.3	-02.1	-04.5	-03.6	-06.7	-08.9	-05.6	-11.1	-08.3	-02.4	02.5	-04.2
64	00.6	00.3	-01.6	-04.7	-05.5	-09.3	-05.6	-16.0	-09.3	-02.2	-01.4	-00.1	-04.6
65	00.4	00.9	00.9	-03.1	-02.9	-06.0	-11.5	-13.3	-06.2	-08.3	-02.1	-00.6	-04.3
66	00.3	-00.5	-00.6	-03.3	-04.9	-06.9	-16.1	-11.6	-10.3	-06.0	-02.3	-00.6	-05.2
67	-00.7	-01.1	-00.4	-01.2	-06.2	-06.5	-07.4	-09.5	-08.9	-07.1	-03.0	-00.5	-04.4
68	00.7	00.1	-01.1	-00.7	-03.9	-07.0	-05.4	-08.7	-09.3	-04.3	-02.8	-00.2	-03.6
69	-00.1	00.5	-02.7	-03.9	-07.3	-11.3	-13.3	-08.1	-04.9	-07.3	-02.4	00.3	-05.0
70	-00.3	-00.1	-01.5	-04.5	-05.1	-06.3	-04.7	-09.9	-02.1	-03.5	-00.5	00.4	-03.2
71	01.2	00.9	00.2	-01.4	-04.6	-02.7	-04.3	-04.8	-04.6	-01.9	-01.0	-00.1	-01.9
72	01.7	01.6	00.4	-00.7	-02.7	-05.2	-03.4	-09.0	-03.7	-03.4	-02.5	-00.2	-02.3
73	00.2	01.0	-00.6	-03.3	-04.5	-07.5	-09.1	-05.7	-07.3	-03.7	-01.7	00.1	-03.5
74	01.9	02.1	01.4	-01.9	-03.5	-03.7	-05.1	-05.6	-07.2	-02.3	-01.2	00.5	-02.0
75	01.1	01.4	-00.2	-01.4	-04.0	-07.2	-09.2	-08.2	-05.0	-03.4	-03.8	-00.8	-03.4
76	-00.1	-00.8	-00.2	-01.1	-05.0	-09.7	-11.9	-16.5	-09.9	-05.0	-01.1	-00.2	-05.1
77	01.5	00.7	-00.7	-00.4	-04.0	-05.6	-17.6	-10.7	-13.6	-08.5	-01.8	-00.5	-05.1
78	-00.4	-00.2	-02.1	-03.5	-03.8	-05.2	-17.9	-12.7	-07.7	-06.0	-04.5	-00.5	-05.4
79	00.1	00.1	-00.5	-02.0	-07.4	-08.9	-09.2	-09.7	-07.3	-05.4	-02.2	-00.4	-04.4
80	00.0	01.2	-01.9	-04.9	-05.7	-09.9	-16.2	-15.9	-08.4	-06.4	-03.9	-00.5	-06.0
81	00.0	00.2	-00.3	-02.4	-06.2	-08.5	-08.9	-10.8	-10.9	-06.6	-03.2	-00.7	-04.9
82	00.6	00.2	00.1	-01.8	-02.4	-04.0	-11.4	-08.8	-09.4	-07.6	-03.2	00.8	-03.9
83	01.4	00.2	-00.9	-00.2	-02.6	-02.9	-03.1	-05.1	-06.3	-04.6	-01.3	-00.3	-02.1
84	00.8	01.2	00.7	-01.7									
MEAN	00.4	00.2	-00.9	-03.2	-05.5	-07.8	-10.4	-10.2	-08.1	-05.2	-02.4	-00.2	-04.5

MEAN MONTHLY SURFACE TEMPERATURES

PALMER	64 46S			295 47E									
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
74				-03.5	03.2	-05.8	-05.8	-06.5	-01.7	00.0	01.1		
75			01.0	-01.0	-03.0	-06.0	-07.0	-08.0	-04.0	-01.0	-02.0	00.0	
76	01.0	02.0	0.00	-01.0					-09.0	-04.0	00.0	01.0	
77	02.0	01.0	01.0	-01.0	-05.0	-07.0	-14.0	-19.4	-11.4	-08.9	-06.1	06.0	-05.2
78	06.5	07.0	-00.6	-03.0	-02.5	-04.9	-14.9	-11.9	-05.8	-04.0	-01.9	01.0	-02.9
79	02.0	02.0	01.0	-01.0						00.0	01.7		
80	01.9	02.2	-01.5	-04.7	-03.7	-09.3	-12.6	-13.7	-07.2	-04.0			
81					-05.2	-06.3	-06.8	-08.8	-08.3	-05.3	-02.4	-00.8	
82	-00.2	-02.8	-05.1	-09.7					-07.9	-07.9	-05.5	-02.6	02.1
83	02.8	01.2	00.0	-01.2	-02.1	-03.0	-02.9	-04.3	-04.1	-02.8			
MEAN	02.3	01.8	-00.5	-02.8	-03.6	-04.8	-09.1	-10.0	-07.1	-04.1	-01.9	01.5	-04.1

MEAN MONTHLY SURFACE TEMPERATURES

BASE ALMIRANTE BROWN 64 53S 297 07E (88971)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
51			-00.1	-02.9	-05.3	-07.9	-05.6	-06.5	-01.7	00.6	01.6		
52	03.4	02.5	00.3	-02.4	-07.6	-04.9	-07.2	-04.5	-03.0	-03.3	-00.9	-00.1	-02.3
53	00.6	-01.2	-02.6	-05.6	-05.3	-08.8	-07.5	-05.1	-03.1	-02.7	-01.1	01.0	-03.4
54	01.4	01.2	00.1	-02.2	-04.9	-08.1	-09.1	-10.4	-07.2	-01.1	-00.1	00.7	-03.3
55	02.0	01.7	-00.4	-01.1	-03.1	-05.8	-04.5	-05.2	-04.8	-01.8	-02.0	00.3	-02.1
56	03.5	03.8	03.1	01.3	0.06	0.05	-02.6	-00.5	-01.5	00.8	02.1	03.1	01.1
57	01.5	01.3	00.4	-01.2	-03.8	-09.8	-09.5	-07.3	-02.5	-04.6	-00.2	00.5	-02.9
58	01.7	00.8	-01.1	-02.6	-07.7	-11.2	-12.2	-11.2	-09.3	-03.4	-01.0	-00.5	-04.8
59	-00.8	-00.6	00.0	-07.6	-07.7	-05.6	-12.4	-08.5	-06.4	-03.1	-02.3		-04.5*
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73	01.4	-00.4	-02.8	-04.4	-06.2	-05.7	-03.6	-04.5	-01.5	00.1	01.5		-02.0*
74	02.4	02.2	01.4	-02.1	-03.4	-03.6	-04.6	-04.9	-05.6	-01.2	00.1	01.5	-01.5
75	02.0	01.8	-00.2	-01.0	-04.2	-07.1	-07.3	-05.7	-03.8	-02.1	-01.6	01.4	-02.3
76	01.9	01.5	00.4	-01.2	-04.8	-06.1	-08.4	-11.5	-06.8	-03.5	00.5	01.3	-03.1
77	02.3	01.1	-00.1	-00.4	-03.7	-04.9	-10.1	-06.7	-09.3	-05.0	-01.1	00.9	-03.1
78	00.5	00.6	-00.9	-02.4	-02.4	-04.7	-12.6	-09.8	-04.8	-03.1	-01.6	01.1	-03.3
MEAN	01.7	01.3	-00.0	-02.1	-04.4	-06.1	-08.1	-06.7	-05.3	-02.5	-00.6	01.0	-02.6

MEAN MONTHLY SURFACE TEMPERATURES

MATIENZO	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
62	-00.5	-02.2	-11.9	-11.1	-17.5	-19.3	-18.4	-17.5	-09.7	-05.5	-06.9	-02.2	-10.2
63	-00.6	-04.6	-13.3	-19.3	-17.5	-21.7	-16.9	-21.1	-12.8	-14.9	-03.5	-01.9	-12.3
64	-01.0	-05.5	-11.9	-21.3	-12.5	-22.1	-23.0	-30.5	-15.6	-05.3	-04.0	-02.5	-12.9
65	-00.5	-02.8	-01.6	-14.0	-13.7	-20.7	-22.8	-22.8	-13.5	-12.3	-03.4	-04.2	-11.0
66	-02.3	-05.6	-11.6	-10.7	-22.3	-18.1	-23.3	-17.3	-14.7	-08.4	-05.0	-01.5	-11.7
67	-02.0	-06.4	-08.6		-22.4	-24.0	-20.4	-19.4	-18.0	-11.1	-10.2	-01.9	-13.4*
68	-02.4	-07.1	-14.3	-16.5	-21.1	-22.5	-21.5	-21.9		-07.3	-06.1	-01.5	-13.1*
69	-01.9	-07.6	-14.4	-17.7	-20.7	-23.3	-20.0	-15.3	-13.7	-14.1	-08.9	-01.4	-13.3
70	-01.0	-05.9	-12.4	-16.4	-22.1	-20.3	-14.9	-21.1	-14.6	-08.9	-04.2	-00.7	-11.9
71	-01.4	-06.0	-09.0	-16.3	-21.6	-16.3	-18.1	-18.8	-18.5	-09.6	-06.8	-03.1	-12.1
72	-01.6	-05.9	-13.6	-20.2	-16.5	-25.4	-22.5	-21.7	-16.5	-07.8			
73													
74										-11.7	-07.2	-00.7	
75	-01.5	-04.5	-12.2	-16.5	-22.6	-25.2	-23.9	-24.1	-20.6	-06.6	-04.4	-02.6	-13.7
76	-03.0	-04.3											
77													
78	-00.6	-02.5	-08.5	-12.8									
MEAN	-01.5	-05.1	-11.0	-16.1	-19.2	-21.6	-20.5	-21.0	-15.3	-09.5	-05.9	-02.0	-12.1

MEAN MONTHLY SURFACE TEMPERATURES

ARTURO PRAT				62 29S			300 23E			(85986)				
J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
66	01.8	00.4	-00.2	-01.4	-06.8	-07.7	-12.6	-05.7	-05.5	-03.0	-01.7	00.3	-03.5	
67	00.9	-00.2	-00.3	-01.3	-07.5	-07.1	-06.4	-04.4	-04.2	-02.8	-01.7	-02.0	-03.1	
68	00.9	00.5	-00.5	-01.2	-05.3	-06.6	-04.6	-06.0	-04.4	-02.4	-00.6	00.1	-02.5	
69	00.1	00.2	-02.0	-03.8	-05.4	-09.6	-08.2	-07.1	-03.6	-05.2	-02.0	00.6	-03.8	
70	01.5	00.6	-01.1	-03.0	-06.4	-07.9	-03.9	-06.3	-01.7	-01.1	00.1	00.4	-02.4	
71	01.3	00.9	00.4	-01.2	-05.9	-02.2	-04.3	-05.9	-04.3	-01.1	-00.1	-00.1	-01.9	
72	01.0	00.8	-00.6	-02.7	-03.0	-07.0	-05.4	-09.5	-04.2	-02.1	-00.9	01.3	-02.7	
73	00.3	01.2	-00.1	-02.2	-06.1	-09.4	-07.9	-05.5	-05.9	-02.1	-00.5	00.9	-03.1	
74	01.6	02.5	00.8	-03.3	-03.6	-05.4	-04.9	-07.6	-04.9	-01.9	-00.8	01.3	-02.2	
75	01.3	00.9	00.6	-01.5	-04.6	-06.8	-10.6	-09.7	-04.8	-01.2	-01.1	00.5	-03.1	
76	00.8	01.8	00.6	00.0	-02.8	-04.9	-10.2	-09.0	-06.8	-02.9	-00.6	00.0	-02.8	
77	00.4	01.0	-00.3	-00.9		-05.0	-08.4	-07.9	-07.4	-03.2	-00.7	-00.1	-03.1*	
78	01.4	01.9	-00.8	-00.5	-01.4	-04.9	-11.1	-08.6	-03.7	-02.5	-01.6	00.4	-02.6	
79	01.6	01.4	01.1	-00.4	-03.3	-05.0	-04.2	-06.0	-03.6	-02.8	-01.4	00.6	-01.8	
80	01.1	01.4	-00.8	-04.6	-03.4	-06.5	-12.7	-11.1	-08.3	-03.3	-02.9	00.2	-04.2	
81	00.6	01.4	-00.3	-00.7	-03.4	-04.3	-04.6	-09.7	-05.1	-04.6	-01.5	00.7	-02.6	
82	02.2	01.9	00.6	-00.1	-00.9	-02.9	-07.2	-05.7	-04.8	-03.7	-01.3	00.6	-01.8	
83	01.3	01.1	00.5	-00.2	-03.6	-08.0	-04.7	-03.3	-04.6	-02.5	-00.6	01.0	-02.0	
MEAN	01.1	01.1	-00.1	-01.6	-04.3	-06.2	-07.3	-07.2	-04.9	-02.7	-01.1	00.4	-02.7	

MEAN MONTHLY SURFACE TEMPERATURES

EDUADO FREI	62 12S	301 04E	(85984)	MEAN
	J F M A M J J A S O N D			
69	-03.9 -05.0 -09.5 -0.8 -07.1 -03.3 -04.9 -02.1 00.5			
70	00.7 00.6 -01.0 -03.3 -07.1 -08.1 -03.4 -05.7 -01.3 -01.4 -00.3 00.5			-02.5
71	01.6 01.1 00.6 -01.2 -06.6 -02.6 -04.7 -06.1 -04.1 -01.2 00.0 -00.3			-02.0
72	01.4 00.9 -00.5 -02.6 -03.1 -07.6 -05.7 -09.7 -04.3 -02.1 -01.0 01.4			-02.7
73	00.3 01.3 00.2 -02.4 -05.9 -09.0 -06.8 -05.0 -05.7 -02.1 -00.8 00.7			-02.9
74	01.6 02.2 01.2 -03.2 -03.6 -05.3 -04.9 -07.9 -05.1 -01.7 -00.8 01.2			-02.2
75	01.3 01.0 00.5 -01.7 -01.4 -07.6 -11.5 -10.6 -04.9 -01.2 -01.2 00.5			-03.1
76	01.1 02.0 00.6 -00.4 -02.7 -04.9 -10.2 -08.2 -06.2 -02.6 -00.4 00.1			-02.7
77	01.1 00.8 -01.7 -00.9 -03.0 -04.6 -08.5 -08.2 -06.9 -03.1 -00.4 00.3			-02.9
78	01.5 01.8 00.5 -00.8 -01.2 -05.0 -11.2 -08.3 -03.0 -02.1 -01.6 00.4			-02.4
79	02.4 02.2 01.0 -00.3 -03.0 -05.0 -04.2 -05.9 -03.5 -03.0 -01.1 01.0			-01.6
80	01.9 01.4 00.0 -01.0 -03.0 -07.0 -11.6 -11.1 -08.0 -03.3 -01.6 00.5			-03.6
81	01.0 01.8 -00.9 -00.9 -03.7 -04.4 -04.5 -09.5 -05.3 -04.3 -01.4 00.7			-02.6
82	02.7 02.2 01.0 -00.2 -00.9 -02.9 -07.3 -05.8 -04.8 -03.3 -01.8 01.2			-01.7
83	01.6 01.2 00.6 -00.6 -03.4 -05.3 -05.0 -03.0 -04.2 -02.4 -00.3 00.9			-01.7
MEAN	01.4 01.5 00.2 -01.6 -03.6 -05.9 -06.7 -07.5 -04.7 -02.6 -01.0 00.6			-02.5

MEAN MONTHLY SURFACE TEMPERATURES

BELLINGSHAUSEN			62 12S		301 06E		(89050)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
68		- 0.4	-01.3	-05.5	-06.4	-04.0	-05.8	-04.0	-02.4	-00.8	00.5		
69	00.5	00.3	-01.8	-03.8	-05.5	-09.7	-08.1	-07.1	-03.2	-05.1	-02.2	00.2	-03.8
70	00.8	-00.5	-00.4	-03.2	-07.5	-08.5	-03.8	-06.0	-01.5	-01.4	-00.3	00.4	-02.7
71	01.6	-01.0	00.7	-01.1	-06.6	-02.6	-04.5	-06.2	-04.2	-01.4	-00.3	-00.7	-02.2
72	01.1	00.6	00.0	-02.7	-03.2	-07.2	-05.8	-10.0	-04.5	-02.4	-01.3	01.1	-02.9
73	00.1	01.2	00.1	-02.1	-05.8	-08.9	-06.7	-04.8	-05.8	-02.2	-00.8	00.6	-02.9
74	01.4	02.2	01.3	-03.4	-03.8	-05.3	-05.1	-07.8	-05.0	-01.8	-01.4	01.1	-02.3
75	-01.3	01.3	00.6	-01.5	-04.7	-07.3	-11.5	-10.5	-04.6	-01.3	-01.3	00.2	-03.5
76		00.2											
77	01.0	-01.3	00.0	-00.6	-02.5	-04.8	-08.3	-08.2	-07.1	-03.4	-00.6	00.0	-03.0
78	01.4	01.9	00.5	-00.9	-01.1	-05.0	-11.0	-07.8	-03.3	-02.0	-01.8	00.1	-02.4
79	02.1	01.8	01.0	-00.4	-03.2	-05.2	-04.4	-05.9	-03.3	-03.0	-01.8	00.6	-01.8
80	01.8	01.5	-00.1	-04.7	-03.0	-06.4	-11.8	-11.3	-08.0	-03.4	-02.8	00.1	-04.0
81	00.8	01.8	-00.2	-01.1	-04.0		-04.3	-09.5	-04.7	-04.4	-01.4	00.5	-02.7*
82		02.1	00.9		-01.1	-03.0	-07.2	-06.0	-04.9	-03.9	-01.9	01.1	
83	01.5	01.2	00.5	-00.8	-03.4	-04.8	-05.3	-03.1	-04.3	-02.6	-00.5		-01.8*
MEAN	00.9	00.9	00.2	-02.0	-04.1	-06.1	-06.8	-07.3	-04.6	-02.7	-01.3	00.4	-02.9

MEAN MONTHLY SURFACE TEMPERATURES

	MEAN MONTHLY SURFACE TEMPERATURES														
	BERNADO O'HIGGINS			63 19S			302 06E			(85988)			STATION		
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
66	00.6	-00.8	-02.3	-03.4	-08.4	-08.8	-12.7	-06.9	-06.3	-03.4	-01.9	-00.3	-04.6		
67	-00.3	-01.2	-01.3	-03.7	-10.0	-10.0	-07.8	-06.8	-05.6	-04.9	-03.7	-00.5	-04.7		
68	00.0	-01.6	-04.9	-03.6	-09.6	-09.2	-07.5	-08.0	-05.5	-03.3	-01.4	00.3	-04.5		
69	00.0	-00.8	-03.9	-05.5	-07.2	-11.5	-08.4	-08.4	-04.1	-06.2	-02.4	00.3	-04.8		
70	00.6	-00.8	-02.9	-04.9	-07.7	-09.8	-05.4	-08.5	-03.2	-02.4	-00.8	00.5	-03.8		
71		-00.7	-02.6	-03.3	-08.4	-05.1	-06.3	-07.5	-07.3	-02.5	-00.9	-00.8	-03.7*		
72	00.5	-00.2	-02.0	-05.5	-05.4	-10.0	-08.5	-10.6	-04.7	-02.5	-01.6	00.9	-04.1		
73	-01.0	-00.3	-01.8	-04.9	-08.4	-11.8	-07.0	-06.7	-08.4	-02.8	-01.5	00.3	-04.5		
74	00.2	00.5	-00.5	-06.3	-06.6	-08.2	-07.7	-08.5	-06.9	-02.8	-01.5	00.7	-04.0		
75	00.5	00.5	-02.1	-02.9	-07.7	-10.3	-11.1	-09.8	-05.5	-02.2	-01.8	00.1	-04.4		
76	00.2	00.8	-00.8	-02.6	-05.0	-06.0	-11.8	-09.2	-07.1	-02.5	-00.8	-00.1	-03.7		
77										-03.6	-01.0	-00.1			
78	00.6	00.7	-01.3	-02.5	-02.9	-08.1	-12.2	-10.4	-04.5	-03.0	-02.4	-00.4	-03.9		
79	01.0	00.4	-00.7	-01.9	-04.8	-07.4	-06.9	-08.1	-04.7	-03.0	-02.2	-00.1	-03.2		
80	01.0	00.1	-01.5	-07.3	-06.6	-08.6	-13.6	-11.2	-09.6	-04.1	-04.1	00.3	-05.4		
81	00.8	-00.2	-00.8	-00.9	-05.5	-06.5	-06.2	-09.8	-06.1	-05.3	-02.0	00.6	-03.5		
82	01.4	00.7	01.8	-02.1	-02.0	-04.2	-10.6	-08.4	-05.8	-04.4	-02.6	00.1	-03.0		
83	00.7	00.0	-01.7	-02.7	-05.9	-07.1	-06.1	-05.5	-06.4	-03.9	-02.9	00.6	-03.4		
MEAN	00.4	-00.2	-01.7	-03.8	-06.6	-08.4	-08.8	-08.5	-06.0	-03.5	-02.0	00.1	-04.1		

MEAN MONTHLY SURFACE TEMPERATURES

HOPE BAY

63 24S

303 01E

(88940)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
52						-13.9	-08.2	-10.3	-08.2	-06.8	-05.2	-02.1	-00.6
53	-00.9	-01.6	-06.8	-09.6	-12.5	-12.7	-06.9	-06.9	-06.8	-07.5	-02.5	-00.7	-06.3
54	-00.8	-02.3	-04.6	-04.0	-06.5	-13.7	-15.3	-16.5	-12.2	-03.4	-02.1	-01.0	-06.9
55	01.6	00.4	-05.1	-06.6	-09.1	-09.4	-09.6	-09.8	-03.8	-02.7	-03.6	-02.2	-05.0
56	-00.5	-02.3	-05.7	-04.3	-07.6	-05.7	-07.1	-06.0	-08.2	-05.2	-00.1	-01.6	-04.5
57	-00.7	02.1	-03.1	-01.7	-08.0	-17.1	-13.8	-09.5	-06.3	-11.9	-00.8	-01.1	-06.0
58	00.1	-01.9	-02.4	-08.6	-14.4	-15.3	-13.7	-11.8	-08.7	-03.2	00.6	-00.4	-06.6
59	-00.2	-03.3	-03.1	-08.8	-10.8	-12.5	-16.7	-14.1	-10.6	-03.0	-03.0	-00.2	-07.2
60	01.2	01.1	-00.3	-12.4									

MEAN -00.0 -01.0 -03.9 -07.0 -10.4 -11.8 -11.7 -10.4 -07.9 -05.3 -01.7 -01.0 -06.1

MEAN MONTHLY SURFACE TEMPERATURES

ESPERANZA	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
60	02.6	-00.5	-11.6	-12.1	-08.2	-10.3	-10.3	-04.9	-06.6	-04.2			
61	00.3	-02.2	-07.5	-11.6	-13.2	-17.1	-14.6	-10.8	-10.9	-02.8	-02.5	00.5	-07.7
62	02.5	01.4	-04.6	-02.3	-04.9	-10.5	-07.9	-07.6	-04.6	-01.3	-03.6	00.9	-03.5
63	01.7	-00.1	-04.4	-07.7	-06.0	-10.5	-08.3	-11.4	-06.9	-07.5	-00.5	00.5	-05.1
64	00.6	-00.9	-02.6	-10.8	-06.6	-11.3	-12.2	-20.8	-06.0	-01.0	-00.3	00.2	-06.0
65	00.9	00.4	02.2	-06.2	-07.5	-10.5	-12.3	-11.1	-06.8	-05.6	-00.7	-01.9	-04.9
66	00.6	-02.2	-04.2	-02.9	-14.5	-10.9	-14.7	-07.7	-07.8	-03.3	-01.2		-05.7*
67	-00.1	-03.0	-01.7	-08.8	-15.1	-13.0	-10.6	-07.8	-07.2	-04.6	-05.2	00.3	-06.4
68	-00.2	-02.7	-06.3	-05.7	-12.1	-11.3	-10.6	-10.3	-05.2	-02.6			
69													
70													
71	00.2	-01.6	-03.2	-06.7	-12.0	-05.7	-08.1	-10.2	-09.9	-02.7	-00.3	-00.8	-05.1
72	00.1	-01.1	-06.9	-11.7	-08.4	-15.4	-13.0	-13.9	-06.8	-03.1	-01.4	02.0	-06.6
73	-01.6	-01.1	-03.0	-11.0	-15.7	-14.8	-08.6	-10.7	-12.5	-03.0	-01.4	00.6	-06.9
74	-01.2	01.2	-01.0	-10.3	-09.3	-10.2	-10.5	-13.0	-08.5	-01.2	-02.4	00.1	-05.5
75	-01.6	-03.6	-04.8	-08.7	-12.4	-11.6	-13.9	-13.9	-06.9	-02.2	-01.9	-00.3	-06.8
76	-00.7	00.4	-02.8	-05.7	-07.1	-09.2	-17.6	-10.3	-08.1	00.1	00.2	00.0	-05.1
77	00.6	00.4	-03.0	-06.6	-06.2	-08.5	-10.2	-11.9	-09.7	-03.0	-01.3	-01.2	-05.1
78	01.6	01.5	-02.4	-03.0	-03.1	-13.6	-15.1	-09.6	-03.8	-02.5	-01.6	-00.2	-04.3
79													
80													
81	00.9	00.7	-01.0	-02.8	-08.7	-13.9	-08.7	-13.9	-07.7	-07.6	-01.9	00.8	-05.3
82	02.0	00.7	-02.3	-03.6	-03.8	-03.9	-13.9	-11.1	-06.6	-04.3	-03.3	00.2	-04.2
83	00.5	-00.8	-04.2	-04.1	-10.2	-09.6	-09.4	-03.9	-09.6	-04.3	-01.8	01.6	-04.7
84	-00.6	03.3	00.0										
MEAN	00.3	-00.3	-03.1	-07.2	-09.5	-11.0	-11.8	-11.1	-07.7	-03.5	-02.0	00.2	-05.5

MEAN MONTHLY SURFACE TEMPERATURES

MARAMBIO

64 14S

303 17E

(89055)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
70													-05.8 -04.3 -01.7
71	-02.2	-05.1	-07.1	-12.7	-17.2	-09.8	-12.4	-15.6	-13.4	-06.6	-04.4	-03.6	-09.2
72	-02.4	-04.2	-11.1	-17.2	-13.0	-21.1	-18.8	-16.8	-11.9	-06.2	-04.0	-00.6	-10.6
73	-04.3	-03.6	-05.7	-14.6	-19.4	-17.4	-10.0	-16.1	-17.6	-06.1	-03.4	-01.7	-10.0
74	-03.4	-00.9	-04.1	-15.6	-23.9	-14.5	-15.0	-17.9	-12.9	-07.5	-04.8	-00.6	-10.1
75	-01.9	-04.0	-09.4	-12.3	-17.6	-16.6	-19.8	-18.9	-13.1	-03.9	-03.3	-02.3	-10.3
76	-03.0	-02.3	-06.2	-18.9	-11.1	-13.6	-23.0	-15.4	-13.5	-01.5	-01.5	-02.1	-09.3
77	-01.1	-02.7	-06.4	-11.5	-10.2	-12.5	-13.0	-17.5	-13.7	-06.3	-04.4	-01.7	-08.4
78	-02.0	-02.2	-06.0	-08.0	-07.3	-20.7	-20.9	-14.4	-09.7	-05.0	-03.5	-02.7	-08.5
79	01.5	-03.3	-04.0	-06.8	-09.3	-17.3	-12.0	-13.0	-09.0	-09.2	-04.8	-02.4	-07.5
80	-02.2	-04.9	-07.5	-15.0	-15.0	-17.8	-20.5	-17.5	-15.2	-06.6	-08.2	-01.6	-11.0
81	-01.1	-03.3	-06.2	-06.5	-12.2	-09.4	-11.7	-18.1	-11.6	-11.9	-03.6	-01.4	-08.1
82	00.3	-02.6	-06.8	-09.0	-08.7	-06.8	-18.6	-11.8	-10.6	-02.9	-06.7	-02.0	-07.2
83	-01.7	-03.9	-09.0	-07.7	-15.0	-13.5	-14.6	-06.2	-13.4	-08.1	-05.2	-00.4	-08.2
MEAN	-01.8	-03.3	-06.9	-12.0	-13.8	-14.7	-16.2	-15.3	-12.7	-06.3	-04.4	-01.8	-09.1

MEAN MONTHLY SURFACE TEMPERATURES

THERMOMETER MEASUREMENTS

PETREL

63 30S

303 49E

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
67										-05.7	-05.0	00.0	
68	-00.5	-03.1	-07.5	-06.4	-14.0	-13.3	-12.0	-11.5	-06.5	-02.8	-01.3	-00.1	-06.6
69	-01.3	-03.6	-08.0	-11.0	-12.2	-17.7	-12.6	-09.9	-05.4	-08.8	-03.7	00.5	-07.8
70	00.4	-01.5	-05.3	-09.5	-15.1	-13.7	-07.7	-11.6	-05.4	-03.0	-01.3	-00.5	-06.2
71	-00.5	-03.2	-04.6	-09.0	-15.5	-07.9	-10.2	-11.8	-10.8	-04.0			
72										-07.6	-04.1	-02.1	
73	-01.9	-00.6	-02.3	-09.7	-15.7	-16.4	-08.8	-11.7	-14.0	-04.1	-01.2	00.1	-07.2
74	-00.8	01.0	-01.1	-11.3	-11.6	-12.0	-12.6	-15.0	-09.3	-04.6	-02.2	00.9	-06.5
75	00.1	-01.8	-05.6	-08.7	-14.2	-14.4	-16.8	-17.0	-09.9	-01.5	-01.6	-00.2	-07.6
76	-00.6	00.1	-04.0	-06.7	-07.3	-10.2	-19.6	-12.4	-09.7	-01.2	-00.1		-06.0*
MEAN	-00.6	-01.6	-04.8	-09.0	-13.2	-13.2	-12.5	-12.6	-08.7	-04.0	-02.1	00.1	-07.0

MEAN MONTHLY SURFACE TEMPERATURES

GENERAL BELGRANO	78 00S 312 12E												
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
63	-06.6	-17.2	-20.4	-26.2	-25.3	-33.8	-28.4	-23.0	-23.4	-26.7	-17.8	-06.6	-21.3
64	-06.2	-12.9	-23.1	-33.6	-37.9	-23.9	-35.0	-38.4	-37.2	-29.1	-15.3	-06.4	-24.9
65	-04.3	-10.8	-22.0	-30.1	-29.8	-31.7	-34.2	-32.7	-28.2	-20.3	-12.5	-06.6	-21.9
66	-06.5	-14.3	-12.8	-25.9	-30.6	-29.5	-26.4	-36.7	-34.3	-25.3	-14.5	-04.7	-21.8
67	-03.3	-10.6		-22.9	-31.6	-37.1	-34.6	-35.4	-30.3	-24.0	-13.4	-06.3	-22.6*
68	-07.7	-11.9	-18.3	-29.0	-25.2	-24.4	-33.2	-33.6	-31.4	-18.6	-11.0	-05.7	-20.8
69	-04.3	-15.2	-26.4	-20.9	-25.7	-27.2	-36.6	-27.5	-24.1	-16.7	-12.6	-04.0	-20.1
70	-06.0	-10.5	-24.2	-26.4	-30.4	-35.4	-35.1	-35.4	-20.4	-20.9	-11.9	-04.4	-21.8
71	-05.5	-17.3	-21.3	-23.1	-32.7	-38.5	-35.5	-27.0	-36.5	-24.4	-13.1	-04.3	-23.3
72	-06.6	-11.4	-19.2	-28.0	-29.0	-34.5	-36.5	-32.2	-30.3	-24.8	-12.7	-04.3	-22.5
73	-03.3	-16.3	-18.2	-24.7	-28.3	-34.8	-37.1	-39.3	-33.9	-17.6	-10.7	-07.3	-22.6
74	-05.5	-14.0	-24.2	-28.2	-31.5	-35.9	-33.5	-29.2	-31.1	-24.7	-11.6	-05.4	-22.9
75	-07.3	-12.6	-16.2	-29.4	-24.2	-32.3	-32.7	-43.0	-31.5	-15.9	-11.7	-04.7	-21.8
76	-07.2	-09.1	-25.0	-29.2	-24.7	-32.7	-30.6	-29.7	-30.7	-19.8	-11.1	-05.4	-21.3
77	-05.1	-10.7	-23.8	-25.8	-16.6	-28.2	-33.8	-30.5	-35.2	-23.5	-12.9	-08.8	-21.2
78	-07.5	-12.6	-20.5	-18.0	-26.7	-31.6	-37.4	-29.0	-31.2	-20.0	-13.4	-06.2	-21.2
79	-04.8	-15.2	-24.2	-18.7	-37.4	-31.7	-40.6	-33.2	-30.6			-02.4	
MEAN	-05.7	-13.1	-21.2	-25.9	-28.7	-32.0	-34.2	-32.7	-30.6	-22.0	-12.9	-05.5	-22.0

MEAN MONTHLY SURFACE TEMPERATURES

BELGRANO III 77 54S 314 01E (89045)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
82	-06.3	-11.1	-23.2	-22.7	-25.7	-26.5	-29.3	-28.7	-23.3	-19.4	-11.2	-05.1	-19.4
83	-06.2	-09.7	-21.7	-24.6	-24.1	-31.2	-32.9	-24.1	-27.7	-22.7	-16.5		-20.5*
MEAN	-06.3	-10.4	-22.5	-23.7	-24.9	-28.9	-31.1	-26.4	-25.5	-21.1	-13.9	-05.1	-19.4

MEAN MONTHLY SURFACE TEMPERATURES

ELLSEWORTH

77 43S

318 59E

(89043)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
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57		-20.6	-23.3	-26.1	-32.8	-33.0	-37.2	-27.7	-24.9	-12.7	-06.2		
58	-07.8	-15.9	-23.8	-29.4	-34.7	-32.9	-33.0	-32.9	-27.6	-20.8	-13.9	-09.9	-23.6
59	-04.8	-15.2	-14.8	-29.5	-20.6	-18.6	-34.3	-31.9	-31.1	-20.8	-14.0	-05.1	-20.1
60	-08.7	-15.0	-26.5	-25.5	-32.8	-33.0	-31.2	-28.6	-33.7	-20.8	-14.0	-08.3	-23.2
61	-08.6	-13.1	-22.3	-31.7	-21.8	-31.9		-35.1	-32.8	-17.9	-12.9	-06.7	-22.3*
62	-08.0	-16.2	-23.2	-25.0	-32.9	-27.4	-30.3	-34.3	-28.8	-27.8	-19.7		-23.4*
MEAN	-07.6	-15.1	-21.9	-27.4	-28.2	-29.4	-32.4	-33.3	-30.3	-22.2	-14.5	-07.2	-22.3

MEAN MONTHLY SURFACE TEMPERATURES

BELGRANO II		77 52S	325 23E	(89034)									
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
80		-11.7	-16.1	-22.2	-17.8	-22.9	-20.2	-18.4	-16.4	-07.2	-04.8		
81			-17.6	-19.8	-17.5	-17.0	-19.7	-16.4	-08.2	-04.2			
82	-03.2	-08.0	-14.4	-14.3	-19.2	-21.2	-19.9	-21.0	-16.3	-13.6	-06.6	-02.2	-13.3
83	-03.9	-06.3	-13.6	-15.5	-15.8	-21.3	-23.4	-18.7	-18.8	-16.1	-12.5	-04.4	-14.2
MEAN	-03.6	-07.2	-13.2	-15.3	-18.7	-20.0	-20.9	-19.2	-18.3	-15.6	-08.6	-03.9	-13.8

MEAN MONTHLY SURFACE TEMPERATURES

HALLEY BAY	75 31S			333 00E			(89022)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
56		-18.3	-21.8	-29.7	-29.1	-25.4	-31.1	-24.1	-20.7	-12.8	-05.2		
57	-06.0	-10.2	-15.1	-18.9	-21.5	-23.3	-26.9	-31.5	-24.8	-21.3	-12.1	-05.8	-18.1
58	-06.1	-09.0	-16.3	-24.3	-29.6	-24.6	-28.2	-28.9	-23.7	-18.5	-11.7	-08.9	-19.1
59	-02.7	-09.5	-18.9	-21.1	-17.8	-30.1	-27.5	-27.7	-31.5	-19.5	-12.5	-04.9	-18.6
60	-05.7	-12.7	-18.1	-18.5	-27.2	-30.5	-25.5	-24.6	-29.1	-19.5	-13.5	-06.3	-19.3
61					-22.8		-32.6			-13.9		-05.7	
62	-05.5	-06.2	-16.5	-19.4	-28.0			-28.7	-31.7	-26.8	-24.5	-15.1	
63	-04.7	-11.3	-14.0	-22.3	-26.0	-25.5	-25.9	-19.9	-25.2	-21.9	-12.6	-05.7	-17.9
64	-05.4	-10.0	-16.2	-25.0	-32.1	-22.4	-29.9	-33.5	-33.3	-22.8	-17.7	-06.0	-21.2
65	-05.0	-10.2	-17.4	-22.6	-26.9	-26.8	-27.6	-30.0	-26.0	-20.1	-12.2	-06.1	-19.2
66	-05.4	-09.4	-10.3	-16.8	-23.7	-24.9	-27.3	-29.2	-26.4	-20.2	-13.4	-05.1	-17.7
67	-03.0	-08.3	-20.7	-21.4	-23.6	-30.6	-29.1	-27.0	-28.1	-20.1	-12.0	-04.9	-19.1
68	-03.3	-06.6	-10.6	-19.5	-18.5	-18.2	-29.3	-26.1	-25.0	-15.1	-07.7	-03.9	-15.3
69	-04.9	-08.6	-16.7	-14.7	-20.3	-20.7	-30.4	-29.9	-21.9	-14.3	-10.3	-04.5	-16.4
70	-05.5	-10.7	-19.3	-21.7	-26.7	-30.0	-31.1	-34.9	-16.8	-17.9	-11.0	-03.5	-19.1
71	-03.5	-09.3	-18.6	-17.6	-25.2	-31.8	-32.8	-25.2	-27.5	-18.6	-13.0	-04.5	-19.0
72	-04.6	-08.4	-16.3	-20.3	-24.9	-28.7	-33.5	-29.7	-28.1	-23.0	-11.1	-05.2	-19.5
73	-03.9	-10.4	-16.6	-19.0	-24.8	-31.7	-30.0	-36.8	-26.0	-17.0	-09.9	-06.5	-19.4
74	-04.5	-12.1	-16.8	-21.9	-21.8	-29.9	-31.6	-21.8	-22.9	-20.8	-11.6	-04.6	-18.4
75	-04.3	-10.0	-12.0	-21.1	-17.9	-24.0	-24.2	-30.0	-26.2	-14.7	-10.4	-04.2	-16.6
76	-04.3	-08.7	-18.4	-20.0	-24.5	-25.8	-26.4	-26.4	-23.6	-18.0	-10.9	-04.3	-17.6
77	-03.4	-09.2	-16.6	-16.0	-16.3	-21.6	-29.8	-26.4	-28.4	-19.3	-11.6	-06.7	-17.1
78	-05.6	-08.7	-15.4	-15.6	-21.2	-24.5	-28.7	-25.0	-26.6	-17.3	-12.4	-05.2	-17.2
79	-03.4	-10.3	-18.9	-17.2	-26.3	-23.9	-34.3	-29.2	-26.7	-19.8	-11.8	-04.6	-18.9
80	-05.6	-09.2	-14.6	-20.3	-27.7	-24.7	-31.5	-27.3	-26.3	-22.1	-09.1	-05.6	-18.7
81	-03.7	-08.7	-16.2	-17.2	-26.4	-25.9	-24.7	-25.1	-26.2	-18.7	-10.6	-04.8	-17.4
82	-03.9	-08.0	-21.7	-18.9	-25.4	-26.4	-24.7	-28.7	-21.3	-17.1	-10.2	-04.4	-17.6
83	-04.0	-08.7	-15.2	-24.6	-21.6	-27.8	-29.8	-24.8	-26.7	-20.3	-13.1	-06.5	-18.6
84	-03.4	-10.7	-14.8	-21.7									
MEAN	-04.5	-09.4	-16.4	-20.1	-24.3	-26.5	-28.7	-28.2	-25.9	-19.2	-11.9	-05.3	-18.3

MEAN MONTHLY SURFACE TEMPERATURES

SAAAE	70 10S			35° 36E			(89001)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
57				-16.3	-22.9	-17.6	-26.7	-27.0	-28.5	-19.3	-12.7	-05.3	
58	-03.5	-09.3	-11.6	-20.3	-22.6	-23.2	-25.1	-26.6	-25.2	-15.4	-09.6	-07.2	-16.6
59	-04.6	-08.0	-16.0	-15.8	-18.0	-22.3	-21.6	-23.5	-28.5	-18.3	-11.9	-06.1	-16.2
66	-06.2	-11.4	-15.5	-22.8	-21.6	-25.5	-27.5	-28.2	-29.2	-18.7	-11.7	-05.9	-18.7
61	-06.5	-09.1	-20.3	-21.9	-20.3	-26.7	-28.9	-28.9	-22.9	-14.9	-10.1	-07.0	-18.1
62	-08.3					-19.2	-28.5	-28.5	-21.5	-23.7	-11.5	-06.7	
63	-02.4	-07.9	-13.7	-23.8	-28.6	-21.5	-27.8	-21.9	-24.9	-18.9	-11.5	-04.7	-17.3
64	-04.6	-08.4	-14.3	-22.3	-23.8	-23.5	-24.3	-30.3	-29.3	-18.1	-10.2	-04.4	-17.8
65	-04.5	-10.0	-15.1	-18.4	-24.9	-20.4	-28.1	-28.1	-30.9	-19.3	-11.1	-03.9	-17.9
66	-04.5	-09.1	-13.4	-16.5	-19.3	-25.3	-26.8	-28.1	-22.7	-18.5	-09.0	-04.7	-16.5
67	-02.1	-07.9	-12.5	-24.5	-22.7	-22.4	-25.2	-25.3	-24.7	-18.4	-10.5	-04.1	-16.7
68	-04.7	-09.3	-04.7	-20.8	-20.5	-23.3	-33.1	-29.3	-26.5	-20.3	-11.3	-05.1	-17.4
69	-02.3	-07.9	-13.6	-15.3	-21.9	-16.5	-31.5	-33.3	-27.3	-15.7	-09.0	-04.9	-16.6
70	-04.9	-10.4	-13.1	-19.0	-25.1	-26.0	-31.7	-31.7	-23.0	-19.4	-10.2	-03.8	-18.2
71	-02.2	-08.4	-14.5	-20.2	-22.4	-32.6	-30.5	-29.0	-26.3	-18.6	-13.7	-05.7	-18.7
72	-05.2	-09.8	-16.6	-17.8	-20.4	-22.1	-36.0	-22.4	-25.9	-22.4	-10.4	-04.3	-17.8
73	-03.2	-09.9	-13.9	-15.9	-18.4	-22.4	-24.7	-33.1	-24.7	-19.7	-09.1	-05.9	-16.7
74	-04.3	-09.2	-13.3	-18.5	-12.5	-23.5	-22.1	-23.3	-18.7	-18.8	-09.0	-01.6	-14.6
75	-00.8	-03.6	-06.9	-16.7	-10.5	-23.1	-27.7	-25.1	-21.8	-19.0	-09.5	-02.7	-14.0
76	-02.8	-09.2	-17.0	-20.4	-26.3	-18.4	-28.2	-25.0	-23.0	-18.0	-11.3	-03.2	-16.9
77	-02.4	-06.2	-15.0	-16.1		-19.4	-23.8	-25.3	-26.0	-20.2	-13.0	-07.7	-16.4*
78	-00.7	-07.9	-14.2	-22.0	-23.1	-27.4	-22.1	-28.2	-23.4	-16.0	-11.7	-05.1	-16.8
79	-05.2	-10.0				-22.1	-27.2	-30.7	-29.1	-25.1	-15.8	-12.7	-05.8
80	-04.1	-11.9	-12.7			-22.3	-28.4	-24.2	-28.3	-26.6	-20.0	-09.7	-06.4
81	-03.8	-05.9	-19.1	-18.9	-21.4	-24.7	-17.3	-20.3	-26.3	-19.8	-10.3	-04.1	-16.0
82	-02.8	-11.7	-18.5	-19.1	-21.0	-26.8	-24.3	-23.8	-20.0	-19.3	-09.2	-03.3	-16.7
83	-06.1	-08.9	-14.8	-18.3	-21.2	-25.7	-27.7	-25.5	-20.9	-16.5	-11.6	-06.7	-17.0
84	-04.7	-10.8	-13.6	-19.9	-18.9								
MEAN	-04.0	-08.9	-14.2	-19.3	-21.3	-23.5	-26.9	-27.0	-25.0	-18.6	-10.8	-05.0	-17.0

Appendix II Mean monthly surface temperatures and annual mean temperatures for Southern Ocean and South Pacific Ocean climate stations.

Station	Latitude S	Longitude E	WMO Number	Page
Cape Town	33 56	18 29	68816	48
Marion Island	46 53	37 52	68994	50
Crozet	46 26	51 52	61997	51
Kerguelen Island	49 12	70 12	61988	52
Heard Island	53 06	72 31	94997	53
New Amsterdam Island	37 50	77 34	61996	54
Cape Naturaliste	33 32	115 01	94519	55
Cape Leeuwin	34 22	115 08	94518	57
Maatsuyker Island	43 40	146 16	94041	59
Macquarie Island	54 30	158 56	94998	60
Campbell Island	52 33	169 09	93944	61
Raoul	29 15	182 05	92997	62
Chatham Island	45 58	189 29	93986	63
Rarotonga	21 12	200 14	91960	65
Tahiti	17 32	210 25	91938	67
Rapa	27 25	215 43	91958	68
Pitcairn Island	25 04	229 56	91960	69
Isla De Pascua	67 10	250 34	85469	70
Juan Fernandez	33 27	281 08	85585	71
Punta Arenas	53 10	289 06	87934	73
Stanley	51 42	302 08	88890	75
Cape Pembroke	51 41	302 18		76
Signy Island	60 43	314 24	88925	77
Orcadas	60 45	315 17	88968	78
Grytviken	54 16	323 30	88903	80
Tristan Da Cunha	37 03	347 41	68902	82
Gough Island	40 21	350 07	68906	83

MEAN MONTHLY SURFACE TEMPERATURES

CAPETOWN	33° 56'S					18° 29'E					(68816)				
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
1	19.6	20.9	19.1	18.2	14.9	13.6	12.9	14.4	14.7	16.8	18.4	20.0	17.0		
2	19.3	21.4	21.7	16.8	17.0	13.1	12.6	12.9	14.6	17.1	16.4	20.3	16.9		
3	19.9	20.2	19.0	16.7	13.9	12.2	12.0	12.3	15.0	13.6	16.6	19.6	15.9		
4	20.7	21.1	19.6	16.3	14.7	12.8	13.7	12.9	14.1	15.5	16.7	19.0	16.4		
5	20.8	20.7	21.0	18.0	14.3	12.6	14.8	11.9	14.8	15.7	17.3	19.4	16.8		
6	19.9	21.6	20.6	17.1	15.0	13.6	10.8	11.1	13.4	15.6	18.8	19.2	16.4		
7	20.7	20.8	20.2	17.3	13.7	12.6	12.9	13.2	14.6	15.9	17.0	19.3	16.5		
8	19.8	20.1	19.7	15.0	16.1	12.6	12.8	12.7	14.0	16.2	17.3	20.3	16.4		
9	21.3	22.1	19.4	18.3	15.4	14.2	14.0	13.9	15.7	15.3	19.2	18.0	17.2		
10	21.4	21.8	20.1	18.1	15.6	13.4	14.0	12.3	14.9	16.6	17.3	21.1	17.2		
11	21.1	22.6	20.9	18.1	16.0	13.7	12.3	12.7	14.2	17.4	18.4	19.3	17.2		
12	20.9	20.2	21.1	18.3	15.1	15.8	12.9	13.3	13.6	17.2	17.4	21.0	17.2		
13	22.8	22.2	21.5	16.4	16.1	14.1	11.8	13.9	14.1	16.1	18.8	18.5	17.2		
14	20.4	21.3	20.3	17.0	15.7	12.8	13.7	12.2	14.3	17.6	18.3	18.9	16.9		
15	22.9	22.8	21.2	16.1	15.8	13.7	11.1	13.2	14.1	16.4	18.6	20.8	17.2		
16	21.4	21.6	19.6	18.4	14.3	12.1	12.3	13.2	14.4	16.6	18.9	20.9	17.0		
17	21.6	23.0	20.2	18.3	14.3	13.0	13.4	12.5	14.6	16.8	17.8	20.5	17.2		
18	21.6	22.3	19.8	18.3	15.3	13.2	12.9	16.3	15.3	16.7	18.2	20.0	17.5		
19	20.5	22.1	22.1	18.7	16.4	13.8	11.7	13.6	13.2	16.6	18.6	20.3	17.3		
20	22.7	21.7	20.3	19.4	15.3	12.6	13.2	13.8	14.2	15.7	19.2	20.1	17.4		
21	20.0	22.7	21.2	17.7	16.9	13.3	11.9	11.7	13.9	15.4	19.2	20.1	17.0		
22	20.3	21.3	20.4	17.9	15.7	12.5	13.3	11.9	14.6	16.4	18.5	20.5	16.9		
23	21.0	21.3	20.9	17.6	14.4	13.1	12.7	13.5	14.3	17.3	18.8	21.0	17.2		
24	22.1	22.0	18.8	18.5	13.8	12.7	13.1	12.9	14.9	15.8	17.1	21.9	17.0		
25	20.9	22.8	21.6	18.5	16.0	12.7	13.2	13.8	15.7	16.7	17.8	19.5	17.4		
26	21.8	20.3	20.4	18.1	15.7	13.2	11.9	13.0	13.9	15.7	18.2	20.1	16.9		
27	22.3	22.2	21.3	18.9	14.7	14.8	13.6	14.2	15.0	17.5	20.0	20.2	17.9		
28	21.7	21.8	20.1	18.1	16.6	12.6	14.0	13.8	13.6	16.4	17.9	20.1	17.2		
29	22.5	20.8	20.7	17.0	14.8	14.2	12.3	14.3	15.1	16.8	18.2	20.6	17.3		
30	21.2	21.4	21.1	17.4	17.4	14.2	14.0	13.6	14.2	17.3	19.2	20.4	17.6		
31	23.6	22.3	22.2	16.6	14.7	12.6	12.8	13.6	14.6	16.2	20.6	20.2	17.5		
32	20.5	22.7	20.6	19.9	17.3	13.7	12.3	13.9	14.4	17.0	20.4	20.3	17.8		
33	21.3	21.3	19.1	19.3	14.7	12.2	12.3	12.6	15.1	17.2	19.6	22.4	17.3		
34	22.2	22.9	20.2	19.6	15.9	15.8	12.7	12.9	15.4	17.3	20.1	21.3	18.0		
35	22.1	22.7	19.4	18.5	15.3	13.3	12.6	14.6	13.8	16.9	19.0	20.3	17.4		
36	19.4	19.7	21.4	18.4	13.7	14.6	14.1	14.3	15.7	16.5	19.4	19.9	17.3		
37	21.7	22.4	20.7	18.0	14.8	13.5	12.7	14.4	15.1	17.2	19.1	21.2	17.6		
38	21.1	20.9	20.4	17.7	15.6	15.1	14.1	13.1	14.3	16.1	18.1	19.7	17.2		
39	21.8	21.4	20.6	17.2	16.6	15.4	14.3	13.7	15.7	17.7	19.7	21.1	17.9		
40	22.2	22.4	19.7	16.9	14.8	13.7	14.0	14.7	13.7	17.9	18.2	20.5	17.4		
41	22.2	21.1	20.5	16.6	14.5	13.2	13.2	14.6	14.1	16.1	18.0	20.0	17.0		
42	21.4	22.1	20.7	19.5	15.6	13.3	13.2	12.7	13.8	17.1	20.1	20.3	17.5		
43	20.3	19.9	21.1	17.5	14.3	12.9	11.6	12.9	14.1	16.1	18.3	21.4	16.7		
44	21.8	22.7	20.7	18.2	15.3	13.2	13.0	12.8	14.6	16.9	17.8	19.2	17.2		
45	21.2	22.3	21.4	19.3	15.7	13.8	11.8	12.8	16.4	16.3	19.8	19.2	17.5		
46	20.7	21.4	19.7	17.8	15.4	13.1	12.2	14.1	13.9	16.6	18.8	20.3	17.0		
47	21.1	22.8	21.3	17.3	15.1	12.4	12.4	13.3	15.4	16.8	19.5	20.7	17.3		
48	21.8	22.4	19.7	18.3	16.3	12.3	12.3	13.2	13.7	16.6	19.3	20.1	17.2		
49	21.7	22.5	21.7	17.5	15.6	15.7	12.7	13.7	14.8	17.1	18.4	20.3	17.6		

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
50	21.6	20.8	20.4	16.7	16.1	13.5	12.3	14.5	14.6	17.6	18.3	19.3	17.1
51	20.5	21.3	19.9	17.6	16.1	14.5	12.7	13.9	13.3	15.7	17.5	20.1	16.9
52	21.7	23.0	19.5	18.3	14.6	13.3	12.4	13.4	15.2	16.7	19.5	19.9	17.3
53	22.7	22.5	21.7	16.5	15.3	13.6	12.5	13.3	16.2	17.1	18.9	20.1	17.5
54	21.4	21.7	20.9	17.5	14.7	14.1	11.3	13.2	14.4	16.1	18.6	20.0	17.0
55	22.2	20.5	20.9	16.8	16.0	13.5	12.7	12.3	13.4	15.4	17.8	18.7	16.7
56	22.0	19.9	20.0	16.7	14.0	12.7	12.9	12.9	15.3	16.2	20.1	20.5	16.9
57	22.3	21.2	20.3	17.1	15.1	13.5	13.4	13.3	14.8	14.5	17.8	21.4	17.1
58	21.7	20.3	20.3	17.6	14.5	12.4	13.7	13.9	14.7	16.9	18.3	22.1	17.2
59	20.7	22.3	19.9	16.9	14.5	13.9	13.1	14.1	15.5	16.5	19.3	20.4	17.3
60	21.9	22.3	19.7	17.9	15.1	14.5	12.9	13.7	16.4	17.7	20.9	21.9	17.9
61	20.3	19.9	19.7	17.5	13.5	13.1	12.8	12.7	13.4	13.9	18.3	18.8	16.2
62	20.2	20.1	18.9	16.6	14.1	13.0	11.9	12.3	13.6	15.3	16.7	19.6	16.0
63	22.0	20.2	19.6	15.7	14.0	13.0	11.4	12.1	14.6	16.9	19.0	20.3	16.6
64	21.1	19.9	19.5	16.3	14.9	11.5	12.1	11.6	12.9	15.5	17.1	20.1	16.0
65	20.5	19.9	18.7	17.0	13.8	10.7	12.0	12.0	13.0	15.7	17.2	17.7	15.7
66	20.1	18.7	18.6	17.4	13.9	12.5	11.2	12.2	13.8	16.0	17.8	19.7	16.0
67	19.1	20.6	18.7	15.7	14.0	11.6	10.8	11.7	13.7	15.7	18.2	19.9	15.8
68	19.3	18.9	19.7	16.5	14.4	11.5	10.9	11.5	14.8	13.7	15.2	18.9	15.4
69	19.8	20.7	20.1	15.9	13.3	11.9	11.5	12.6	12.9	15.3	17.3	19.8	15.9
70	21.0	20.1	19.4	17.4	13.7	12.0	10.2	11.6	12.8	16.5	16.3	17.7	15.7
71	19.6	20.8	16.1	18.9	13.9	11.8	11.1	11.5	12.0	15.9	17.4	20.9	15.8
72	20.6	21.3	19.7	16.4	14.8	13.3	12.5	12.0	14.2	16.7	19.5	18.9	16.7
73	20.5	22.4	19.4	18.0	14.1	13.4	12.5	12.0	12.8	16.5	18.7	19.8	16.7
74	20.9	21.1	19.3	17.3	14.2	13.6	11.8	11.7	12.7	14.7	14.4	19.9	16.0
75	20.5	21.4	19.4	16.4	14.6	13.6	12.0	11.8	15.2	14.9	17.3	19.7	16.4
76	21.2	20.2	18.9	17.1	15.4	13.3	11.9	12.3	14.1	16.1	15.6	18.5	16.2
77	19.8	21.4	19.2	18.1		13.7	11.8	13.3	14.0	15.4	18.9	20.2	16.7*
78	21.2	20.5	19.7	17.1	13.8	12.8	13.0	12.5	13.2	14.7	18.6	19.9	16.4
79	20.7	20.5	18.3	18.1	19.7	19.6	12.0	13.4	13.6	15.0	18.9	20.8	17.6
80	21.0	20.0	20.0	17.1	13.9	13.2	13.0	13.7	14.3	15.8	16.9	19.4	16.5
81	19.8	20.7	19.1	17.0	15.1	11.4	11.4	11.8	13.4	16.4	17.7	20.0	16.1
82	20.1	19.6	18.4	16.3	14.5	11.6	12.0	12.3	15.1	16.1	16.8	17.7	15.9
83	19.7	18.8	18.5	17.9	14.1	12.7	12.1	12.1	12.8	18.7	17.5	19.7	16.2
84	20.8	20.7	19.4	17.2	14.2	14.2							
MEAN	21.1	21.3	20.1	17.5	15.1	13.3	12.6	13.0	14.3	16.3	18.3	20.0	16.9

MEAN MONTHLY SURFACE TEMPERATURES

MARION ISLAND 46° 53'S 37° 52'E (68994)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
48			06.2	04.5	03.3	03.6	02.1	02.6	03.6	04.5	05.4		
49	06.4	06.3	06.8	05.6	05.5	04.7	03.1	02.3	03.2	04.0	04.9	06.0	04.9
50	06.2	06.9	07.3	07.5	05.1	02.8	04.0	03.6	04.8	03.9	05.7	06.2	05.3
51	06.4	07.3	07.4	05.3	04.4	04.7	03.1	03.7	03.1	03.8	04.6	05.1	04.9
52	05.8	06.5	06.5	06.0	04.9	04.8	04.3	03.4	02.9	04.7	05.0	06.3	05.1
53	06.9	07.2	07.6	06.3	05.4	04.5	04.0	03.7	03.8	05.2	05.9	06.3	05.6
54	07.2	07.6	06.9	05.7	04.6	03.6	02.8	04.1	04.1	04.5	05.2	05.8	05.2
55	06.4	06.9	07.2	05.3	04.4	03.8	03.4	03.7	03.4	04.2	04.6	06.3	05.0
56	08.1	08.1	07.7	05.4	03.7	03.3	03.6	02.1	02.8	04.6	05.3	04.7	04.9
57	06.1	07.3	07.5	07.4	06.2	03.5	03.3	03.9	03.9	05.0	04.8	05.7	05.4
58	07.8	07.8	06.7	05.6	04.6	03.7	03.6	02.9	02.4	03.4	05.8	06.1	05.0
59	06.7	07.0	07.4	06.2	05.4	04.6	04.1	03.1	03.2	04.5	04.8	05.1	05.2
60	06.2	07.8	07.3	05.5	03.9	04.2	03.4	02.6	02.9	04.3	05.4	06.1	05.0
61	06.6	06.8	06.8	05.5	03.7	05.0	04.1	04.6	03.9	03.8	05.0	06.6	05.2
62	06.5	07.2	06.7	06.1	05.1	03.4	03.5	04.7	03.2	04.7	05.6	06.0	05.2
63													
64		07.2		06.4		03.8	04.1	03.1	03.6	04.2	04.3	05.3	
65	06.9	06.8	06.8	06.6	04.7	04.9	04.3	03.5	04.1	04.0	05.6	06.2	05.4
66	06.7	06.2	06.9	04.8	03.8		04.0	03.3	03.3	03.5	05.7	06.7	04.9*
67	06.3	06.2	06.7	06.0	06.0	04.5	02.6	04.2	03.2	05.2	04.9	05.9	05.1
68	06.4	07.3	06.5	04.6	04.1	04.1	03.7	02.9	03.8	03.5	04.8	05.3	04.8
69	06.4	06.9	07.2	05.0	05.6	05.2	04.1	04.5	03.9	03.3	03.8	04.5	05.6
70	07.3	08.3	07.7	05.1	05.6	05.2	03.6	03.4	02.6	03.7	04.4	06.0	05.2
71	07.6	08.3	05.8	08.3	04.6	04.0	03.7	03.2	03.1	04.5	05.3	06.0	05.4
72	07.8	07.5	07.9	06.0	05.3	05.8	03.0	02.9	04.0	04.5	06.9	05.8	05.6
73	06.9	08.5	07.8	06.7	04.5	04.7	04.9	03.8	03.1	03.8	04.0	06.3	05.4
74	06.8	07.2	07.1	06.3	05.6	05.4	04.4	03.3	04.1	05.0	04.9	06.1	05.5
75	06.1	07.0	06.5	05.6	04.2	04.6	03.6	03.4	03.6	05.2	06.0	06.2	05.2
76	07.7	08.6	07.4	06.1	05.5	04.9	02.9	03.5	03.8	03.7	04.9	05.5	05.4
77	07.4	08.0	07.3	05.3		03.8	04.5	03.3	04.1	04.2	05.6	06.7	05.4*
78	07.3	07.1	07.5	06.6	04.6	03.6	03.7	03.2	04.0	04.2	05.0	06.7	05.3
79	07.4	07.9	08.1	06.1	09.9	07.7	05.1	03.1	03.1	03.5	05.5	05.7	06.1
80	07.4	07.7	07.6	06.8	06.4	04.9	04.1	04.3	04.0	04.7		06.5	05.8*
81	06.7	07.6	07.6	06.3	06.2	04.7	04.8	03.3	05.0	05.4	05.7	06.8	05.8
82	07.2	07.8	07.0	06.7	05.8	05.8	04.1	04.5	03.6	04.3	05.1	06.6	05.7
83	07.4	08.1	07.4	06.8	05.5	05.5	05.0	03.7	04.4	09.1	05.1	06.4	06.2
84	07.5	08.7	08.4	07.2	06.2	05.3							
MEAN	06.9	07.4	07.2	06.1	05.1	04.5	03.8	03.4	03.5	04.4	05.2	06.0	05.3

MEAN MONTHLY SURFACE TEMPERATURES

CROZET		46° 26'S			51° 52'E			(61997)						
		J	F	M	A	M	J	J	A	S	O	N	D	MEAN
65	07.4	05.1	07.9	07.0	04.9									
66		06.8	07.7	04.7	03.2	03.9	03.1	02.6	01.5	02.2	03.6			
67														
68														
69	06.6	07.3	05.5	04.1	02.4	01.5	02.9	03.8	02.9	03.1	04.7	05.6	04.2	
70	07.9	08.9	06.9	05.2	04.2	04.3	02.9	03.7		03.8	05.9	07.9	05.4*	
71	10.6	11.2	08.6	06.6	04.7	03.9	03.1	02.9	02.6	03.7	04.8	06.0	05.7	
72	07.5	06.3	07.8	05.8	05.5	04.4	02.9	01.8	03.4	03.4	04.9	07.0	05.1	
73							04.0	04.6	04.0	02.0	03.3	03.4	05.7	
74	07.1	07.4			05.5	04.3	03.2	02.8	03.4	04.3	03.6	06.0		
75	06.2	07.0	06.9	06.4	03.7	03.2	02.9	03.0	02.6		05.1	05.2	04.6*	
76	06.4	08.1			06.2	04.7	04.7	02.1	02.8	02.4				
77	07.4	07.2	07.4	05.3	04.5	03.8	04.0	02.2	03.2	02.5				
78											03.1			
79	07.4	07.2	07.4	05.3	04.5	03.8	04.0	02.2	02.3	02.5	04.6	04.7	04.7	
80	06.9	09.1	07.6	07.5	06.6	04.3	02.6	02.8	02.9	03.1	03.7	06.0	05.3	
81	06.5	07.3	07.9	06.0	04.8	04.2	03.5	02.7	04.2	03.4	05.3	06.3	05.2	
82	08.2	08.6	07.8	07.3	05.9	06.2	03.2	04.0	03.1	03.2	04.9	06.1	05.7	
83	08.1	08.6	07.8	06.1	05.4	04.9	03.3	03.3	03.4	03.7	05.7	07.1	05.6	
MEAN	07.4	07.7	07.5	06.0	04.7	04.1	03.2	03.0	02.9	03.2	04.6	05.9	05.2	

MEAN MONTHLY SURFACE TEMPERATURES

	KERGUELEN												(61988)
	J	F	M	A	M	J	J	A	S	O	N	D	
51	07.9	07.7	08.3	05.5	04.9	03.3	02.9	03.2	03.6	02.7	04.0	05.3	04.9
52	06.7	07.6	06.9	05.8	04.1	01.0	02.6	02.7	02.5	04.1	04.2	07.3	04.6
53	07.8	07.2	05.8	05.5	03.4	01.6	02.1	02.3	01.5	02.5	04.4	05.8	04.2
54	07.6	08.1	07.2	06.5	04.3	02.4	01.9	02.0	01.7	03.8	05.4	05.4	04.7
55	06.8	08.1	07.3	07.1	04.3	02.1	02.2	01.7	02.3	04.6	05.2	07.3	04.9
56	06.2	07.2	06.8	07.1	04.5	02.9	02.1	03.2	01.9	03.9	04.0	05.7	04.6
57	06.6	08.0	06.9	05.1	02.6	01.4	02.5	01.8	01.8	03.8	03.8	06.2	04.2
58	06.8	07.7	07.2	05.6	03.2	02.1	02.7	02.1	03.5	03.6	05.6	06.4	04.7
59	08.1	08.2	07.5	05.5	01.7	01.5	00.9	00.6	02.9	03.1	05.3	07.1	04.4
60	07.2	09.1	07.3	07.3	04.5	03.1	02.2	01.4	03.1	02.4	04.1	05.8	04.8
61	05.9	06.4	06.6	05.4	02.5	02.3	01.4	01.7	01.1	03.2	04.8	07.4	04.1
62	08.9	07.0	06.9	05.7	04.2	01.0	00.6	01.3	02.0	03.9	04.4	05.9	04.3
63	06.8	07.2	06.5	05.8	03.6	02.0	02.4	-00.7	00.0	01.8	02.9	05.2	03.6
64	06.2	06.1	05.2	05.3	02.9	01.0	-00.7	01.1	01.8	03.5	04.1	05.3	03.5
65	06.9	06.1	06.4	05.0	03.5	01.4	01.3	02.5	02.0	03.6	05.2	05.2	04.1
66	06.1	07.3	07.2	04.9	02.3	02.3	01.7	02.4	01.8	02.7	03.5	06.2	04.0
67	06.1	06.6	06.5	06.0	02.5	01.3	00.4	02.2	01.4	02.4	04.3	06.1	03.8
68	07.7	08.7	07.7	06.2	05.2	03.6	02.3	03.5	02.5	03.6	05.2	05.9	05.2
69	06.1	07.0	06.5	05.1	05.1	01.3	02.5	02.0	02.9	02.4	03.6	06.3	04.2
70	06.9	07.6	06.5	05.5	03.4	02.7	02.1	02.4	01.8	02.4	04.2	05.9	04.3
71	08.5	09.3	07.0	06.3	03.3	01.4	01.9	02.5	02.5	03.5	05.1	07.1	04.9
72	07.1	06.8	06.5	04.0	02.6	02.2	02.0	01.5	02.9	03.6	04.1	05.2	04.0
73	07.6	07.1	07.5	04.9	02.9	03.0	02.2	03.0	01.2	02.8	03.8	06.5	04.4
74	06.9	07.7	06.8	04.1	03.3	02.7	01.9	01.2	02.7	03.1	03.8	06.5	04.2
75	08.1	07.3	07.3	05.6	02.6	01.9	02.8	02.5	02.2	04.6	05.2	05.9	04.7
76	07.3	07.7	07.4	06.3	04.1	02.5	01.2	02.2	01.8	03.2	05.5	04.0	04.4
77	07.0	06.7	07.6	05.4	04.6	02.3	01.7	01.5	03.2	03.4	05.7	05.6	04.6
78	07.5	08.6	06.8	05.5	04.8	02.5	02.4	02.7	03.2	04.3	05.6	05.7	05.0
79	08.8	07.7	07.9	05.4	04.4	03.1	02.2	02.0	02.6	02.7	05.2	05.5	04.8
80	07.9	09.6	06.1	07.3	04.7	04.8	01.5	01.3	01.9	03.3	03.7	07.3	05.0
81	07.0	08.6	08.2	05.3	04.7	04.1	02.3	02.4	02.4	03.1	06.6	08.7	05.3
82	08.2	09.5	08.8	07.2	04.7	03.8	02.2	02.8	03.6	03.5	06.0	06.9	05.6
83	08.0	09.4	08.0	05.5	02.8	02.8	02.5	01.6	01.0	03.2	06.6	07.0	04.9
MEAN	07.2	07.7	07.1	05.7	03.7	02.3	01.9	02.0	02.2	03.3	04.7	06.2	04.5

MEAN MONTHLY SURFACE TEMPERATURES

HEARD ISLAND

53 065

72 311

(94997)

MEAN MONTHLY SURFACE TEMPERATURES

NEW AMSTERDAM ISLAND 37° 50'S 77° 34'E (61996)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
51	18.9	17.9	17.7	16.2	15.3	12.5	12.0	11.3	12.1	12.3	13.0	14.6	14.5
52	15.3	16.7	14.8	14.3	12.6	10.1	10.0	10.2	11.6	12.5	12.5	15.7	13.0
53	17.3	16.5	15.8	14.3	11.9	11.6	11.1	10.7	11.0	12.3	13.4	15.4	13.4
54	17.4	16.1	15.4	14.5	14.1	11.7	11.2	12.0	11.1	12.2	13.6	15.9	13.8
55	17.5	17.9	17.7	15.1	13.0	12.3	11.7	11.3	11.9	12.1	13.6	15.6	14.1
56	16.2	15.9	14.6	14.5	13.0	11.8	11.7	12.3	11.6	12.7	13.7	15.2	13.6
57	15.9	16.8	15.2	14.1	12.8	11.6	11.4	10.9	11.9	11.7	13.5	14.9	13.4
58	15.0	16.1	17.0	14.6	13.5	11.7	10.7	11.4	12.0	13.0	14.4	15.8	13.8
59	17.6	18.6	16.0	14.5	12.1	11.7	09.9	11.3	11.8	12.3	13.5	16.6	13.8
60	18.0	17.0	15.7	15.4	13.4	12.2	11.1	12.0	11.9	12.5	12.7	15.2	13.9
61	16.7	16.9	16.7	16.0							13.7	16.3	
62	18.4	17.0	16.7	14.7	13.1	11.6	10.9	10.6	11.4	12.3	12.4	15.2	13.7
63	16.2	17.3	15.0	14.8	12.8	10.9	10.4	10.2	10.8	10.6	12.2	14.2	12.9
64	15.0	16.8	14.9	13.6	11.8	11.1	10.1	09.9	10.5	11.0	12.8	14.9	12.7
65	15.2	15.2	15.1	12.1	11.8	09.9	10.1	10.3	10.5	11.8	13.7	15.1	12.6
66	15.8	16.3	15.5	15.3	12.8	10.9	11.3	10.2	10.9	11.6	12.1	14.8	13.1
67	14.8	15.2	15.3	13.4	11.9	10.6	10.8	10.0	11.3	11.8	12.8	14.3	12.7
68	17.6	17.4	16.2	14.3	12.4	11.8	10.9	11.8	12.4	12.9	15.6	14.2*	
69	16.4	16.0	14.7	13.8	12.3	11.3	11.3	10.1	11.8	12.6	13.2	15.1	13.2
70	15.3	16.2	14.9	15.0	12.8	11.5	11.5	10.3	11.3	12.5	13.8	14.8	13.3
71	17.0	17.0	15.7	15.9	13.5	12.4	11.1	11.3	11.2	11.1	12.8	15.6	13.7
72	16.3	16.3	15.4	14.8	13.3	11.6	12.1	11.4	11.4	12.9	13.9	14.6	13.7
73	17.1	18.1	16.5	14.6	13.3	12.0	11.4	12.0	11.6	12.5	13.8	15.5	14.0
74	17.3	18.0	16.4		12.7	12.1	11.1	11.5	11.3	12.2	14.3	15.2	13.9*
75	17.3	17.0	16.8	15.2	14.2	11.5	11.6	10.5	11.2	12.2	14.1	16.0	14.0
76	16.3	17.3	16.6	14.3	12.9	12.7	12.0	10.9	11.5	12.6	14.5	16.0	14.0
77	16.3	16.5	16.2	16.8	14.2	13.3	11.2	11.7	11.8	12.9	14.3	15.1	14.2
78	17.0	16.9	16.3	15.7	14.0	12.5	11.3	12.1	11.7	13.3	14.4	15.4	14.2
79	17.1	17.3	15.9	15.3	13.9	13.8	11.5	11.9	13.2	12.7	13.9	15.2	14.3
80	16.0	18.1	16.4	15.8	13.8	12.8	11.8	11.3	11.5	12.9	14.2	15.6	14.2
81	16.5	17.9	18.2	16.1	13.7	13.0	13.3	12.3	12.3	12.8	13.8	15.6	14.6
82	17.4	18.9	18.0	15.8	14.2	12.4	12.1	11.4	12.4	12.6	14.1	15.3	14.6
83	17.3	17.5	16.4	15.5	13.4	12.6	12.0	11.2	11.3	11.6	13.6	15.7	14.0
MEAN	16.6	17.0	16.1	14.9	13.2	11.9	11.3	11.1	11.6	12.3	13.5	15.3	13.7

MEAN MONTHLY SURFACE TEMPERATURES

	CAPE NATURALISTE				33 32S			115 01E			(94519)			
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN	
4	20.5	19.8	20.7	17.6	14.6	14.4	12.4	13.6	13.9	14.0	16.7	18.5	16.4	
5	18.7	18.8	17.5	17.7	15.4	13.8	13.0	11.9	12.8	14.1	16.5	19.4	15.8	
6	19.8	19.5	19.5	18.1	16.1	14.3	12.3	12.7	12.3	15.1	16.3	19.5	16.3	
7	20.0	20.6	19.5	17.1	16.4	14.3	13.8	14.2	13.8	14.1	15.0	16.6	16.3	
8	18.4	18.8	17.3	16.9	14.9	12.4	12.4	12.4	13.1	14.5	16.5	18.3	15.5	
9	19.9	20.7	19.1	16.4	15.6	14.2	12.9	12.3	14.1	14.6	15.2	20.5	16.3	
10	20.1	21.1	20.5	19.3	15.1	13.4	12.2	13.5	13.4	13.1	16.0	17.4	16.3	
11	20.6	20.2	18.9	17.3	14.4	13.8	12.7	12.3	13.4	14.8	17.0	16.9	16.0	
12	19.9	20.9	19.0	18.0	15.6	14.6	12.8	13.5	13.3	14.4	16.3	18.8	16.4	
13	19.3	20.4	19.0	17.0	16.1	14.8	13.6	12.8	13.7	13.9	16.6	17.5	16.2	
14	19.5	19.0	18.4	16.3	14.6	14.4	12.6	14.2	14.2	16.9	17.2	18.6	16.3	
15	21.5	20.7	18.8	18.5	16.3	15.1	13.4	13.5	12.9	14.6	17.5	19.4	16.9	
16	19.1	19.5	18.4	16.9	16.1	13.5	12.9	12.9	14.6	14.0	17.1	18.3	16.1	
17	20.1	20.0	18.3	16.9	14.8	13.8	13.1	12.1	12.9	13.7	15.9	17.9	15.8	
18	21.7	19.7	18.5	18.9	15.8	14.9	13.1	13.0	14.8	14.3	17.8	18.1	16.7	
19	18.8	18.6	20.4	18.1	15.7	13.9	14.4	12.9	13.5	13.8	16.3	17.5	16.2	
20	22.1	19.6	19.5	18.3	15.8	14.0	12.6	11.9	13.9	15.6	17.9	18.6	16.6	
21	20.4	23.2	20.5	18.4	15.9	15.5	14.5	13.3	13.8	14.8	15.6	19.4	17.1	
22	19.0	20.0	20.0	17.5	15.0	13.5	12.3	13.7	12.9	14.8	16.9	16.6	16.0	
23	18.5	20.8	19.5	18.5	16.2	13.3	13.6	13.1	13.1	13.9	16.0	17.6	16.2	
24	19.4	19.6	18.2	18.5	16.4	14.5	14.1	12.3	13.6	13.6	16.4	18.8	16.3	
25	19.5	19.6	19.4	17.2	15.6	14.3	13.0	12.7	14.2	14.6	17.8	20.0	16.5	
26	21.0	19.3	18.9	17.4	15.1	14.0	12.5	12.3	14.0	14.7	17.1	18.1	16.2	
27	18.7	19.0	17.5	19.4	15.4	13.6	12.7	13.1	14.0	15.4	17.4	20.7	16.4	
28	19.7	19.5	19.1	18.1	15.7	14.6	13.5	14.1	13.4	14.0	16.4	18.1	16.4	
29	18.9	20.6	18.5	16.9	14.8	13.0	12.4	12.6	13.1	14.6	16.6	18.9	15.9	
30	19.5	19.4	21.6	18.7	16.7	15.1	13.8	13.5	13.6	14.4	16.2	18.9	16.8	
31	20.7	18.9	20.3	17.8	14.4	12.9	13.8	13.7	13.8	14.9	17.6	22.2	16.8	
32	21.6	22.2	19.0	18.3	16.4	15.2	13.6	12.4	14.1	15.1	16.8	18.1	16.9	
33	20.5	22.5	18.6	18.5	15.9	15.3	13.0	12.3	14.1	15.0	17.3	19.1	16.8	
34	20.8	22.7	20.6	17.9	17.1	14.4	13.0	13.4	14.0	13.9	15.7	18.1	16.8	
35	20.6	19.8	18.7	17.9	16.2	13.8	12.9	12.9	13.4	13.6	15.6	17.7	16.1	
36	19.8	19.9	20.1	17.5	14.8	13.3	12.9	14.1	15.0	15.4	19.1	20.0	16.8	
37	19.9	20.8	19.7	19.7	16.2	14.3	13.6	13.3	13.6	15.6	17.6	17.4	16.8	
38	19.3	19.5	19.1	17.1	15.6	13.8	13.5	13.3	14.4	15.0	17.1	18.5	16.4	
39	19.3	20.3	19.4	18.3	16.1	14.3	13.0	13.0	14.1	14.9	17.5	19.1	16.6	
40	21.2	21.9	20.4	17.0	15.9	15.1	13.7	13.3	13.8	14.8	17.5	18.1	16.9	
41	20.2	20.4	18.1	16.6	15.5	15.1	13.9	13.7	12.7	14.4	16.7	19.8	16.4	
42	19.6	19.6	18.6	17.1	15.7	14.0	12.9	12.9	13.2	13.7	17.3	19.7	16.2	
43	18.6	19.0	19.0	16.3	14.8	14.6	12.2	12.4	13.3	13.9	17.0	18.2	15.8	
44	19.7	19.1	18.3	17.1	14.5	15.3	13.4	13.0	13.7	16.1	17.3	17.5	16.3	
45	19.1	20.8	19.3	18.9	16.5	14.3	12.8	13.0	12.9	14.8	17.3	17.6	16.4	
46	18.3	19.5	18.4	18.0	16.4	13.9	13.5	13.0	14.2	15.4	16.6	17.6	16.2	
47	19.0	20.0	19.6	17.3	15.2	14.4	13.4	12.6	13.4	14.2	15.5	17.5	16.0	
48	19.7	20.6	21.4	16.9	16.5	15.3	13.8	14.4	14.0	15.8	15.8	17.3	16.8	
49	21.0	21.1	19.7	18.8	15.6	15.3	14.7	14.0	14.0	14.3	17.1	19.0	17.1	
50	20.5	21.1	20.1	19.0	15.6	15.0	13.9	13.2	13.4	13.8	15.5	16.6	16.5	
51	18.5	20.0	19.0	16.7	14.3	13.3	12.6	11.2	13.9	14.9	16.1	17.6	15.7	
52	19.3	20.6	19.7	17.8	15.4	15.0	12.5	13.1	12.9	13.8	15.2	16.9	16.0	

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
53	19.4	19.1	19.7	17.9	15.8	13.5	13.4	12.3	13.9	14.0	15.5	15.7	15.8
54	20.6	20.7	19.0	16.2	14.9	14.0	13.4	13.0	14.2	15.4	15.3	17.9	16.2
55	20.1	21.8	20.2	16.7	14.7	12.7	12.9	12.4	12.9	13.5	15.6	17.9	15.9
56	21.8	20.5	19.8	16.3	14.1	12.6	12.2	12.0	13.4	13.8	17.0	17.6	15.9
57	20.1	20.4	18.6	16.9	15.6	14.4	12.1	13.4	13.1	14.9	17.0	18.3	16.2
58	20.9	20.3	19.9	17.4	16.2	14.6	12.7	12.7	13.0	14.1	17.6	19.8	16.6
59	20.0	21.0	20.2	17.3	16.3	15.4	14.3	14.6	13.6	15.3	15.9	16.9	16.7
60	18.0	19.1	17.1	15.4	14.5	13.5	11.9	12.3	13.0	14.9	16.0	18.8	15.4
61	21.0	22.6	20.9	16.1	17.2	14.6	12.8	12.7	14.1	14.6	17.0	18.6	16.9
62	22.8	21.2	18.3	18.9	17.2	15.2	13.6	13.7	13.6	13.5	16.9	19.1	17.0
63	20.3	20.6	20.6	17.8	15.8	13.6	12.7	13.3	14.0	15.7	17.1	19.8	16.8
64	19.6	20.0	19.5	16.5	15.5	14.9	13.2	12.7	13.3	13.0	15.6	18.0	16.0
65	21.3	19.9	19.6		15.3		12.9	12.9	13.8	15.1	16.2	20.3	
66	21.1	20.4	19.6	17.0	15.8	13.3	13.1	12.7	13.2	14.3	17.4	19.0	16.4
67	20.5	22.2	19.5	18.3	16.1	15.4	13.5	12.8	14.6	16.5	17.2	19.2	17.1
68	19.9	20.1	18.1	16.1	14.1	13.7	13.2	12.4	12.8	14.4	15.8		15.8*
69	19.5	19.9	19.8	17.0	15.5	14.9	13.7	13.1	12.4	16.8	17.0	19.1	16.6
70	19.9	22.1	20.1		15.8	14.1	14.2	13.2	13.6	14.4	15.9		
71	20.5	20.7	20.0			15.4	14.8	13.9	12.6	13.1	14.2	14.9	17.6
72	20.7	23.1				17.4	14.5	13.3	13.1	14.1	14.9	18.2	21.4
73	21.4	20.4	19.5			16.1	12.8	13.7	12.8	13.2	14.9	17.6	18.4
74	21.4	20.1	20.5	17.2	15.8	14.8	13.5	13.5	14.6	14.8	16.5	18.6	16.8
75	19.8	24.0	19.3	17.1	16.5	14.9	14.0	13.2	13.5	15.5	16.6	19.6	17.0
76	20.5	22.6	20.6	18.6	17.0	14.7	14.4	13.9	14.6	16.1	15.8	18.8	17.3
77	21.4	18.5	18.3	15.2	14.6	14.6	14.1	13.6	15.7	17.8	21.1		17.1*
78	22.5	21.5	22.6	19.4	16.6	14.2	13.3	13.9	13.5	15.6	18.6	20.8	17.7
79	20.2	20.8	20.4	17.6	14.8	15.1			13.8	15.7	17.7	20.1	
80	21.6	20.4	20.3	17.2	16.7			13.3	14.1	14.2	13.3	16.9	18.0
81	21.0	19.0	19.5	18.5	15.6	12.9	13.6	12.9	14.4	15.5	16.3	17.6	16.4
82	18.9	20.5	18.8	17.5	16.0	14.0	13.4	13.6	14.1	15.6	19.0	19.3	16.7
83	21.5												
MEAN	20.1	20.5	19.4	17.6	15.7	14.2	13.2	13.1	13.6	14.7	16.7	18.6	16.4

MEAN MONTHLY SURFACE TEMPERATURES

	CAPE LEEUWIN												(94518)
	J	F	M	A	M	J	J	A	S	O	N	D	
1	20.4	20.4	18.7	18.3	15.9	14.0	13.6	14.0	14.6	15.9	17.5	18.0	16.8
2	18.8	19.4	20.3	19.0	16.8	14.5	13.5	14.6	14.6	15.3	17.1	18.1	16.8
3	19.8	20.4	18.6	16.0	16.2	14.9	13.1	13.6	13.8	14.4	17.2	18.5	16.4
4	20.0	20.0	20.9	19.0	15.7	14.5	13.6	14.5	14.9	15.1	17.2	19.0	17.0
5	19.6	19.4	18.8	18.7	15.9	14.3	14.0	13.0	13.5	15.0	17.3	19.8	16.6
6	21.0	20.2	19.8	19.0	16.8	15.0	13.1	13.4	13.3	15.7	17.5	19.8	17.1
7	20.5	20.9	20.2	18.3	17.0	15.0	14.1	14.7	14.1	15.1	16.7	18.4	17.1
8	19.4	19.4	18.8	18.3	16.1	13.3	13.6	13.1	14.4	15.6	17.6	19.1	16.6
9	20.5	21.4	19.9	17.9	16.5	14.7	13.7	13.5	15.3	15.4	17.0	21.5	17.3
10	21.0	21.5	20.9	20.4	15.8	14.1	12.8	14.1	14.5	14.6	16.8	18.4	17.1
11	21.2	20.8	19.4	18.3	15.4	14.7	13.4	13.4	14.4	15.6	17.9	18.4	16.9
12	20.5	20.9	19.4	19.0	16.6	14.9	13.6	14.5	13.8	15.3	17.2	18.9	17.1
13	19.7	20.6	19.4	17.9	16.9	15.6	14.2	13.7	15.2	15.1	17.4	18.3	17.0
14	19.8	19.8	19.1	17.6	15.5	15.2	13.7	15.1	15.6	17.6	17.9	19.9	17.2
15	20.4	21.0	19.7	19.4	17.5	15.6	14.7	14.1	13.6	15.0	17.5	19.5	17.3
16	19.7	20.2	19.8	18.8	16.8	14.3	13.3	13.3	15.1	14.9	17.8	19.1	16.9
17	19.4	20.1	18.4	17.4	15.4	13.9	13.3	12.4	13.1	14.1	16.7	18.2	16.0
18	20.8	19.7	19.1	19.4	16.3	15.1	13.9	13.6	15.0	14.9	18.2	18.5	17.0
19	19.3	19.3	19.6	18.6	16.3	14.6	14.5	13.7	13.4	14.2	16.6	17.6	16.5
20	21.2	20.1	20.2	18.7	16.1	14.3	12.9	12.6	14.6	15.9	18.1	19.3	17.0
21	19.8	22.1	20.8	18.8	16.5	15.9	14.9	14.3	14.3	15.2	16.1	18.4	17.3
22	19.5	19.6	20.3	18.1	15.6	14.4	12.9	13.9	13.8	15.3	17.3	17.2	16.5
23	19.0	21.1	19.6	18.9	16.6	13.6	14.0	13.8	13.5	14.6	16.4	18.1	16.6
24	19.1	19.5	18.6	18.7	16.5	14.8	14.6	13.4	14.5	14.4	16.6	19.1	16.7
25	19.3	19.6	19.6	17.8	16.0	14.8	13.4	13.2	14.7	14.8	18.1	19.8	16.8
26	21.1	20.0	19.4	18.6	15.8	14.4	13.3	12.8	14.4	14.9	17.1	18.4	16.7
27	18.5	19.4	18.0	20.0	16.1	13.8	13.2	13.7	14.6	15.5	17.9	19.6	16.7
28	19.6	19.6	19.5	18.4	16.4	15.0	14.0	13.9	13.8	14.4	16.6	18.5	16.6
29	18.8	19.8	18.4	17.2	15.2	13.5	12.7	12.8	13.8	15.0	17.1	18.5	16.1
30	19.9	19.4	20.1	18.5	17.0	15.4	14.0	13.9	14.1	15.1	16.5	18.5	16.9
31	20.1	19.1	19.6	17.6	14.4	12.9	13.3	13.6	13.8	15.2	17.0	20.6	16.4
32	21.0	21.5	19.2	18.3	16.5	14.8	13.5	12.7	14.6	15.5	17.0	18.1	16.9
33	20.1	21.8	19.6	19.2	16.8	15.3	13.6	13.4	15.2	15.5	17.5	19.1	17.3
34	20.6	21.5	20.7	18.9	17.6	14.8	14.0	14.1	14.5	14.7	16.3	18.2	17.2
35	19.8	19.9	19.0	18.6	17.0	14.1	13.5	13.6	13.8	14.4	16.1	18.0	16.5
36	19.9	19.7	19.6	19.0	15.3	13.8	13.3	13.8	15.1	15.1	17.9	19.4	16.8
37	19.5	20.5	19.7	20.0	16.6	14.7	14.1	13.2	13.9	15.8	17.0	17.9	16.9
38	19.0	18.9	18.6	17.3	16.1	14.3	13.7	13.8	14.4	15.0	17.0	18.8	16.4
39	19.3	19.5	19.3	18.6	16.5	14.7	13.8	13.3	14.8	15.6	17.1	18.7	16.8
40	19.4	20.1	19.7	17.1	15.7	15.3	14.0	14.2	14.6	15.4	16.9	17.9	16.7
41	19.6	19.9	18.4	17.0	16.3	15.0	14.1	14.3	13.2	15.0	17.0	19.3	16.6
42	18.7	19.5	18.6	18.0	16.3	14.3	13.8	13.6	13.6	14.3	17.4	19.1	16.4
43	18.8	19.2	19.0	17.0	15.8	15.1	12.9	13.3	14.1	14.4	16.6	18.2	16.2
44	19.5	19.4	18.6	17.5	15.3	15.3	13.7	14.2	14.5	17.0	18.1	18.0	16.8
45	19.0	20.0	19.5	19.5	17.1	14.8	13.6	13.5	13.7	15.6	17.4	18.3	16.8
46	19.0	18.3	18.3	18.4	16.1	14.3	13.0	13.1	14.3	15.5	16.3	18.1	16.2
47	19.2	19.1	18.9	18.1	15.9	15.3	14.1	13.8	14.1	15.2	16.3	18.1	16.5
48	19.8	20.5	21.1	17.8	17.3	15.9	13.9	14.6	14.3	15.5	15.8	17.5	17.0
49	19.9	20.6	20.2	19.4	16.8	15.6	14.7	14.4	14.8	14.8	17.2	19.6	17.3

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
50	20.6	20.6	20.3	19.9	16.6	15.3	14.4	13.8	14.0	14.8	16.3	17.9	17.0
51	19.3	19.7	19.6	17.7	15.7	14.2	13.6	12.1	14.9	15.3	16.8	18.0	16.4
52	19.6	20.2	20.3	18.1	16.2	15.4	13.2	13.9	14.1	14.7	16.0	17.3	16.6
53	19.0	19.4	19.6	18.6	16.3	14.1	13.9	13.7	15.1	14.8	15.9	17.3	16.5
54	19.6	19.8	19.5	17.0	15.9	14.5	13.7	13.8	15.1	16.3	16.0	18.6	16.7
55	19.9	20.2	20.1	17.7	15.4	13.5	13.9	13.1	13.7	14.3	16.3	17.8	16.3
56	21.7	20.7	20.1	17.3	15.1	13.1	13.2	13.3	14.6	14.8	17.3	18.6	16.7
57	20.5	20.1	19.3	17.8	16.6	15.1	13.3	14.5	14.2	15.8	18.3	18.9	17.0
58	20.7	20.8	20.1	18.5	16.9	15.2	13.1	13.7	14.1	14.9	17.6	19.3	17.1
59	20.3	20.0	20.7	18.0	16.6	15.7	14.7	15.5	14.6	15.6	16.2	17.0	17.1
60	18.5	19.7	17.5	16.5	15.3	14.3	12.4	13.5	14.1	15.7	16.9	19.3	16.1
61	20.9	22.1	21.2	17.3	17.7	15.1	13.8	13.6	14.9	15.6	17.3	18.5	17.3
62	20.8	20.7	19.1	19.6	17.6	16.4	14.3	14.6	14.4	14.4	16.9	19.4	17.3
63	20.0	20.2	20.6	18.5	16.8	14.8	13.1	13.8	14.8	16.4	17.5	20.3	17.2
64	19.9	19.6	19.3	17.2	16.4	15.0	13.4	13.3	13.8	14.0	16.3	17.0	16.3
65	20.7	20.4	19.4	18.5	15.5		13.7	13.6	14.4	16.0	16.5	19.9	16.9*
66	20.8	19.8	19.7	17.6	16.5		13.2	13.6	13.6	15.1	17.6	19.0	16.8*
67	20.5	20.9	19.7	18.4	16.5	15.6	13.5	12.9	14.7	16.6	17.5	19.2	17.2
68	20.4	19.9	17.9	16.6	14.4	13.8	13.5	12.4	13.2	14.6	16.2	19.0	16.0
69	19.7		19.3	17.5	15.8	14.7	13.9	13.5	13.2	16.6	17.4	18.6	16.7*
70	20.2	20.7	20.6	17.5	16.0	13.9	14.4	13.3	14.2	14.9	16.2	18.2	16.7
71	19.9	20.0	19.0	17.5	15.8	14.9	13.9	12.8	12.9	14.1	15.0	17.5	16.1
72	20.2	21.7	19.5	17.5	17.0	14.6	13.3	13.1	14.4	15.4	17.5	20.8	17.1
73	21.1	19.9	19.1	17.6	16.0	13.1	14.0	13.2	13.6	15.1	16.8	18.1	16.5
74	20.1	19.6	19.9	17.9	16.0	15.1	13.8	13.9	15.3	15.2	16.6	18.8	16.9
75	19.5	21.9	19.2	17.6	17.2	15.1	13.9	13.5	13.9	15.7	17.1	19.4	17.0
76	20.0	21.0	20.4	18.9	17.4	15.2	14.5	14.5	14.8	16.2	16.2	18.6	17.3
77	19.9	20.7	18.5	18.5	15.9	14.7	14.6	13.8	14.0	15.3	17.6	19.9	17.0
78	20.7	20.7	21.4	19.4	15.9	14.1		14.2	13.7	15.5	18.0	20.0	17.3*
79	20.3	20.1	19.6	18.2	15.6	15.2			13.9	15.9	17.5	19.6	
80	20.5	20.1	20.5	17.8	17.0	14.0	13.8	14.4	14.7	13.8	17.2	18.4	16.9
81	20.4	19.0	19.3	18.9	16.0	13.1	14.0	13.2	14.7	15.7	16.6	18.0	16.6
82	19.0	20.0	19.1	17.9	16.6	14.2	13.7	14.6	14.8	16.3	18.8	19.5	17.0
83	21.3		21.4										
MEAN	20.0	20.2	19.6	18.2	16.3	14.6	13.7	13.7	14.3	15.2	17.0	18.7	16.8

MEAN MONTHLY SURFACE TEMPERATURES

MAATSUYKER ISLAND			43°40'S			146°16'E			(94041)					
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN	
36	14.1	14.8	13.6	11.2	10.9	08.7	09.0	08.2	07.9	09.9	9.9	13.6	11.0	
37	12.5	13.9	13.3	10.6	09.8	08.3	08.8	09.9	09.9	11.5	11.9	12.8	11.1	
38	13.9	14.8	13.8	12.7	11.4	08.9	08.7			10.4	11.8	11.3		
39	12.7	13.5	13.3	13.1	12.3	09.8	08.8	08.4	08.9	10.6	12.1	11.8	11.3	
40	13.1	11.7	13.7	11.1	09.9	09.5	08.4	09.9	10.2	10.7	10.9	13.1	11.0	
41	12.8	13.5	12.3	12.2	10.4	09.4	08.6	08.6	09.4	09.3	10.8	12.1	10.8	
42	13.2	13.8	14.2	12.0	09.8	09.9	08.2	09.1	10.1	12.1	12.4	13.0	11.5	
43	13.9	13.4			09.2	07.8	08.0	07.8	10.3			12.1		
44	14.4	13.1	13.5	10.3	10.6	08.4	08.9	08.3	09.2	09.9	10.7	13.0	10.9	
45	13.9	13.3	11.3	10.7	10.1	09.7	08.3	09.0	09.4	09.9	12.1	12.9	10.9	
46	13.3	13.2	14.0	11.0	10.3	08.4	08.5	07.6	08.1	09.6	10.3	12.2	10.5	
47	13.8	15.2	14.9	12.4	12.3	09.2	08.7	08.3	09.5	10.1	11.1	13.5	11.6	
48	13.9	14.5	11.5	10.9	09.3	09.3	08.1	09.6	10.0	09.4	10.9	11.8	10.8	
49	12.5	10.7	12.6	10.3	09.8	08.4	09.4	08.9	09.1	09.9	11.9	11.2	10.4	
50	12.8	12.8	12.5	11.6	09.8	09.5	10.0	09.4	11.2	11.7	12.1	14.1	11.5	
51	16.6	14.9	14.0	10.4	10.6	09.7	08.6	08.0	10.1	10.5	10.7	12.2	11.4	
52	12.7	12.5	13.4	11.0	10.1	08.6	08.9	08.9	09.6	10.4	11.3	13.4	10.9	
53	14.9	14.6	14.7	11.2	10.6	08.1	07.9	07.8	08.7	10.4	10.8	11.3	10.9	
54	13.9	12.7	11.9	11.9	10.2	08.9	08.5	08.6	09.7	09.6	11.0	14.0	10.9	
55	13.2	14.1	12.7	12.3	09.7	08.9	08.6	09.1	09.4	10.6	10.2	14.1	11.1	
56	14.2	16.4	15.2	13.1	11.4	09.6	08.2	08.4	10.3	10.2	10.1	11.4	11.5	
57	12.3	14.2	13.3	11.9	09.8	10.0	09.1		09.3			12.3		
58	12.4	13.9	12.0	11.6		08.9	08.2	08.1	09.3		12.2	12.1		
59	15.5	13.9	13.5	13.1	10.0		08.8	08.2	08.6	10.3	12.6	14.1	11.5*	
60	15.6	13.2	14.4		09.8	08.9	08.7	08.4	09.5	10.7	10.6	14.6	11.4*	
61	15.9	14.9	13.9	13.4	10.7	09.8	08.9	10.1	10.4	11.8	12.5	13.3	12.1	
62	14.8	14.2	14.0	12.1	10.4	10.0	08.9	08.5	09.2	09.1	11.5	12.8	11.3	
63	15.1	13.3	13.4	10.9	08.7	09.4	08.4	08.9	09.6	11.9	11.4	13.0	11.2	
64	12.3	13.4	12.3	12.5	10.6	09.9	08.1	08.7	10.1	11.0	11.4	10.9	10.9	
65		13.4	12.7	10.4	09.6	09.4	08.1	09.1	09.6	10.4	10.3	13.4	10.9*	
66	14.0	14.3	14.3	11.6	10.4	08.6	08.1	08.6	10.2	10.5	12.4	12.7	11.3	
67	13.4	14.4	13.2	11.8	10.8	10.3	09.5	09.4	09.4		10.5	11.5	11.2*	
68	13.1	14.0	14.1	12.4	09.5	08.6	08.3	08.3	08.9	08.9		12.4	10.8*	
69		15.0	13.7	11.4	10.3	08.7	09.1	09.0	07.8	09.8	11.6	10.3	10.9*	
70	14.1	13.4	13.4	12.6	10.1	09.9	08.1	07.8	07.5	09.6	11.9	12.1	10.9	
71	15.1	16.4	15.1	13.4	11.1	09.3	09.1	08.1	08.8	10.1	10.9	13.7	11.8	
72	14.1	17.1	13.7	12.7	11.1	09.7	08.1	09.5	10.4	10.5	11.6	12.1	11.7	
73	14.3	15.0	12.7	12.9	10.9	08.6	09.6	09.2	10.3	11.6	11.4	14.8	11.8	
74		15.4	15.7	13.2	11.6	10.5	08.8	08.9	09.1	11.4	11.3	12.7	11.9*	
75	13.1	14.4	13.1	11.8	10.4	09.3	09.6	08.6		10.4	12.4			
76	14.6	14.9	14.2	12.9	10.6	09.0	08.5	07.8	09.3	09.4	12.1	13.2	11.4	
77	14.4	15.2	14.7	11.6	10.7	09.0	08.9	09.8		10.5	10.6	11.8	11.4*	
78	13.3	13.3	12.8	11.4	11.5	09.1	08.2	08.0	10.3	10.8	11.9	12.5	11.1	
79	14.5	14.3	14.1	11.9	10.1	10.9	09.1	08.1	09.3		11.8	12.2	11.4*	
80	12.6	13.1	12.1	13.2	12.7	10.3	09.3	10.2	09.9	11.6	11.5	13.9	11.7	
81	15.6	15.8	14.3	12.9	11.5	10.0	08.8	09.2	10.5	11.3	11.6	12.9	12.0	
82	14.1	14.8	13.7	12.3	10.6	09.1	08.4	09.8	08.9	09.6	11.0	11.9	11.2	
83		12.5												
MEAN	13.8	14.1	13.5	11.9	10.5	09.3	08.7	08.8	09.5	10.4	11.4	12.7	11.2	

MEAN MONTHLY SURFACE TEMPERATURES

MACQUARIE ISLAND 1950-1969 1970-1979 (94998)

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
48				04.8	04.4	03.9	02.8	03.2	03.1	03.8	04.7	06.1	
49	06.2	05.9	05.1	03.8	04.3	03.2	01.8	02.2	02.6	03.9	04.3	05.7	04.1
50	07.3	05.4	05.0	04.3	04.0	02.1	03.5	01.9	03.8	04.3	04.5	05.2	04.3
51	06.3	06.4	06.4	05.4	04.2	02.8	03.3	02.9	03.1	02.9	04.7	06.4	04.6
52	06.2	06.4	05.2	04.4	02.8	02.8	04.3	04.1	04.4	03.1	04.2	06.9	04.6
53	07.6	06.5	06.2	05.0	03.9	02.6	03.6	03.2	02.3	04.3	04.2	05.5	04.6
54	06.1	06.4	06.4	05.1	04.6	02.1	00.8	02.1	02.2	02.9	04.4	06.1	04.1
55	06.9	06.5	05.4	04.8	04.3	02.5	03.8	03.2	02.9	04.5	04.5	06.0	04.6
56	07.2	06.4	06.0	05.9	05.1	04.5	02.9	03.3	03.5	04.1	04.8	07.1	05.1
57	07.8	07.4	06.6	05.6	03.5	02.5	02.9	03.9	04.4	03.3	04.8	05.6	04.9
58	06.6	07.5	06.3	05.1	04.3	03.3	02.3	02.8	02.9	03.8	04.8	05.3	04.6
59	06.6	05.9	04.8	05.1	02.6	02.9	02.6	03.3	03.3	03.6	03.9	05.8	04.2
60	06.3	06.7	06.4	05.6	04.3	03.7	03.6	03.5	03.4	04.7	04.8	05.6	04.9
61	06.2	05.3	05.2	04.9	03.9	02.7	01.9	03.9	02.9	04.1	04.8	06.2	04.3
62	06.3	07.2	06.5	05.3	04.6	03.9	03.4	03.1	03.5	04.2	05.0	05.9	04.9
63	06.6	06.8	05.4	01.8	02.2	03.1	02.8	02.1	03.6	03.7	03.3	04.5	03.8
64	06.5	06.6	05.8	04.5	03.6	02.7	03.4	02.0	03.5	03.9	04.3	06.5	04.4
65	07.2	06.8	06.8	05.1	04.1	04.0	03.2	03.3	03.9	03.2	03.9	04.7	04.7
66	05.7	06.7	06.2	05.1	04.5	02.9	02.8	03.3	03.1	03.0	04.2	05.3	04.4
67	07.0	06.4	06.2	04.4	03.6	04.3	03.4	03.8	03.6	03.9	03.7	05.6	04.7
68	06.8	06.5	06.3	05.8	05.3	04.1	03.0	03.9	03.1	03.1	04.8	06.3	04.9
69													
70													
71													
72	06.9	06.8	06.8	04.8	03.9	02.2	02.6	03.4	02.6	03.0	04.0	05.6	04.4
73	06.1	06.3	05.9	05.0		03.5	05.0	03.8	03.9	03.5	04.0	06.1	04.8*
74	07.2	07.2	06.4	05.6		02.8		02.5	04.1	03.7	05.5	07.9	
75	09.1	07.7	07.7	05.6	03.4	03.5	02.6	02.7	03.3	03.4	04.9	05.4	04.9
76	06.4	06.8	06.6	05.1	04.4	02.5	02.3	03.2	03.7	04.0	04.9	07.3	04.8
77	07.7	08.7	07.3	05.0	04.4	03.3	03.8	04.5	03.5	03.2	04.5	06.1	05.2
78	07.1	07.3	05.9	05.6	05.3	03.1	04.7	03.9	04.5	04.3	04.4	06.2	05.2
79	06.8	06.2	06.1	05.7	04.5	04.9	04.7	03.3	03.1	04.7	04.9	06.1	05.1
80	07.8	07.9	07.4	06.5	05.1	03.7	03.9	04.1	04.6	04.3	04.4	06.4	05.5
81	06.8	06.5	07.2	06.3	05.1	03.6	03.6	03.7	03.7	04.5	05.2	06.8	05.3
82	06.7	06.7	07.1	06.1	05.0	04.3	03.1	02.9	03.7	03.3	03.1	04.6	04.7
83	06.4	06.5	04.3	04.3	03.3	03.1	03.3	03.5	03.2	04.0	05.2	05.5	04.4
84	07.3	07.7	08.1	05.2	04.9	04.2	03.6						
MEAN	06.8	06.7	06.2	05.1	04.2	03.3	03.2	03.2	03.4	03.8	04.5	05.9	04.7

MEAN MONTHLY SURFACE TEMPERATURES

CAMPBELL ISLAND				52 33S			169 09E			(93944)			
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
41							04.7	04.3	05.7	05.8	06.6	08.1	
42	09.0	09.4	08.1	07.0	05.6	06.6	04.6	04.5	06.3	06.4	06.6	07.7	06.8
43	09.3	09.4	08.0	08.2	06.1	05.1	05.4	04.6	05.7	06.7	07.7	08.4	07.0
44	09.3	09.3	09.8	08.0	06.4	03.6	05.1	04.3	04.9	05.6	06.8	09.0	06.8
45	10.6	11.5	08.9	06.6	05.7	04.4	04.4	04.9	05.2	05.2	07.1	07.9	06.9
46	08.9	09.2	09.1	06.7	06.4	04.8	04.4	04.6	04.9	05.8	05.9	07.3	06.5
47	08.7	09.4	09.4	06.9	06.0	04.1	04.4	04.9	04.7	05.6	07.6	08.6	06.7
48	09.2	08.7	08.6	06.8	06.5	04.8	04.6	05.1	05.8	06.6	07.2	08.6	06.9
49	08.8	09.0	07.6	06.9	06.9	04.0	03.9	04.2	05.0	06.3	07.3	08.9	06.6
50	10.3	08.2	07.1	06.2	06.2	03.0	04.6	03.9	05.4	06.6	07.0	07.6	06.3
51	09.2	09.1	09.0	08.3	06.6	04.9	05.3	05.1	04.9	05.6	08.0	08.3	07.0
52	08.6	09.3	07.3	07.4	04.6	04.0	04.9	05.6	06.6	05.9	06.9	09.5	06.7
53	10.0	08.8	08.0	06.0	05.4	04.6	04.8	05.3	04.8	05.8	06.8	08.6	06.6
54	08.4	09.3	09.9	07.1	06.9	04.4	02.6	04.7	05.1	05.7	07.3	08.2	06.6
55	09.4	08.7	07.9	06.6	06.5	03.4	04.8	04.7	05.3	07.2	07.8	09.6	06.8
56	10.6	08.2	07.6	07.7	05.9	05.5	03.9	05.0	05.6	06.6	07.4	10.0	07.0
57	10.7	10.4	10.2	08.7	06.0	04.4	04.7	05.2	06.1	06.1	07.2	08.3	07.3
58	09.0	09.4	08.4	06.2	05.8	04.9	04.1	05.2	06.0	07.2	07.8	08.7	06.9
59	08.9	08.9	08.3	07.8	05.1	05.1	04.0	05.4	05.6	05.8	06.7	08.4	06.7
60	08.6	09.7	08.6	07.9	06.7	05.4	05.0	05.1	05.7	07.2	07.9	07.9	07.1
61	08.8	08.1	07.5	06.9	05.8	04.8	03.9	05.4	04.9	07.0	07.1	09.3	06.6
62	09.1	09.6	09.2	07.0	06.9	06.0	05.3	05.1	06.0	06.8	08.0	09.5	07.4
63	09.4	10.0	08.2	07.0	05.3	04.6	04.3	03.9	05.3	05.9	05.6	07.0	06.4
64	08.8	09.1	07.9	06.7	05.6	04.8	04.9	03.9	05.6	06.4	06.7	09.4	06.7
65	10.3	08.4	09.4	06.8	05.7	05.0	04.4	04.7	05.7	04.9	06.7	07.3	06.6
66	08.2	09.1	08.4	07.3	05.9	04.7	04.4	05.5	05.7	05.7	07.2	07.8	06.7
67	09.7	08.3	08.9	06.2	04.8	05.3	04.6	05.5	05.0	06.8	06.1	08.4	06.6
68	08.9	09.2	08.8	08.4	07.4	05.4	05.1	06.3	05.2	06.0	07.5	09.3	07.3
69	10.3	09.2	07.5	06.6	05.7	04.1	05.6	05.7	06.4	04.9	07.8	09.5	06.9
70	08.4	09.2	08.6	06.7	06.1	05.7	05.4	05.9	04.3	06.1	07.7	11.9	07.2
71	09.5	09.7	09.1	08.0	07.1	04.9	05.9	05.8	04.8	06.5	07.5	09.1	07.3
72	09.4	09.3	08.7	06.3	04.8	03.0	04.1	04.2	05.1	05.3	06.6	07.9	06.2
73	09.1	09.0	09.2	07.0	04.7	05.5	05.7	05.1	06.1	05.6	06.2	08.5	06.8
74	09.2	09.7	08.4	07.8	05.9	04.3	03.8	04.9	06.5	06.0	07.9	10.2	07.0
75	11.0	10.0	09.8	08.2	05.9	04.8	05.1	04.6	05.6	06.0	06.7	07.1	07.1
76	08.5	08.1	08.5	07.5	05.9	04.0	04.1	04.4	05.8	05.7	06.9	09.8	06.6
77	09.4	09.6	08.7	07.1	05.2	04.2	04.4	06.1	05.6	05.8	07.6	09.4	06.9
78	09.8	09.9	08.5	08.4	07.2	04.6	05.9	06.5	06.5	06.9	07.2	08.7	07.5
79	08.8	08.7	08.6	08.4	06.2	06.7	06.4	05.4	05.7	06.8	09.2	09.2	07.5
80	09.5	10.3	09.6	08.2	06.4	05.5	04.9	05.7	06.4	06.8	06.0	08.1	07.3
81	08.9	08.8	09.3	08.4	06.8	06.1	05.7	05.0	05.2	06.7	07.4	09.5	07.3
82	09.0	09.5	09.5	08.1	07.3	05.9	05.2	05.3	06.0	05.9	05.9	07.6	07.1
83		08.9	07.2	07.0	05.4	05.3	05.7	06.2	05.0		08.0	08.4	
MEAN	09.3	09.2	08.6	07.3	06.0	04.8	04.8	05.1	05.5	06.1	07.1	08.7	06.9

MEAN MONTHLY SURFACE TEMPERATURES

RAOUL	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
40			21.8	19.2	17.7	15.6	15.1	15.4	15.9	17.2	17.7	19.8	
41	21.8	22.3	21.8	20.6	18.4	16.8	15.6	15.4	15.9	16.4	18.7	20.4	18.7
42	19.8	21.4	22.0	21.3	19.6	17.2	17.1	16.4	16.8	17.7	19.0	21.2	19.1
43	21.6	22.7	21.9	20.8	19.2		15.7	15.6	16.6	17.8	19.3	20.9	19.1*
44	21.6	22.6	21.9	20.7	18.3	16.7	15.8	15.6	15.7	17.6	18.3	20.3	18.8
45	23.2	23.1	22.8	20.8	18.2	15.8	15.4	16.2	16.1	16.4	18.4	20.6	18.9
46	21.4	22.3	21.3	21.1	19.4	17.8	16.4	16.1	16.4	17.3	17.7	19.9	18.9
47	21.6	21.8	20.7	21.1	18.6	16.9	16.6	15.9	16.6	18.1	18.1	20.4	18.9
48	21.6	21.9	21.8	21.7	19.0	17.0	15.8	16.2	16.9	18.1	19.3	20.1	19.1
49	21.6	22.9	21.9	19.7	17.9	17.7	16.3	16.2	16.6	17.7	19.8	20.7	19.1
50	21.3	22.1	20.8	20.2	19.0	18.3	16.0	16.0	15.9	17.6	19.2	21.0	19.0
51	21.6	22.4	21.9	20.2	17.4	16.5	15.3	15.9	15.3	17.1	18.9	19.9	18.5
52	21.9	23.0	21.8	20.1	18.9	18.0	16.1	16.8	16.1	17.9	19.2	20.2	19.2
53	20.7	21.3	21.3	20.7	19.2	17.7	16.1	15.4	16.1	17.6	19.6	21.8	19.0
54	22.1	22.1	22.1	20.9	19.4	17.3	16.7	15.9	15.7	16.4	18.3	20.2	18.9
55	21.3	22.4	22.8	21.2	20.0	17.9	16.1	16.9	17.4	18.1	19.1	20.7	19.5
56	21.3	22.9	21.8	21.8	20.0	17.9	16.4	16.2	16.4	18.0	19.5	21.1	19.4
57	22.1	22.4	21.4	20.3	18.7	16.6	15.5	16.0	16.5	17.1	18.4	20.4	18.8
58	21.4	22.5	22.3	19.8	19.1	17.6	16.8	16.6	16.0	18.5	18.4	20.8	19.1
59	22.8	22.0	21.6	20.9	18.2	16.3	16.3	15.9	16.6	18.3	18.8	20.6	19.0
60	20.9	23.2	21.8	20.2	18.9	17.6	16.2	16.1	16.5	17.5	19.1	20.1	19.0
61	21.0	22.2	21.4	20.8	18.4	17.7	16.6	15.6	16.3	16.9	18.4	20.2	18.8
62	21.4	22.4	21.8	20.9	20.2	17.7	16.4	16.4	16.2	19.1	19.1	20.2	19.3
63	21.3	22.4	21.6	20.3	18.6	17.6	17.4	15.2	16.3	16.2	18.6	20.2	18.8
64	21.7	21.6	21.8	20.4	18.7	18.5	16.9	16.3	16.0	17.1	18.3	20.7	19.0
65	21.6	21.9	21.1	19.6	17.5	16.4	15.7	15.2	15.6	16.3	18.4	19.9	18.3
66	22.4	22.6	22.8	20.8	18.6	16.7	16.0	15.1	16.3	16.6	17.6	19.9	18.8
67	21.5	23.8	23.1	20.6	18.6	16.8	16.2	17.7	16.8	17.9	19.5	21.4	19.5
68	22.1	22.4	22.9	21.0	18.7	18.7	16.3	16.4	15.7	17.6	18.5	19.4	19.1
69	21.0	22.0	21.5	19.5	18.1	17.2	14.7	14.9	16.6	16.4	18.1	20.7	18.4
70	22.5	22.4	22.5	21.4	19.3	17.6	16.5	16.2	17.0	17.7	19.0	20.4	19.4
71	22.4	21.9	22.0	20.7	19.0	18.8	16.1	17.2	17.2	18.2	19.1	20.2	19.4
72	20.4	20.7	22.2	20.3	18.4	16.2	16.0	15.2	16.2	17.3	19.3	19.9	18.5
73	21.4	22.3	21.1	19.4	18.2	18.7	16.2	16.3	17.3	18.0	19.9	21.4	19.2
74	22.0	24.1	21.8	20.9	19.1	17.7	17.3	16.6	17.3	18.4	20.2	21.4	19.7
75	22.0	22.1	22.6	20.9	19.3	17.7	16.9	17.2	17.2	18.5	18.9	21.3	19.6
76	23.3	22.9	22.5	20.7	18.0	16.3	15.7	17.2	16.3	17.5	18.1	19.5	19.0
77	21.5	22.4	21.8	20.4	18.2	17.1	16.1	15.7	15.6	16.8	19.2	21.4	18.9
78	21.8	22.0	21.5	20.3	19.1	18.1	16.4	16.1	15.5	16.3	18.3	20.7	18.8
79	21.6	22.2	23.3	20.0	18.7	17.9	15.9	16.2	16.4	17.5	18.5	20.3	19.0
80	22.2	23.0	21.3	20.5	17.9	16.8	16.0	15.2	16.5	17.7	18.4	19.6	18.8
81	22.8	23.3	23.2	21.1	19.0	18.0	16.1	16.5	16.1	16.8	18.2	21.9	19.4
82	22.4	23.4	21.1	19.5	18.7	16.8	15.8	14.8	16.2	17.6	19.2	20.6	18.8
83	21.0	21.3	21.5	20.5	18.0	17.3	15.3	15.3	16.1	17.1	18.6	19.9	18.5
MEAN	21.7	22.4	21.9	20.5	18.7	17.3	16.1	16.0	16.3	17.5	18.8	20.5	19.0

MEAN MONTHLY SURFACE TEMPERATURES

	CHATHAM ISLAND			45 58S			189 29E			(93986)			
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
1	14.8	14.7	13.2	12.4	09.8	08.8	06.8	06.7	09.1	10.8	10.5	13.3	10.9
2	15.5	15.3	15.3	12.0	10.1	09.0	06.8	08.1	07.9	08.9	09.8	11.0	10.8
3	12.9	13.3	12.2	11.8	11.1	07.5	08.2	07.3	07.8	10.7	12.5	14.3	10.8
4	13.4	14.1	14.8	11.2	08.4	08.7	07.1	07.8	09.9	11.0	11.0	13.2	10.9
5	12.7	14.7	13.9	11.9	10.0	07.2	07.1	08.7	10.0	10.7	12.7	13.2	11.1
6	13.9	14.9	11.7	10.9	10.0	09.1	08.4	08.3	08.9	10.3	11.7	14.1	11.0
7	14.9	15.4	14.2	14.1	10.0	08.1	07.8	07.7	08.8	09.3	11.1	13.8	11.3
8	14.2	14.1	13.8	12.0	10.6		07.6	07.1	08.9	10.8	10.9	12.7	10.9*
9	13.8	14.9	14.9	12.6	11.3	06.8	07.7	09.2	08.4	11.2	12.3	15.1	11.5
10	14.2	16.1	14.4	12.3	10.8		06.8	08.2	08.9	10.6	11.6	13.7	11.3*
11	14.8	13.6	14.3	14.4	10.9	09.2	08.1	08.1	09.3	10.4	11.2	10.5	11.2
12	14.3	12.9	13.1	11.8	09.4	08.5	08.7	07.2	10.1	10.4	11.7	13.4	11.0
13	16.0	13.6	13.2	10.8	08.7	07.3	07.1	08.5	08.9	10.8	12.5	13.1	10.9
14	15.2	15.2	14.4	13.1	10.9	08.3	07.1	07.3	08.7	09.8	10.7	11.5	11.0
15													
16													
17													
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28													
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30													
31													
32													
33													
34													
35													
36													
37													
38													
39	12.6	13.0	12.3	11.7	09.3	08.6	06.2	07.2	08.3	10.1	10.6	13.7	10.3
40	15.3	13.6	12.8	10.6	10.3	07.3	06.5	08.3	08.9	09.2	10.8	12.7	10.5
41	15.8	14.7	15.2	10.3	10.6	07.2	07.7	07.4	08.6	08.9	11.0	12.2	10.8
42	13.9	15.1	12.3	12.6	11.3	08.3	08.0	07.7	09.2	09.8	11.3	12.7	11.0
43	13.9	14.9	13.1	12.7	09.3	09.2	08.6	07.5	10.4	10.3	12.4	14.2	11.4
44	14.2	16.3	15.4	13.3	10.4	08.6	08.2	08.3	08.4	10.5	11.4	12.8	11.5
45	15.3	16.3	14.9	11.9	10.4	07.6	07.2	08.6	08.7	09.1	10.7	11.4	11.0
46	12.9	14.2	13.2	11.4	11.1	08.7	07.8	08.1	09.7	09.9	09.6	12.1	10.7
47	12.1	14.0	13.3	11.4	10.2	08.2	07.7	07.8	09.3	10.7	11.1	12.9	10.7
48	14.9	13.7	14.3	11.9	10.3	08.2	08.1	07.9	08.9	09.3	10.8	12.1	10.9
49	12.3	14.3	12.6	11.4	09.8	07.8	07.9	08.3	09.0	10.8	11.8	13.9	10.8

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
50	15.5	15.1	13.2	11.4	10.9	07.2	06.9	07.3	08.7	10.3	11.9	12.6	10.9
51	13.7	15.0	14.8	13.4	10.1	07.4	08.1	07.7	08.7	09.7	11.6	12.8	11.1
52	13.7	16.1	13.2	11.6	09.8	08.2	07.0	08.4	09.8	10.4	12.3	13.8	11.2
53	14.7	14.2	13.6	11.8	10.4	09.3	07.7	08.0	08.8	09.1	12.7	13.5	11.2
54	13.5	14.2	15.8	12.7	11.0	09.0	07.5	08.3	08.8	10.4	12.1	12.4	11.3
55	14.3	15.8	14.6	12.8	10.7	07.4	07.5	08.9	09.3	10.6	12.0	12.2	11.3
56	15.6	14.0	12.1	14.0	10.3	08.8	08.3	08.0	09.1	10.8	13.2	13.9	11.5
57	15.9	16.4	15.7	13.4	11.7	08.7	07.5	08.1	09.4	10.1	11.9	12.8	11.8
58	13.7	15.7	14.6	10.3	10.1	07.8	06.9	08.1	08.2	12.0	12.3	15.0	11.2
59	14.7	15.3	14.2	12.4	10.2	08.0	07.1	07.6	09.4	09.6	11.0	12.9	11.0
60	13.4	15.1	13.9	11.9	10.5	09.9	08.4	08.2	08.9	11.1	11.9	13.4	11.4
61	13.6	14.6	13.2	12.0	10.1	09.2	08.1	07.7	08.6	10.8	11.7	13.9	11.1
62	15.5	15.1	14.8	13.3	12.2	10.2	08.9	08.8	09.3	12.3	12.0	13.7	12.2
63	14.4	15.7	13.9	12.0	10.7	09.0	07.8	06.9	09.4	09.4	10.7	12.6	11.0
64	14.0	14.3	14.3	11.9	10.1	08.4	09.2	08.3	09.6	10.2	11.2	14.3	11.3
65	16.4	14.2	14.9	12.1	09.7	08.5	07.2	08.1	08.7	09.1	11.6	13.1	11.1
66	14.3	15.5	12.9	12.0	10.2	08.3	07.6	08.1	08.1	09.7	11.1	13.8	11.0
67	14.4	14.9	14.2	12.9	09.8	07.7	06.7	09.1	07.9	10.1	11.3	13.6	11.1
68	14.7	14.0	14.9	14.3	12.0	09.8	08.1	09.0	09.1	10.1	10.9	12.6	11.6
69	15.2	13.8	14.0	11.3	09.2	08.2	07.1	08.4	10.7	09.5	10.8	15.2	11.1
70	15.5	15.4	15.6	12.7	10.1	09.4	09.1	09.0	09.8	09.2	11.1	11.9	11.6
71	13.3	14.8	13.6	12.0	10.9	09.4	07.5	08.9	09.6	10.2	12.3	12.8	11.3
72	13.8	13.0	13.2	11.4	09.6	06.6	07.8	06.4	09.0	10.3	12.2	12.0	10.4
73	13.6	14.0	13.7	11.9	09.9	09.7	06.5	09.1	10.0	10.4	11.9	13.2	11.2
74	14.1	15.9	12.9	13.7	09.9	08.4	09.0	08.8	10.3	10.8	11.4	15.2	11.7
75	15.8	15.6	15.1	13.5	10.8	08.2	07.8	08.6	08.9	10.0	09.9	11.7	11.3
76	13.4	12.9	12.9	12.0	09.4	08.1	08.1	08.2	08.3	09.3	10.6	13.9	10.6
77	14.1	15.2	14.0	13.3	10.0	08.6	08.0	08.7	08.7	10.1	11.2	13.7	11.3
78	14.3	15.3	14.2	13.2	11.2	09.0	08.5	09.1	09.2	09.8	11.3	14.7	11.7
79	15.2	15.5	15.3	12.5	10.0	08.8	08.4	08.9	10.0	10.4	12.5	14.9	11.9
80	15.6	16.0	13.3	11.9	09.8	08.0	07.3	08.3	09.7	10.2	10.4	13.8	11.2
81	15.6	14.6	15.4	13.5	10.0	09.6	09.2	07.8	08.8	10.2	11.8	14.3	11.7
82	14.6	15.1	14.2	11.8	10.6	08.0	07.1	08.4	08.9	09.3	12.5	12.5	11.1
83	13.3	12.2	13.3	11.9	09.9	08.4	08.4	08.4	09.0	10.9	12.0	13.7	11.0
MEAN	14.4	14.7	13.9	12.3	10.3	08.4	07.7	08.1	09.1	10.2	11.5	13.2	11.1

MEAN MONTHLY SURFACE TEMPERATURES

RAROTONGA	21 12S			200 14E			(191960)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
6									22.6	22.8	25.3	24.2	
7	25.4	26.0	25.5	24.4	23.3	21.7	21.5	20.8	22.0	23.1	22.8	23.4	23.3
8	25.4	25.6	25.4	25.4	22.9	21.9	21.7	23.6	22.1	23.8	23.2	25.1	23.8
9	25.7	25.8	25.5	24.5	22.8	22.9	21.6	22.1	21.7	23.5	24.7	25.1	23.8
10	25.3	25.6	25.4	25.1	22.9	21.4	22.7	21.4	23.4	23.1	23.1	25.7	23.8
11	26.0	25.9	25.7	24.1	23.3	22.1	21.3	21.7	21.2	22.2	23.9	26.2	23.6
12	26.2	26.2	25.3	24.1	23.1	21.4	21.2	21.9	22.7	22.8	23.6	24.2	23.6
13	25.2	25.6	26.1	24.6	22.9	21.8	20.8	20.9	21.1	21.8	24.1	24.8	23.3
14	24.4	26.2	26.1	25.0	23.1	21.9	19.6	20.1	21.2	21.9	23.8	25.4	23.2
15	26.0	26.5	26.5	23.9	22.2	22.3	20.1	20.9	22.2	22.2	22.9	24.8	23.4
16	25.2	25.2	24.8	23.8	22.6	21.8	23.0	22.6	23.3	23.6	24.2	23.8*	
17	26.0	25.6	25.0	24.7	23.6	22.6	23.2	21.7	21.1	22.1	24.2	25.5	23.8
18	24.9	23.1	23.9	23.8	22.4	20.3	19.9	21.9	20.8	22.0	22.4	24.1	22.5
19	25.3	26.0	26.1	25.6	22.8	20.8	19.8	21.1		24.1	24.2		
20		24.1	22.0	21.9	20.3	21.1	21.7	21.8	22.3	22.3	23.2	25.2	22.6*
21	26.1	26.6	26.8	23.5	21.2	21.2	22.2	21.7	22.9	23.6	25.0	25.4	23.9
22	25.8	26.2	25.9	25.6	23.6	22.8	21.5	22.1	22.6	23.2	24.0	25.4	24.1
23	26.3	26.8	25.8	24.7	23.5	21.9	21.7	21.0	21.1	22.5	22.2	23.8	23.4
24	26.0	26.2	25.3	23.8	23.8	22.1	22.3	22.5	23.3	23.4	24.8	25.6	24.1
25	25.6	25.0	25.9	25.6	23.0	21.9	21.2	22.1	22.0	22.1	22.9	24.3	23.5
26	24.7	26.1	25.1	23.7	23.7	21.6	21.3	21.4	22.4	23.0	24.6	25.4	23.6
27	26.3	26.0	26.6	25.7	24.9	23.6	22.0	21.9	22.2	23.8	23.9	24.9	24.3
28	25.8	24.9	25.9	24.6	23.1	20.9	20.8	21.9	22.6	23.2	24.6	25.7	23.7
29	25.7	26.8	25.9	25.1	23.9	21.6	20.9	20.7	21.2	23.1	23.2	24.4	23.5
30	25.8	25.8	25.9	24.5	23.1	20.7	20.9	20.0	21.5	22.7	24.2	25.8	23.4
31	25.0	25.6	25.2	24.4	23.7	21.9	21.1	21.1		22.3	22.2	23.8	23.2*
32	25.5	26.1	25.3	24.2	22.5	21.9	22.4	21.3	21.3	22.3	23.0	25.1	23.4
33	25.2	25.3	24.7	24.6	24.1	22.4	20.9	21.0	22.2	23.4	23.8	24.6	23.5
34							21.8	20.9	21.6	23.1	24.0	24.3	
35	25.5	26.2	24.8	24.3			22.7	21.7	22.7	24.1	25.5	24.3	
36	26.2	26.3	26.3	24.6	23.9	22.2	22.1	21.7	21.8	22.7	24.1	25.4	23.9
37	26.5	26.7	25.6	25.0	23.2	22.3	22.4	22.3	22.4	23.3	23.3	25.3	24.0
38	26.6	25.7	26.2	25.2	24.0	23.5	23.8	22.2	23.2	23.6	24.1	25.6	24.5
39	26.7	26.9	25.8	26.1	23.9	22.6	23.6	23.0	21.8	22.6	24.1	24.3	
40	25.3	27.0	26.7	24.7	23.8	21.5	20.2	21.2	21.8	21.9	23.6	24.1	23.5
41	25.8	26.6	25.9	25.6	23.4	21.8	21.0	21.6	21.6	22.4	24.2	25.1	23.8
42	27.4	27.8	26.6	25.9	24.7	23.5	22.4	22.0	22.8	23.2	24.3	25.1	24.6
43	26.2	26.7	26.0	25.2	24.2	22.1	22.3	22.2	22.4	24.8	25.0	24.2	24.3
44	25.1	25.0	25.4	24.4	23.8	23.0	21.3	21.0	22.9	22.2	23.8	25.6	23.6
45	25.6	26.6	27.0	25.7	23.9	22.8	23.8	21.8	21.5	23.0	23.8	25.5	24.3
46	26.4	26.6	25.7	25.1	23.0	22.2	21.7	21.7	21.9	23.2	23.9	25.3	23.9
47	26.4	26.3	26.1	25.1	23.8	22.9	22.3	21.8	22.4	22.9	24.0	24.6	24.1
48	25.7	26.1	25.1	24.8	23.1	22.2	19.6	20.6	21.9	22.8	24.1	24.3	23.4
49	25.8	25.6	25.9	25.7	22.8	22.4	22.1	21.6	22.2	23.8	23.9	24.7	23.9
50	26.2	25.9	26.0	25.4	21.9	22.8	23.3	21.9	22.2	23.8	24.4	25.6	24.1
51	25.8	26.3	25.7	24.9	22.8	21.5	20.2	21.1	20.9	21.8	23.8	25.0	23.3
52	26.2	25.8	25.7	24.8	23.7	23.4	21.7	22.2	21.9	22.9	24.7	25.1	24.0
53	26.8	26.5	26.2	25.9	23.2	22.0	21.9	20.0	21.3	23.0	24.2	25.1	23.8
54	25.3	25.7	25.4	25.2	23.6	22.3	21.6	23.1	23.1	24.2	23.4	25.7	24.1

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
55	25.7	25.6	25.6	25.0	23.3	23.4	22.4	22.4	22.4	23.0	23.9	24.6	23.9
56	25.0	25.6	25.7	24.5	23.2	22.4	21.8	22.4	21.1	24.1	24.5	24.7	23.8
57	25.8	25.4	25.2	25.1	22.8	23.5	21.6	21.4	22.1	22.2	23.7	24.8	23.6
58	25.1	25.6	25.6	25.1	23.6	20.9	21.6	20.2	20.8	22.0	23.3	23.4	23.1
59	24.8	25.8	25.6	25.3	24.0	23.3	21.6	21.3	21.3	23.0	22.3	24.9	23.6
60	25.3	25.4	25.3	26.9	23.2	21.7	22.1	21.6	23.0	22.4	24.1	25.6	23.9
61	25.6	26.9	26.1	25.0	23.8	22.3	22.1	21.4	22.8	23.0	23.6	24.6	23.9
62	25.3	25.3	25.7	25.1	23.3	21.8	21.9	21.1	22.6	22.8	23.3	24.2	23.5
63	25.6	26.0	25.3	24.4	23.3	22.3	20.9	20.7	21.4	21.7	24.0	24.7	23.4
64	26.0	26.0	25.4	25.1	23.1	22.6	21.6	22.4	22.9	23.7	24.4	23.6	23.9
65	24.6	25.2	24.6	24.2	23.7	21.7	20.6	20.9	20.7	22.6	23.6	24.9	23.1
66	25.9	25.4	25.3	24.4	23.7	22.1	21.5	21.9	21.4	22.9	23.7	24.0	23.5
67	25.8	25.9	25.7	24.9	22.9	23.2	21.2	21.7	23.1	22.1	23.8	23.7	23.7
68	26.3	25.8	24.9	24.8	24.1	22.3	23.1	21.6	22.6	23.2	23.6	25.6	24.0
69	26.1	26.8	27.0	25.5	22.4	22.5	21.6	21.4	21.6	22.8	23.8	24.5	23.8
70	26.5	26.6	25.6	25.4	24.0	23.5	21.7	22.0	22.9	23.8	25.2	25.1	24.4
71	25.8	25.8	26.2	26.3	24.5	23.4	23.0	22.0	23.1	23.7	24.4	25.6	24.5
72	26.2	26.8	25.8	25.8	24.5	23.0	21.8	21.7	21.6	22.4	23.2	25.5	24.0
73	26.1	27.4	27.0	26.8	24.6	23.4	22.8	23.0	24.1	23.9	25.6	26.3	25.1
74	26.8	26.1	26.7	25.1	24.1	22.8	22.6	22.4	23.2	24.3	25.2	24.8	24.5
75	25.9	25.9	25.3	24.2	23.2	22.4	22.9	22.5	23.2	23.4	24.7	25.6	24.1
76	25.6	25.7	26.2	25.1	23.9	22.6	20.6	21.2	21.5	23.0	24.4	24.7	23.7
77	25.7	26.9	27.8	26.3	23.9	22.7	21.2	21.6	22.2	22.7	24.0	25.2	24.2
78	25.2	26.6	25.9	25.3	24.4	23.0	21.7	22.3	22.4	22.9	23.6	24.9	24.0
79	25.3	26.1	25.7	25.3	24.6	23.3	21.5	21.8	22.7	23.3	22.8	24.0	23.9
80	26.2	26.3	26.8	25.1	23.1	22.0	22.0	22.1	22.8	23.5	24.6	25.0	24.1
81	25.6	26.8	26.3	25.1	23.2	23.4	22.5	22.2	23.0	23.4	25.0	25.0	24.3
82	26.5	25.9	26.4	25.2	24.0	22.3	21.6	21.0	20.9	22.2	22.8	23.9	23.6
83	25.7	27.1	27.0	25.4	25.0	22.5	21.8	22.1	23.1	23.3	24.3	25.4	24.4
MEAN	25.8	26.0	25.8	25.0	23.4	22.3	21.7	21.7	22.1	23.0	23.9	24.9	23.8

MEAN MONTHLY SURFACE TEMPERATURES

TAHITI	17°32'S 210°25'E (91938)												
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
35	26.4	26.3	26.9	26.8	26.0	25.4	25.4	25.2	25.1	26.4	26.8	26.2	26.1
36	26.5	26.9	26.6	26.7	25.9	25.7	24.8	24.7	25.3	25.1	25.7	26.1	25.8
37	26.5	27.0	26.9	26.9	25.9	25.5	25.8	25.4	25.9	26.8	27.2	27.2	26.4
38	27.2	27.3	27.0	26.6	26.1	25.4	25.5	25.4	25.8	27.1	26.2	26.8	26.4
39	27.4	26.6	27.3	26.8	26.3	25.6	25.4	25.5	25.6	25.6	27.0	27.2	26.4
40	27.9	27.5	28.2	28.5	27.2	26.6	25.1	25.6	25.5	26.3	27.7	27.5	27.0
41	27.3	27.9	28.3	27.4	27.1	25.8	25.0	25.3	25.9	26.5	27.2	27.3	26.8
42	27.8	28.2	28.4	27.5	26.5	26.0	24.9	24.7	25.7	26.4	27.0	27.0	26.7
43	27.2	27.3	27.6	27.0	26.7	25.5	25.2	25.6	25.5	26.4	27.0	26.7	26.5
44	26.5	27.0	27.5	27.3	27.0	26.2	24.9	24.8	25.7	25.3	26.3	26.6	26.3
45	27.5	27.5	28.0	27.1	26.7	26.5	25.6	25.8	25.8	27.5	27.9	27.4	26.9
46	26.9	27.3	27.8	27.5	26.1	25.9	25.0	26.0	24.9	26.0	26.9	27.3	26.5
47	27.7	27.5	28.4	28.0	27.2	26.5	25.7	25.3	26.0	25.8	27.0	27.5	26.9
48	27.3	27.3	27.6	27.0	26.5	25.9	25.3	26.5	24.4	25.1	25.4	26.0	26.2
49	26.3	26.4	26.7	27.3	26.1	25.7	25.0	24.1	24.9	25.6	25.2	25.8	25.8
50	25.7	25.9	25.9	26.1	24.9	24.9	24.6	24.6	24.5	25.2	25.7	25.6	25.3
51	26.1	26.5	26.7	26.3	26.3	24.7	24.8	24.6	25.3	25.4	26.6	27.0	25.9
52	26.6	26.4	26.9	27.0	26.2	26.3	24.3	24.6	25.4	25.3	27.0	26.9	26.1
53	26.7	27.1	27.7	27.0	25.1	24.2	23.9	24.5	25.1	26.1	26.6	25.6	25.8
54	26.5	26.5	26.8	25.9	25.6	24.9	24.8	24.6	25.2	25.6	24.8	26.3	25.6
55	25.6	26.2	26.4	25.8	24.8	24.2	24.4	23.7	24.6	25.3	25.5	26.2	25.2
56	23.5	25.7	25.8	25.9	24.7	24.0	23.3	24.4	24.5	25.4	25.3	26.4	24.9
57	26.4	26.5	26.7	26.6	25.1	24.9	24.2	24.3	24.3	25.4	26.7	27.1	25.7
58	26.8	27.0	27.4	26.9	25.4	25.4	25.1	24.7	25.7	25.8	27.1	26.9	26.2
59	27.4	27.5	28.0	28.0	27.0	25.9	25.2	24.5	25.5	25.7	26.5	27.3	26.5
60	27.6	26.9	27.3	27.4	26.4	24.2	24.0	24.8	25.4	25.4	27.1	27.5	26.2
61	27.0	26.8	26.6	26.5	26.1	24.8	24.8		24.4	25.3	26.1	26.5	25.8*
62	26.5	26.5	26.6	26.1	25.9	24.9	24.6	23.9	25.1	25.2	26.0	26.1	25.6
63	26.8	27.0	27.6	26.8	25.8	24.4	24.5	24.3	24.5	26.0	26.3	26.3	25.9
64	27.1	27.2	27.1	26.9	26.6	24.9	24.5	24.3	24.1	25.2	25.1	25.7	25.7
65	25.7	26.1	26.5	27.0	25.8	24.3	24.2	24.0	24.7	25.6	26.0	26.6	25.5
66	26.4	26.9	27.1	27.1	26.0	24.6	24.3	24.5	25.4	25.7	26.1	26.0	25.8
67	26.9	26.5	26.9	26.7	25.7	25.1	24.6	23.9	24.1	25.1	25.3	25.8	25.6
68	26.5	26.4	25.8	25.4	25.1	23.6	23.5	24.1	24.3	25.3	26.4	26.9	25.3
69	27.3	26.5	26.9	27.1	25.6	25.4	24.9	25.4	24.6	25.7	26.0	26.9	26.0
70	26.9	26.4	26.8	27.1	26.1	25.5	24.2	25.0	24.9	25.0	25.7	26.2	25.8
71	26.0	26.1	26.0	25.8	25.3	24.0	24.3	24.3	24.0	25.0	25.5	25.7	25.2
72	26.7	27.2	26.7	26.8	26.4	25.1	24.5	24.6	24.1	24.8	25.7	27.2	25.8
73	27.6	27.4	27.9	27.6	26.8	24.5	24.7	24.6	24.8	25.3	26.3	26.0	26.1
74	26.3	26.1	25.8		25.5	24.6	24.5	23.7	23.8	24.6	25.6		
75	26.0	26.8	27.0	26.6	25.7	24.7	23.0	23.7	24.3	24.8	25.6	25.5	25.3
76	25.5	26.0	26.4	26.2	25.4	24.7	24.3	23.7	24.1	25.6	26.9	26.8	25.5
77	26.9	28.0	27.9	26.9	26.2	24.1	24.4	23.9	24.7	25.7	26.1	26.5	25.9
78	27.1	26.7	27.6	26.9	26.4	25.1	24.0	24.3	25.2	24.9	25.9	26.5	25.9
79	26.1	27.1	27.3	27.3		25.3	24.3	24.2	24.5	25.1	26.0	26.0	25.8*
80	27.1	27.1	27.5	26.9	26.4	25.2	24.8	24.0	24.9	25.6	26.2	27.2	26.1
81	26.9	27.0	26.2	26.3	25.8	24.8	24.7	24.1				26.4	
82	27.4	26.9	27.6	26.7	26.3	25.0	24.7	24.9	24.3	25.6	25.5	26.2	25.9
83	27.3	28.1	27.2	26.1	25.9	24.6	24.2	24.0	25.2	26.5	26.0	26.9	26.0
MEAN	26.7	26.9	27.1	26.8	26.0	25.1	24.6	24.6	24.9	25.6	26.2	26.6	26.0

MEAN MONTHLY SURFACE TEMPERATURES

RAPA	27° 25'S 215° 43'E (91958)												MEAN
	J	F	M	A	M	J	J	A	S	O	N	D	
52	22.5	22.5	22.5	22.0	20.9	19.2	17.0	17.7	17.9	19.1	19.9	21.2	20.2
53	22.7	24.8	23.1	21.8	20.2	17.9	17.4	16.5	17.3	18.7	20.9	22.5	20.3
54	23.8	24.8	22.3	20.7	19.0	18.2	18.6	17.9	18.0	20.2	21.3	23.2	20.7
55	24.6	24.5	21.4	22.9	20.1	19.7	18.9	17.7	17.6	19.8	20.0	23.6	20.9
56	23.7	24.7	24.6	21.7	21.4	20.3	19.5	18.7	18.1	20.2	19.9	21.9	21.2
57	23.0	24.2	23.9	22.9	20.6	18.9	19.1	17.3	17.9	19.2	21.5	22.2	20.9
58	23.1	22.4	22.2	21.5	19.6	19.0	19.0	17.3	18.2	18.3	19.7	19.9	20.0
59	22.3	22.2	22.8	21.3	20.7	18.8	17.8	17.0	17.1	18.5	19.7	23.6	20.2
60	23.6	23.8	23.7			18.3	17.8	17.9	18.4	18.6	20.0	21.6	
61	23.2	24.8	23.8	23.1	20.6	18.4	18.7	17.3	18.0	19.1	20.4	21.5	20.7
62	23.0	28.8	22.9	22.9	24.6		18.0	17.4	18.9	18.4		20.9	
63	22.7	24.3	22.5	22.8	20.5	19.0	17.9	17.6	17.4	18.2	20.2	20.9	20.3
64	23.1	24.4	22.9	22.5	19.9	19.0	19.2	17.9	18.9	19.9	20.4	21.8	20.8
65	23.1	23.5	23.1	21.6		19.6		16.7	17.8	19.5	19.5		
66	21.7	21.7	22.6	21.3		18.1		18.1	18.0	18.8	20.2		
67	23.1	23.8	24.2	23.8	20.4	19.7	19.0	17.4	18.6	18.2	20.5	21.9	20.9
68	22.4	23.1	23.2	22.8	20.5	18.6	19.3	19.0	18.0	19.2	18.9	22.2	20.6
69	22.9	22.7	24.2	22.9	16.3	16.4	18.4	17.8	17.3	17.9	20.4	22.3	20.0
70	23.7	23.6	22.1	21.6	20.1	19.3	17.8	18.5	19.8	20.6	22.4	22.9	21.0
71	23.5	24.7	24.1	23.3	21.4	19.0	18.4	17.9	18.9	20.1	20.9	21.7	21.2
72	23.5	24.5	24.0	23.5	20.8	18.8	18.4	17.8	17.0	18.5	19.2	22.5	20.7
73	23.5	24.1	23.7	22.2	21.1	18.9	17.8	17.7	18.9	19.0	21.5	23.7	21.0
74	25.3	25.1	24.4		21.0	19.8	19.1	18.0	17.9	18.6	20.3		
75	23.0	23.3	23.2	22.6	20.0	19.1	18.5	17.6	18.6	19.4	20.5	22.6	20.7
76	24.2	24.5	24.4	23.3	21.6	19.4	18.1	17.2	17.4	18.3	20.7	21.9	20.9
77	22.9	24.6	25.4	22.1	20.7	19.3	17.6	17.6	18.1	18.3	19.9	21.1	20.6
78	22.6	23.8	22.3	22.4	20.7	19.4	18.0	17.1	18.9	18.4	19.1	20.8	20.3
79	23.2	23.9	23.1	21.4		19.0	18.0	17.2	18.1	18.5	19.2	20.4	20.2*
80	23.1	22.6	23.6	21.3	21.1	19.2	18.6	17.9	17.3	18.6	20.4	24.2	20.7
81	23.9	24.6	23.5	22.9	20.1	18.4	19.0	17.6	18.2	19.2	20.8	21.8	20.8
82	24.3	24.9	24.1	23.3	20.4	18.7	16.7	17.6	17.2	17.9	19.2	20.8	20.4
83	22.5	24.1	22.6	21.7	20.8	18.3	19.0	17.9	18.3	19.4	20.2	20.2	20.4
MEAN	23.2	24.0	23.3	22.3	20.5	18.9	18.4	17.6	18.1	19.0	20.2	21.9	20.6

MEAN MONTHLY SURFACE TEMPERATURES

PITCAIRN ISLAND	25 04S	229 56E	(91960)										
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
55													20.9 22.8
56	23.5	23.8	24.0	23.1	21.6	20.6	19.8	20.0	20.2	20.6	21.6	21.8	21.7
57	23.9	24.7	23.2	22.3	21.4	19.2	19.4	19.6	19.6	20.3	20.8	21.7	21.3
58	23.1	23.6	22.7	21.6	20.2	20.2	19.0	18.2	19.4	19.1	20.2	21.2	20.7
59	22.3	22.9	22.4	22.2	20.7	20.1	19.0	18.9	18.6	19.7	19.7	22.4	20.7
60	23.3	24.8	24.2	22.1	20.4	19.1	18.1	17.8	18.4	20.2	21.0	22.8	21.0
61	23.0	24.3	22.0	22.7	21.1	19.7	20.0	18.2	20.3	20.8	21.2	23.0	21.4
62	22.8	23.3	22.9	21.9	21.0	19.3	17.9	17.6	19.6	20.0	21.3	22.0	20.8
63	22.8	23.8	24.1	22.7	20.4	18.7	18.5	19.4	18.1	20.3	20.7	22.1	21.0
64	23.3	23.8	22.7	21.8	19.6	19.7	18.9	18.9	19.4	20.7	21.3	23.2	21.1
65	23.6	23.7	23.4	23.2	20.2	18.9	19.2	18.1	19.1	19.4	20.0	20.2	20.8
66	22.3	21.7	22.4	21.5	20.2	19.1	18.6	18.3	19.0	19.2	20.6	22.2	20.4
67	23.3	24.1	23.1	22.2	21.2	20.0	20.4	18.1	19.3	20.3	19.7	21.7	21.1
68	22.5	23.2	23.1	21.5	19.5	18.2	17.8	19.1	17.9	19.8	20.7	22.7	20.5
69	22.2	22.6	23.5	22.1	21.5	19.5	18.4	17.5	17.7	18.5	19.9	23.3	20.6
70	24.3	23.5	23.1	21.9	20.2	19.8	19.0	18.8	18.6	20.0	21.6	21.1	21.0
71	22.5	22.9	23.0	21.6	21.4	20.4	19.4	17.9	18.7	19.8	21.6	21.7	20.9
72	23.0	23.6	24.1	23.5	21.4	18.8	19.1	17.7	18.1	17.0	18.4	21.5	20.5
73	22.5	22.5	23.0	21.6	21.3	18.4	18.5	17.7	18.4	20.0	21.8	23.3	20.8
74	23.6	23.9	23.5	21.7	21.1	20.7	18.9	17.3	18.2	19.8	21.4	22.5	21.0
75	23.0	24.1	24.1	22.2	21.7	20.9	19.0	18.3	18.7	19.5	20.6	21.9	21.2
76	23.1	23.6	23.8	22.6	21.1	19.2	19.1	18.0	18.5	19.3	20.3	21.2	20.8
77	23.3	24.5	24.2	20.7	19.0	18.7	18.2	18.5	18.4	18.7	20.8	21.4	20.5
78	24.3	23.8	23.8	21.8	20.4	20.0	18.7	18.5	19.6	19.9	19.6	21.5	21.0
79	23.0	23.4	23.9	22.2	19.9	20.4	19.2	17.3	17.9	18.9	20.5	20.9	20.6
80	24.1	24.5	23.1	22.5	21.6	19.7	19.2	18.7	18.2	19.6	20.2	21.4	21.1
81	23.5	24.1	23.7	22.6	21.8	18.7	19.3	18.0	18.8	20.5	20.8	23.1	21.2
82	24.5	24.3	24.1	21.7	21.0	20.6	18.6	17.7	18.2	19.6	20.8	21.0	21.0
83	21.8	22.8	22.5	21.5	20.2	20.0	18.4	19.6	19.2	19.4	20.0	22.2	20.6
MEAN	23.2	23.6	23.3	22.1	20.8	19.6	18.9	18.3	18.8	19.7	20.6	22.0	20.9

MEAN MONTHLY SURFACE TEMPERATURES

ISLA DE PASCUA (EASTER IS)						67 10S		250 34E		(85469)					
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
42	24.4	24.9	22.9	21.9	19.5	20.1	18.1	18.5	18.9	19.9	21.0	22.6	21.1		
43	24.1	24.0	23.3	21.6	19.7	18.3	17.9	18.2	19.3	19.5	21.6	22.0	20.8		
44	22.5	23.7	23.3	21.5	20.4	18.0	17.4	18.3	18.2	19.7	20.7	22.2	20.5		
45	24.1	25.2	24.2	22.0	20.3	17.4	18.8	17.1	17.4	19.6	21.1	22.3	20.8		
46	23.9	23.5	23.3	21.1	20.1	18.6	18.8	18.1	18.9	19.8	21.6	22.6	20.9		
47	23.7	24.2	24.2	22.4	21.0	19.1	17.6	17.3	18.6						
48	23.4	23.4	23.1	21.8	20.7	18.7	18.4	18.0	19.3	19.4	21.0	22.0	20.8		
49	22.9	23.7	23.7	21.9	20.9	19.1	18.5	18.2	19.1	20.1	20.3	22.3	20.9		
50	23.2	24.3	23.5	22.1	21.0	19.1	18.5	18.3	18.2	19.9	20.9	22.5	21.0		
51															
52															
53															
54															
55															
56															
57															
58									17.1	17.6		20.4	21.0		
59	22.4	23.6	23.2		21.4	18.9	18.3	18.3	18.5	19.6	20.8	22.6	20.8*		
60	23.1	24.2	13.1	12.4	10.2	19.6	18.3	18.2	17.7	20.4	21.7	22.7	18.5		
61	24.2	25.4	24.9	26.4	21.6	19.3	19.1	18.6	19.7	19.7	21.0	23.0	21.9		
62	24.0	24.1	23.3	22.3	19.6	18.8	17.9	18.2	18.2	19.6	20.8	21.9	20.7		
63	22.8	24.0	23.5	21.9	19.8	17.9	17.6	18.6	19.3	19.3	20.1	22.0	20.6		
64	23.2	22.4	23.5	21.5	19.8	17.5	18.0	18.2	18.2	19.0	20.0	22.1	20.3		
65	25.3	24.2	23.1	22.4	19.9	18.8	19.1	18.6	18.7	19.2	20.5	20.5	20.9		
66	19.6	23.3	22.5	21.4	20.7	18.6	18.9	14.6	18.3	18.7	19.7	21.7	19.8		
67	23.9		23.7	21.6	19.4	18.6	18.3	18.3	19.1		22.8	20.8			
68	23.5	23.7	22.7	21.5	19.0	18.9	18.6		17.9	19.2	20.6	22.7	20.5*		
69	22.9	22.8	23.3	21.7	19.9	19.5	19.0	17.7	18.4	18.9	20.3	22.2	20.5		
70	23.3	23.4	23.4	21.6	19.9	18.5	18.3	18.0	17.2	18.4	20.4	21.8	20.4		
71	23.0	23.3	22.8	21.7	21.5	18.9	19.2	18.0	17.9	19.6	21.2	20.5	20.6		
72	24.2	23.1	23.1	22.2	20.3	19.7	18.2	18.3	18.2	19.5		21.7	20.8*		
73	23.5	23.8	22.6	22.0	20.9	19.4	19.0	18.3	18.1	19.2	20.8	21.7	20.8		
74	23.3	23.1	22.5	21.1	20.2	19.2	17.5	18.8	17.4	19.1	20.4	22.1	20.4		
75	23.4	23.6	23.3	22.0	20.8	19.1	18.0	18.0	17.9	18.3	20.9	21.7	20.6		
76	23.5	23.8	22.8	21.6	19.4	17.8	16.8	17.4		18.3	20.0	21.5	20.1*		
77	22.9	23.6	23.6	23.2	20.1	18.8	18.4	18.6	18.4	19.1	20.5	21.1	20.7		
78	23.1	23.3	22.6	21.8	20.4	19.0	19.7	18.2	19.2	19.5	21.3	22.5	20.9		
79	23.3	23.6	23.2	21.2	20.2	18.5	19.1	18.5	18.4	19.2	18.7	22.6	20.5		
80	24.3	24.9	24.5	23.3	21.3	18.2	18.7	18.1	19.2	20.2	20.9	22.2	21.3		
81	23.8	23.8	21.8	22.5	21.1	19.3	18.2	18.0	18.7	19.4	20.9	21.8	20.8		
82	22.9	21.4	10.1	21.4	20.6	19.5	19.3	17.8	18.5	20.0	20.4	21.4	19.4		
83	22.6	22.8	22.2	20.9	19.1	18.2	17.2	16.8	17.9	17.9	20.1	22.0	19.8		
MEAN	23.4	23.7	22.6	21.7	20.0	18.8	18.4	18.0	18.4	19.4	20.7	21.9	20.6		

MEAN MONTHLY SURFACE TEMPERATURES

JUAN FERNANDEZ						33 27S		281 08E		(85585)					
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
1	19.4	18.8	17.9	16.4	14.4	14.0	12.1	12.1	12.4	12.8	14.5	18.0	15.2		
2	19.8	20.7	20.0	17.7	15.6	13.3	11.4	10.9	12.7	13.1	14.9	16.9	15.6		
3	18.1	19.1	18.3	16.2	14.6	13.3	11.7	12.4	13.7	13.5	14.8	16.7	15.2		
4	18.9	18.7	17.9	16.9	15.7	14.3	13.4	12.3	13.6	13.3	15.9	17.6	15.7		
5	18.8	19.5	19.4	17.7	16.0										
6	18.9	20.3	19.6	18.1	15.6	14.0	13.0	12.4	12.2	12.9	14.4	16.1	15.6		
7	16.7	17.6	16.7	15.2	14.0	13.2	12.6								
8															
9							13.2	12.1	11.7	12.1	13.4	13.6	15.8		
10															
11	17.7	18.6	17.9	17.2	16.1	13.6	13.2	12.2	12.4	13.5	16.1	18.1	15.6		
12	19.2	19.4	19.5	17.1	14.6	14.2	12.8	12.9	13.0	14.4	15.2	18.0	15.9		
13	19.2	20.0	18.4	17.2	15.6	15.1	14.1	13.3	13.0	13.3	15.2	17.5	16.0		
14	18.9	19.1	18.4	16.3	15.4	14.3	14.0	12.8	12.6	13.7	15.0	16.2	15.6		
15	17.0	17.7	17.7	17.1	14.5	13.1	13.4	12.2	12.0	13.4	15.7	16.9	15.1		
16	18.6	17.9	17.4	17.0	15.6	12.6	11.9	12.3	11.7	13.9	15.0	15.5	14.9		
17	17.0	19.6	18.4	16.8	15.8	14.6	13.0	13.5	12.8	14.2	15.5	17.6	15.7		
18	18.6	18.8	18.8	17.5	15.6	13.4	13.7	13.3	12.2	12.9	14.3	18.0	15.6		
19	20.3	19.2	18.9	17.3	17.6	13.4	13.0	12.6	12.0	13.2	14.7	17.5	15.8		
20	18.6	18.2	19.6	16.8	15.9	14.1	13.1	13.2	13.0	13.0	15.3	16.3	15.6		
21	18.9	19.1	18.5	17.7	16.5	12.9	13.0	12.0	12.3	13.6	14.0	16.2	15.4		
22	18.4	19.2	18.9	17.1	15.8	13.6	14.0	13.1	12.8	13.0	14.1	17.4	15.6		
23	18.1	18.4	18.9	16.9	13.6	13.5	12.1	12.3	12.0	12.7	14.8	16.1	15.0		
24	18.1	19.1	18.5	17.1	14.7	13.9	13.9	12.5	13.1	14.6	14.5	16.9	15.6		
25	19.2	18.9	18.9	16.5	14.2	14.1	12.1	12.1	13.8	12.9	15.7	18.2	15.5		
26	19.2	19.7	19.5	17.6	15.9	14.1	13.8	12.2	12.1	14.0	15.2	17.0	15.9		
27	18.7	20.8	19.0	17.4	16.0	13.5	12.4	12.3	12.7	12.7	14.5	16.0	15.5		
28	17.3	18.2	17.3	15.7	14.9	12.8	12.9	11.4	11.3	12.5	15.1	15.9	14.6		
29	17.7	18.7	17.4	17.6	15.1	13.9	13.7	12.5	13.3	12.8	14.8	15.7	15.3		
30	17.9	18.7	19.4	18.2	16.2	15.4	14.5	12.6	14.0	14.0	16.0	17.4	16.2		
31	18.6	19.6	19.0	17.2	14.8	14.6	12.4	12.2	12.2	14.4	14.4	18.7	15.7		
32	18.7	19.2	18.4	16.4	14.6	14.8	13.6	11.8	12.1	13.4	14.4	16.1	15.3		
33	18.2	18.8	17.3	16.0	14.4	14.0	11.7	12.6	12.5	13.6	14.9	17.4	15.1		
34	19.3	18.5	18.1	16.2	14.9	13.5	11.1	10.7	12.7	12.3	13.7	15.6	14.7		
35	19.0	19.0	18.4	17.0	16.0	13.5	11.8	12.4	11.8	11.7	15.6	16.3	15.2		
36	17.3	17.9	18.1	17.6	14.9	12.6	13.0	11.7	12.3	12.6	14.7	17.9	15.0		
37	16.9	18.6	16.9	15.8	14.7	13.2	12.6	12.4	11.4	12.8	14.9	16.0	14.7		
38	16.7	17.7	17.7	15.6	14.7	12.5	12.5	11.5	12.4	14.0	16.0	17.9	14.9		
39	19.9	18.9	18.5	16.6	16.2	14.4	13.7	13.2	13.0	13.7	14.7	16.7	15.8		
40	19.3	19.6	18.4	17.5	15.8	13.6	13.0	11.7	12.2	13.8	14.5	15.8	15.4		
41	17.7	18.8	18.6	16.3	13.5	13.3	12.3	11.8		13.7	14.7				
42	19.6	19.2	18.1	16.7	15.1	13.6	12.7	11.5	12.0	13.1	15.8	17.5	15.4		
43	18.7	19.9	18.2	16.9	15.3	13.2	12.5	11.4	12.1	13.4	14.4	16.9	15.2		
44	18.3	19.3	18.6	17.3	14.8	14.0	12.9	11.7	12.3	13.3	15.9	18.5	15.6		
45	19.7	19.8	19.5	18.2	17.2	15.0	13.0	12.8	12.8	14.3	15.6	17.0	16.2		
46	17.8	18.5	18.2	16.7	14.7	14.2	14.0	13.3	14.7	14.2	16.7	17.4	15.9		
47	19.1	18.3	18.8	16.5	15.7	15.1	13.0	12.6	12.2	13.3	15.1	16.9	15.6		
48	19.8	18.7	18.0	16.5	15.1	13.1	13.0	12.0	15.3	13.1	14.7	18.4	15.6		
49	18.8	19.5	18.1	17.4	16.4	13.4	12.1	11.5	11.8	13.0	14.9	17.5	15.4		

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
50	18.2	20.4	19.1	15.7	14.3	13.2							17.3
51	17.7	18.0			15.2	14.2	14.2					15.6	17.6
52	20.5	21.2	19.9	18.2	16.0	13.2	12.8	12.0	13.2	13.8	15.4	18.1	16.2
53	19.3	19.9	19.5	16.6	15.8	13.5	12.6	13.0		13.7	15.1	17.6	15.8*
54	17.8	17.3	18.6		14.4	13.7	12.4	11.9	11.7	13.3	16.3	17.7	15.2*
55	20.3	20.2	17.8	16.2	14.9	14.4	12.2	11.7	12.3	13.2	15.8	18.7	15.6
56	17.8	18.4	17.6	16.0		13.4	13.2	12.5	12.1	14.1	16.7		
57	19.0	19.0	19.6	17.1	16.1	13.9	12.6	12.9	12.9	13.0	15.9	18.3	15.9
58	17.0	19.3	18.7	17.2	14.4	14.5	14.3	12.2	16.9	12.3	15.5	16.0	15.7
59	18.2	18.1	18.4	16.5	15.5	12.8	13.9	12.1	12.5	13.2	14.4	17.7	15.3
60	20.4	20.6	19.4	18.0	16.3	15.0	10.8		13.2	14.0	15.5	18.0	16.1*
61	18.8	19.4	18.3	16.8	16.1	13.6	13.9	13.6	12.6	14.1	15.3	17.8	15.9
62	17.9		19.9	16.6	15.8	14.6	12.7	13.5	12.6	12.9	15.8	18.4	15.8*
63	18.8	18.8	18.2	18.3	15.8	14.1	13.1	13.4	12.2	12.8	14.3	15.7	15.5
64	19.0	18.0	14.1	16.2	16.0	13.1	13.1	13.4	12.8	14.2	16.5	17.9	15.4
65	19.3	20.9	19.8	16.6	15.2	15.4	13.1	11.9	11.5	13.2	15.2	16.2	15.7
66	17.3	17.0	16.9	15.8	15.1	13.2	12.7	11.4	11.6	12.7	14.4	16.0	14.5
67	18.6	18.2	17.3	17.0		12.4	11.8	11.5	11.5	13.3	15.1	17.6	15.0*
68	18.7	19.7	17.2	15.9	15.5	12.9	12.7	12.7	13.3	13.1	15.4	17.2	15.4
69	18.1	18.2	17.6	16.6	14.4	12.7		12.5	13.1	13.6	14.6	17.6	15.2*
70	18.0	18.8	18.5	18.0	15.9	13.7	12.7	11.3	12.7	13.0	14.7		15.4*
71	17.5	17.3	16.5	15.4	14.9	12.8	12.8	11.3	12.5	14.2	16.4	17.3	14.9
72	19.9	19.8	17.9	16.8	16.6	14.4	12.6	12.8	12.1	13.0	14.2	18.0	15.7
73	18.6	18.0	17.7	15.8	15.1	13.5	12.0	12.4	11.9	12.8	14.0	15.8	14.8
74	17.9	17.3	17.6	16.3	15.2	13.4	12.3	12.0	11.8	13.4	14.2	15.9	14.8
75	17.5	18.0	17.0	17.0	14.6	13.9	12.7	11.9	12.2	13.2	14.7	16.3	14.9
76	17.9	18.3	16.9	15.8	15.2	13.9	12.4	11.8	12.3	13.3	15.1	17.8	15.1
77	18.4	18.0	17.9	17.6	16.6	14.9	11.8	12.3	13.2	14.2	15.3	16.4	15.6
78	18.3	18.4		17.3	17.0	14.4	15.4		13.2	13.8	15.6	16.5	
79		18.4	17.9	16.8	15.7	13.6	13.4	14.0	12.8	13.8	15.3	17.4	15.6*
80	19.4	20.4	19.3	16.0	15.6	13.7	12.9	13.0	12.6	13.1	14.2	17.6	15.7
81	18.7	18.4	18.2	17.5	16.0	13.6	13.4	12.7	12.5	13.0	14.2	16.1	15.4
82	19.0	18.2	17.9	17.0	15.2	13.7	16.6	12.7	12.8	13.5	14.3	17.2	15.7
83	18.7	18.8	17.9	16.6	14.4	13.0	12.1	12.0	11.9	13.7	15.8	18.0	15.2
MEAN	18.5	18.9	18.3	16.8	15.4	13.7	12.9	12.3	12.6	13.4	15.1	17.1	15.4

MEAN MONTHLY SURFACE TEMPERATURES

PUNTA ARENAS				53° 10'S				289° 06'E				(87934)			
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN		
1	13.9	12.0	10.4	08.7	05.3	02.8	02.0	03.7	05.9	07.7	10.4	14.4	08.1		
2	11.8	10.1	10.3	08.7	04.3	01.5	-00.9	02.8	03.8	07.0	08.5	11.5	06.6		
3	12.1	10.8	08.3	07.3	05.6	01.9	02.2	01.9	03.5	07.1	08.8	10.3	06.7		
4	12.8	11.8	08.8	07.7	03.5	02.5	-01.1	03.2	05.0	07.0	09.4	12.4	06.9		
5	13.1	10.2	10.0	06.9	03.8	-00.1	-00.4	00.6	02.7	04.9	07.5	08.3	05.6		
6	10.3	10.1	06.5	04.1	00.3	00.8	-00.1	02.5	04.2	06.5	08.1	08.1	05.1		
7	09.9	10.4	08.3	05.9	03.4	00.8	01.7	02.2	03.7	05.9	07.6	07.8	05.6		
8	10.5	12.3	08.5	04.3	03.7	02.6	01.2	01.6	03.7	04.6	05.4	08.4	05.6		
9	10.7	09.6	07.9	05.6	02.4	02.6	01.2	01.0	03.5	06.4	07.4	07.0	05.4		
10	08.3	10.6	09.8	06.1	04.0	01.4	01.9	02.1	05.2	08.1	09.3	11.6	06.5		
11	10.1	10.3	08.9	05.3	03.9	03.9	02.8	01.5	04.3	07.1	08.8	11.1	06.5		
12	12.5	09.4	09.9	08.0	03.6	02.8	04.3	02.0	04.3	07.6	05.9	09.6	06.7		
13	12.4	09.3	08.8	06.7	02.5	01.2	00.5	01.6	05.5	05.9	08.0	10.1	06.0		
14	10.0	10.0	09.5	06.3	03.5	00.6	01.6	02.2	03.4	06.3	06.5	10.4	05.9		
15	10.8	09.8	10.2	03.6	02.4	01.5	02.4	02.0	05.2	07.5	08.2	09.5	06.1		
16	12.4	11.2	09.1	06.8	04.9	02.6	02.1	03.7	04.6	07.3	08.4	10.3	07.0		
17	10.6	11.3	09.1	07.9	05.2	02.2	03.2	02.6	05.0	08.3	10.1	09.3	07.1		
18	10.9	11.7	08.7	05.9	02.9	03.9	01.1	01.7	04.3	07.6	07.0	11.9	06.5		
19	12.3	11.7	11.3	05.9	04.5	03.2	02.8	04.1	04.5	06.9	07.6	10.6	07.1		
20	11.8	11.0	07.8	07.7	04.1	03.2	01.9	04.2	05.0	06.9	08.7	10.3	06.9		
21	11.3	10.1	09.9	07.5	02.5	02.9	03.4	02.4	04.9	07.9	09.0	10.2	06.8		
22	09.8	09.9	08.4	07.0	05.5	02.4	03.0	02.8	04.9	07.2	09.0	11.9	06.8		
23	11.2	10.2	08.2	05.4	05.4	01.5	00.0	01.4	04.4	06.3	08.0	09.2	05.9		
24	12.9	10.8	09.0	06.9	04.9	03.4	02.0	03.8	05.2	08.3	08.8	09.5	07.1		
25	10.3	09.9	09.1	06.2	04.8	02.6	02.5	02.6	01.2	06.3	07.7	10.2	06.1		
26	09.9	10.3	07.3	05.6	04.9	03.3	01.3	03.2	03.9	04.7	07.9	10.4	06.1		
27	10.2	10.7	09.7	07.2	04.6	02.9	02.5	02.9	03.4	07.8	08.4	10.6	06.7		
28	09.8	10.4	08.2	06.8	05.4	01.9	01.9	04.6	06.5	08.2	08.0	09.0	06.7		
29	11.2	11.1	09.4	07.2	04.9	03.9	03.0	03.1	04.3	06.9	07.5	08.2	06.7		
30	10.6	11.8	07.8	07.8	04.2	01.2	0.00	02.4	04.6	06.2	10.2	09.5	06.4		
31	12.8	10.8	09.3	07.1	05.2	02.9	01.8	03.8	04.3	06.7	08.7	10.0	06.9		
32	10.9	10.9	08.7	05.9	05.7	02.1	01.2	02.7	04.6	07.5	08.2	09.1	06.5		
33	10.9	10.0	09.3	06.3	04.4	02.7	02.9	02.7	05.4	06.4	07.8	09.6	06.5		
34	11.2	09.5	08.0	07.2	04.2	02.2	02.4	03.9	04.9	08.2	08.4	09.4	06.6		
35	10.7	09.8	08.4	05.9	04.6	02.9	01.3	03.4	03.9	06.3	08.3	09.3	06.2		
36	11.0	11.1	08.9	07.2	02.4	03.4	03.2	03.2	04.7	06.3	10.0	09.8	06.8		
37	10.8	08.8	07.8	07.0	03.4	02.3	01.3	01.6	05.6	07.5	08.7	11.2	06.3		
38	10.4	10.5	08.4	07.8	05.5	02.9	02.5	02.8	04.1	07.1	08.6	11.2	06.8		
39	10.7	10.4	08.7	06.7	02.9	02.2	02.1	01.5	04.6	06.1	07.5	11.0	06.2		
40	10.7	11.8	09.2	05.6	04.0	02.3	02.7	04.1	04.5	06.9	09.4	09.0	06.7		
41	11.7	10.8	10.2	05.2		04.3	03.9	04.0	04.8	07.2	07.9	11.0	07.1*		
42	11.2	10.8	08.0	07.5	03.9	03.1	02.6	02.8	04.9	07.5	09.7		06.8*		
43		11.0	08.8	08.1	05.1	03.6	03.7			06.7	08.2	10.9			
44	10.7	11.0	10.6	07.6	05.1	01.2	02.5	02.6	04.4	07.0	09.3	10.9	06.9		
45	12.7	11.4	09.2	06.2	04.6	02.9	01.9	03.5	05.7	07.1	08.1	11.0	07.0		
46	11.4	09.7	08.8	08.3	04.7	03.1	03.0	02.9	04.6	07.0	07.7	09.1	06.7		
47	09.3	10.6	08.9	06.3	02.9	02.4	02.8	04.0	04.7	08.3	10.5	10.3	06.8		
48	11.0	10.1	07.5	07.4	04.1	02.6	01.6	00.6	04.4	07.3	08.3	09.5	06.2		
49	10.8	10.3	07.8	06.6	03.3	02.3	02.6	03.3	05.2	07.6	08.8	09.6	06.5		

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
50	10.3	10.4	08.9	05.4	01.4	02.2	02.9	02.7	03.7	06.5	07.5	09.9	06.0
51	09.9	10.8	08.3	07.6	04.2	00.2	02.5	03.3	03.9	06.8	09.3	13.4	06.7
52	12.3	11.6	08.4	07.4	03.8	03.9	02.7	03.0	05.8	07.5	10.2	11.0	07.3
53	10.5	10.9	08.8	05.3	03.4	02.9	02.0	03.2	04.5	06.4	08.3	11.0	06.4
54	10.4	09.5	08.4	06.9	04.3	02.4		02.4	03.6	07.4	08.4	09.2	06.2*
55	11.0	09.8	08.6	06.1	04.6	01.0	01.9	02.4	04.3	07.1	09.2	08.2	06.2
56	10.1	10.4	08.4	06.8	04.9	03.5	02.8	03.6	04.4	07.8	10.6	11.0	07.0
57	09.9	11.5	09.4	07.4	03.4	02.4	02.1	04.0	04.4	05.4	09.3	09.6	06.6
58	10.7	09.5	09.9	06.9	03.8	01.9	02.7	02.7	04.3	07.9	08.6	09.7	06.5
59	10.7	10.0	08.6	03.4	02.7	02.7	01.4	02.7	04.3	05.5	08.4	10.0	05.9
60	11.2	10.9	09.8	06.2	04.4	01.6	02.7	03.1	05.0	06.3	08.6	08.8	06.6
61	09.8	09.8	07.8	05.0	04.4	01.3	04.0	03.0	04.8	07.0	08.3	09.8	06.3
62	11.2	11.2	09.3	06.3	04.8	03.0	04.1	02.9	05.6	07.0	08.7	10.6	07.1
63	10.1	12.2	07.9	04.0	03.6	02.3	01.2	01.6	02.6	06.3	07.5	10.5	05.8
64	10.9	09.8	08.2	06.5	02.2	-00.9	01.6	01.6	04.1	07.2	08.2	09.9	05.8
65	10.6	09.5	10.0	05.0	04.6	02.2	01.0	03.0	05.4	05.5	09.0	08.6	06.2
66	10.6	09.2	08.5	05.8	03.4	00.7	-01.2	02.1	03.0	05.6	08.4	09.9	05.5
67	10.1	10.0	08.5	06.9	02.6	01.8	01.1	01.4	04.0	05.8	08.4	10.2	05.9
68	10.8	09.0	08.4	06.6	05.2	03.4	01.9	02.9	03.5	05.6	08.0	09.2	06.2
69	09.9	09.5	08.8	06.3	02.4	01.9	00.5	03.0	03.6	04.9	08.2	09.6	05.7
70	10.6	09.8	07.3	05.9	02.4	02.0	01.1	01.5	04.3	06.0	08.9	08.8	05.7
71	08.6	08.3	07.6	05.7	02.3	00.8	00.5	02.8	03.8	06.8	07.5	08.0	05.2
72	10.1	09.0	07.1	06.6	01.9	01.1	00.8	00.7	03.2	05.0	09.1	10.2	05.4
73	09.5	10.2	08.6	04.4	03.1	00.4	-00.9	02.7	04.2	06.6	07.7	09.8	05.5
74	09.9	10.1	08.7	06.4	02.1	00.8	00.7	01.6	04.3	06.5	08.2	10.0	05.8
75	11.2	09.6	08.6	05.5	04.6	02.1	00.5	01.4	04.1	06.3	08.0	08.5	05.9
76	08.6	10.6	06.6	05.8	04.6	00.6	01.2	02.1	03.6	06.0	07.5	08.2	05.4
77	10.0	09.9	08.3	06.0	03.6	01.3	00.5	01.7	01.7	06.3	08.0	11.1	05.7
78	10.9	10.0	10.4	06.9	03.1	02.2	00.9	02.6	05.0	05.9	08.0		06.3*
79	11.8	10.6	09.0	07.8	02.6	03.1	02.3	01.6	03.6	05.6	07.0	10.6	06.3
80	10.6	09.1	08.2	05.3	03.9	01.9	01.0	02.2	04.8	06.9	07.2	09.6	05.9
81	10.6	10.2	07.9	06.6	03.3	01.2	01.8	02.6	03.8	07.5	08.2	10.1	06.1
82	12.0	10.8	07.4	07.1	05.0	00.7	00.2	01.6	03.7	05.6	07.8	10.3	06.0
83	11.2	09.4	08.9	06.7	03.8	01.8	02.4	03.3	04.3	06.7	08.8	10.8	06.5
MEAN	10.9	10.4	08.7	06.5	03.9	02.2	01.8	02.6	04.3	06.7	08.4	10.0	06.3

MEAN MONTHLY SURFACE TEMPERATURES

TINIAN ISLAND

STANLEY	51 42S 302 08E (88890)												
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
41	10.2	09.4	07.8	04.4	03.6	03.5	03.2	03.2	03.7	05.9	06.6	08.8	05.9
42	10.2	11.4	07.7	06.6	03.8	02.7	03.1	03.4	05.2	07.5	11.2	06.4*	
43	10.2	10.2	09.5	07.8	04.9	04.2	03.8	03.2	04.5	06.9	07.2	09.8	06.9
44	08.6	09.4	09.9	06.4	04.8	01.4	02.1	02.9	04.4	05.8	07.3	09.1	06.0
45	10.2	10.1	09.3	06.1	04.5	01.8	01.9	03.1	04.2	06.4	06.9	09.7	06.2
46	10.8	09.2	07.9	07.4	04.5	03.2	01.8	00.9	03.2	05.8	06.7	08.1	05.8
47	07.5	08.8	07.5	06.3	02.9	02.1	02.4	03.4	03.9	07.2	08.6	08.1	05.7
48	08.6	08.9	06.7	06.7	03.7	03.2	01.3	01.1	03.8	05.1	06.4	08.5	05.3
49	09.4	08.7	07.8	05.7	03.0	02.9	02.4	01.9	04.3	05.6	07.7	06.9	05.5
50	07.7	10.2	08.6	06.3	01.4	03.1	02.6	00.8	03.0	04.9	06.4	08.4	05.3
51	08.7	09.2	07.9	06.7	04.3	02.3	02.3	03.2	02.9	04.4	05.8	09.9	05.6
52	10.2	09.5	07.9	05.1	02.9	02.2	02.6	03.0	05.0	05.9	07.7	08.4	05.9
53	09.1	10.1	09.3	05.2	03.8	02.9	02.3	03.5	03.7	05.8	07.4	09.5	06.1
54	08.2	09.9	08.4	07.1	04.3	01.9	02.5	01.7	02.5	05.6	07.6	07.5	05.6
55	09.0	09.8	08.1	06.0	04.1	01.9	01.9	02.7	03.7	06.9	08.3	06.7	05.8
56	07.6	09.1	08.3	06.1	04.6	03.9	03.3	03.4	03.9	06.8	08.9	08.3	06.2
57	08.6	10.4	10.0	07.2	04.5	01.9	01.9	01.7	04.3	04.9	08.3	08.1	06.0
58	10.8	07.4	07.9	06.8	03.3	02.2	02.3	03.1	04.0	06.0	07.1	07.3	05.7
59	09.1	08.5	08.8	03.9	02.9	02.4	01.2	01.7	03.6	04.9	06.8	08.6	05.2
60	09.9	10.5	09.8	05.8	04.6	02.3	02.2	02.8	04.1	06.1	07.7	07.6	06.1
61								02.2				08.1	
62	08.4	08.2	08.2	06.7	04.1		02.1	02.6	04.6	06.2	06.4	08.3	05.7*
63	08.7	09.8	07.5	04.9	04.0	02.7	02.5	01.8	02.4	04.1	06.1	09.5	05.3
64	09.7	09.9	07.2	05.5	03.7	01.4	02.8	01.5	03.1	05.8	05.7	07.3	05.3
65	09.3	09.4	08.8	06.1	03.8	03.7	02.1	03.2	03.8	05.1	07.9	06.6	05.8
66	08.9	06.8	08.1	06.6	04.5	02.6	01.1	02.9	02.6	04.5	05.9	08.0	05.2
67	08.3	09.1	07.8	06.4	04.8	02.9	03.0	02.3	03.1	04.5	08.3	08.8	05.8
68	09.5	08.9	07.9	06.3	04.3	03.3	02.8	03.7	03.8	05.5	07.1	07.6	05.9
69	07.7	09.2	07.8	06.6	03.6	01.9	02.3	02.8	04.0	04.2	06.6	09.3	05.5
70	09.1	09.5	07.3	05.6	02.9	03.2	02.9	02.7	04.5	05.9	07.9	08.5	05.8
71	08.2	08.2	07.6	05.9	03.0	02.5	01.6	03.1	04.6	05.7	06.8	07.2	05.4
72	09.1	08.4	07.5	06.6	02.9	01.8	02.5	01.4	03.1	04.2	07.3	10.3	05.4
73	08.7	09.0	09.2	05.6	04.0	02.2	01.8	02.6	03.9	05.9	06.4	08.8	05.7
74	09.2	09.6	09.2		03.5	02.9	02.6	02.3	03.3	05.7	06.7	08.8	05.8*
75	08.8	08.4	08.7	08.9	04.7	02.4	01.9	02.5	04.0	06.1	06.5	07.3	05.7
76	09.2	10.3	07.1	05.8	04.4	02.0	01.5	03.0	02.9	05.2	07.0	06.3	05.4
77	09.5	10.0	08.3	08.7	04.5	03.6	01.0	01.9	03.0	05.4	07.1	09.8	05.9
78	09.5	09.7	08.5	05.9	03.6	03.0	01.3	03.0	04.7	05.8	06.3	09.1	05.9
79	10.6	10.4	09.1	07.5	03.5	03.1	02.9	02.1	03.6	05.4	06.1	09.0	06.1
80	09.6	09.3	08.7	05.5	04.5	03.1	01.2	01.9	03.6	05.4	07.0	08.4	05.7
81	09.4	10.1	06.2	05.9	05.1	02.2	02.7	02.8	03.6	05.9	08.3	08.6	05.9
82	10.9	10.3											
MEAN	09.2	09.4	08.2	06.2	03.9	02.6	02.2	02.5	03.7	05.6	07.1	08.4	05.7

1.88 0.00 0.70 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

0.40 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

MEAN MONTHLY SURFACE TEMPERATURES

	CAPE PEMBROKE												MEAN
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
1	10.4	10.7	08.8	06.9	05.2	03.1	01.6	03.2	04.4	06.2	07.5	09.6	06.5
2	09.9	10.1	07.9	07.3	04.8	02.1	00.7	01.1	01.9	04.7	05.9		05.4*
3	08.7	08.7	07.5	06.5	05.1	03.8	02.8	02.9	03.9	05.1	07.3	08.3	05.9
4	09.7	09.9	08.7	06.8	03.5	04.2	01.1	03.2	04.1	04.4	06.9	07.4	05.8
5	09.2	08.1	08.7	06.4	03.8	03.1	01.7	02.7	04.0	05.4	07.4	07.8	05.7
6	10.4	09.3	08.0	05.9	02.8	02.8	02.0	03.3	03.8	05.4	06.9	07.8	05.7
7	10.1	10.0	09.2	06.8	04.9			03.6	04.8	04.9	06.2	06.9	
8													
9	09.6	08.6	08.5	07.2	05.4	04.2	03.2	03.6	04.1	05.7	06.4	07.6	06.2
10	09.3	09.0	08.6	06.1	05.0	02.9	02.8	03.6	04.4	05.4	07.3	08.8	06.1
11	09.2	09.2	08.4	06.3	05.5	04.2	03.8	03.0	04.2	04.9	05.7	08.1	06.0
12	10.1	09.3	08.2	06.8	04.1	02.8	02.4	02.1	04.0	05.9	06.2	07.6	05.8
13	09.4	09.6	07.8	06.7	04.7	02.6	02.2	03.1	04.8	06.0	07.0	08.2	06.0
14	09.2	10.2	09.7	07.5	05.8	02.9	02.2	03.1	03.1	05.2	05.3	08.2	06.0
15	09.0	09.9	09.2	05.2	04.1	02.3	03.1	02.2	04.1	05.7	07.3	08.4	05.9
16	09.1	09.8	07.8	06.6	05.1	02.4	02.2	03.8	04.0	05.7	06.8	08.5	06.0
17	09.1	10.7	09.0	07.9	06.2	04.1	03.9	03.7	04.4	06.1	07.6	08.9	06.8
18	10.3	10.2	07.9	07.6	03.4	03.6	02.1	02.4	03.5	05.6	07.4	09.0	06.1
19	09.6	09.2	09.4	06.0	04.7	03.7	04.1	03.3	03.3	04.5	05.2	08.2	05.9
20	09.1	09.5	07.6	07.3	04.6	03.5	02.8	04.2	04.3	04.4	06.2	08.4	06.0
21	09.3	09.3	09.1	07.7	04.2	03.8	03.0	01.7	03.1	05.2	06.6	07.8	05.9
22	09.5	09.1	07.5	06.3	04.2	02.5	03.9	04.0	04.6	05.4	08.0	08.6	06.1
23	09.8	10.3	08.2	05.7	05.1	02.4	01.7	02.7	02.9	03.6	05.6	06.8	05.4
24	09.4	07.6	08.7	05.4	04.3	04.1	01.1	03.7	04.4	05.9	08.9	08.3	06.0
25	08.3	09.8	09.1	06.8	04.7	02.3	02.6	03.1	02.2	04.3	07.0	09.1	05.8
26	09.0	10.3	07.7	05.6	05.4	03.1	02.3	03.6	02.9	03.8	06.4	08.7	05.7
27	09.1	08.9	08.1	07.2	04.8	03.4	03.1	02.6	02.7	04.7	06.5	07.8	05.7
28	08.6	08.3	08.2	06.2	04.1	02.6	02.5	03.8	04.6	05.6	06.4	07.3	05.7
29	08.3	08.9	07.9	08.0	05.1	03.9	03.4	01.9	04.1	05.4	06.6	08.4	05.8
30	08.6	09.4	07.1	06.7	05.1	01.2	01.2	01.9	03.8	04.1	07.2	08.7	05.4
31	09.0	08.6	08.8	06.1	04.8	04.1	02.6	03.7	02.4	04.9	05.2	07.5	05.6
32	08.7	09.1	07.8	08.1	04.5	02.4	01.3	03.2	04.2	06.1	07.6	08.8	06.0
33	08.6	09.6	09.0	07.1	05.3	02.9	03.5	03.3	04.7	05.4	06.0	06.3	06.0
34	10.8	07.1	07.7	06.6	04.9	02.8	02.9	03.8	04.1	07.1	07.1	07.4	06.0
35	07.9	08.4	09.0	05.1	04.6	03.9	01.4	02.9	02.6	04.4	06.8	07.5	05.4
36	09.3	10.1	08.2	07.1	02.3	03.8	03.7	03.0	04.7	05.7	07.7	09.6	06.3
37	09.7	09.0	08.2	07.3	04.9	02.8	01.8	01.4	05.3	05.1	07.1	08.1	05.9
38	08.6	08.4	07.8	06.6	05.0	03.4	02.7	02.6	03.7	06.1	06.9	08.0	05.8
39	09.1	09.3	08.3	06.9	03.9	02.4	03.3	02.3	04.5	06.1	07.3	09.1	06.0
40	10.1	10.7	10.4	07.9	06.8	05.0	05.2	05.4	06.2	07.6	08.8	09.7	07.8
41	11.9	11.3	09.6	07.0	06.3	05.9	05.2	05.4	06.1	07.7	07.9	09.1	07.8
42	10.2	11.1	07.9	06.9	04.3	03.0	03.6	04.1	03.3	05.2	06.7	10.6	06.4
43	09.7	10.1	09.4	07.9	05.4	04.7	04.2	03.3	04.2	06.5	07.0	09.1	06.8
44	08.2	08.9	09.7	06.9	05.2	02.2	02.4	03.2	04.2	05.3	06.7	08.5	06.0
45	09.4	09.9	09.1	06.4	05.1	02.0	02.5	03.3	04.2	06.2	06.3	09.0	06.1
46	10.6	09.3	08.3	07.2	05.3	03.6	02.8	01.6	03.3	05.6	06.5	07.1	05.9
47	07.5	08.7	07.6	06.5	03.3	02.6	02.7	03.6	04.1	06.3	08.0	07.4	05.7
MEAN	09.4	09.4	08.5	06.8	04.7	03.2	02.7	03.1	04.0	05.4	06.9	08.2	06.0

MEAN MONTHLY SURFACE TEMPERATURES

SIGNY ISLAND			60 43S			314 24E			(88925)				
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
51	0.06	01.4	01.2	01.1	-04.2	-05.3	-10.7	-07.9	-05.6	-04.1	-03.6	-00.1	-03.1
52	01.1	01.7	-00.1	-04.7	-11.9	-11.1	-09.8	-05.7	-02.7	-02.8	-01.3	-00.3	-04.0
53	-00.1	-00.8	-00.5	-03.9	-10.8	-07.3	-09.7	-05.2	-03.1	-02.4	-01.9	01.3	-03.7
54	00.2	01.4	00.0	-00.2	-03.1	-12.5	-08.4	-13.8	-10.2	-00.9	00.1	-00.6	-04.0
55	01.5	03.1	-00.4	00.2	-03.1	-07.5	-07.6	-05.5	-03.3	00.3	-00.5	-00.7	-02.0
56	00.3	01.4	01.5	00.3	00.2	-00.9	-05.8	-03.6	-04.7	-02.2	-00.4	-00.5	-01.2
57	01.1	01.8	01.9	-00.2	-03.5	-12.1	-09.3	-11.5	-03.2	-05.9	-00.3	-01.0	-03.5
58	00.5	-00.7	-01.4	-02.3	-14.3	-10.9	-14.1	-09.7	-04.4	-00.9	-00.1	-00.3	-04.9
59	00.3	-00.1	00.6	-05.5	-06.5	-11.4	-13.4	-12.7	-06.5	-03.4	-01.8	-00.3	-05.1
60	00.5	02.5	01.3	-02.1	-04.6	-07.7	-11.3	-06.8	-03.8	-02.3	-01.9	-00.2	-03.0
61						-02.9						-00.2	
62	01.7	00.9	00.0		-04.4		-08.5	-06.1	-01.8	-00.4	-01.1	00.7	
63	01.8	01.7	-00.2	-01.8	-03.0	-07.1	-06.7	-05.6	-03.7	-07.1	-01.9	00.5	-02.8
64	00.7	01.0	00.3	-04.9	-04.5	-07.6	-10.4	-14.1	-04.9	-00.6	-01.0	00.6	-03.8
65	02.2	02.8	01.8	-00.9	-01.1	-03.7	-09.0	-10.3	-03.4	-04.0	-00.7	-00.3	-02.2
66	01.2	-00.1	00.6	-02.8	-08.5	-09.7	-12.0	-06.1	-06.1	-03.5	-03.0	-00.7	-04.2
67	00.0	00.7	01.0	-01.4	-08.5	-09.0	-05.4	-07.9	-07.3	-04.7	-01.4	-00.3	-03.7
68	01.2	01.1	-00.4	-02.1	-06.3	-09.3	-05.6	-05.5	-04.1	-00.2	-00.4	00.5	-02.6
69	01.6	01.8	-01.5	-02.6	-09.5	-10.7	-10.3	-09.9	-02.8	-03.3	-01.2	00.7	-04.0
70	-00.5	01.0	-02.3	-02.8	-06.1	-09.4	-06.5	-06.4	-00.6	-00.7	-00.4	00.9	-02.8
71	01.6	01.2	00.7	-01.7	-09.0	-05.6	-09.4	-06.1	-06.5	-03.0	-00.9	-01.9	-03.4
72	00.3	00.1	-00.2	-01.5	-04.8	-13.1	-09.4	-14.9	-05.0	-04.1	-02.5	01.7	-04.4
73	-00.5	01.0	00.6	-03.5	-10.5	-13.0	-09.8	-08.3	-07.5	-01.2	-01.2	00.5	-04.5
74	01.5	01.5	02.0	-02.8	-07.8	-09.7	-09.3	-12.2	-06.2	-02.1	-00.6	00.6	-03.8
75	00.8	01.6	-00.5	-01.3	-01.8	-15.0	-13.2	-13.2	-08.1	-00.8	-01.5	00.8	-04.4
76	01.0	02.2	00.5	-00.2	-03.0	-09.6	-10.4	-09.6	-08.1	-01.2	00.3	-00.1	-03.2
77	02.1	01.7	00.7	-00.3	-01.8	-03.0	-08.5	-07.5	-05.4	-03.0	-00.4	00.3	-02.1
78	00.8	01.6	00.0	-01.8	-02.0	-05.1	-13.4	-07.0	-03.4	-01.0	-02.6	-00.1	-02.8
79	01.1	01.6	00.8	-00.5	-07.4	-11.3	-09.4	-06.2	-05.4				
80	01.1	01.9	-00.4	-06.7	-08.4	-11.2	-17.2	-12.9	-08.4	-03.9	-02.0	00.0	-05.7
81	00.7	01.7	01.2	-01.2	-03.8	-07.1	-09.2	-10.9	-06.1	-07.2	-01.1	00.2	-03.6
82	02.3	02.1	01.7	-00.4	-00.5	-04.0	-13.4	-09.4	-06.3	-02.4	-02.9	01.0	-02.7
83	01.5	00.6	-00.3	-03.5	-06.5	-07.9	-04.6	-03.7	-08.2	-03.8	00.1	00.3	-03.0
84	00.6	01.7	-00.1										
MEAN	00.9	01.3	00.3	-02.0	-05.7	-08.5	-09.7	-08.6	-05.2	-02.7	-01.2	00.1	-03.5

MEAN MONTHLY SURFACE TEMPERATURES

ORCADAS	60 45S			315 17E			(88968)						
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
3				-06.4	-08.3	-12.5	-08.4	-07.5	-10.3	-02.8	-01.5	-00.3	
4	00.2	00.4	00.2	-03.9	-11.9	-08.5	-13.9	-10.7	-06.4	-07.6	-00.5	-01.8	-05.4
5	-00.5	-00.8	-00.2	-04.3	-08.2	-11.9	-16.5	-05.3	-03.3	-02.4	-01.4	00.0	-04.6
6	01.1	00.4	-01.4	-01.6	-07.0	-12.0	-11.8	-08.5	-08.3	-04.3	-01.5	-00.4	-04.6
7	00.4	01.4	00.1	-00.9	-04.5	-11.4	-12.1	-16.7	-07.9	-04.7	-01.8	-01.4	-05.0
8	-00.1	01.2	00.2	-01.5	-04.1	-05.4	-12.5	-06.2	-02.9	-02.4	-01.3	-00.6	-03.0
9	01.0	00.6	-00.3	-03.5	-09.4	-10.2	-12.2	-06.6	-07.5	-02.4	-02.2	-00.9	-04.5
10	-00.1	00.8	00.4	-01.9	-02.9	-05.2	-08.0	-11.5	-05.8	-03.2	-01.3	-01.5	-03.4
11	-00.7	00.6	-00.7	-05.4	-05.9	-05.6	-08.9	-05.7	-04.0	-03.5	-04.4	-01.6	-03.8
12	00.7	00.9	-01.6	-05.3	-09.7	-11.5	-14.3	-13.2	-05.6	-04.6	-04.1	-01.3	-05.8
13	-01.0	-00.5	-01.9	-02.4	-04.0	-14.4	-13.2	-07.8	-05.0	-05.3	-04.9	00.2	-05.0
14	-00.2	00.6	00.4	-00.5	-03.3	-09.0	-13.4	-07.4	-06.0	-05.8	-03.1	-00.1	-04.0
15	-00.6	-00.4	-00.6	-04.6	-11.1	-13.4	-14.3	-18.0	-06.2	-03.4	-01.9	-01.4	-06.3
16	00.1	00.0	-01.3	-05.3	-12.6	-10.6	-11.2	-07.6	-11.2	-04.3	-01.3	-00.6	-05.5
17	00.4	00.6	00.2	-00.5	-01.8	-10.2	-06.9	-08.7	-11.3	-01.8	-00.4	00.3	-03.3
18	01.9	01.1	00.2	-01.8	-09.1	-06.6	-07.6	-16.2	-05.0	-00.5	-01.4	-00.4	-03.8
19	00.9	00.8	00.4	-03.8	-08.6	-08.5	-06.9	-03.8	-04.6	-03.5	-04.9	00.2	-03.5
20	00.3	00.0	-01.0	-01.7	-05.8	-08.9	-10.0	-08.9	-08.8	-08.4	-02.0	-01.5	-04.7
21	-00.7	-00.2	-00.5	-01.5	-10.8	-06.1	-09.8	-13.3	-06.4	-01.9	-03.2	-00.9	-04.6
22	00.4	00.8	-01.4	-03.7	-09.8	-10.0	-06.8	-09.7	-06.2	-03.4	-00.4	-00.1	-04.2
23	00.5	01.2	00.1	-02.6	-03.9	-07.8	-09.4	-09.8	-11.8	-03.1	-01.7	-02.3	-04.2
24	-00.5	-02.5	-02.6	-05.8	-09.2	-08.0	-14.5	-07.3	-05.7	-02.1	-02.8	-00.3	-05.1
25	00.3	00.8	-01.0	-01.2	-03.6	-10.6	-09.5	-09.0	-10.6	-06.6	-02.6	-00.2	-04.5
26	01.1	01.8	-00.9	-03.3	-03.8	-14.7	-10.4	-06.3	-06.8	-07.6	-01.3	-00.2	-04.4
27	00.2	-00.7	-00.5	-03.3	-06.4	-09.5	-11.2	-17.7	-08.5	-04.4	-03.6	-00.2	-05.5
28	00.5	-00.1	00.0	-07.5	-15.0	-15.9	-11.6	-12.9	-08.1	-05.1	-02.9	-01.5	-06.7
29	-01.0	-01.0	-02.4	-05.6	-06.7	-14.7	-12.1	-14.7	-04.0	-02.2	-00.7	-00.8	-05.5
30	00.2	-00.1	-01.1	-07.0	-06.1	-18.1	-21.2	-10.8	-06.4	-09.5	-02.3	-01.1	-07.0
31	-01.3	-00.5	-01.8	-04.4	-04.0	-09.0	-06.4	-06.5	-10.7	-04.6	-03.3	-01.5	-04.5
32	00.3	-00.2	-00.9	-02.5	-05.9	-19.6	-16.3	-07.3	-03.5	-02.5	-01.1	-01.4	-05.1
33	-00.1	-00.4	-00.3	-03.7	-06.3	-11.8	-07.7	-12.4	-05.8	-07.0	-04.0	-02.2	-05.1
34	00.2	-01.0	-01.4	-02.7	-09.4	-13.7	-08.7	-08.4	-05.8	-02.7	-01.1	00.1	-04.6
35	00.3	00.5	01.0	-03.2	-03.6	-06.5	-17.0	-14.9	-12.8	-03.9	-03.4	-00.8	-05.4
36	00.0	01.2	00.4	-00.7	-07.9	-12.9	-07.6	-08.4	-04.9	-02.5	-00.8	01.1	-03.6
37	01.3	00.7	00.9	-01.5	-02.1	-06.2	-08.8	-11.8	-03.0	-02.8	-01.1	-00.6	-02.9
38	00.2	-00.4	-00.7	-01.5	-09.0	-09.5	-10.8	-12.0	-08.6	-02.2	-03.0	-01.4	-04.9
39	00.4	00.9	-00.5	-02.4	-05.7	-16.3	-13.1	-19.5	-07.6	-01.8	-02.3	-01.1	-05.8
40	00.2	01.0	00.4	-02.5	-06.2	-08.1	-09.7	-09.4	-04.8	-05.0	-01.1	-01.0	-03.9
41	01.0	01.1	-01.4	-02.9	-03.9	-07.6	-06.2	-12.1	-09.6	-05.2	-02.9	-01.1	-04.2
42	00.1	0.07	-01.8	-07.2	-08.6	-11.3	-05.0	-06.1	-10.3	-07.3	-03.9	-00.9	-05.2
43	00.1	00.2	-00.8	-01.4	-10.0	-03.7	-04.0	-05.0	-03.2	-01.9	-01.0	-00.2	-02.6
44	00.7	00.6	01.4	-00.7	-03.6	-09.1	-08.4	-10.1	-08.8	-04.9	-03.4	-01.1	-04.0
45	-01.0	00.1	-02.3	-08.4	-11.4	-18.5	-13.4	-13.8	-08.7	-02.1	-04.2	-01.0	-07.1
46	00.0	0.00	0.01	-02.1	-04.9	-09.2	-08.7	-05.8	-04.5	-03.5	-03.8	-00.6	-03.6
47	-00.6	-00.1	00.2	-01.3	-07.4	-09.8	-10.5	-08.4	-04.4	-02.1	-00.3	-01.7	-03.9
48	00.1	-00.4	-01.0	-03.4	-07.1	-05.5	-13.3	-12.4	-07.5	-02.9	-04.3	-00.6	-04.9
49	-00.6	-00.7	-01.3	-08.3	-07.8	-12.6	-15.0	-11.2	-07.5	-03.6	-02.8	-01.0	-06.0
50	-00.1	-00.2	00.0	-01.7	-13.6	-05.9	-12.3	-13.1	-06.1	-03.7	-01.1	-00.1	-04.8
51	00.3	01.2	00.9	00.8	-04.3	-05.4	-10.9	-08.1	-05.8	-04.3	-03.5	-00.3	-03.3

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
52	00.4	01.2	-00.2	-04.6	-11.6	-10.0	-09.8	-05.8	-03.4	-02.9	-01.3	-00.2	-04.0
53	00.1	-00.5	-00.7	-04.1	-10.9	-07.2	-09.1	-05.6	-03.5	-02.0	-02.1	00.9	-03.7
54	00.3	01.4	00.1	-00.1	-03.1	-13.2	-09.3	-13.9	-10.3	-01.6	-00.6	-00.6	-04.2
55	01.4	02.5	-00.3	00.1	-02.6	-07.5	-07.4	-06.5	-03.6	-00.5	-00.7	-00.5	-02.1
56	00.2	01.1	00.9	-00.1	-00.3	-00.7	-05.9	-04.1	-05.1	-02.2	-00.6	-00.6	-01.5
57	00.6	01.5	01.5	-00.2	-03.2	-11.9	-08.7	-10.6	-03.3	-05.5	-01.0	-00.9	-03.5
58	00.5	-00.7	-01.2	-02.7	-14.8	-12.1	-14.9	-09.1	-04.1	-01.4	00.2	-00.2	-05.0
59	00.5	00.1	-00.3	-05.5	-06.4	-11.1	-17.7	-13.2	-06.6	-03.1	-01.5	-00.1	-05.4
60	00.6	01.7	01.5	-01.8	-04.3	-08.3	-10.8	-06.7	-03.6	-02.2	-01.5	00.3	-02.9
61	01.2	0.05	-00.2	-01.9	-04.6	-10.1	-11.4	-12.5	-08.5	-02.1	-01.3	-00.2	-04.3
62	01.1	01.0	-00.2	-00.4	-04.9	-03.2	-08.2	-06.4	-01.8	-00.2	-01.4	00.6	-02.0
63	01.5	01.5	-00.3	-02.1	-03.1	-07.2	-06.8	-10.1	-06.7	-07.0	-02.3	00.1	-03.5
64	00.5	00.6	-00.5	-05.1	-04.8	-07.8	-11.5	-13.8	-04.7	-00.8	-01.0	00.2	-04.1
65	01.3	01.8	01.7	-01.1	-01.2	-04.4	-09.6	-11.2	-04.9	-04.9	-01.3	-01.4	-02.9
66	-00.2	-01.2	-00.6	-03.3	-09.4	-10.2	-11.6	-07.0	-05.7	-03.6	-03.1	-00.7	-04.7
67	00.2	00.5	00.8	-01.8	-08.2	-10.1	-05.7	-08.2	-08.0	-04.0	-01.6	-00.5	-03.9
68	-00.7	00.8	-00.6	-01.9	-06.6	-09.6	-06.9	-06.5	-04.0	-01.1	-01.1	00.2	-03.2
69	01.4	01.3	-01.5	-02.8	-08.5	-10.3	-09.6	-09.5	-03.2	-03.5	-01.1	00.1	-03.9
70	-00.4	00.3	-02.4	-03.2	-06.1	-09.7	-07.1	-07.1	-02.0	-01.5	-00.6	00.3	-03.3
71	00.9	00.9	00.5	-02.0	-08.8	-05.9	-09.6	-06.2	-06.0	-02.1	-00.7	-01.7	-03.4
72	-00.3	-00.4	-01.0	-02.3	-05.6	-13.7	-09.7	-15.2	-05.4	-04.4	-03.1	00.4	-05.1
73	-01.0	00.2	00.4	-03.8	-10.8	-13.2	-09.6	-08.3	-08.1	-01.4	-01.4	00.4	-04.7
74	01.2	01.8	01.4	-02.5	-07.4	-09.7	-09.7	-11.9	-06.5	-02.2	-01.0	00.0	-03.9
75			-00.6	-01.7	-07.4	-14.4	-12.7						
76	01.0	01.7	00.6	-00.5	-02.9	-09.3	-10.2	-09.4	-07.9	-01.5	-00.4	00.0	-03.2
77	01.3	01.5	00.3	-00.6	-02.0	-03.1	-08.2	-08.4	-05.4	-03.1	-01.0	00.2	-02.4
78	00.8	01.5	-00.2	-01.8	-01.9	-05.5	-13.4	-07.3	-03.7	-01.5	-02.3	-00.4	-03.0
79	00.9	-01.0	00.8	-00.9	-07.6	-11.5	-09.4	-06.2	-05.5	-04.2	-02.5	-00.1	-03.9
80	00.9	01.4	-00.3	-06.3	-09.4	-13.4	-18.1	-13.4	-08.6	-03.8	-02.1	00.3	-06.1
81	00.5	01.0	-00.6	-01.2	-04.1	-07.1	-09.5	-11.0	-05.5	-07.2	-00.8	00.2	-03.8
82	01.3	01.6	01.3	-00.3	-01.0	-03.9	-13.4	-10.8	-06.4	-02.9	-02.8	00.4	-03.1
83	00.6	00.4	-00.5	-02.7	-06.4	-08.3	-04.7	-04.3	-08.7	-03.6	-00.3		-03.3*
MEAN	00.3	00.5	-00.3	-02.8	-06.6	-09.7	-10.5	-09.7	-06.4	-03.5	-02.0	-00.5	-04.3

MEAN MONTHLY SURFACE TEMPERATURES

GRYTVIKEN			54 16S			323 30E			(88903)					
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN	
5	04.6	05.3	04.3	01.8	-00.9	00.4	-03.7	-00.3	02.0	02.9	03.5	05.2	02.1	
6	06.0	04.8	04.6	03.2	00.2	-01.8	00.0	00.2	00.8	01.1	03.4	05.5	02.3	
7	07.2	08.4	06.1	03.2	03.0	-00.5	-01.8	-05.0	-01.8	00.5	02.7	02.8	02.1	
8	04.7	06.3	06.5	03.5	01.0	-02.6	-02.5	00.4	02.3	01.5	04.0	02.8	02.3	
9	05.9	04.5	04.5	02.4	00.9	-01.4	-01.7	00.3	-00.5	02.0	03.1	04.0	02.0	
10	05.9	05.7	04.7	02.6	00.5	-00.7	-00.8	-00.9	00.2	01.3	03.8	02.8	02.1	
11	04.4	05.8	04.9	01.2	00.6	-02.1	-02.0	-01.5	00.1	02.3	00.7	02.0	01.4	
12	05.3	05.6	03.6	01.2	01.1	-01.4	-03.6	-02.7	00.8	01.2	02.7	02.9	01.4	
13	03.8	04.5	02.9	01.7	01.6	-03.1	-03.8	-02.3	01.2	02.3	01.7	03.9	01.2	
14	05.1	06.3	05.3	04.1	02.4	-00.5	-02.7	-01.5	00.5	00.8	01.9	05.2	02.2	
15	05.2	04.7	05.0	02.8	-00.6	-02.2	-02.5	-03.3	01.8	01.5	03.6	03.7	01.6	
16	05.6	05.4	03.4	02.8	-00.6	-01.4	-03.4	-01.6	00.7	01.2	03.2	04.4	01.6	
17	05.7	06.1	05.5	03.6	01.7	-00.5	-01.2	-01.6	-01.6	02.4	05.6	04.4	02.5	
18	06.7	06.8	05.0	03.4	-01.1	-01.7	-01.4	-04.4	00.6	04.7	03.1	05.4	02.3	
19	04.1	06.4	04.8	00.8	-02.2	-00.7	00.4	-00.2	00.9	01.9	01.9	04.2	01.9	
20	03.9	04.7	03.1	02.8	-00.1	-02.6	-01.2	-02.0	00.6	-00.8	01.9	03.9	01.2	
21	04.8	04.4	04.1	02.3	-02.7	-01.6	-00.1	-02.2	00.8	02.4	02.4	02.6	01.4	
22	05.1	05.0	04.3	03.9	-01.7	-01.4	00.4	00.2	00.2	01.9	05.1	04.2	02.3	
23	03.5	06.1	04.0	02.2	00.9	-00.6	-02.3	-03.0	00.0	00.8	02.3	02.6	01.4	
24	04.1	03.5	05.1	-00.1	-00.9	-01.5	-02.7	-01.4	00.2	02.6	02.9	03.8	01.3	
25	04.3	04.5	03.9	03.0	00.7	-01.2	-00.7	-01.6	-00.9	01.3	02.4	04.3	01.7	
26	03.4	05.4	03.3	00.8	-00.8	-03.2	-02.1	-00.5	-01.2	-00.8	03.4	04.6	01.0	
27	04.0	03.8	03.8	01.8	00.7	-01.3	-01.0	-03.8	-02.7	00.6	00.9	03.4	00.9	
28	05.6	05.4	04.8	-00.5	-02.0	-04.1	-03.1	-00.4	00.7	01.0	02.6	02.5	01.0	
29	03.2	05.9	03.5	02.1	00.2	-01.2	-00.9	-02.2	00.0	02.5	04.6	03.2	01.7	
30	05.8	05.2	04.6	01.7	00.6	-03.4	-02.7	-02.5	-00.7	-00.4	03.1	03.8	01.3	
31	02.6	03.5	04.4	02.3	-00.2	00.2	00.6	00.1	-00.1	01.8	02.3	03.1	01.7	
32	05.0	03.8	04.6	00.3	-00.3	-04.7	-02.7	-00.9	01.2	02.1	04.2	04.7	01.4	
33	03.6	05.0	05.1	03.0	01.3	-00.9	-00.3	-01.2	00.8	00.7	02.7	02.6	01.9	
34	05.0	04.1	03.8	02.9	-00.5	-03.8	-01.2	00.2	-00.2	03.8	03.3	03.5	01.7	
35	03.0	04.8	04.9	01.1	-00.7	-01.8	-02.9	-02.7	-03.9	01.6	02.2	03.1	00.7	
36	03.6	05.5	04.6	04.6	-00.9	-01.6	-01.5	-02.4	-00.7	02.5	04.5	05.4	02.0	
37	04.8	03.6	05.7	02.6	01.5	-01.0	-01.6	-03.4	02.0	01.1	03.5	03.5	01.9	
38	04.8	05.0	04.6	03.4	00.6	-01.1	-01.5	-02.9	-01.2	03.0	02.8	03.0	01.7	
39	03.8	05.9	03.4	02.9	-01.5	-01.9	-02.3	-06.0	-00.9	01.7	01.7	03.5	00.9	
40	03.8	05.5	05.7	03.6	02.8	-00.7	0.00	-01.5	00.6	00.4	03.2	04.5	02.3	
41	05.0	06.0	03.0	02.4	-01.2	-00.2	-01.6	-02.0	-00.6	00.8	02.8	03.3	01.5	
42	05.1	06.7	03.9	02.0	00.8	-01.4	00.2	00.9	-02.0	-00.8	00.6	04.3	01.7	
43	03.8	04.6	05.3	04.2	-00.4	01.1	00.5	-01.2	00.3	01.9	02.6	04.0	02.2	
44	04.7	04.7	06.2	01.5	01.8	-00.3	-02.8	-01.0	-00.1	00.5	01.0	02.8	01.6	
45	03.8	04.8	03.8	01.7	-01.4	-03.9	-00.7	-01.7	-02.0	02.4	00.8	02.7	00.9	
46	06.0	06.3	04.0	01.5	00.8	-02.7	-02.5	-02.2	-01.5	01.9	01.4	02.8	01.3	
47	04.3	05.4	04.6	04.1	-00.2	-01.7	-01.3	-01.9	02.3	02.8	05.4	04.2	02.3	
48	04.4	05.1	05.4	02.3	-00.3	-00.5	-02.1	-03.5	-01.1	01.9	02.5	03.3	01.5	
49	03.9	04.7	04.4	01.8	00.8	00.9	00.9	-01.4	02.3	02.5	01.9	03.7	02.2	
50	02.3	05.3	03.9	02.3	-02.7	-00.9	-02.1	-03.1	-00.9	-00.1	02.6	03.5	00.8	
51	04.5	06.3	04.4	05.2	00.9	-00.2	-01.7	-02.5	00.2	00.2	00.9	03.4	01.8	
52	03.8	05.2	05.6	00.9	00.3	-02.6	-01.3	-01.1	-00.1	01.7	04.1	04.2	01.7	
53	04.1	05.1	04.1	02.2	-01.1	01.2	-01.1	-00.6	-00.5	02.7	03.1	04.9	02.0	

	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
54	04.6	06.3	03.6	05.6	01.3	-01.2	-01.0	-04.3	-01.6	02.4	05.0	02.3	01.9
55	04.3	06.9	04.9	03.3	02.1	-00.8	-00.3	-01.2	-0.00	02.8	02.7	03.7	02.4
56	04.0	05.4	04.9	01.9	02.2	01.5	-01.2	00.7	00.3	03.3	04.3	03.3	02.5
57	03.9	05.6	07.4	04.1	02.8	-00.8	-00.3	-03.5	00.6	01.7	04.1	02.7	02.4
58	05.4	03.2	03.6	02.7	-00.8	-01.2	-02.4	00.5	01.6	02.4	04.2	03.4	01.9
59	04.9	03.7	04.7	01.7	-00.3	-01.9	-03.4	-03.3	-00.3	00.8	02.8	04.4	01.2
60	05.3	05.4	06.8	02.2	00.6	-02.0	-02.1	01.1	-01.4	01.9	04.2	02.8	02.1
61						-09.7						04.0	
62	05.7	05.4	05.4	02.9	-00.1		-00.6	-01.5	01.5	02.3	02.8	04.7	02.3*
63	06.3	07.1	04.8	02.1	00.0	-07.1	-01.5	-02.1	-01.2	-00.7	02.7	06.0	01.4
64	04.3	05.4	03.6	01.2	-01.0	-01.4	-03.9	-02.2	00.7	04.7	02.1	02.3	01.3
65	05.1	04.6	05.2	01.3	00.5	-00.1	-00.3	-01.5	01.0	02.6	05.4	03.8	02.3
66	06.5	04.5	04.5	03.5	00.3	-02.3	-01.8	00.7	-00.7	00.6	00.5	02.7	01.6
67	03.1	05.0	04.9	03.1	00.6	-00.3	-00.3	-01.2	00.1	01.1	03.8	03.5	02.0
68	05.8	05.7	04.3	02.3	-00.7	-00.4	01.4	00.2	00.3	01.7	03.3	05.1	02.4
69	03.5	05.6	03.6	04.3	01.7	00.9	-01.1	-00.9	00.3	03.5	04.5	05.4	02.6
70	04.7	04.5	02.8	01.6	00.8	00.2	-01.4	-00.7	00.6	02.1	04.3	04.9	02.0
71	04.9	05.7	04.9	02.8	-00.4	-00.8	-02.5	00.1	01.5	02.0	03.9	03.2	02.1
72	04.0	04.9	04.9	03.3	00.2	-02.5	-01.0	-03.0	00.3	00.9	01.4	05.3	01.6
73	04.3	03.9	06.6	02.7	00.5	-01.9	-01.8	00.5	00.8	02.3	03.2	04.6	02.1
74	06.0	07.6	06.3	02.3	-00.2	-01.8	-01.4	-01.8	00.5	02.1	02.7	03.7	02.2
75	05.3	05.7	04.5	04.4	00.8	-00.6	-02.3	-00.7	00.6	02.4	03.0	04.1	02.3
76	04.1	06.7	05.0	02.5	00.6	-02.5	-01.2	-01.1	-00.3	03.8	03.6	02.5	02.0
77	05.5	06.3	03.7	02.2	01.1	-00.4	-02.8	00.4	00.7	01.7	04.1	03.8	02.2
78	06.0	06.8	04.2	01.3	-01.7	-00.5	-02.3	01.6	03.5	03.4	02.0	04.1	02.4
79	05.9	05.6	06.3	03.7	-00.7	-01.5	00.2	-00.5	01.4	01.5	01.8	03.3	02.3
80	05.2	05.9	03.7	03.1	00.9	00.0	-03.6	-03.3	-00.7	02.6	03.2	03.9	01.7
81	05.8	07.4	03.2	03.5	00.5	-00.7	-00.6	00.4	00.8	00.6	05.1	05.2	02.6
82	07.0	06.6											
MEAN	04.7	05.4	04.6	02.5	00.2	-01.5	-01.5	-01.5	00.1	01.7	03.0	03.8	01.8

MEAN MONTHLY SURFACE TEMPERATURES

TRISTAN DA CUNHA

37 03S

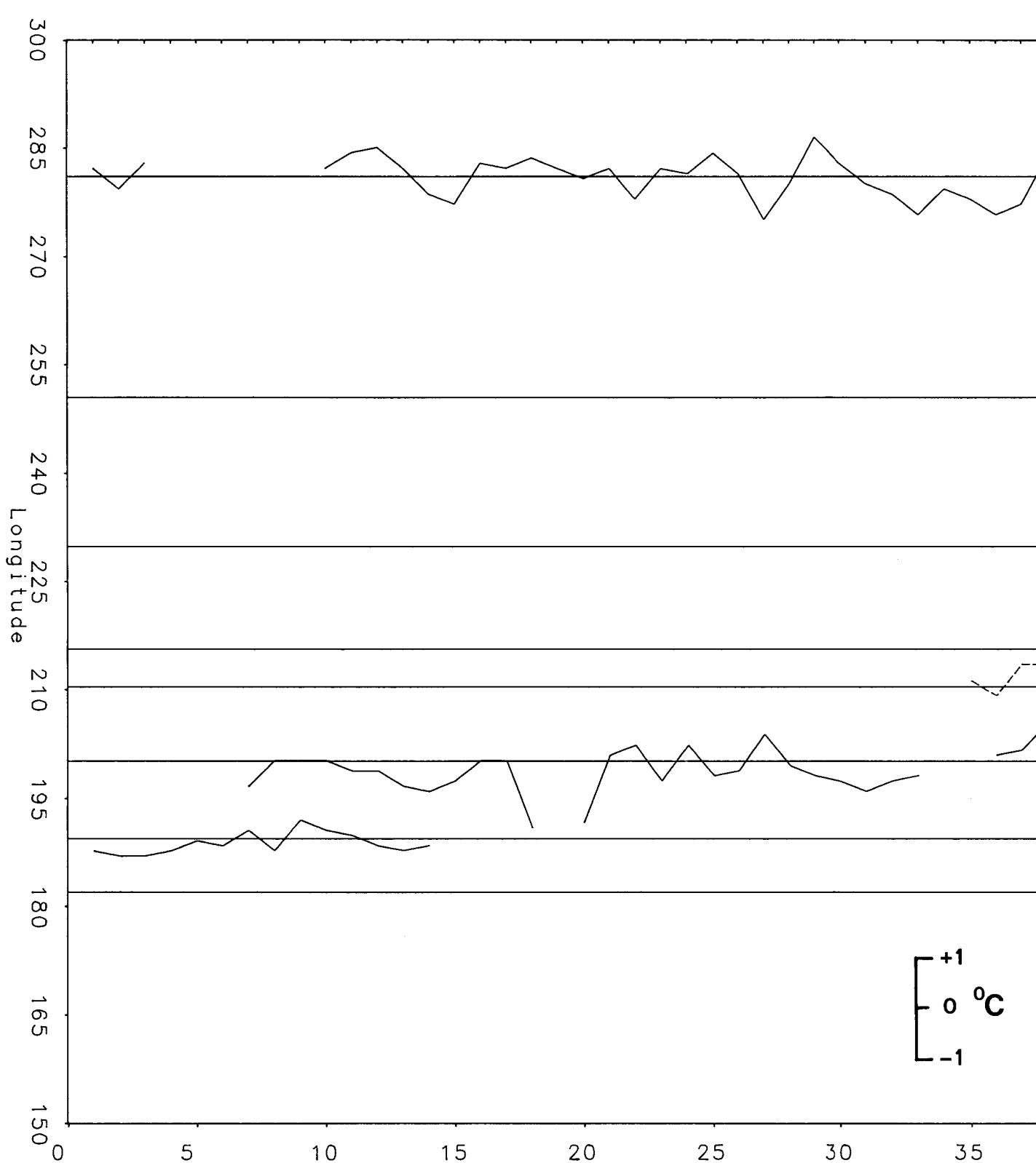
347 41E

(68902)

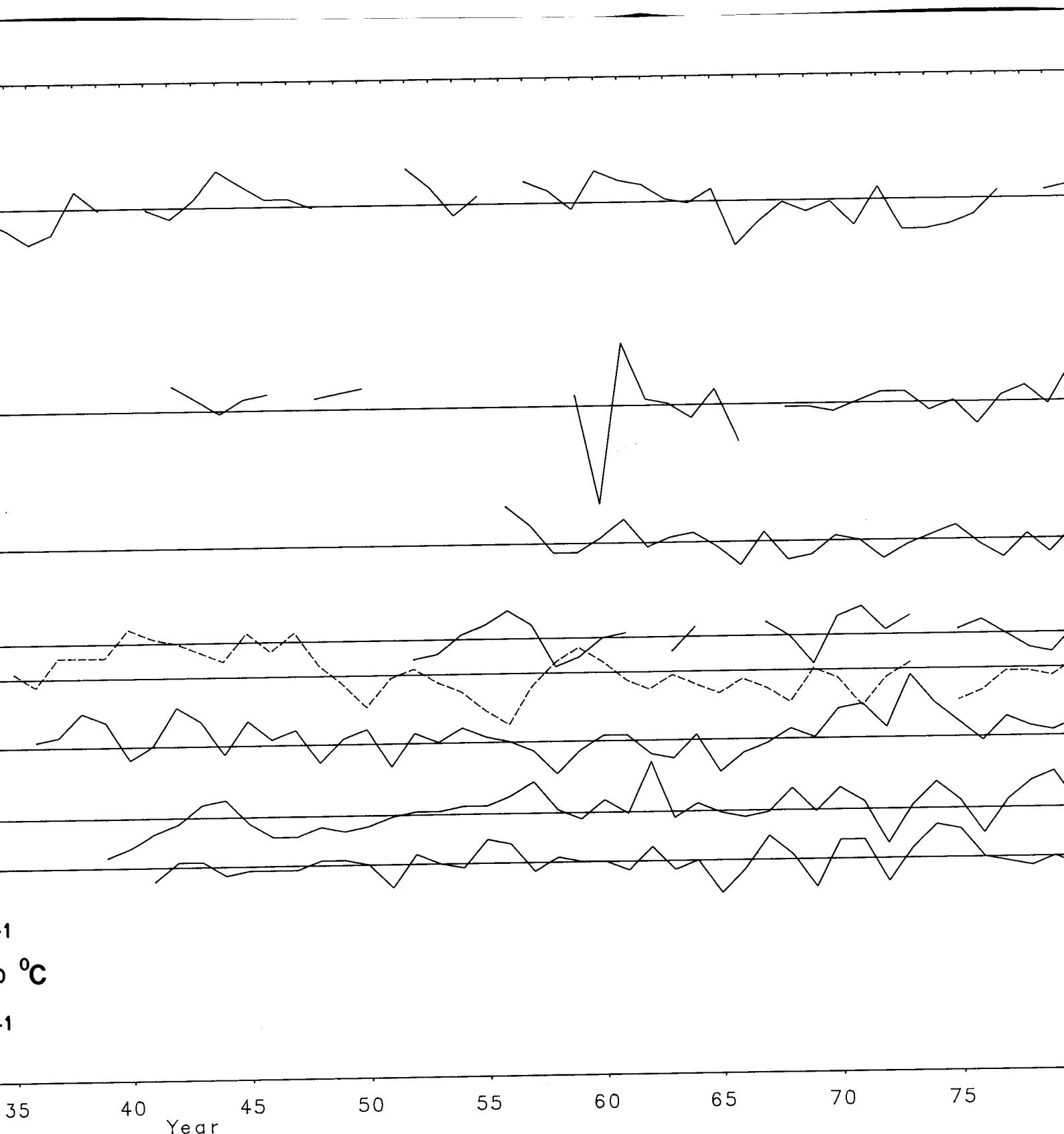
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN
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43	17.4	18.6	17.1	16.8	14.9	11.3	11.7	11.8	10.8	12.2	14.7	16.3	14.5
44	16.8	17.6	15.8	16.4	12.2	12.4	11.8	11.2	11.4	11.8	13.2	15.0	13.8
45	17.2	15.7	15.9	14.8	13.7	13.6	11.9	10.8	11.3	12.8	14.1	14.7	13.9
46	16.2	18.3	16.9	16.0	13.7	12.7	11.9	11.7	10.7	12.2	14.3	15.4	14.2
47	17.6	17.7	16.4	15.4	13.5	12.3	12.6	11.2	12.1	13.9	14.3	17.2	14.5
48	17.3	18.7	17.3	15.7	13.5	12.4	12.2	11.3	11.1	12.5	14.7	16.5	14.4
49	16.8	18.6	17.8	17.1	14.5	12.3	11.9	12.2	12.4	11.6	14.4	15.7	14.6
50													
51							12.9	11.5	11.1	12.5	13.3	15.3	
52					16.8	13.6	12.5	11.6	10.7	12.1	12.3	13.7	17.3
53	18.5	18.6	16.8	15.8	14.6	11.9	12.0	11.6	12.5	12.7	14.8	16.0	14.7
54	18.4	18.5	18.2	16.1	14.7	13.5	12.3	11.9	11.7	12.5	15.3	17.1	15.0
55	18.1	18.5	18.2	17.1	14.5	13.2	12.0	11.2	11.0	13.3	14.1	16.8	14.8
56	16.3	17.3	16.4	16.4	15.2	13.2	12.4	11.4	12.1	12.5	15.1	16.6	14.6
57	17.5	18.6	17.2	14.3	13.1	12.8	12.4	11.8	11.2	12.7	12.8	15.2	14.1
58	16.6	17.9	17.3	15.0	14.0	13.9	11.1	12.0	12.3	13.4	14.1	16.7	14.5
59	18.1	18.8	17.7	15.2	13.4	13.1	12.0	12.3	11.8	13.1	14.1	16.5	14.7
60	18.3	18.3	16.4	17.7	15.9	13.2	12.2	11.7	11.8	12.2	14.9	16.6	14.9
61	17.6	18.1	18.1	16.0	14.9	13.1	12.5	11.5	10.7	16.0			
MEAN	17.4	18.1	17.1	16.0	14.1	12.8	12.1	11.5	11.5	12.8	14.2	16.2	14.5

MEAN MONTHLY SURFACE TEMPERATURES

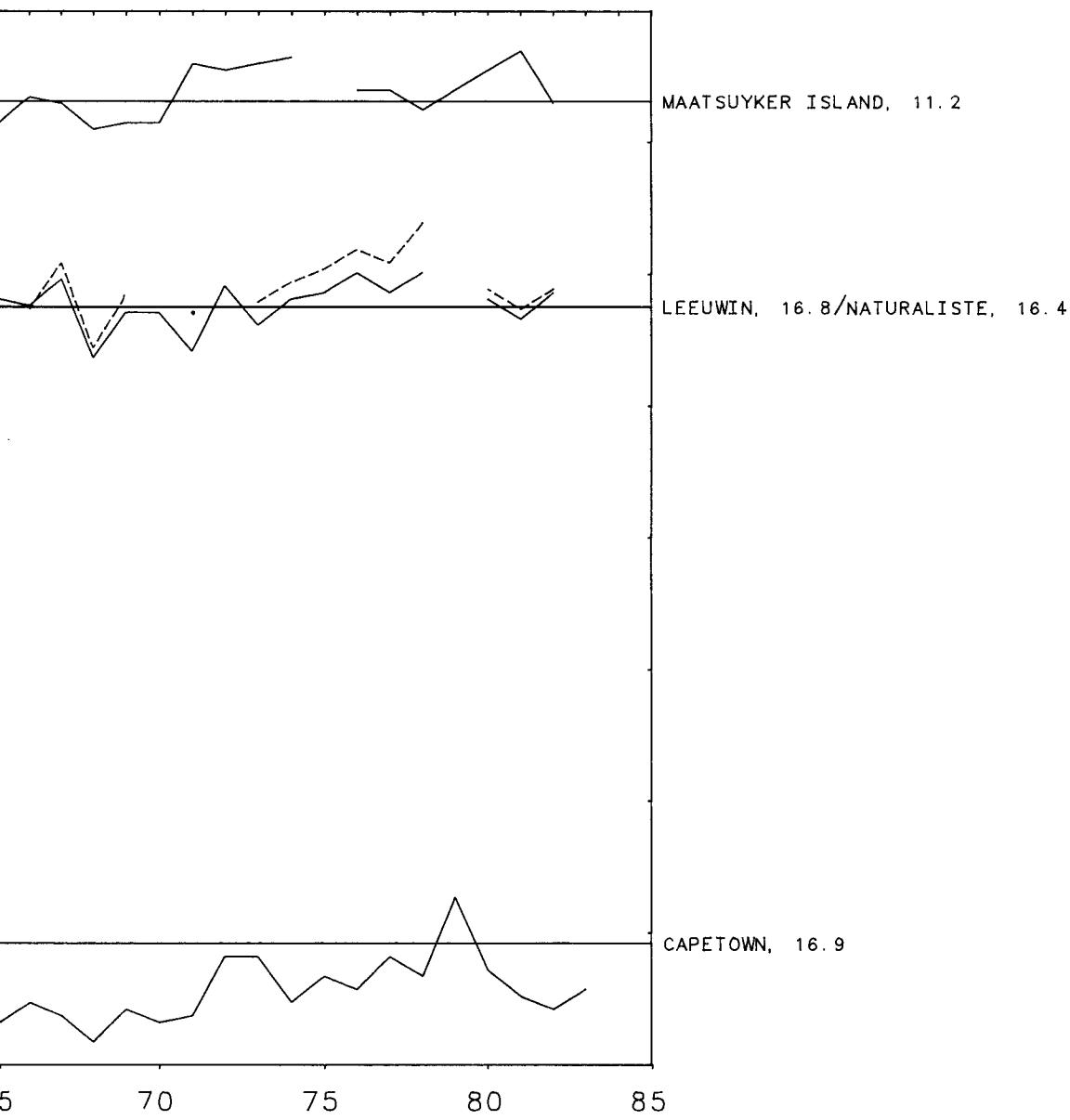
COUGH ISLAND				40 21S			350 07E			(68906)				
	J	F	M	A	M	J	J	A	S	O	N	D	MEAN	
56	13.6	14.6	12.9	12.7	11.3	10.3	10.1	09.0	10.4	10.3	13.0	14.2	11.9	
57	15.1	15.0	13.6	11.5	10.4	10.7	10.1	09.6	08.8	10.4	10.0	13.3	11.5	
58	13.9	14.6	14.4	12.2	11.6	11.0	09.0	09.6	10.1	11.0	11.6	14.0	11.9	
59	14.6	16.2	14.5	12.0	10.8	10.6	09.2	09.9	09.1	10.3	11.4	14.2	11.9	
60	14.5	14.7	12.4	14.5	13.3	10.7	09.7	09.7	10.0	09.7	12.7	14.2	12.2	
61	14.7	14.1	15.0	13.4	11.7	10.5	09.6	09.1	08.3	09.4	12.3	13.7	11.8	
62	14.5	15.8	14.8	12.6	11.9	08.3	08.9	08.2	08.5	09.4	11.7	13.5	11.5	
63														
64		12.1		11.8		09.0	07.3	08.6	08.3	08.8	12.3	13.1		
65	13.9	13.3	12.4	12.6	10.8	09.2	09.2	07.8	09.0	11.0	11.7	12.3	11.1	
66	13.3	15.7	12.6	11.6	11.1	10.4	09.1	08.5	09.8	10.4	11.0	12.1	11.3	
67	12.7	14.3	13.4	12.3	10.5	09.0	08.0	07.9	09.3	09.7	10.4	12.8	10.9	
68	14.3	16.4	14.2	13.0	12.8	10.6	08.4	08.1	09.6	09.0	11.1	12.3	11.7	
69	13.2	13.1	13.6	11.8	12.0	08.9	09.4	08.7	09.6	10.8	11.3	12.9	11.3	
70	13.9	14.2	13.6	13.3	10.3	09.5	08.7	09.8	08.9	10.5	11.9	13.1	11.5	
71	14.0	14.0	12.7	12.8	10.9	09.3	09.1	09.2	09.2	10.1	12.3	14.5	11.5	
72	13.1	14.0	13.6	11.8	10.8	10.5	09.7	08.9	10.0	10.7	11.7	11.2	11.3	
73	12.6	14.1	12.8	12.1	11.1	09.7	08.1	08.9	08.7	10.0	13.2	14.1	11.3	
74	14.7	15.5	14.6	14.1	12.0	09.5	08.9	09.3		10.2	12.1	13.1	11.9*	
75	15.3	15.7	14.3	13.1	10.8	10.2	09.4	10.1	09.0	09.6	14.7	14.1	12.2	
76	14.8	14.1	14.4	13.3	11.4	10.5	10.0	09.6	08.8	10.6	12.0	13.1	11.9	
77	13.6	13.2	15.2	12.8	11.4	10.1	08.5	08.0	10.1	09.7	11.8	12.3	11.4	
78	14.6	13.8	12.6	13.5	11.5	11.1	09.6	08.6	08.8	09.9	13.1	13.3	11.7	
79	14.4	14.9	13.2	13.0	15.5	08.3	09.6	08.5	10.0	10.6	12.9	13.4	12.0	
80	15.5	15.4	14.2	12.0	10.3	09.9	09.5	08.9	10.3	11.0	12.0	13.6	11.9	
81	14.8	15.2	15.9	12.1	10.6	10.7	08.8	09.8	09.5	10.7	11.2	14.1	12.0	
82	14.7	15.4	15.1	14.3	10.7	09.8	10.6	10.0	09.2	11.3	12.4	11.9	12.1	
83	12.6	14.3	15.1	13.2	10.1	09.6	09.2	09.2	08.4	18.0	11.8	12.7	12.0	
84	13.5	14.0	13.4	11.9	10.5	09.6								
MEAN	14.1	14.6	13.9	12.7	11.3	09.9	09.2	09.0	09.3	10.5	12.0	13.2	11.7	

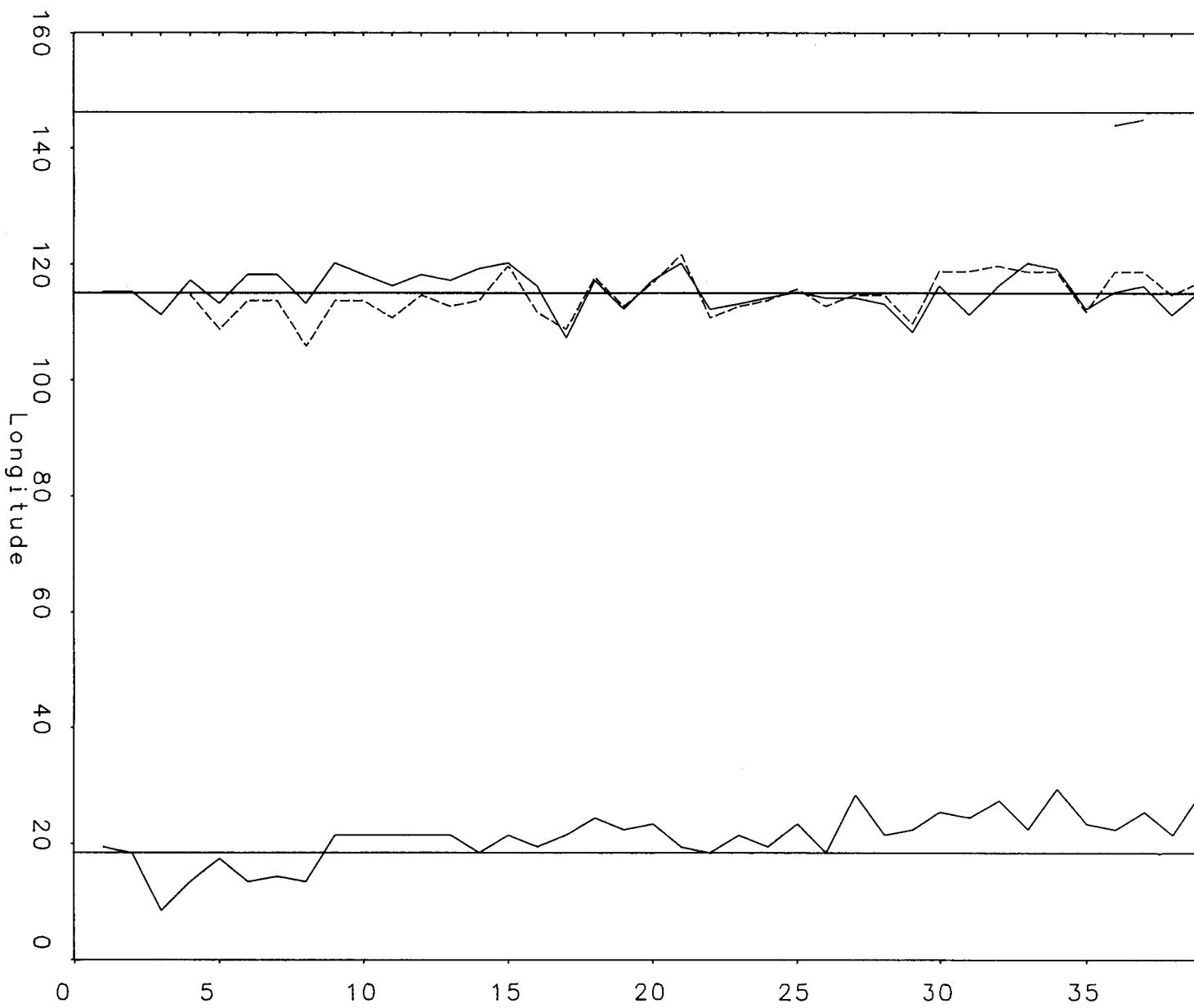


Appendix VIII Plots of annual
Pacific Ocean stations

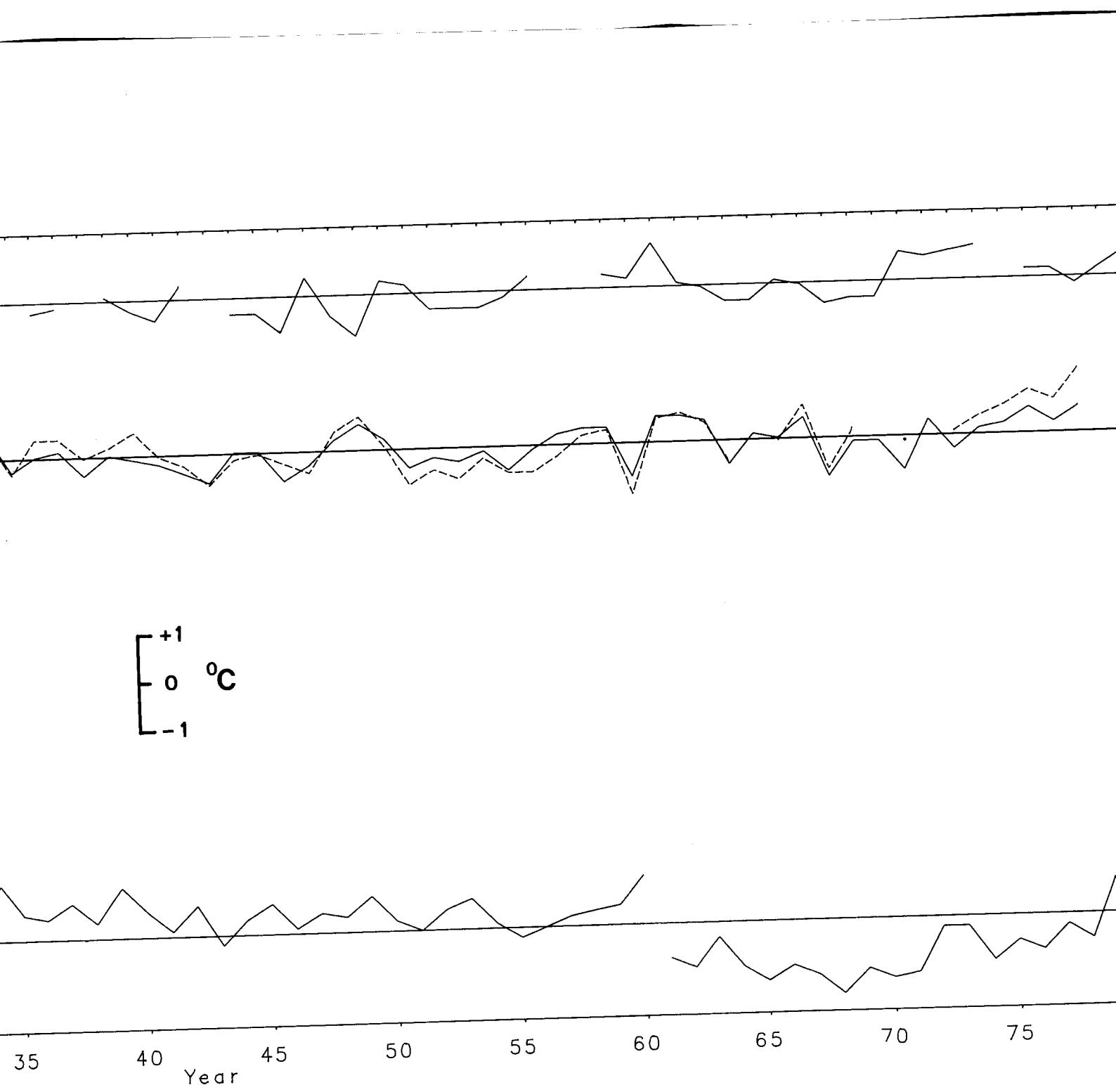


s of annual mean temperature anomalies since 1901 for South
ons

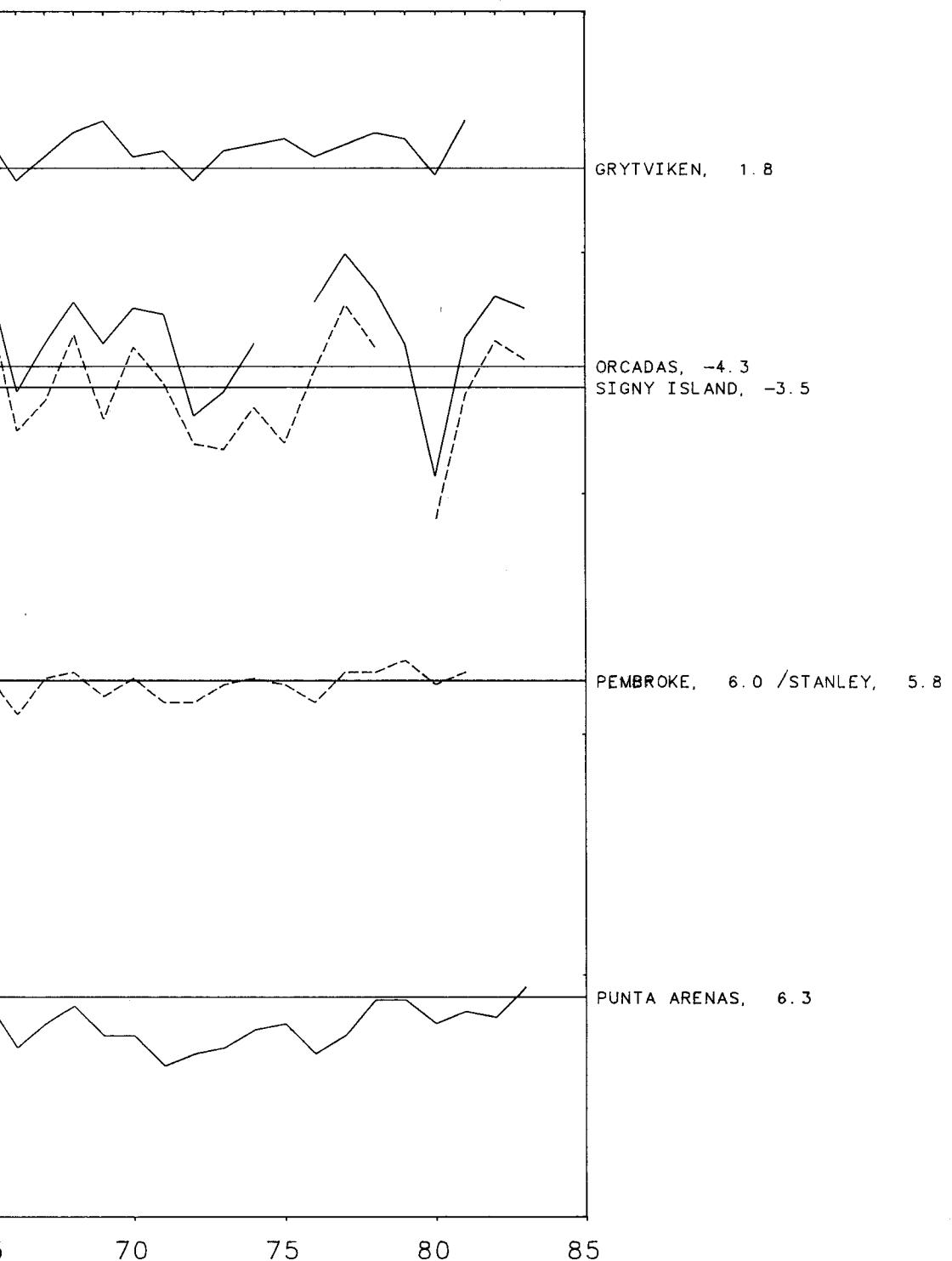


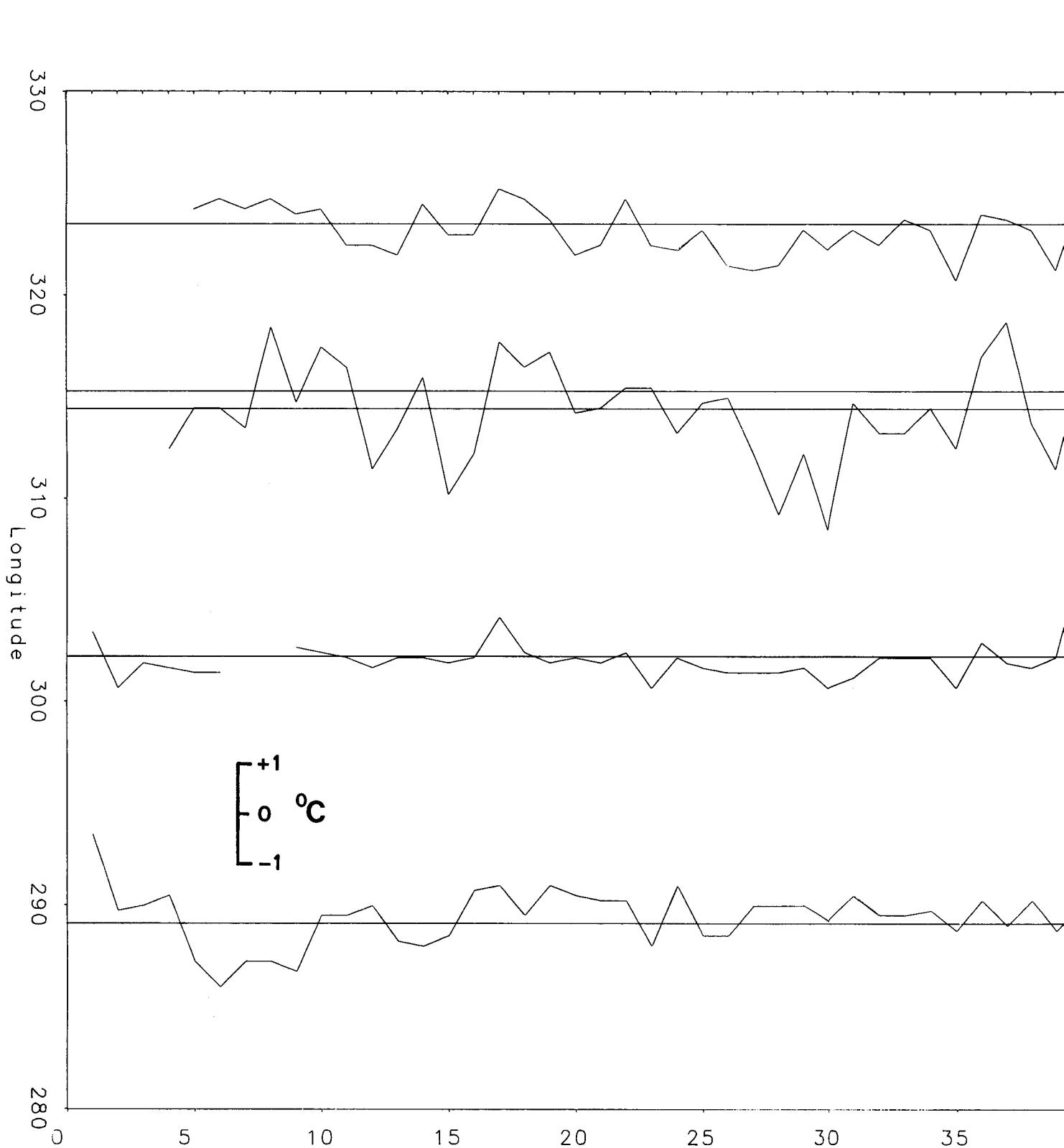


Appendix VII Plots of annual
Town and Australian stations

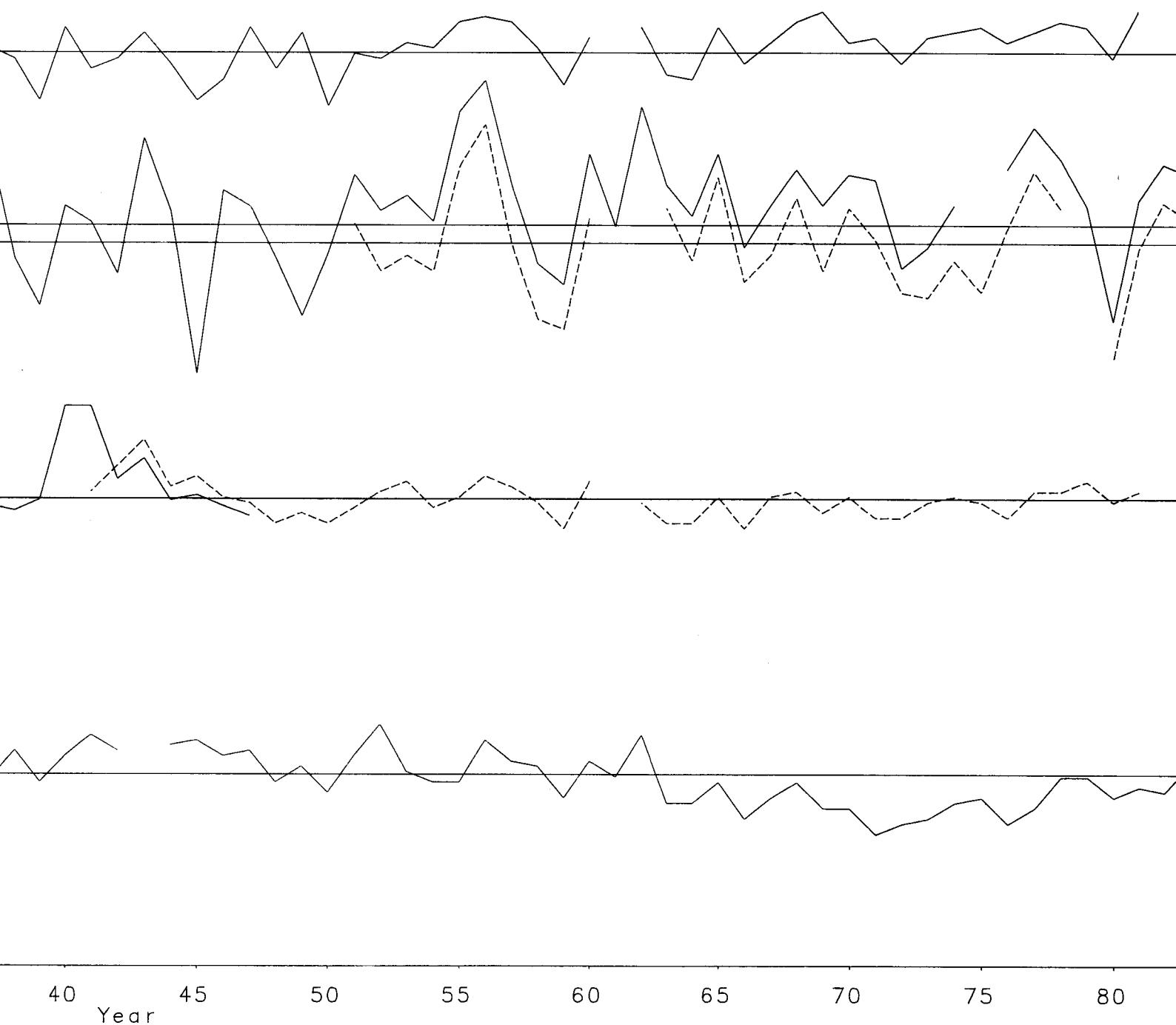


Graphs of annual mean temperature anomalies since 1901 for Cape Town stations

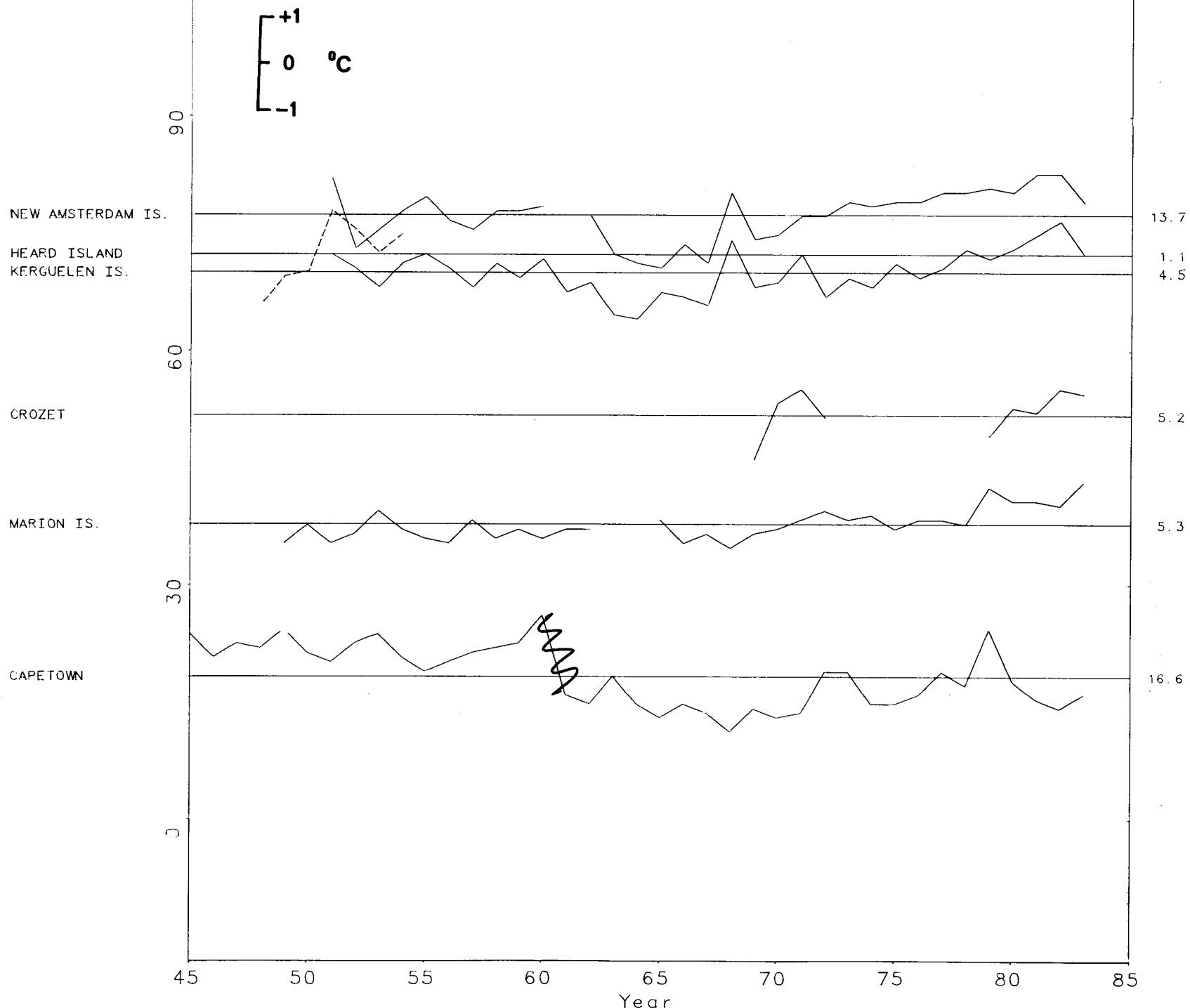




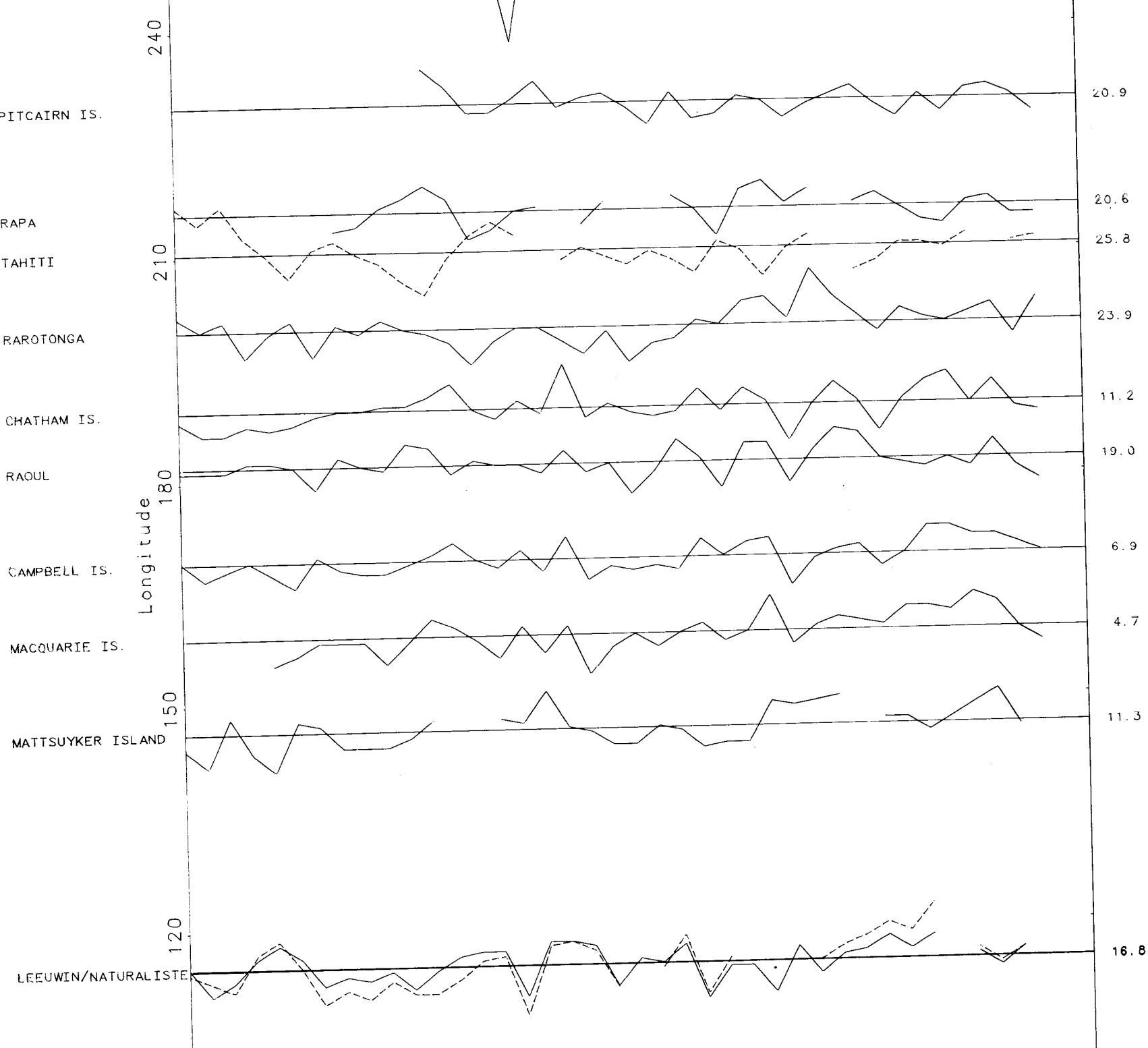
Appendix VI Plots of annual mean
American - South Atlantic Ocean

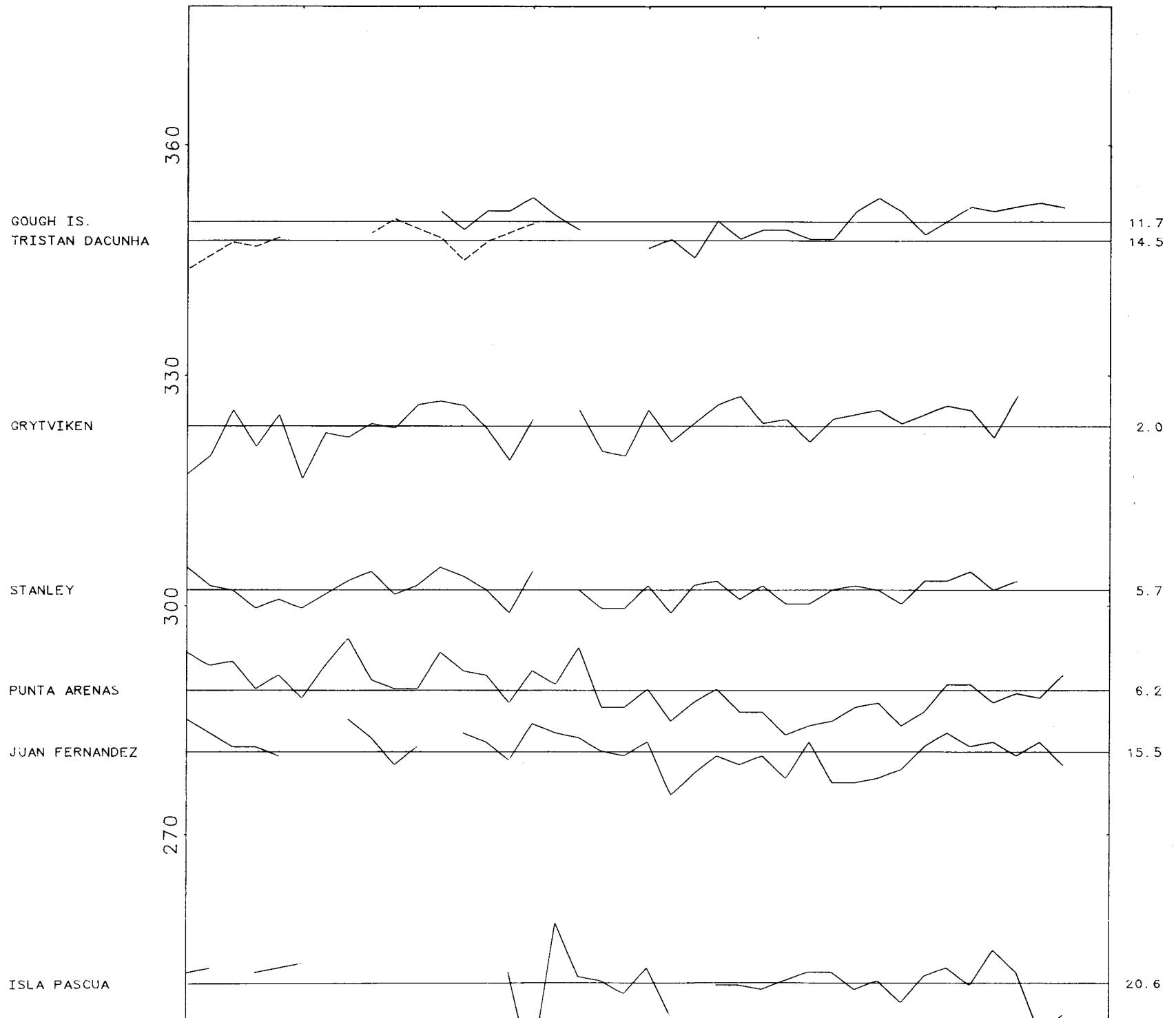


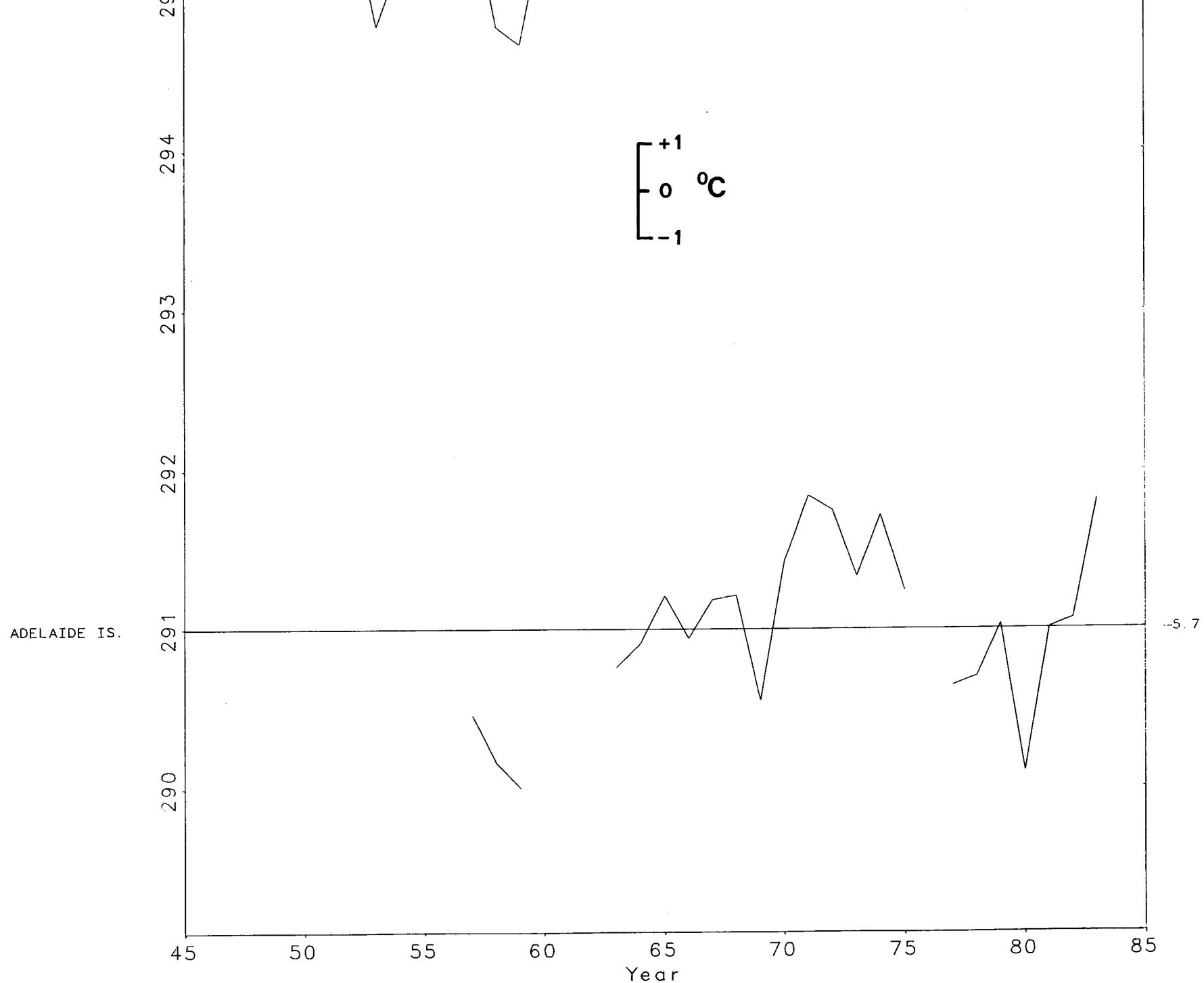
Annual mean temperature anomalies since 1901 for South
Ocean stations



Appendix V Plots of annual mean temperature anomalies for Southern Ocean and South Pacific Ocean stations







Appendix IV Plots of annual mean temperature anomalies for Antarctic Peninsula

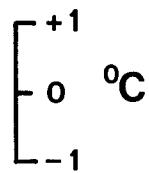
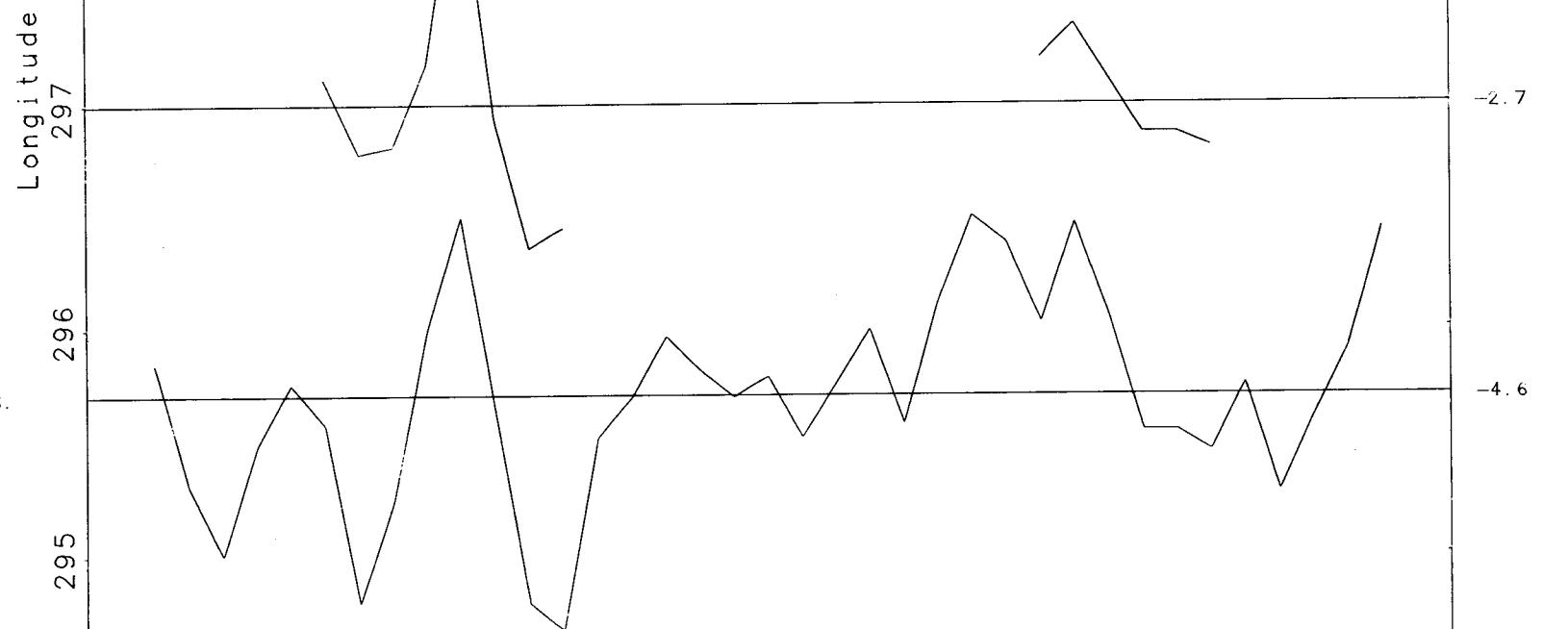
MATTENZO

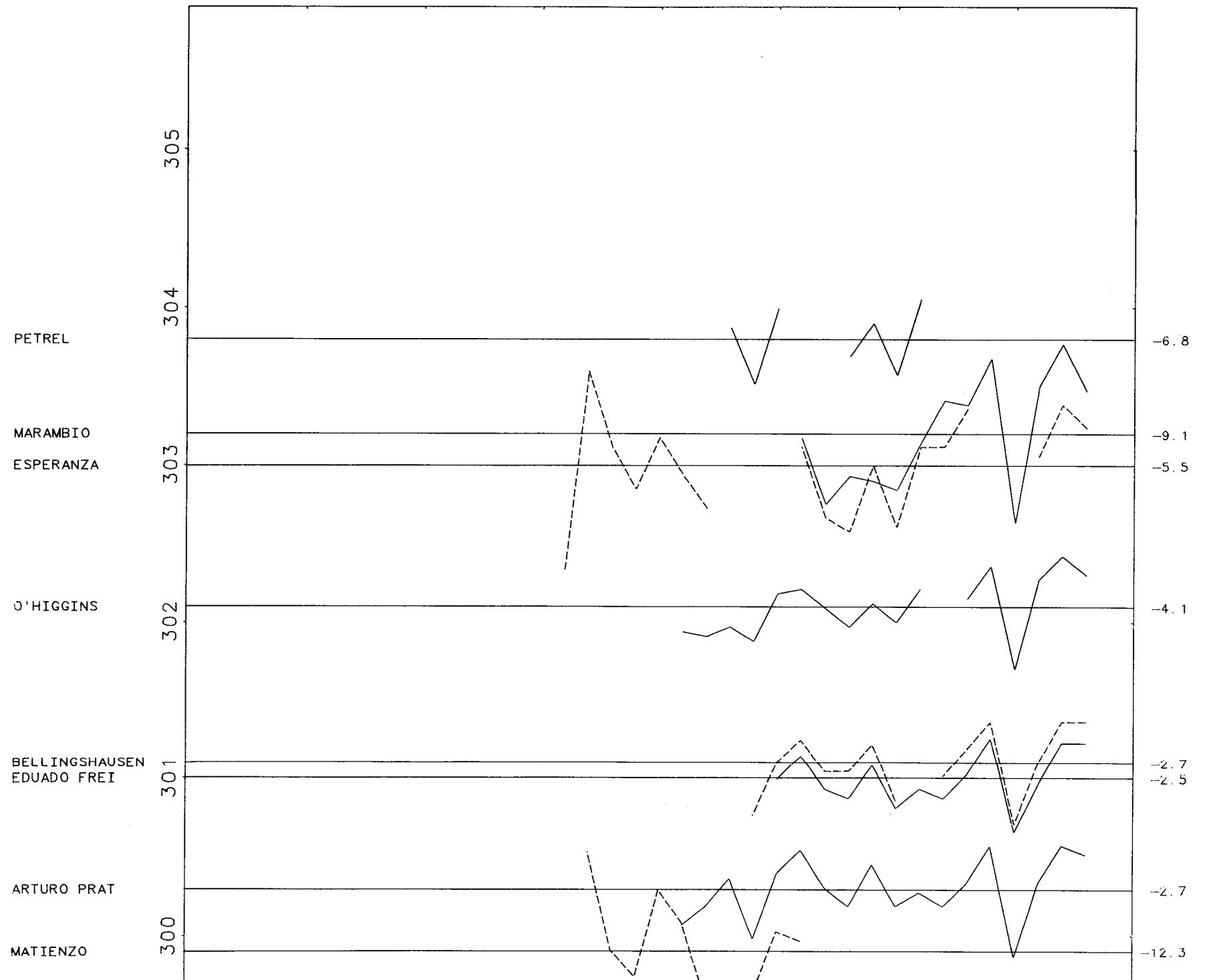


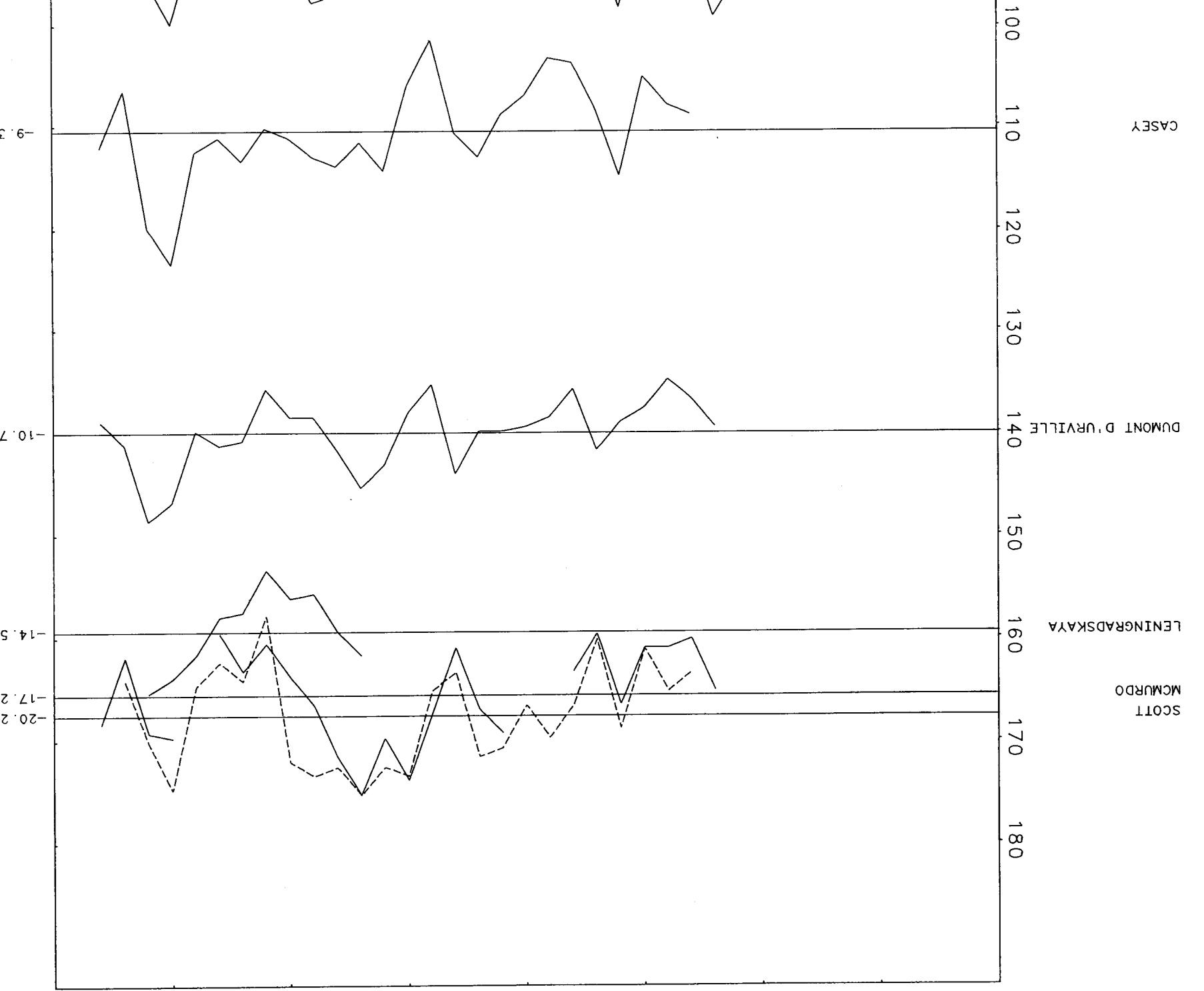
BROWN

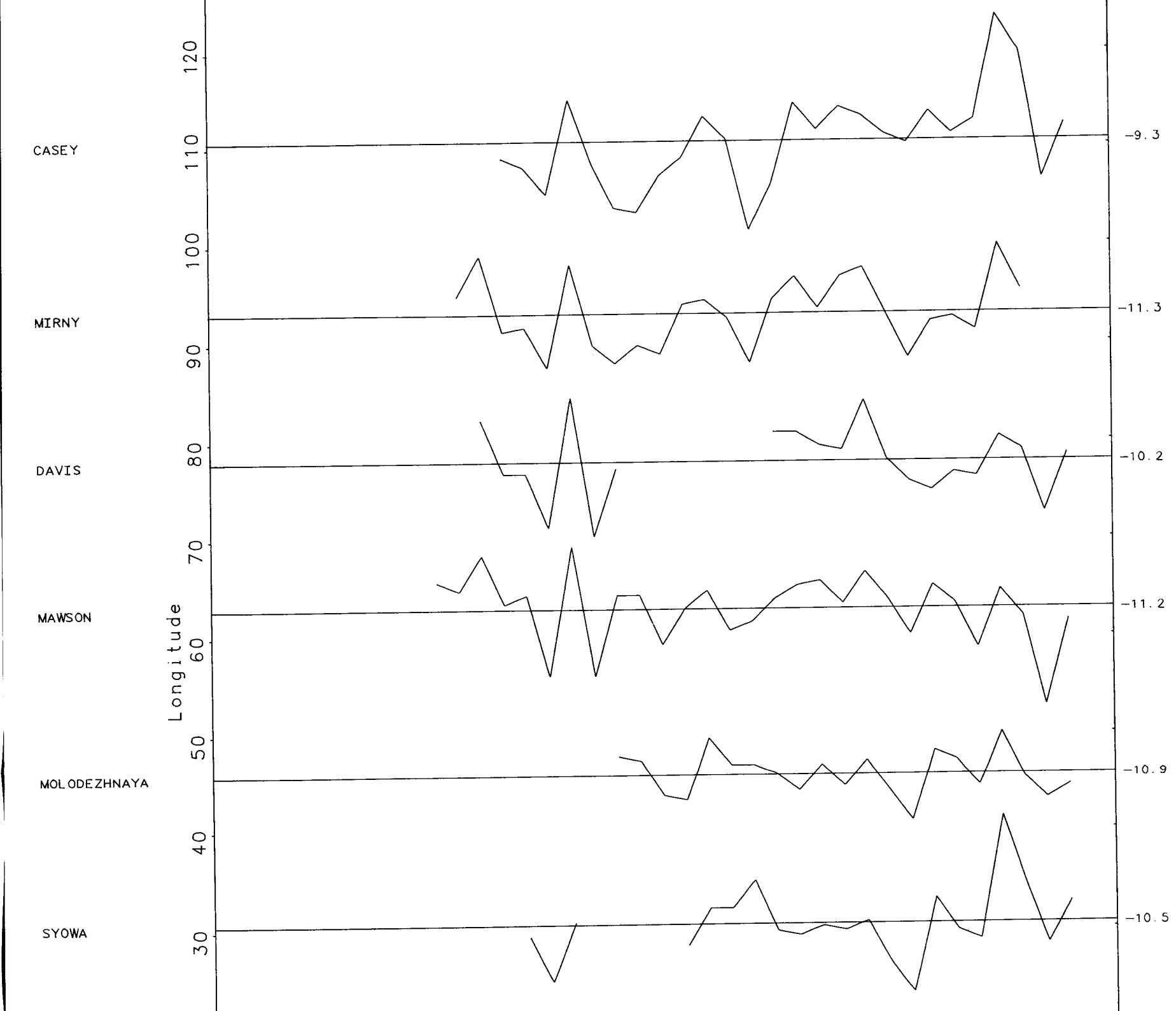


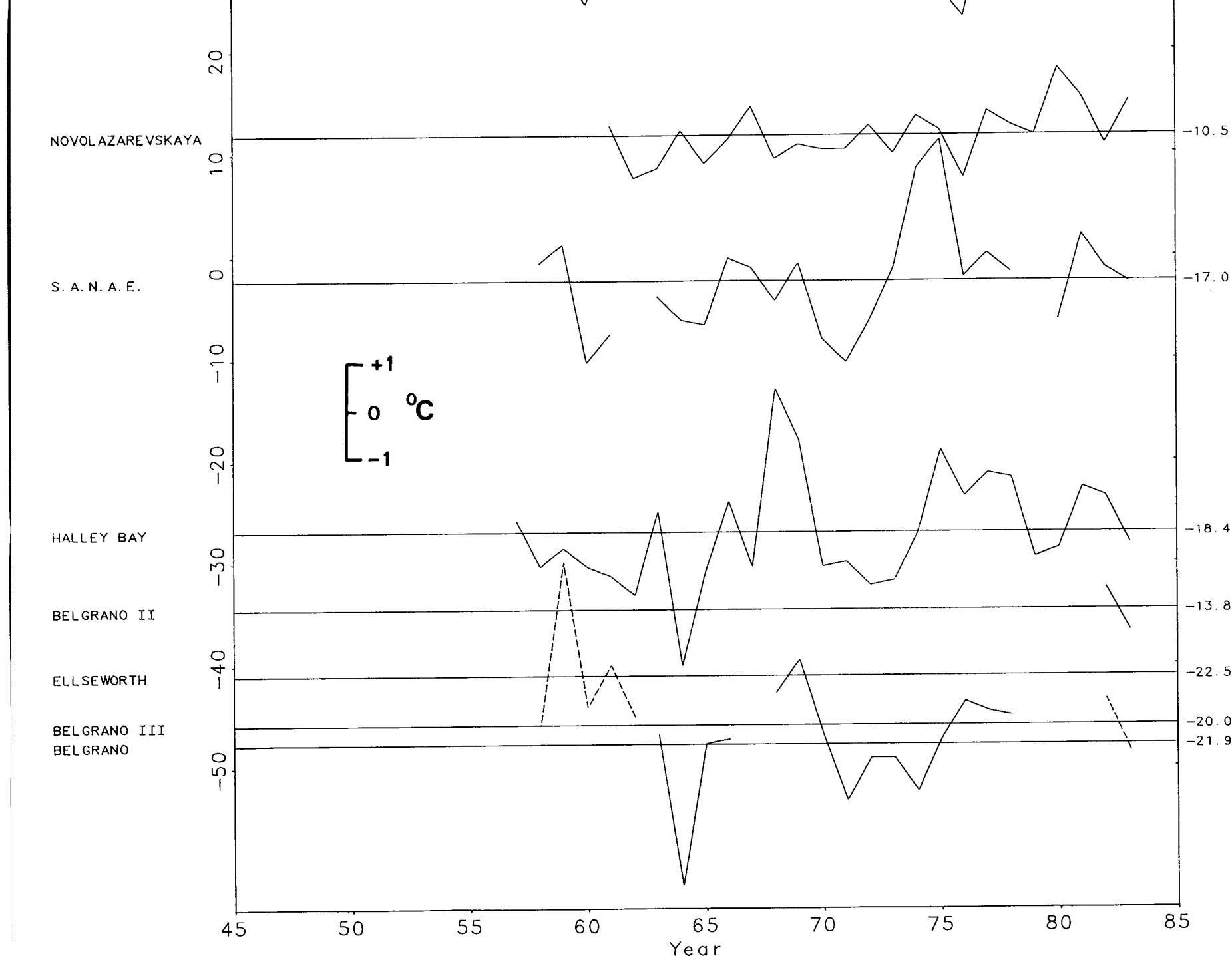
ARGENTINE IS.



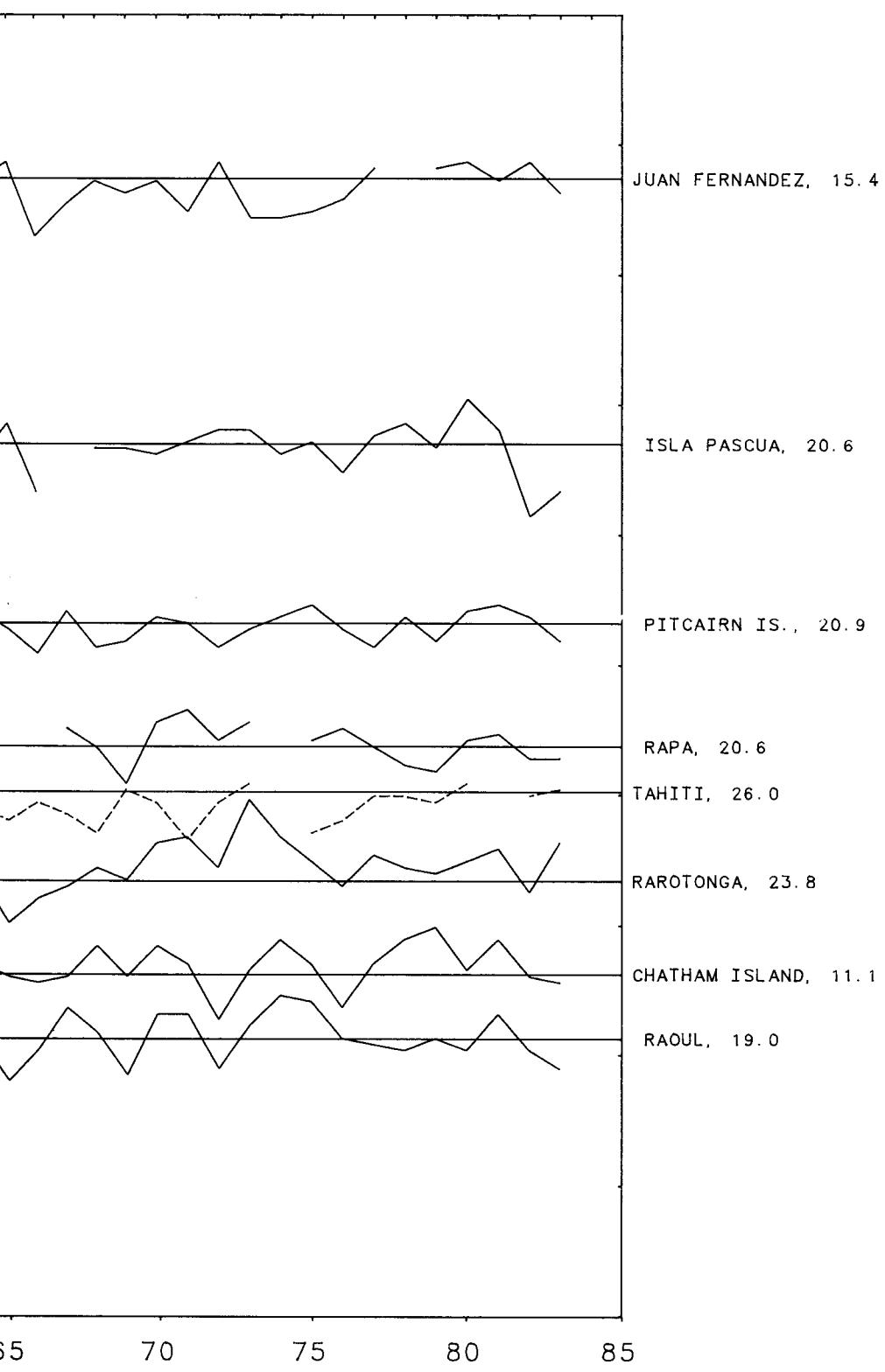








Appendix III Plots of annual mean temperature anomalies for coastal Antarctic stations.



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