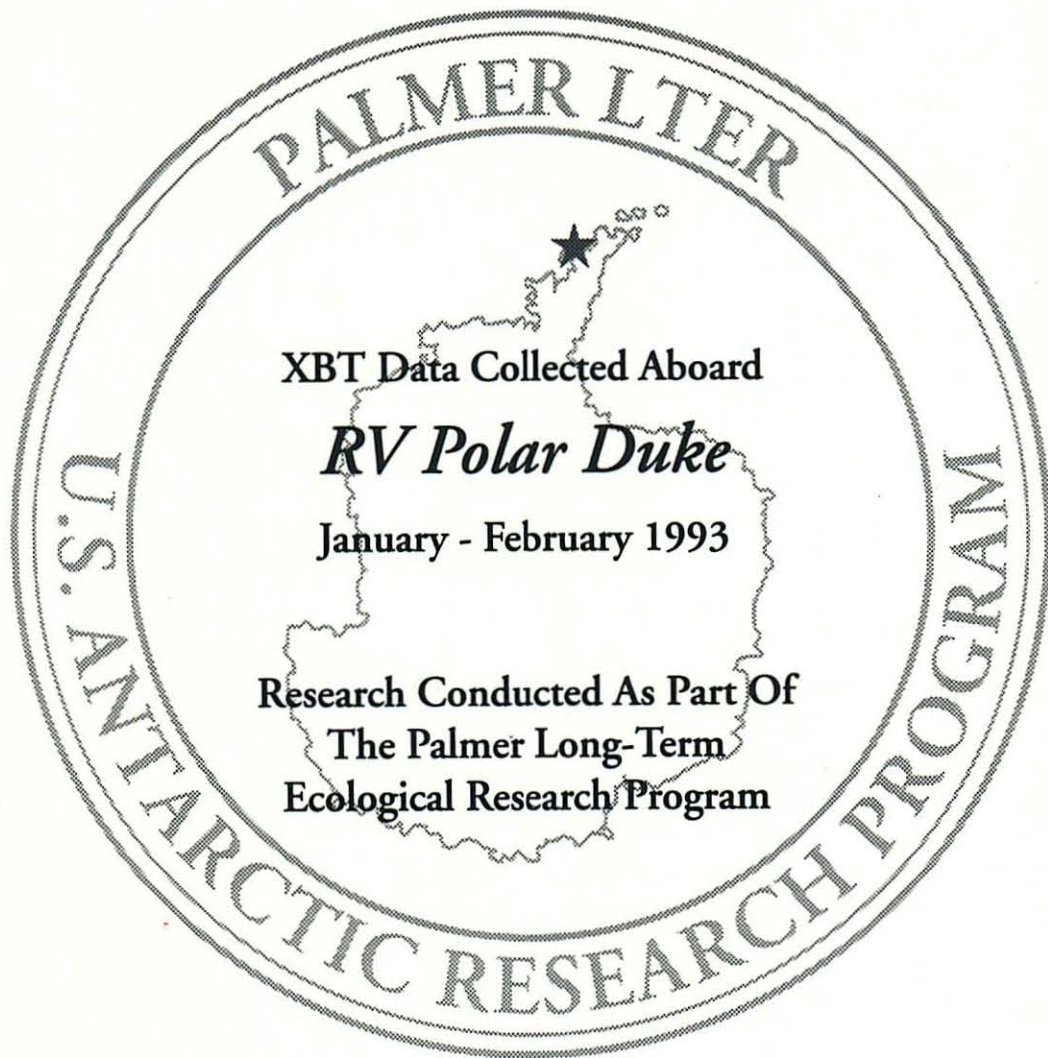


KSP



C. M. Lascara, R. C. Smith and D. Menzies

CCPO Technical Report No. 93-03

CENTER FOR COASTAL PHYSICAL OCEANOGRAPHY

Crittenton Hall Old Dominion University Norfolk, Virginia 23529



XBT Data Collected Aboard
RV Polar Duke
January - February 1993

Research Conducted As Part of the
Palmer Long-Term Ecological Research Program

December 1993

C.M. Lascara¹, R.C. Smith², D. Menzies²

¹ - Center for Coastal Physical Oceanography
Old Dominion University, Norfolk, VA 23529

² - Center for Remote Sensing and Environmental Optics
University of California, Santa Barbara, CA 93106

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Palmer LTER Research Groups and Principal Investigators

Ray Smith Karen Baker	UCSB SIO	remote sensing, climatology, environmental optics, hydrography, bio-optical models of primary production
Barbara Prezelin	UCSB	phytoplankton and inorganic nutrient dynamics, bio-optical models of primary production
Robin Ross Langdon Quetin	UCSB UCSB	distribution, abundance and ecological physiology of secondary producers, biological-physical models
William Fraser Wayne Trivelpiece	MSU MSU	seabird population dynamics and reproductive ecology, population models
Eileen Hofmann John Klinck	ODU ODU	oceanic circulation, hydrography, biological-physical and population models
David Karl	UH	dissolved organic carbon, microbial processes

UCSB University of California, Santa Barbara, CA 93106
 SIO Scripps Institution of Oceanography, La Jolla, CA 92093
 MSU Montana State University, Bozeman, MT 59717
 ODU Old Dominion University, Norfolk, VA 23529
 UH University of Hawaii, Honolulu, HA 96822

INTRODUCTION

From 8 January - 7 February 1993 a multidisciplinary cruise was conducted aboard the RV *Polar Duke* as part of the Palmer Long-Term Ecological Research (LTER) program off the Antarctic Peninsula. Stations were occupied at specified grid locations (Figure 1) within the Palmer LTER survey grid (Waters and Smith, 1992). The cruise departed from Punta Arenas, Chile (1 January) and returned to Palmer Station, Antarctica (7 February).

Temperature profiles were collected using a Sippican, Inc. MK-9 expendable bathythermograph (XBT) system. Upon return from the cruise, the XBT data were processed by LTER personnel at the Center for Coastal Physical Oceanography (CCPO). Tapes of these data at one-meter resolution have been sent to the National Oceanographic Data Center.

SAMPLING PROCEDURES AND QUALITY ASSURANCE

XBT drops were made at 118 stations, of which 96 provided good data. The Sippican probes, either T-6 (nominal maximum depth: 460 m) or T-7 (nominal maximum depth: 760 m), were dropped from a hand-held or deck-mounted launcher while underway. The raw voltage data were logged directly to a computer disk file under the control of the MK-9 hardware and software configuration provided by Sippican, Inc.

Horizontal spacing between the XBT stations was 20 km on most transects; alongshelf spacing between transects was 100 km (Figure 1). Temperature profiles were also collected using a CTD sensor mounted on a Bio-optical Profiling System (BOPS) at stations offset 10 km from the XBT stations. The CTD temperature data from the BOPS casts are presented in a separate report (CCPO Technical Report No 93-02).

The raw voltage data were converted using MK-9 post-processing software to generate vertical profiles of temperature ($^{\circ}\text{C}$). Each profile was plotted and visually inspected. Bad XBT casts or bad sections of individual casts were identified by comparing the XBT-derived temperature with known ranges of temperature for the study region. Those casts or subsections of casts that failed this comparison were eliminated. Bad subsections of a cast were typically the result of interference by ice or wind blowing the XBT wire against the hull of the ship. Also, vertical plane temperature contours along each across-shelf transect were generated using CTD and XBT data. XBT temperatures which were obviously different from adjacent CTD-derived temperatures were discarded. Typically temperatures within the top few meters were unrealistic due to the initial adjustment of the XBT thermistor to the cold water. Thus, the top 5 meters of each XBT cast were deleted. The edited data were smoothed (running average over 5 meters) and interpolated using a cubic spline to the standard depths that are reported in the following tables.

GRAPHICAL AND TABULAR DATA CHARACTERISTICS

A reference list of all XBT stations is presented in Table 1. The remainder of this data report presents graphical and tabular representations of station information and temperature measurements. For each station, a table of station information is provided as described below.

- Station and event numbers (in parenthesis to the right of the station number) are given for each station. The event number is an unique number assigned to each shipboard activity.
- Latitude and longitude locations correspond to the navigational fix, from the FURNO GPS receiver system, at probe launch time.
- Bottom depths in meters were determined acoustically with the 50kHz Digitrak system available on the ship.
- The day the station was occupied is reported in Julian Days.
- Time is given in Greenwich Mean Time and corresponds to probe launch time.

The second table for each station provides the temperature, given in degrees Celsius at:

- 10-m intervals from 5 to 160 m,
- 20-m intervals from 160 to 500 m,
- 50-m intervals deeper than 500m, and
- the last depth sampled.

For each station, a vertical profile of temperature is given to 600 meters. Fewer than 20 stations were deeper than 600 meters. For these stations, temperatures beyond 600 m are given in the tabular data listing for the standard depths.

ACKNOWLEDGMENTS

This work was supported by the National Science Foundation grant DPP-9011927. We thank Tim Newberger, Jaime Marquez, Brad Seibel and Michael Hearne for assistance in data collection on board the ship.

REFERENCES

Waters, K. J. and R. C. Smith. 1992. Palmer LTER: A sampling grid for the Palmer LTER program. *Antarctic Journal of the U. S.*, 27, 236-239.

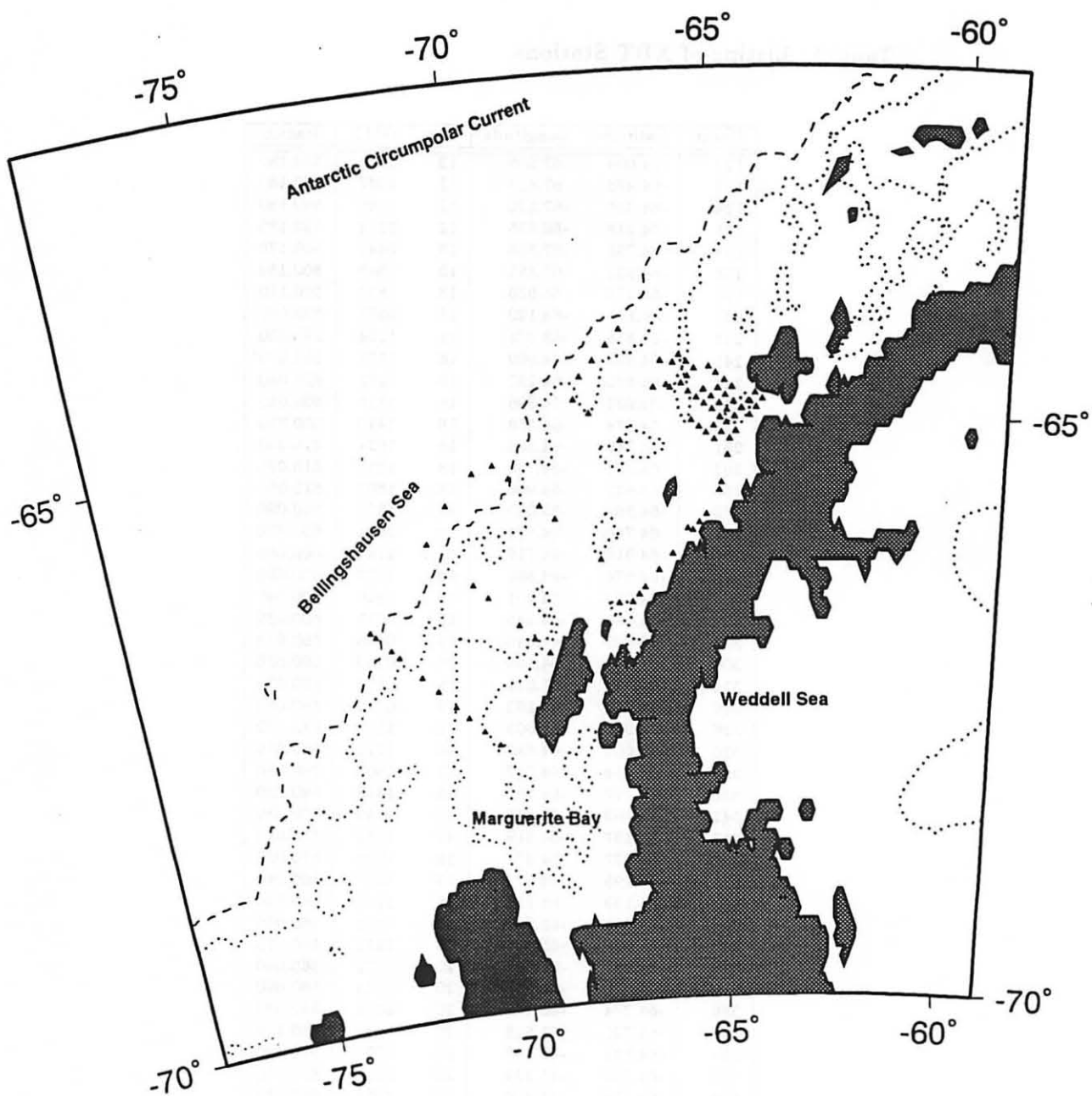


Figure 1. Distribution of XBT stations, indicated by triangles, occupied during the cruise. The 500 and 2000 meter isobaths are indicated by the dotted and dashed line, respectively. The southernmost and northernmost transect lines sampled during this cruise correspond to the 200 and 500 lines, respectively of the Palmer LTER peninsula-scale grid.

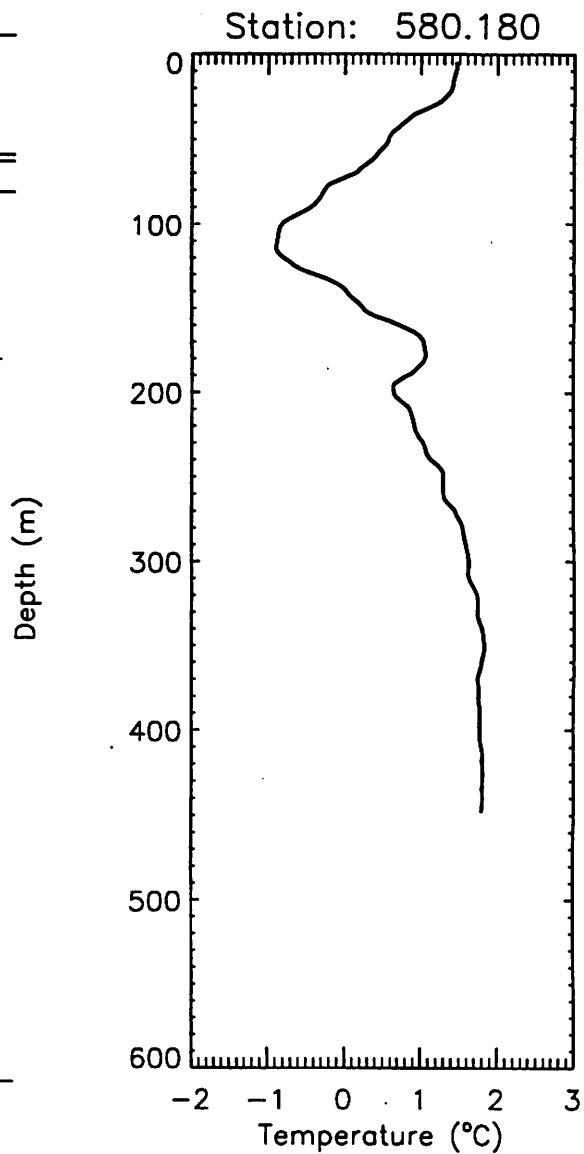
Table 1. Listing of XBT Stations.

Event	Latitude	Longitude	Day	GMT	Station
122	-64.604	-67.696	12	1923	580.180
123	-64.473	-67.403	12	2047	560.180
124	-64.346	-67.120	12	2149	540.180
125	-64.218	-66.835	12	2254	520.180
132	-64.798	-67.848	13	0442	500.170
138	-64.922	-67.551	13	0848	500.150
153	-65.171	-66.936	13	1835	500.110
233	-64.801	-64.120	18	0955	620.040
237	-64.855	-63.971	18	1104	620.030
241	-64.923	-64.099	18	1156	610.030
244	-64.870	-64.257	18	1251	610.040
249	-64.932	-64.396	18	1345	600.040
253	-64.874	-64.558	18	1440	600.050
261	-64.749	-64.582	18	1624	610.060
265	-64.687	-64.739	18	1716	610.070
269	-64.622	-64.908	18	1806	610.080
273	-64.569	-65.049	18	1852	610.090
281	-64.756	-64.874	18	2054	600.070
285	-64.813	-64.719	18	2144	600.060
289	-64.874	-64.560	18	2237	600.050
292	-64.932	-64.401	18	2329	600.040
297	-64.991	-64.243	19	0019	600.030
302	-64.999	-64.540	19	0146	590.040
306	-64.942	-64.695	19	0240	590.050
314	-64.823	-65.011	19	0823	590.070
318	-64.763	-65.163	19	0912	590.080
326	-64.937	-65.003	19	1121	580.060
330	-65.005	-64.847	19	1212	580.050
334	-65.054	-64.717	19	1303	580.040
338	-65.127	-64.531	19	1448	580.030
342	-65.193	-64.659	19	1546	570.030
346	-65.137	-64.819	19	1644	570.040
350	-65.077	-64.977	19	1738	570.050
354	-65.199	-64.977	19	1907	560.040
360	-65.139	-65.135	19	2109	560.050
364	-65.081	-65.286	19	2159	560.060
368	-65.025	-65.437	19	2252	560.070
374	-65.961	-65.597	20	0032	560.080
382	-64.830	-65.315	20	0224	580.080
386	-64.774	-65.476	20	0319	580.090
390	-64.701	-65.618	20	0640	580.100
394	-64.643	-65.487	20	0737	590.100
398	-64.579	-65.354	20	0828	600.100
404	-64.519	-65.496	20	1016	600.110
408	-64.459	-65.643	20	1108	600.120
415	-64.523	-65.780	20	1311	590.120
421	-64.503	-66.029	20	1451	TrapA
425	-64.711	-65.919	20	1635	570.110
427	-64.729	-66.184	20	1725	TrapB
429	-64.737	-65.846	20	1838	TrapC
448	-65.129	-64.526	22	1126	580.030
467	-65.009	-64.838	22	1627	580.050

Event	Latitude	Longitude	Day	GMT	Station
479	-64.883	-65.158	22	2007	580.070
485	-64.764	-65.171	22	2207	590.080
497	-64.885	-64.848	23	0210	590.060
512	-65.000	-64.543	23	0740	590.040
522	-64.993	-64.241	23	1203	600.030
549	-64.757	-64.869	23	2023	600.070
588	-64.744	-64.586	24	1139	610.060
633	-64.876	-64.222	24	1343	610.040
669	-66.192	-67.492	27	1631	400.050
719	-65.819	-68.421	29	0327	400.110
727	-65.690	-68.736	29	1003	400.130
771	-65.433	-69.347	30	1637	400.170
779	-65.305	-69.649	30	2223	400.190
785	-65.357	-70.099	31	0227	380.200
787	-65.606	-70.734	31	0445	340.200
798	-65.915	-71.234	31	1015	300.190
826	-66.310	-70.320	32	0309	300.130
834	-66.435	-70.028	32	0939	300.110
850	-66.698	-69.402	32	1926	300.070
858	-66.826	-69.086	32	2329	300.050
868	-66.953	-68.769	33	0433	300.030
875	-66.600	-72.697	33	2127	200.180
876	-66.645	-72.593	33	2148	200.170
882	-66.778	-72.299	34	0015	200.150
884	-66.848	-72.144	34	0046	200.140
889	-67.045	-71.695	34	0335	200.110
891	-67.182	-71.377	34	0441	200.090
895	-67.334	-71.018	34	0716	200.070
897	-67.443	-70.755	34	0809	200.050
901	-67.572	-70.438	34	1043	200.030
903	-67.705	-70.116	34	1214	200.010
911	-66.572	-67.156	36	0055	380.010
915	-66.571	-66.850	36	0629	390.000
916	-66.506	-66.698	36	0732	400.000
917	-66.447	-66.559	36	0832	410.000
923	-66.307	-66.240	36	1332	430.000
927	-66.175	-65.936	36	1633	450.000
931	-65.979	-65.484	37	0735	480.000
932	-65.917	-65.345	37	0845	490.000
933	-65.846	-65.182	37	1012	500.000
937	-65.639	-64.908	37	1504	526.005
938	-65.575	-64.853	37	1530	533.010
941	-65.337	-64.706	37	1705	557.020
943	-65.195	-64.662	37	1759	570.030

LTER	93a		
Station:	580.180 (122)	Depth:	450 m
Latitude:	64° 36.240' S	JulianDay:	12
Longitude:	67° 41.760' W	GMT:	1923

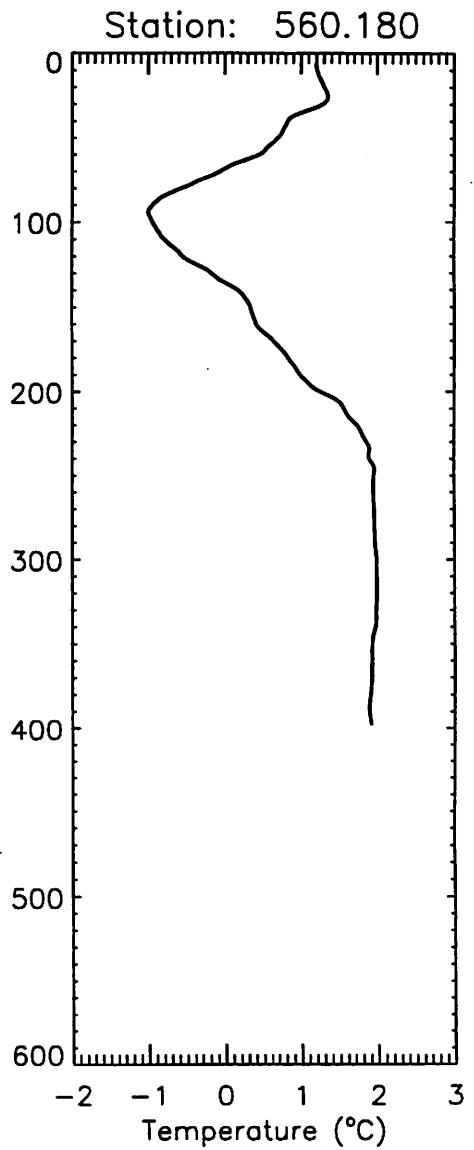
Depth	Temp
5	1.456
10	1.456
20	1.402
30	1.181
40	0.792
50	0.571
60	0.411
70	0.156
80	-0.258
90	-0.440
100	-0.810
110	-0.871
120	-0.764
130	-0.355
140	0.036
150	0.251
160	0.729
180	1.063
200	0.659
220	0.921
240	1.135
260	1.303
280	1.558
300	1.634
320	1.741
340	1.804
360	1.803
380	1.763
400	1.778
420	1.813



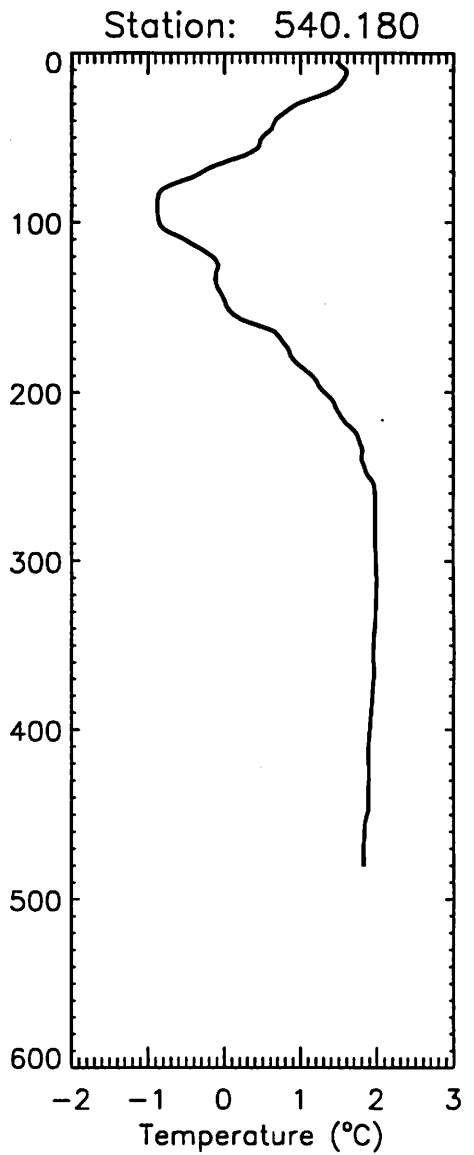
LTER 93a
Station: 560.180 (123) **Depth:** 400 m
Latitude: 64° 28.380' S **JulianDay:** 12
Longitude: 67° 24.180' W **GMT:** 2047

Depth	Temp
5	1.200
10	1.210
20	1.307
30	1.285
40	0.829
50	0.698
60	0.446
70	-0.070
80	-0.583
90	-0.949
100	-0.941
110	-0.793
120	-0.549
130	-0.173
140	0.172
150	0.338
160	0.414
180	0.836
200	1.254
220	1.739
240	1.893
260	1.942
280	1.954
300	1.986
320	1.991
340	1.971
360	1.925

Depth (m)



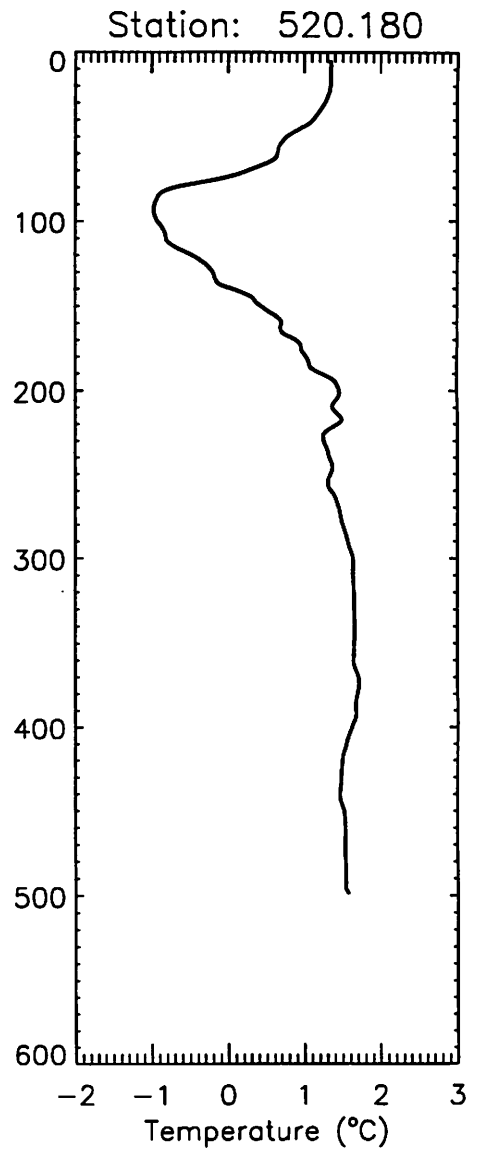
Depth	Temp
5	1.474
10	1.593
20	1.472
30	0.959
40	0.665
50	0.495
60	0.298
70	-0.275
80	-0.798
90	-0.870
100	-0.846
110	-0.516
120	-0.159
130	-0.106
140	-0.062
150	0.047
160	0.430
180	0.908
200	1.322
220	1.633
240	1.803
260	1.974
280	1.977
300	1.989
320	1.988
340	1.968
360	1.957
380	1.945
400	1.912
420	1.900
440	1.888
460	1.839



LTER 93a
Station: 520.180 (125) **Depth:** 1700 m
Latitude: 64° 13.080' S **JulianDay:** 12
Longitude: 66° 50.100' W **GMT:** 2254

Depth	Temp
5	1.347
10	1.343
20	1.342
30	1.270
40	1.116
50	0.773
60	0.645
70	0.266
80	-0.706
90	-0.962
100	-0.922
110	-0.812
120	-0.477
130	-0.203
140	0.046
150	0.423
160	0.706
180	1.025
200	1.456
220	1.444
240	1.330
260	1.352
280	1.501
300	1.633
320	1.648
340	1.656
360	1.646
380	1.698
400	1.624
420	1.498
440	1.467
460	1.536
480	1.535

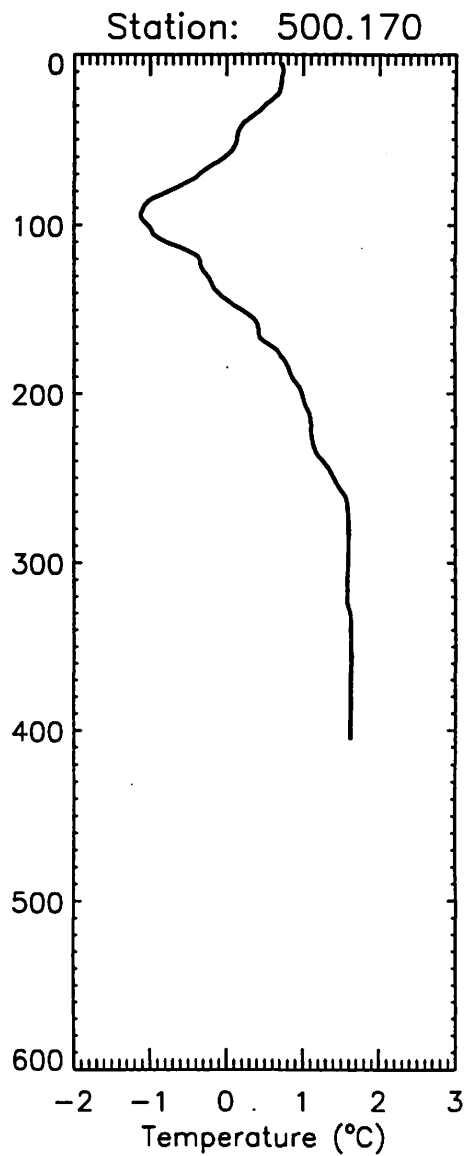
Depth (m)



LTER	93a	Depth:	407 m
Station:	500.170 (132)	JulianDay:	13
Latitude:	64° 47.880' S	GMT:	0442
Longitude:	67° 50.880' W		

Depth	Temp
5	0.715
10	0.739
20	0.703
30	0.505
40	0.237
50	0.139
60	-0.022
70	-0.354
80	-0.750
90	-1.089
100	-1.030
110	-0.773
120	-0.341
130	-0.232
140	-0.089
150	0.214
160	0.422
180	0.759
200	0.991
220	1.113
240	1.268
260	1.550
280	1.607
300	1.598
320	1.586
340	1.634
360	1.640
380	1.639

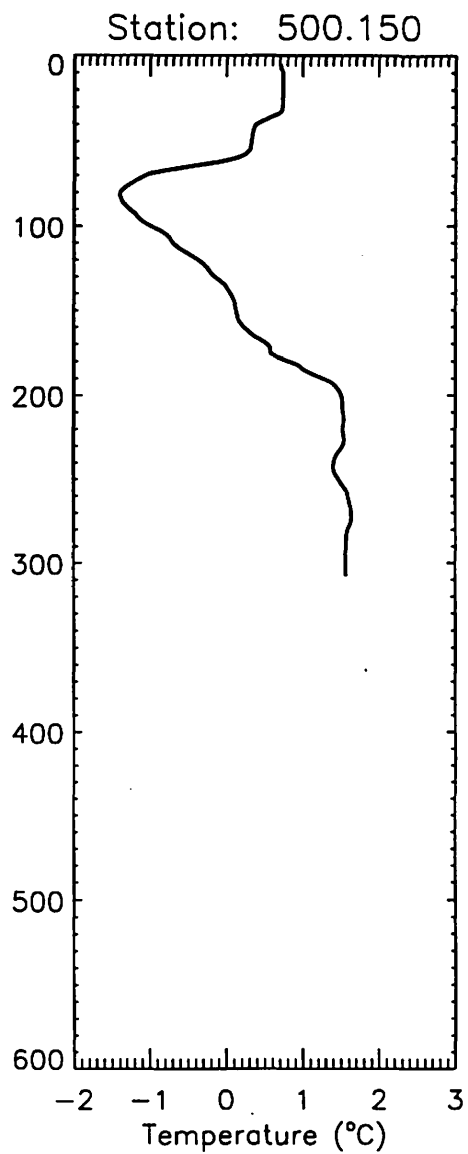
Depth (m)



LTER	93a	Depth:	310 m
Station:	500.150 (138)	JulianDay:	13
Latitude:	64° 55.320' S	GMT:	0848
Longitude:	67° 33.060' W		

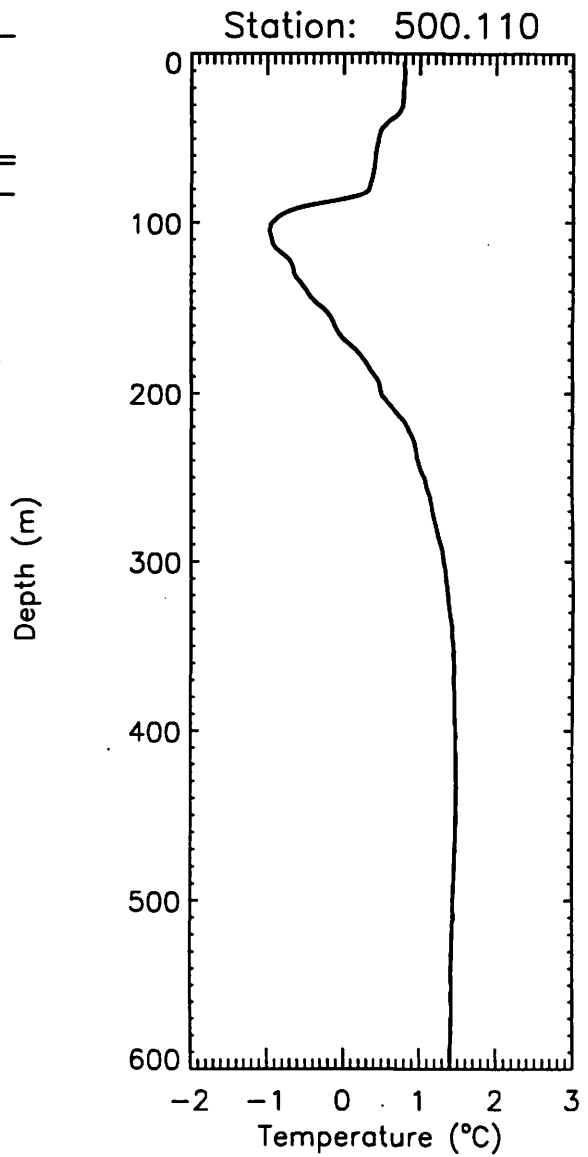
Depth	Temp
5	0.704
10	0.740
20	0.742
30	0.734
40	0.388
50	0.326
60	0.108
70	-1.064
80	-1.392
90	-1.264
100	-0.992
110	-0.695
120	-0.368
130	-0.153
140	0.049
150	0.130
160	0.230
180	0.818
200	1.505
220	1.528
240	1.412
260	1.594
280	1.592

Depth (m)



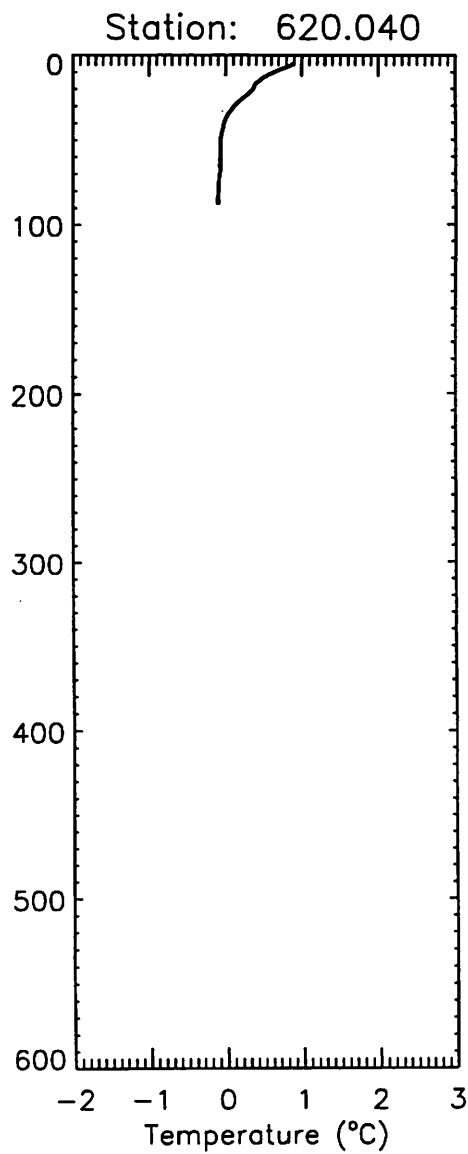
LTER	93a		
Station:	500.110 (153)	Depth:	630 m
Latitude:	65° 10.260' S	JulianDay:	13
Longitude:	66° 56.160' W	GMT:	1835

Depth	Temp
5	0.794
10	0.806
20	0.791
30	0.781
40	0.587
50	0.454
60	0.410
70	0.385
80	0.332
90	-0.513
100	-0.936
110	-0.939
120	-0.742
130	-0.632
140	-0.466
150	-0.249
160	-0.108
180	0.268
200	0.496
220	0.846
240	0.988
260	1.132
280	1.225
300	1.316
320	1.369
340	1.423
360	1.451
380	1.466
400	1.476
420	1.482
440	1.483
460	1.477
480	1.464
500	1.443
550	1.424



LTER 93a	
Station: 620.040 (233)	Depth: 90 m
Latitude: 64° 48.060' S	JulianDay: 18
Longitude: 64° 7.200' W	GMT: 0955
Depth	Temp
5	0.885
10	0.640
20	0.361
30	0.117
40	-0.023
50	-0.070
60	-0.074
70	-0.078

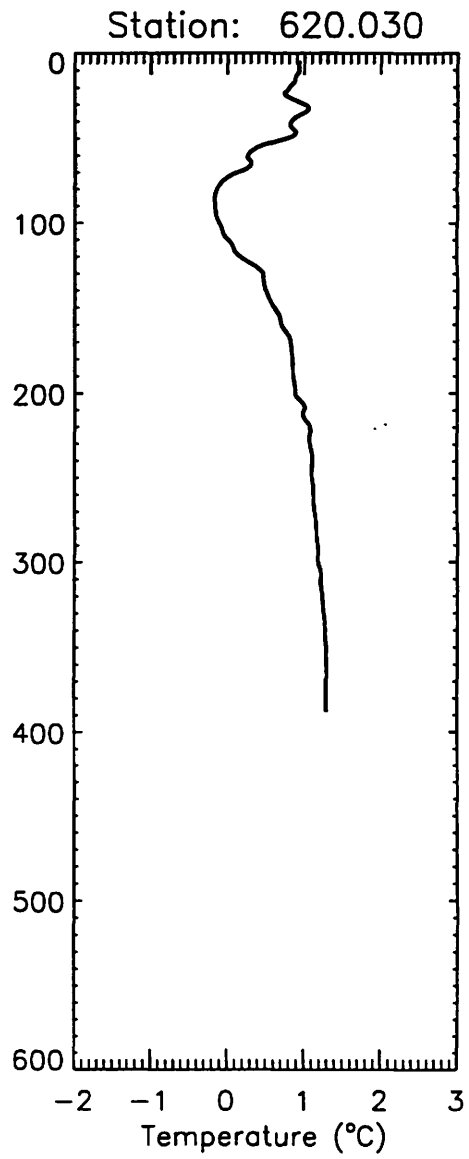
Depth (m)



LTER	93a		
Station:	620.030 (237)	Depth:	390 m
Latitude:	64° 51.300' S	JulianDay:	18
Longitude:	63° 58.260' W	GMT:	1104

Depth	Temp
5	0.931
10	0.941
20	0.806
30	1.023
40	0.830
50	0.759
60	0.261
70	0.132
80	-0.140
90	-0.161
100	-0.109
110	0.006
120	0.165
130	0.468
140	0.502
150	0.618
160	0.712
180	0.853
200	0.888
220	1.080
240	1.116
260	1.132
280	1.165
300	1.189
320	1.245
340	1.282
360	1.298

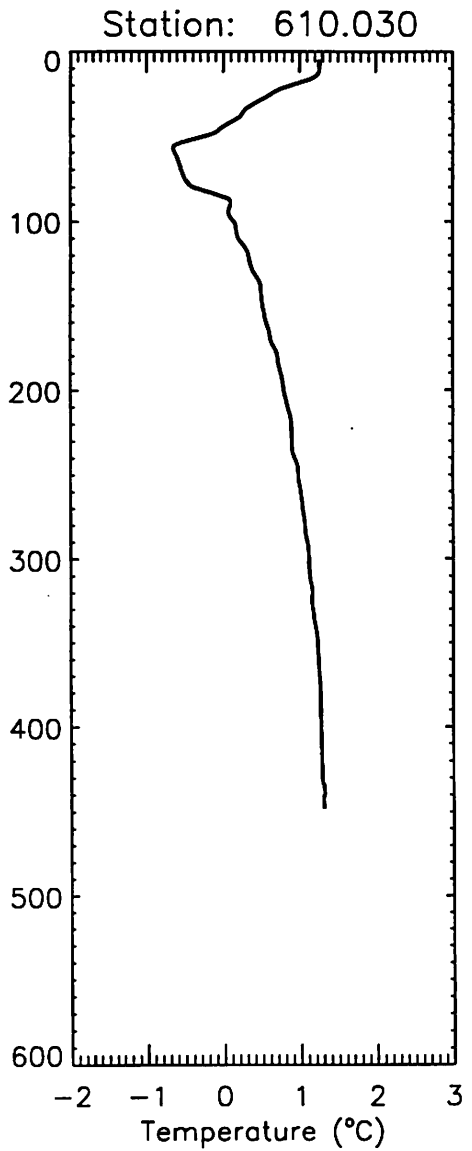
Depth (m)



LTER	93a		
Station:	610.030 (241)	Depth:	450 m
Latitude:	64° 55.380' S	JulianDay:	18
Longitude:	64° 5.940' W	GMT:	1156

Depth	Temp
5	1.251
10	1.258
20	0.889
30	0.444
40	0.182
50	-0.215
60	-0.630
70	-0.547
80	-0.406
90	0.090
100	0.125
110	0.189
120	0.320
130	0.389
140	0.488
150	0.510
160	0.557
180	0.706
200	0.788
220	0.886
240	0.927
260	1.009
280	1.063
300	1.112
320	1.157
340	1.198
360	1.239
380	1.263
400	1.269
420	1.279

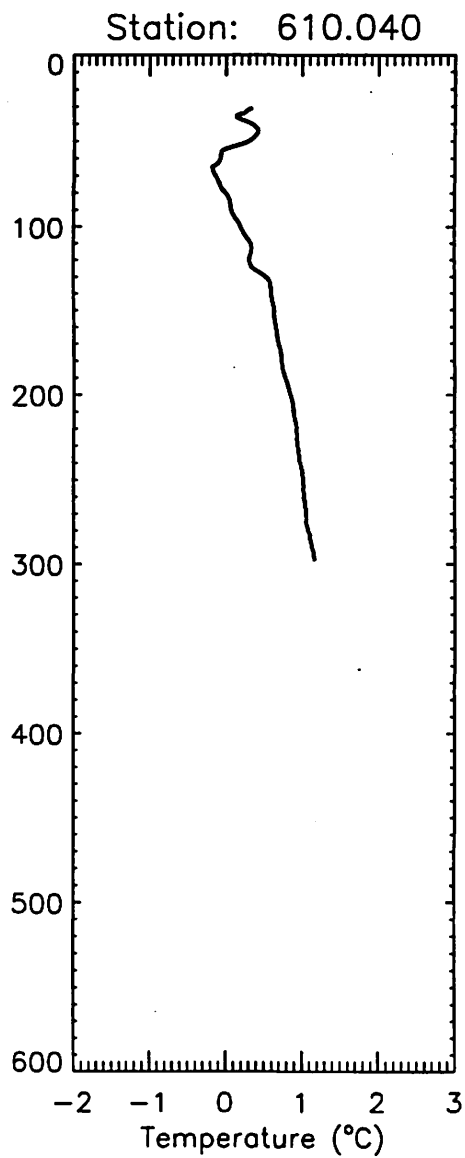
Depth (m)



LTER	93a		
Station:	610.040 (244)	Depth:	300 m
Latitude:	64° 52.200' S	JulianDay:	18
Longitude:	64° 15.420' W	GMT:	1251

Depth	Temp
40	0.340
50	0.304
60	-0.074
70	-0.140
80	-0.006
90	0.069
100	0.191
110	0.320
120	0.310
130	0.520
140	0.598
150	0.639
160	0.660
180	0.730
200	0.851
220	0.930
240	0.978
260	1.026

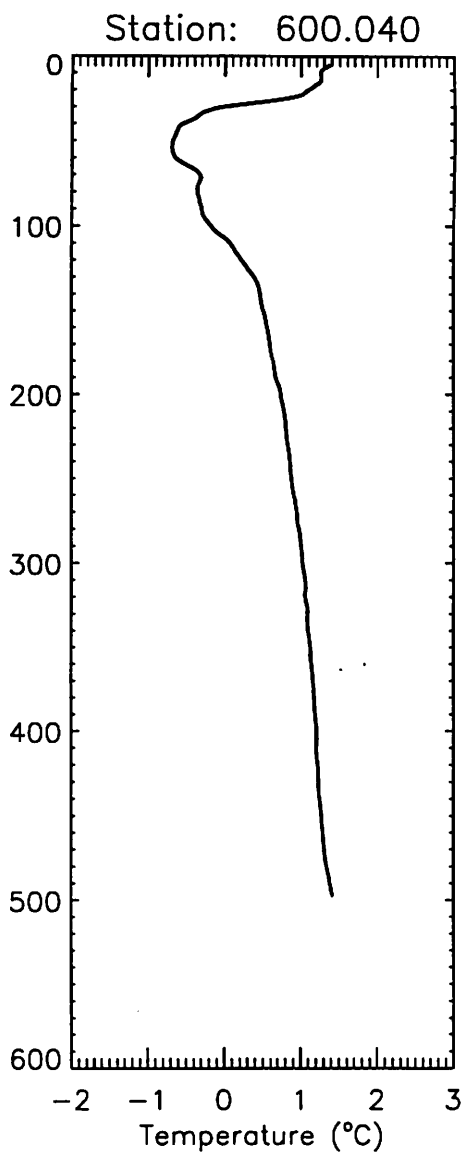
Depth (m)



LTER	93a		
Station:	600.040 (249)	Depth:	1800 m
Latitude:	64° 55.920' S	JulianDay:	18
Longitude:	64° 23.760' W	GMT:	1345

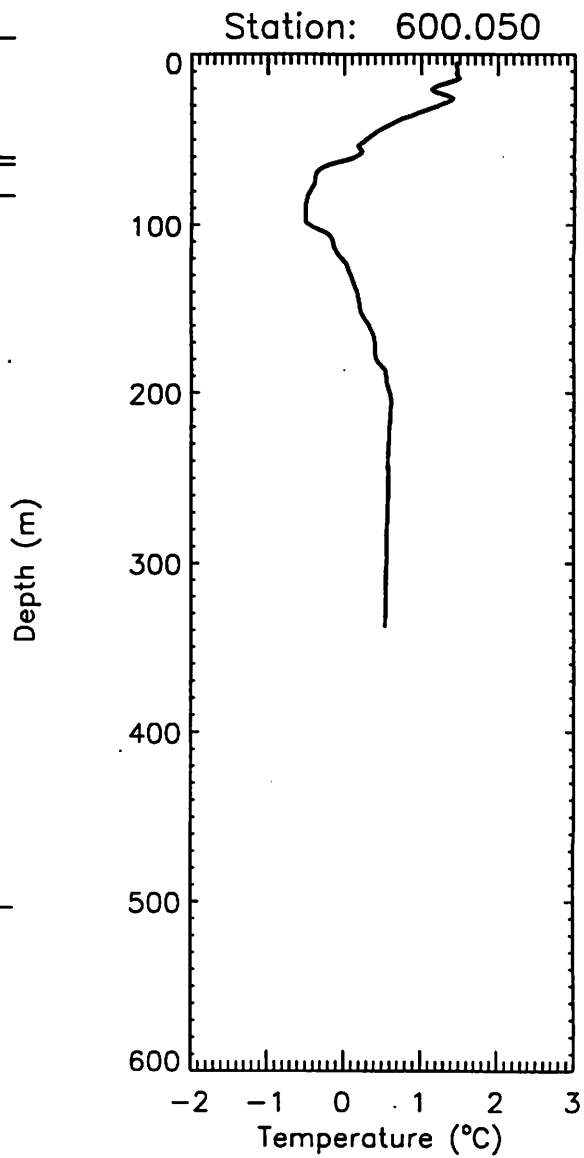
Depth	Temp
5	1.366
10	1.257
20	1.104
30	0.005
40	-0.545
50	-0.676
60	-0.645
70	-0.324
80	-0.356
90	-0.303
100	-0.180
110	0.068
120	0.214
130	0.381
140	0.466
150	0.506
160	0.556
180	0.639
200	0.740
220	0.807
240	0.862
260	0.912
280	0.981
300	1.030
320	1.063
340	1.104
360	1.148
380	1.177
400	1.212
420	1.229
440	1.253
460	1.297

Depth (m)



LTER	93a		
Station:	600.050 (253)	Depth:	340 m
Latitude:	64° 52.440' S	JulianDay:	18
Longitude:	64° 33.480' W	GMT:	1440

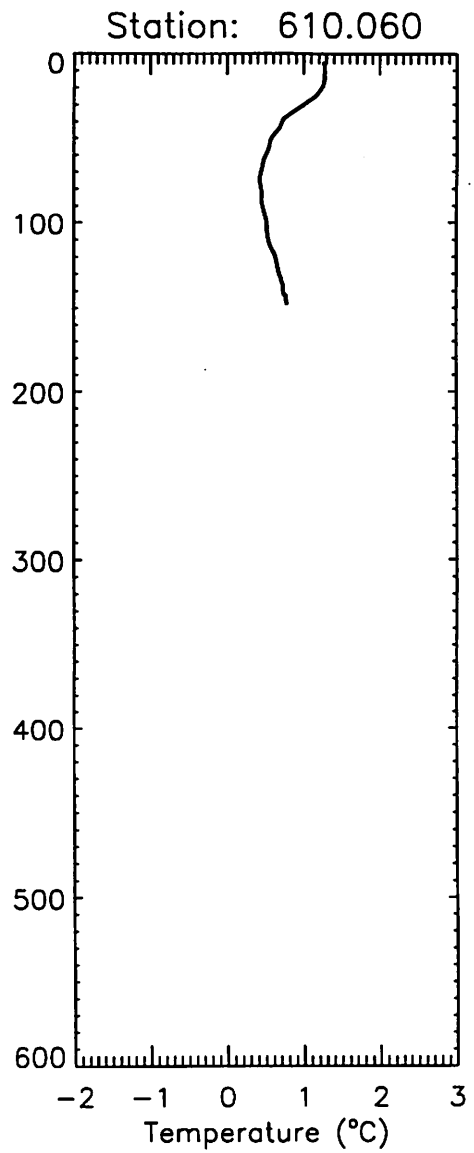
Depth	Temp
5	1.455
10	1.465
20	1.167
30	1.242
40	0.666
50	0.293
60	0.158
70	-0.369
80	-0.443
90	-0.507
100	-0.449
110	-0.147
120	-0.031
130	0.090
140	0.172
150	0.214
160	0.328
180	0.420
200	0.600
220	0.599
240	0.577
260	0.583
280	0.569
300	0.562



LTER 93a
Station: 610.060 (261) **Depth:** 150 m
Latitude: 64° 44.940' S **JulianDay:** 18
Longitude: 64° 34.920' W **GMT:** 1624

Depth	Temp
5	1.265
10	1.277
20	1.243
30	1.011
40	0.725
50	0.586
60	0.511
70	0.447
80	0.446
90	0.461
100	0.518
110	0.539
120	0.634
130	0.683

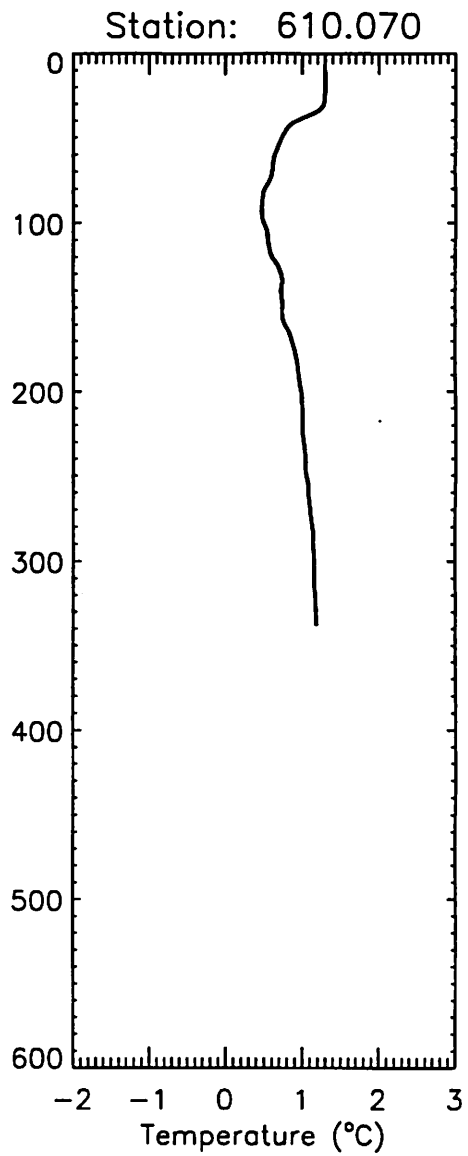
Depth (m)



LTER	93a		
Station:	610.070 (265)	Depth:	340 m
Latitude:	64° 41.220' S	JulianDay:	18
Longitude:	64° 44.340' W	GMT:	1716

Depth	Temp
5	1.295
10	1.297
20	1.298
30	1.281
40	0.935
50	0.731
60	0.640
70	0.606
80	0.511
90	0.471
100	0.496
110	0.552
120	0.609
130	0.724
140	0.727
150	0.742
160	0.777
180	0.928
200	0.991
220	1.005
240	1.042
260	1.087
280	1.141
300	1.161

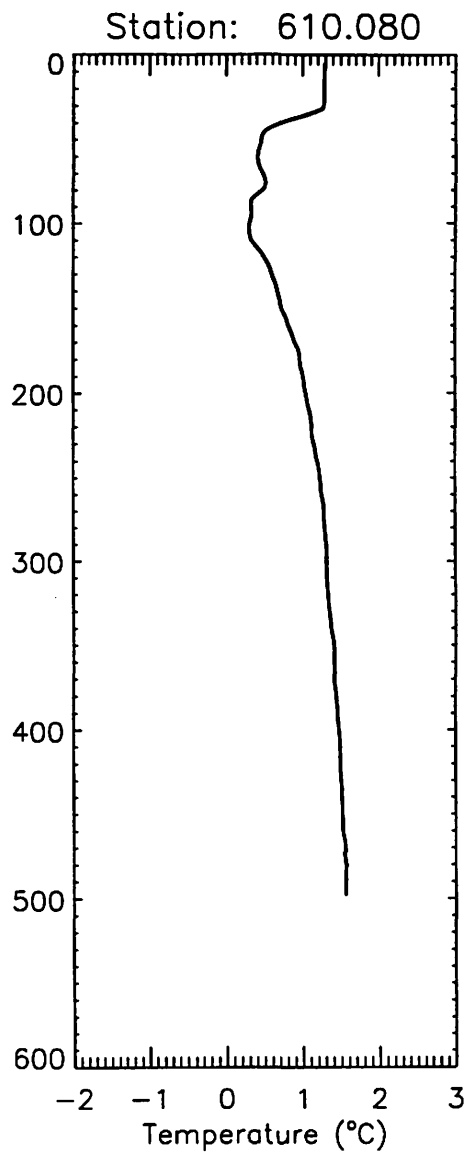
Depth (m)



LTER 93a
Station: 610.080 (269) **Depth:** 730 m
Latitude: 64° 37.320' S **JulianDay:** 18
Longitude: 64° 54.480' W **GMT:** 1806

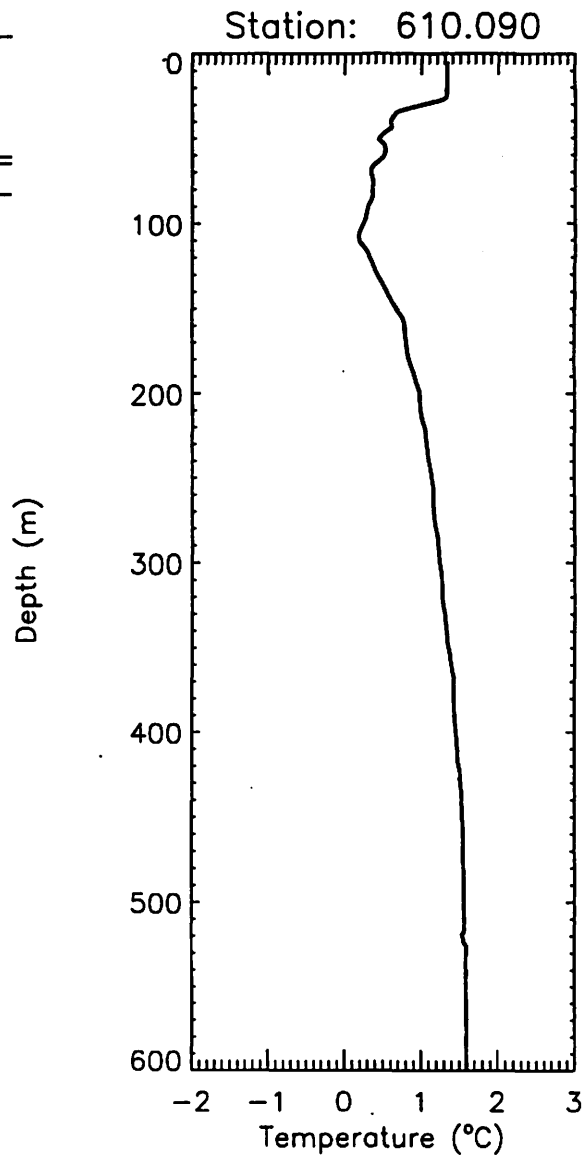
Depth	Temp
5	1.292
10	1.288
20	1.285
30	1.279
40	0.707
50	0.463
60	0.408
70	0.478
80	0.473
90	0.323
100	0.301
110	0.325
120	0.494
130	0.600
140	0.672
150	0.727
160	0.818
180	0.964
200	1.040
220	1.120
240	1.195
260	1.247
280	1.290
300	1.318
320	1.333
340	1.371
360	1.410
380	1.442
400	1.477
420	1.491
440	1.511
460	1.527

Depth (m)



LTER 93a
Station: 610.090 (273) **Depth:** 730 m
Latitude: 64° 34.140' S **JulianDay:** 18
Longitude: 65° 2.940' W **GMT:** 1852

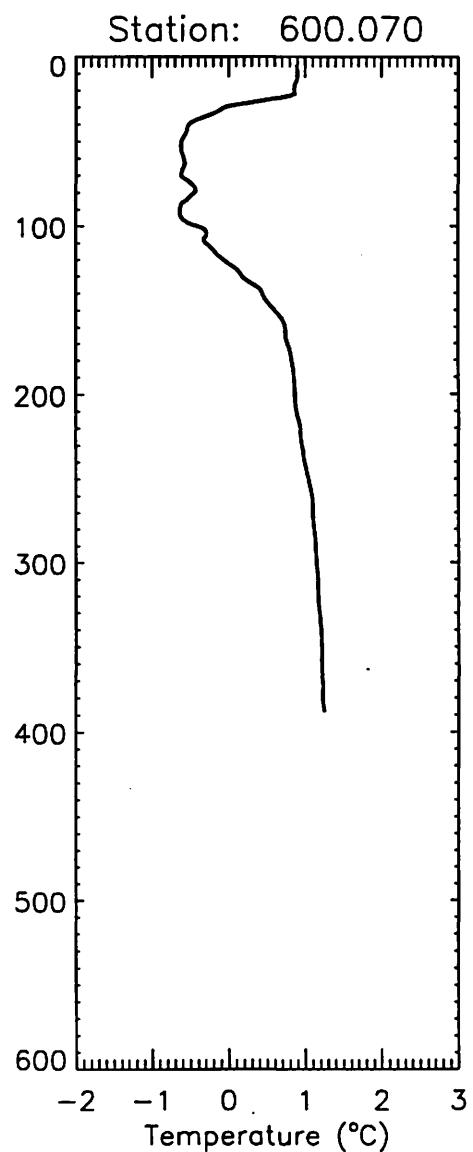
Depth	Temp
5	1.332
10	1.333
20	1.327
30	1.035
40	0.594
50	0.446
60	0.510
70	0.330
80	0.357
90	0.303
100	0.244
110	0.186
120	0.325
130	0.420
140	0.544
150	0.672
160	0.786
180	0.840
200	0.980
220	1.041
240	1.100
260	1.159
280	1.192
300	1.244
320	1.276
340	1.332
360	1.389
380	1.430
400	1.450
420	1.491
440	1.527
460	1.546
480	1.551
500	1.559
550	1.585
600	1.593
650	1.597



LTER 93a
Station: 600.070 (281) **Depth:** 390 m
Latitude: 64° 45.360' S **JulianDay:** 18
Longitude: 64° 52.440' W **GMT:** 2054

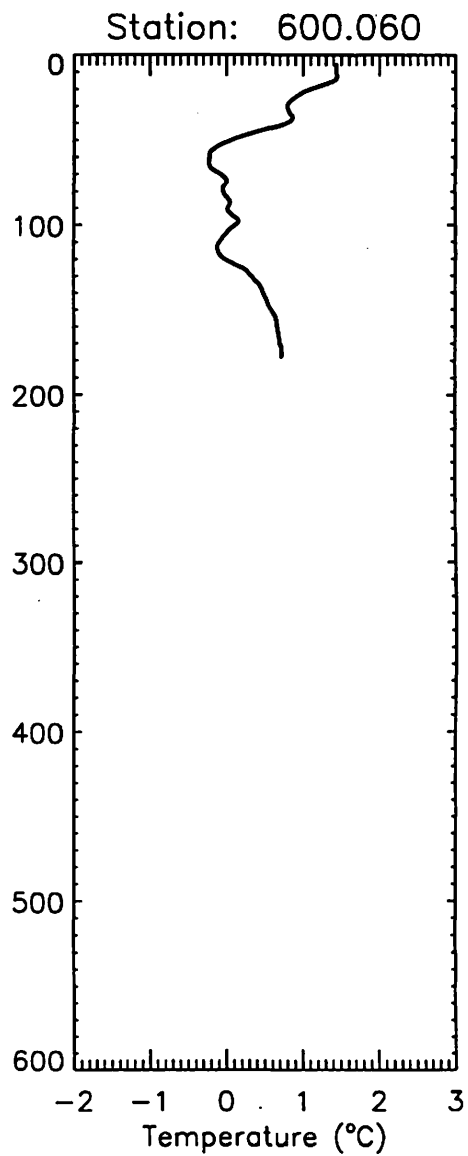
Depth	Temp
5	0.891
10	0.899
20	0.856
30	-0.049
40	-0.519
50	-0.615
60	-0.585
70	-0.627
80	-0.444
90	-0.633
100	-0.407
110	-0.299
120	-0.063
130	0.177
140	0.441
150	0.600
160	0.740
180	0.823
200	0.864
220	0.933
240	0.994
260	1.091
280	1.116
300	1.145
320	1.169
340	1.205
360	1.217

Depth (m)



LTER 93a			
Station:	600.060 (285)	Depth:	180 m
Latitude:	64° 48.780' S	JulianDay:	18
Longitude:	64° 43.140' W	GMT:	2144
Depth			Temp
5			1.433
10			1.437
20			1.115
30			0.794
40			0.799
50			0.083
60			-0.222
70			-0.090
80			-0.038
90			0.020
100			0.131
110			-0.079
120			-0.032
130			0.318
140			0.486
150			0.588

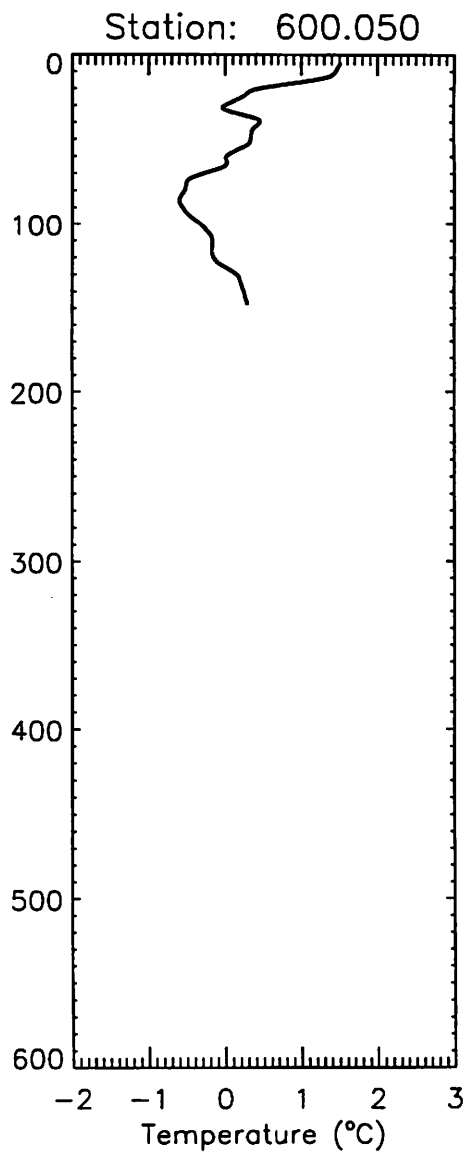
Depth (m)



LTER	93a		
Station:	600.050 (289)	Depth:	150 m
Latitude:	64° 52.440' S	JulianDay:	18
Longitude:	64° 33.600' W	GMT:	2237

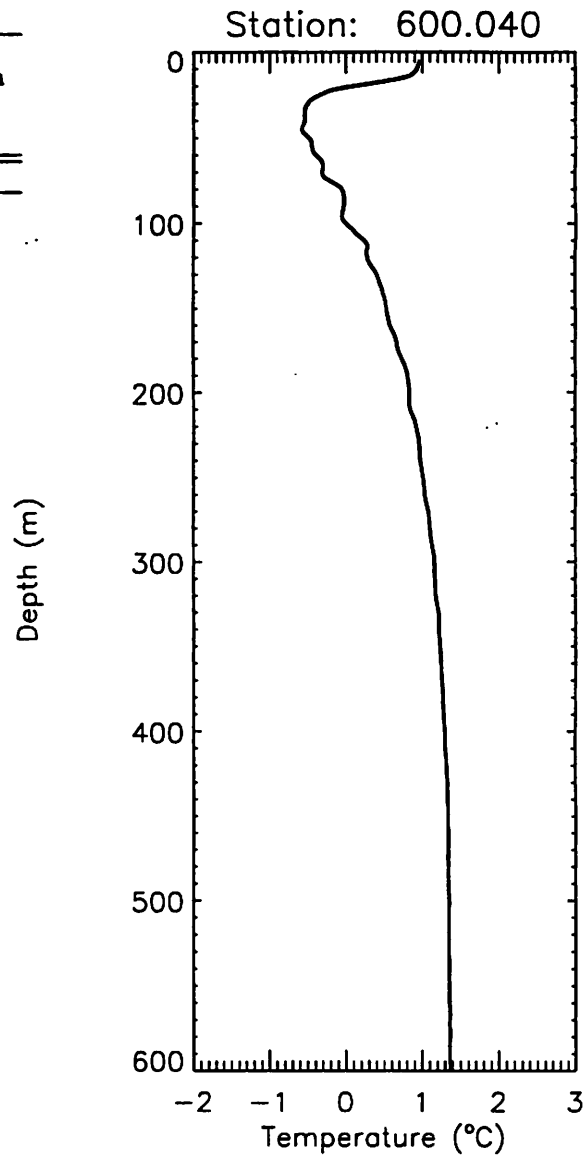
Depth	Temp
5	1.510
10	1.451
20	0.481
30	0.008
40	0.454
50	0.335
60	0.021
70	-0.271
80	-0.528
90	-0.556
100	-0.323
110	-0.166
120	-0.150
130	0.146

Depth (m)



LTER	93a	Depth:	2300 m
Station:	600.040 (292)	JulianDay:	18
Latitude:	64° 55.920' S	GMT:	2329
Longitude:	64° 24.060' W		

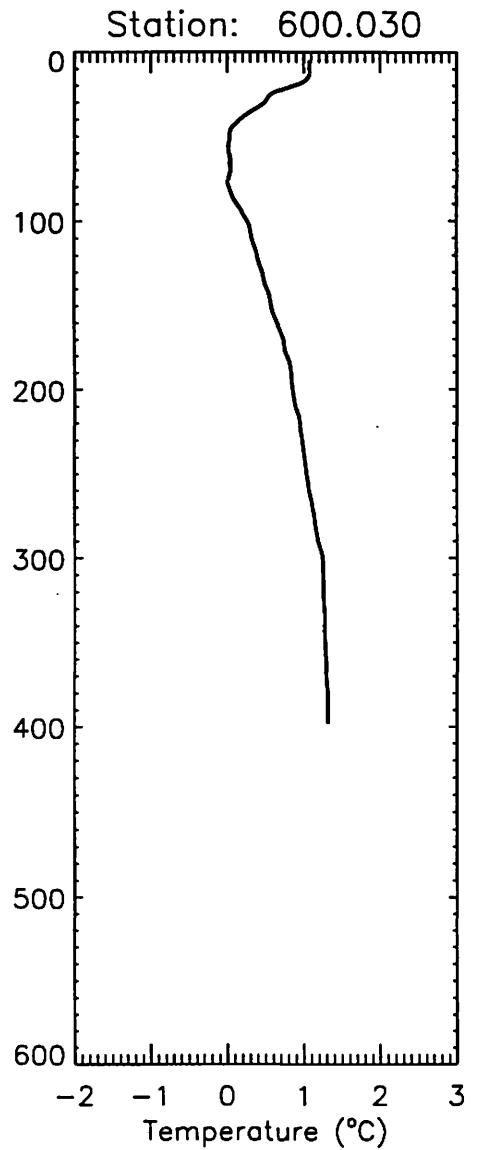
Depth	Temp
5	0.967
10	0.926
20	0.084
30	-0.500
40	-0.538
50	-0.481
60	-0.386
70	-0.311
80	-0.051
90	-0.028
100	-0.003
110	0.233
120	0.280
130	0.403
140	0.480
150	0.534
160	0.579
180	0.731
200	0.836
220	0.922
240	0.977
260	1.036
280	1.101
300	1.161
320	1.179
340	1.218
360	1.250
380	1.269
400	1.295
420	1.313
440	1.335
460	1.341
480	1.347
500	1.351
550	1.360
600	1.369



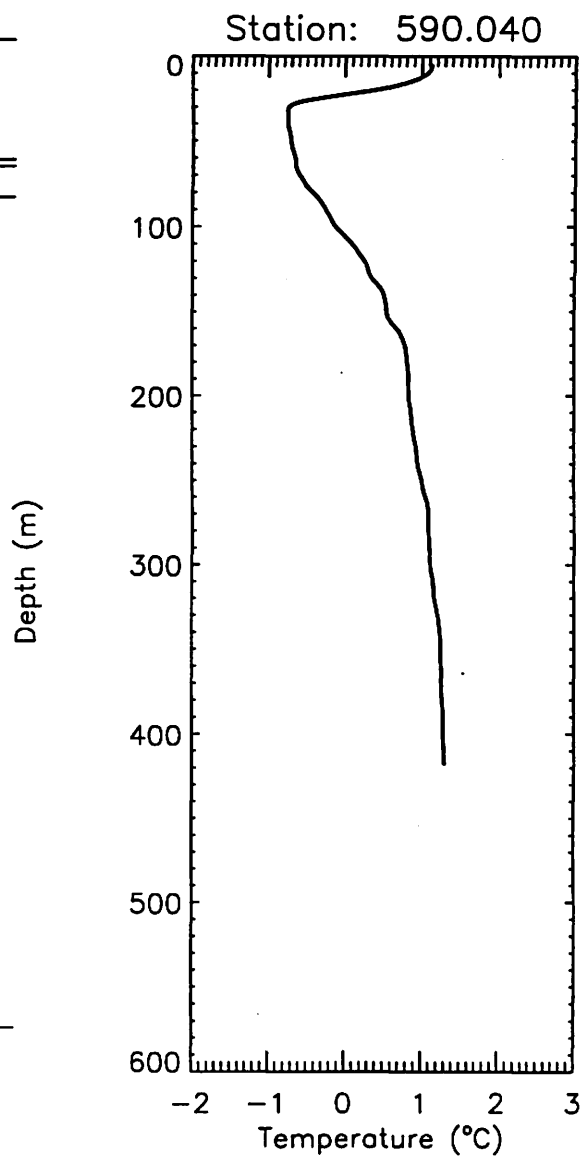
LTER 93a
Station: 600.030 (297) **Depth:** 400 m
Latitude: 64° 59.460' S **JulianDay:** 19
Longitude: 64° 14.580' W **GMT:** 0019

Depth	Temp
5	1.079
10	1.076
20	0.868
30	0.489
40	0.168
50	0.028
60	0.017
70	0.040
80	0.022
90	0.122
100	0.259
110	0.319
120	0.389
130	0.456
140	0.514
150	0.571
160	0.644
180	0.781
200	0.855
220	0.953
240	1.013
260	1.068
280	1.147
300	1.245
320	1.258
340	1.268
360	1.286

Depth (m)



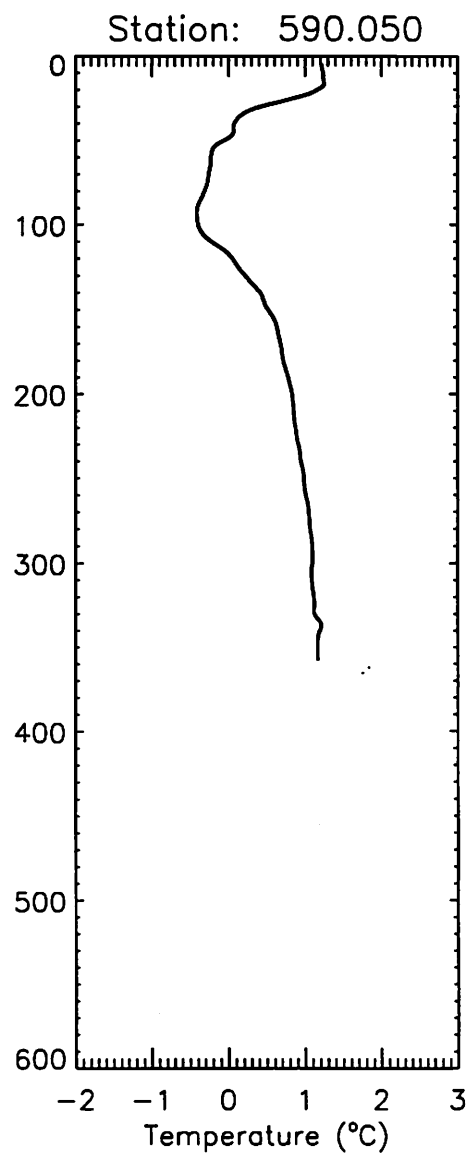
LTER 93a			
Station:	590.040 (302)	Depth:	420 m
Latitude:	64° 59.940' S	JulianDay:	19
Longitude:	64° 32.400' W	GMT:	0146
Depth	Temp		
5	1.130		
10	1.077		
20	0.411		
30	-0.734		
40	-0.746		
50	-0.707		
60	-0.648		
70	-0.589		
80	-0.417		
90	-0.248		
100	-0.126		
110	0.086		
120	0.254		
130	0.339		
140	0.499		
150	0.537		
160	0.665		
180	0.810		
200	0.837		
220	0.889		
240	0.955		
260	1.058		
280	1.096		
300	1.124		
320	1.173		
340	1.244		
360	1.262		
380	1.278		



LTER 93a
Station: 590.050 (306) **Depth:** 360 m
Latitude: 64° 56.520' S **JulianDay:** 19
Longitude: 64° 41.700' W **GMT:** 0240

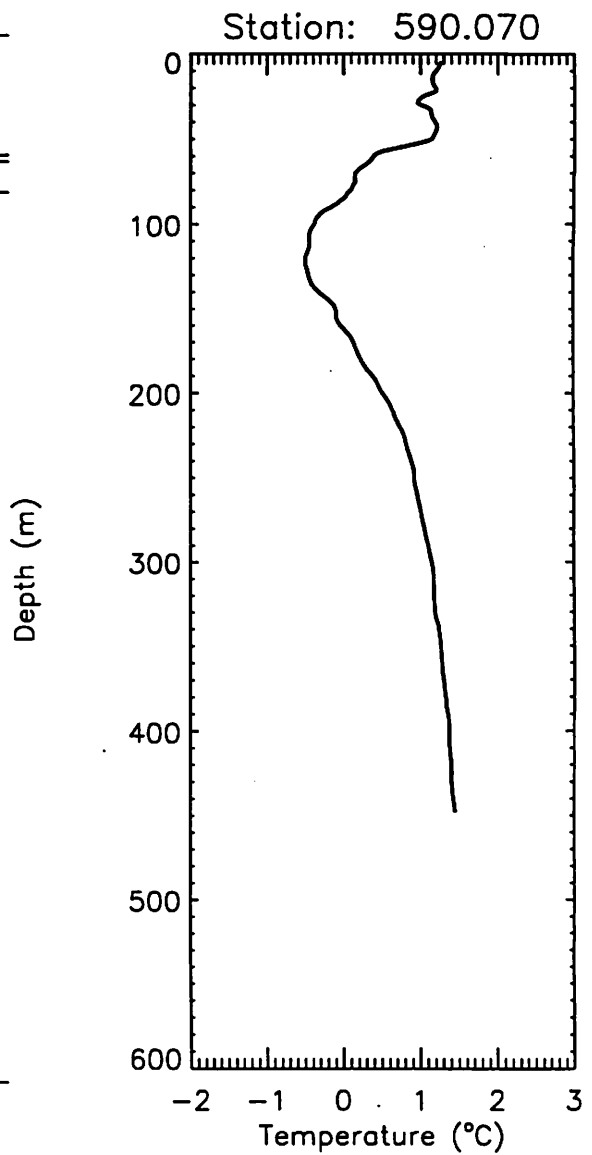
Depth	Temp
5	1.216
10	1.237
20	1.161
30	0.431
40	0.080
50	-0.048
60	-0.228
70	-0.259
80	-0.312
90	-0.407
100	-0.395
110	-0.222
120	0.054
130	0.223
140	0.420
150	0.522
160	0.636
180	0.718
200	0.834
220	0.879
240	0.946
260	1.011
280	1.069
300	1.097
320	1.115

Depth (m)



LTER	93a		
Station:	590.070 (314)	Depth:	450 m
Latitude:	64° 49.380' S	JulianDay:	19
Longitude:	65° 0.660' W	GMT:	0823

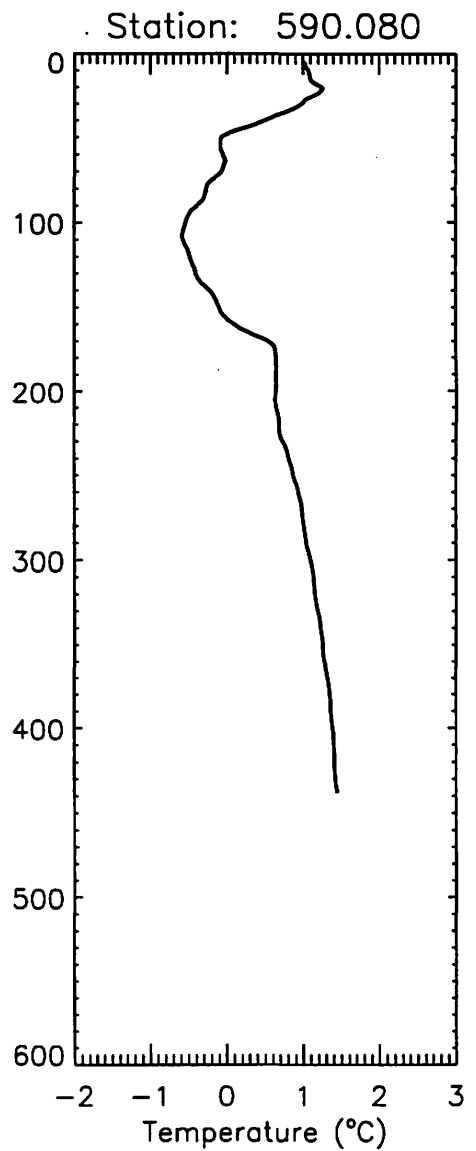
Depth	Temp
5	1.267
10	1.202
20	1.188
30	0.995
40	1.186
50	1.155
60	0.400
70	0.160
80	0.099
90	-0.158
100	-0.380
110	-0.443
120	-0.496
130	-0.453
140	-0.312
150	-0.100
160	-0.034
180	0.225
200	0.510
220	0.740
240	0.888
260	0.966
280	1.062
300	1.153
320	1.180
340	1.248
360	1.290
380	1.340
400	1.382
420	1.408



LTER 93a
Station: 590.080 (318) **Depth:** 440 m
Latitude: 64° 45.780' S **JulianDay:** 19
Longitude: 65° 9.780' W **GMT:** 0912

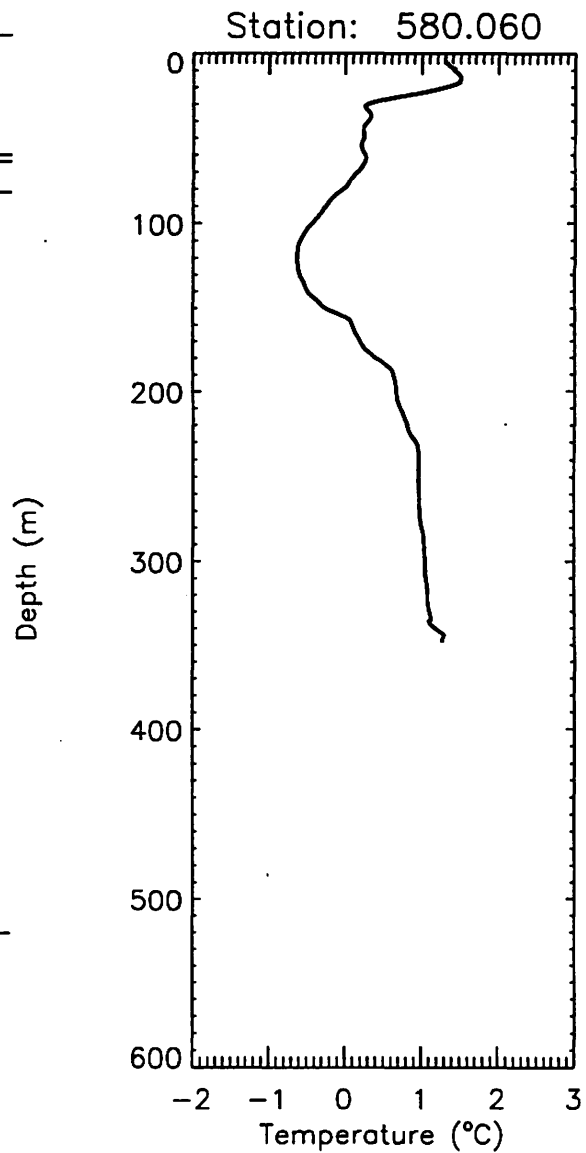
Depth	Temp
5	1.019
10	1.073
20	1.240
30	0.986
40	0.508
50	-0.070
60	-0.049
70	-0.065
80	-0.261
90	-0.378
100	-0.534
110	-0.572
120	-0.484
130	-0.403
140	-0.228
150	-0.099
160	0.099
180	0.643
200	0.643
220	0.686
240	0.811
260	0.937
280	1.008
300	1.096
320	1.155
340	1.226
360	1.278
380	1.351
400	1.387

Depth (m)



LTER	93a	Depth:	330 m
Station:	580.060 (326)	JulianDay:	19
Latitude:	64° 56.220' S	GMT:	1121
Longitude:	65° 0.180' W		

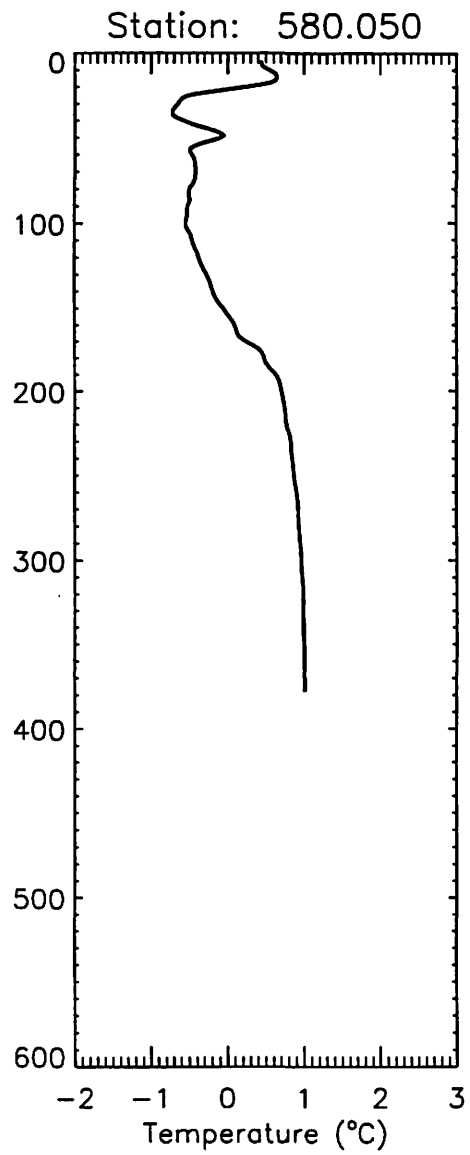
Depth	Temp
5	1.303
10	1.415
20	1.312
30	0.287
40	0.296
50	0.241
60	0.254
70	0.153
80	-0.028
90	-0.254
100	-0.434
110	-0.590
120	-0.634
130	-0.599
140	-0.499
150	-0.261
160	0.088
180	0.393
200	0.670
220	0.816
240	0.970
260	0.972
280	0.999
300	1.045
320	1.080



LTER 93a
Station: 580.050 (330) **Depth:** 380 m
Latitude: 65° 0.300' S **JulianDay:** 19
Longitude: 64° 50.820' W **GMT:** 1212

Depth	Temp
5	0.428
10	0.554
20	0.243
30	-0.648
40	-0.570
50	-0.081
60	-0.465
70	-0.416
80	-0.495
90	-0.518
100	-0.543
110	-0.459
120	-0.376
130	-0.271
140	-0.191
150	-0.060
160	0.089
180	0.477
200	0.701
220	0.767
240	0.845
260	0.904
280	0.930
300	0.961
320	0.986
340	0.992

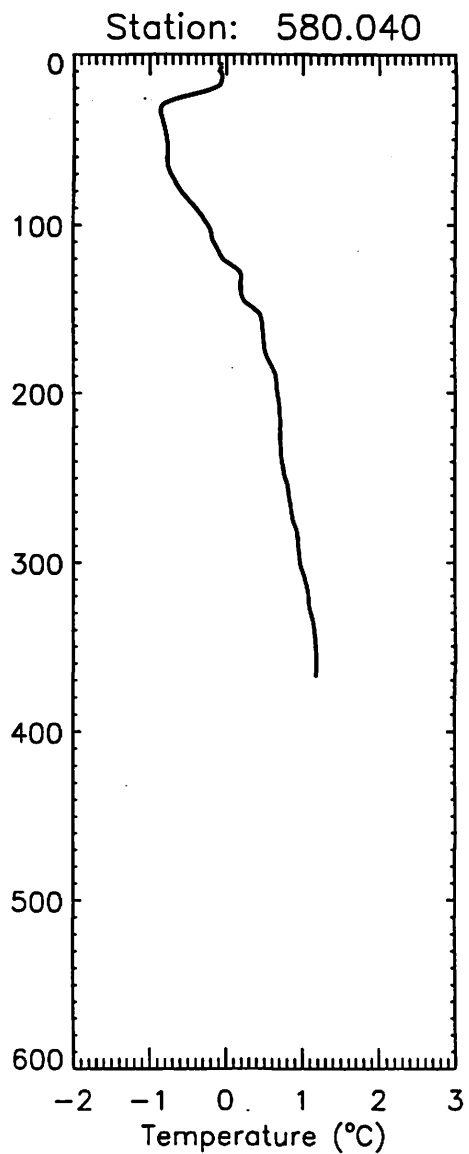
Depth (m)



LTER	93a		
Station:	580.040 (334)	Depth:	370 m
Latitude:	65° 3.240' S	JulianDay:	19
Longitude:	64° 43.020' W	GMT:	1303

Depth	Temp
5	-0.068
10	-0.084
20	-0.155
30	-0.834
40	-0.822
50	-0.771
60	-0.768
70	-0.714
80	-0.577
90	-0.389
100	-0.234
110	-0.160
120	-0.042
130	0.200
140	0.199
150	0.367
160	0.479
180	0.547
200	0.673
220	0.715
240	0.739
260	0.830
280	0.929
300	0.977
320	1.084
340	1.162

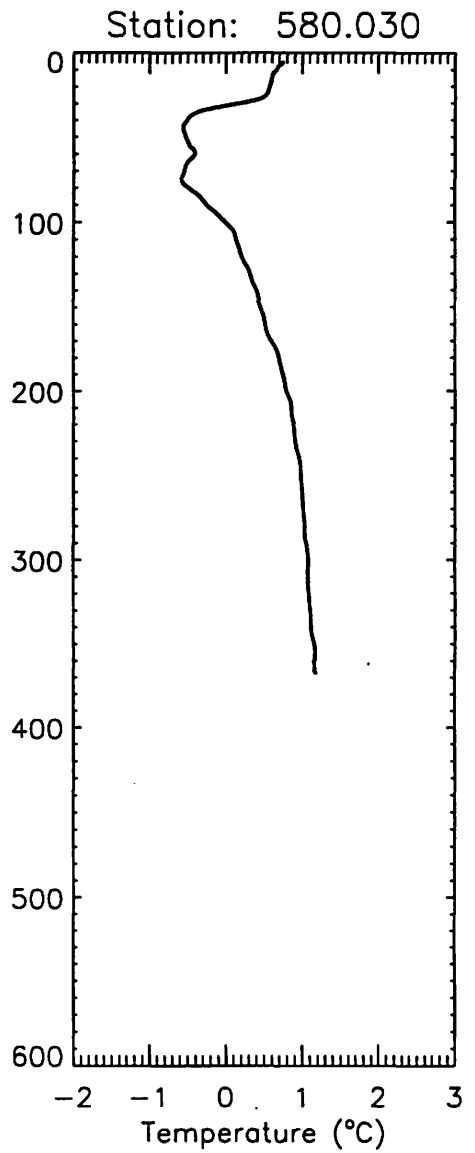
Depth (m)



LTER	93a	Depth:	370 m
Station:	580.030 (338)	JulianDay:	19
Latitude:	65° 7.620' S	GMT:	1448
Longitude:	64° 31.860' W		

Depth	Temp
5	0.751
10	0.662
20	0.572
30	0.191
40	-0.507
50	-0.530
60	-0.409
70	-0.547
80	-0.479
90	-0.250
100	-0.015
110	0.131
120	0.206
130	0.316
140	0.397
150	0.453
160	0.515
180	0.696
200	0.792
220	0.886
240	0.961
260	0.995
280	1.030
300	1.082
320	1.086
340	1.112

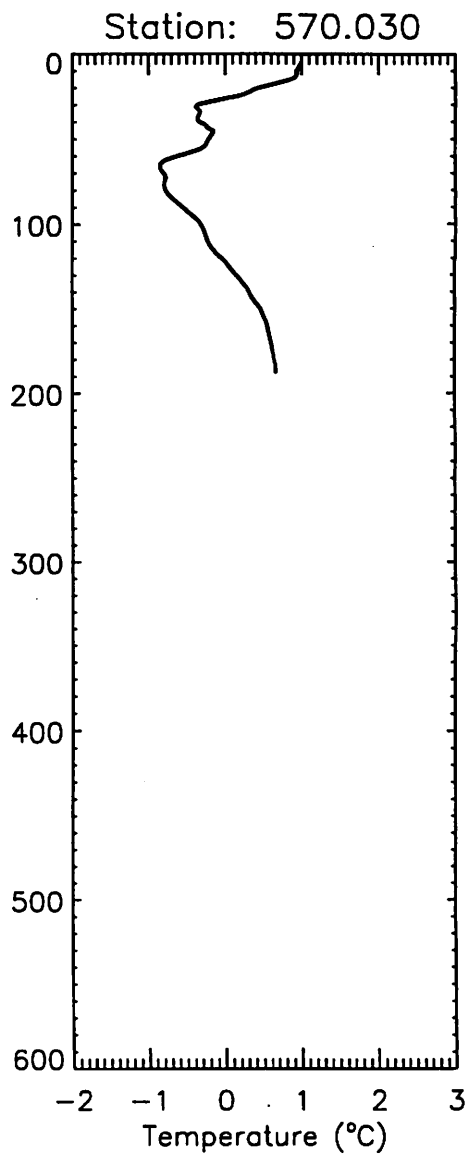
Depth (m)



LTER	93a		
Station:	570.030 (342)	Depth:	190 m
Latitude:	65° 11.580' S	JulianDay:	19
Longitude:	64° 39.540' W	GMT:	1546

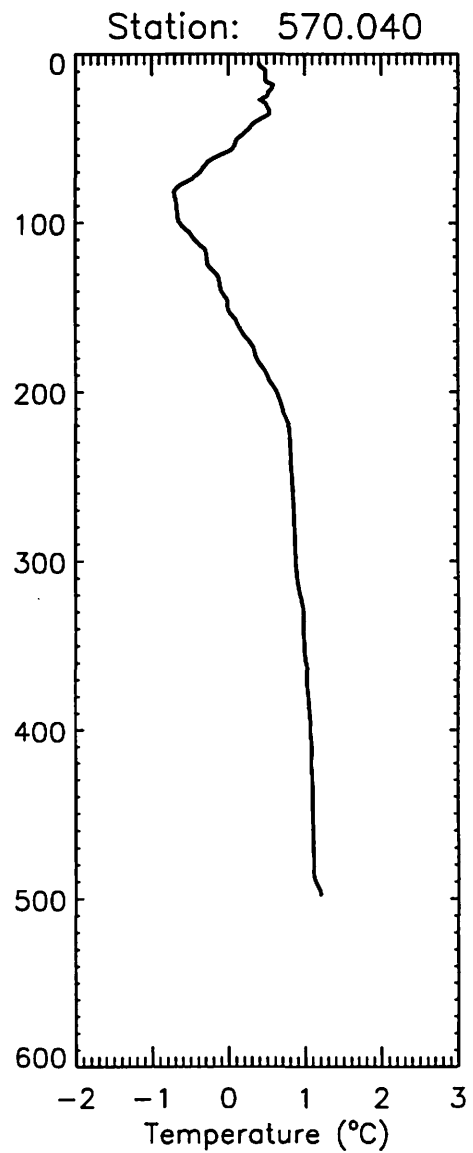
Depth	Temp
5	0.992
10	0.934
20	0.439
30	-0.364
40	-0.324
50	-0.216
60	-0.630
70	-0.799
80	-0.773
90	-0.546
100	-0.315
110	-0.225
120	-0.038
130	0.147
140	0.316
150	0.459
160	0.552

Depth (m)



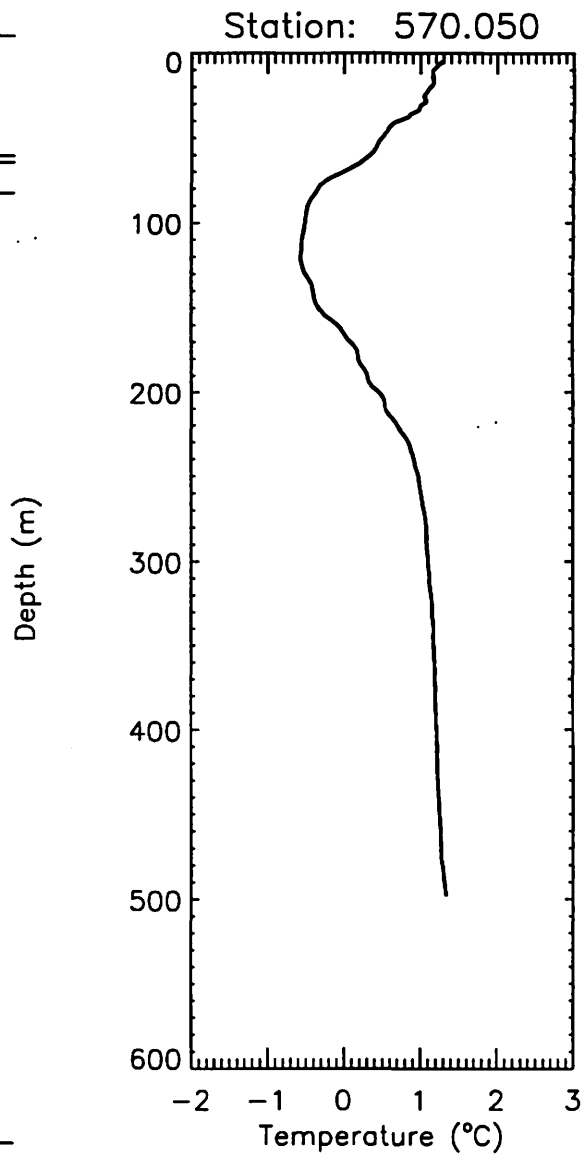
LTER 93a			
Station:	570.040 (346)	Depth:	540 m
Latitude:	65° 8.220' S	JulianDay:	19
Longitude:	64° 49.140' W	GMT:	1644
Depth	Temp		
5	0.395		
10	0.486		
20	0.573		
30	0.499		
40	0.364		
50	0.123		
60	-0.101		
70	-0.366		
80	-0.679		
90	-0.673		
100	-0.629		
110	-0.428		
120	-0.273		
130	-0.143		
140	-0.079		
150	0.001		
160	0.135		
180	0.376		
200	0.637		
220	0.794		
240	0.824		
260	0.848		
280	0.868		
300	0.876		
320	0.936		
340	0.979		
360	1.016		
380	1.047		
400	1.072		
420	1.082		
440	1.096		
460	1.104		

Depth (m)



LTER	93a		
Station:	570.050 (350)	Depth:	520 m
Latitude:	65° 4.620' S	JulianDay:	19
Longitude:	64° 58.620' W	GMT:	1738

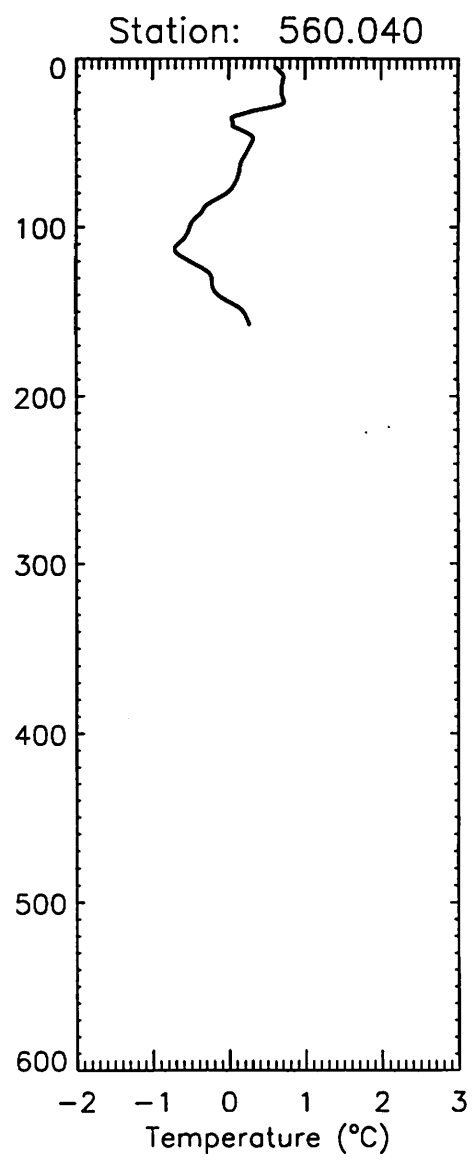
Depth	Temp
5	1.279
10	1.165
20	1.129
30	1.033
40	0.719
50	0.493
60	0.342
70	-0.008
80	-0.341
90	-0.476
100	-0.509
110	-0.550
120	-0.566
130	-0.501
140	-0.402
150	-0.332
160	-0.089
180	0.190
200	0.451
220	0.705
240	0.923
260	1.018
280	1.088
300	1.109
320	1.146
340	1.175
360	1.192
380	1.208
400	1.227
420	1.234
440	1.247
460	1.276



LTER 93a
Station: 560.040 (354) **Depth:** 160 m
Latitude: 65° 11.940' S **JulianDay:** 19
Longitude: 64° 58.620' W **GMT:** 1907

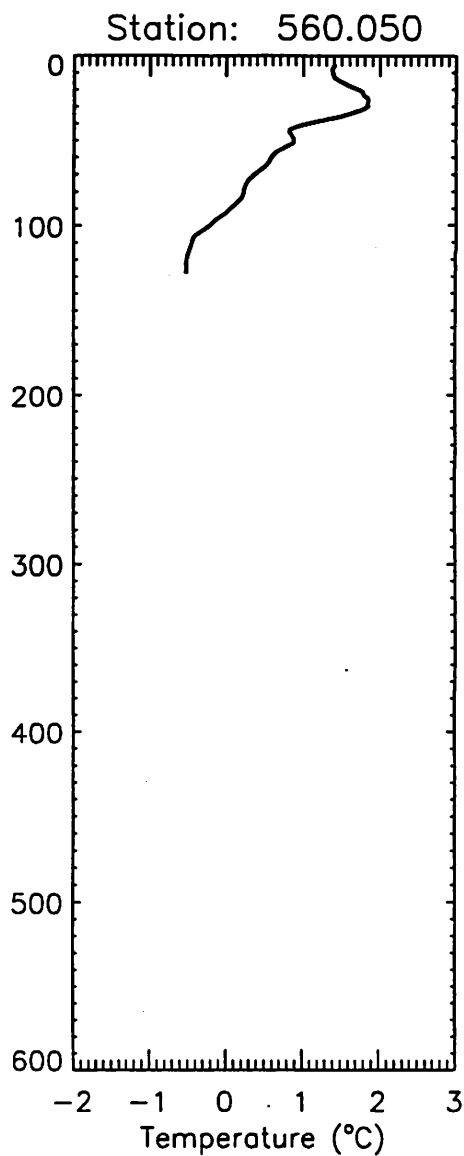
Depth	Temp
5	0.626
10	0.716
20	0.688
30	0.409
40	0.059
50	0.301
60	0.177
70	0.117
80	-0.025
90	-0.338
100	-0.513
110	-0.665
120	-0.509
130	-0.217
140	-0.145

Depth (m)



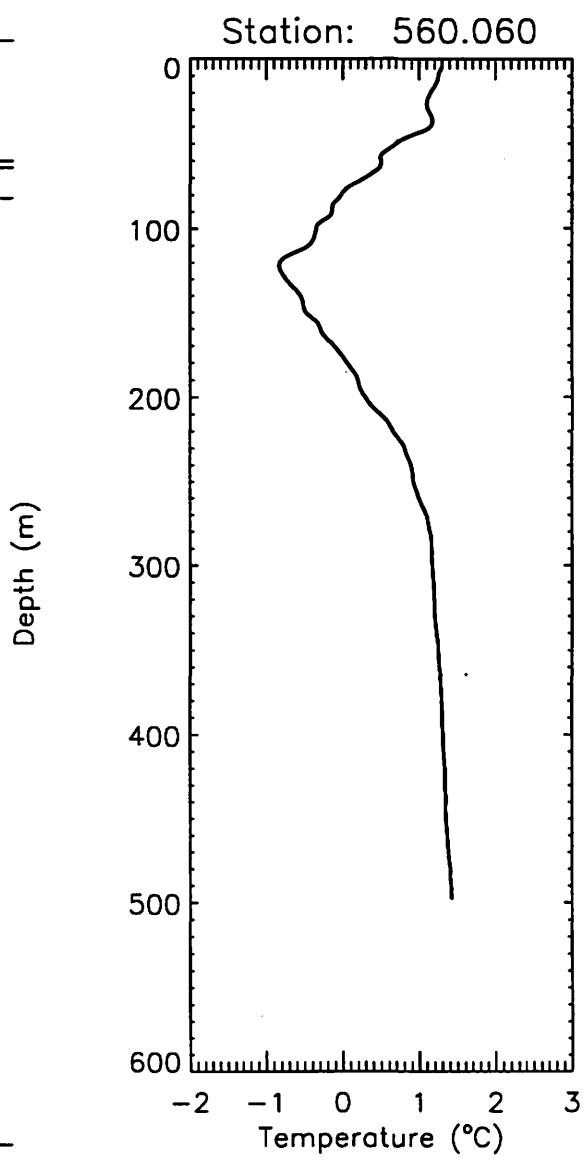
LTER	93a		
Station:	560.050 (360)	Depth:	130 m
Latitude:	65° 8.340' S	JulianDay:	19
Longitude:	65° 8.100' W	GMT:	2109
Depth	Temp		
5	1.408		
10	1.384		
20	1.715		
30	1.837		
40	1.085		
50	0.884		
60	0.591		
70	0.376		
80	0.228		
90	0.059		
100	-0.212		
110	-0.445		

Depth (m)



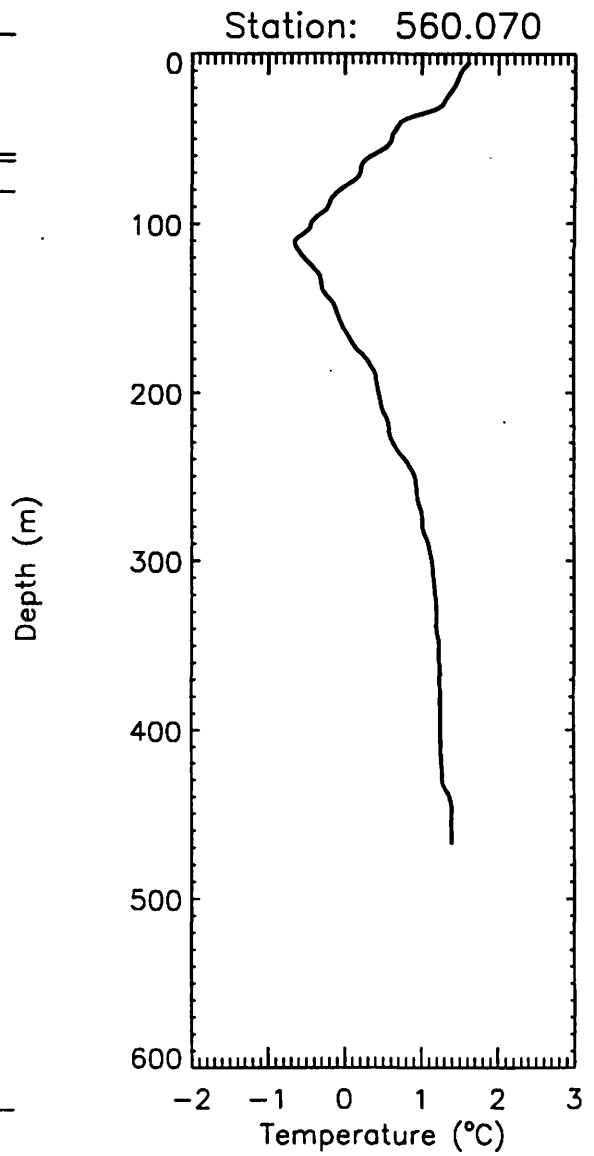
LTER	93a	Depth:	650 m
Station:	560.060 (364)	JulianDay:	19
Latitude:	65° 4.860' S	GMT:	2159
Longitude:	65° 17.160' W		

Depth	Temp
5	1.291
10	1.253
20	1.147
30	1.115
40	1.142
50	0.695
60	0.497
70	0.296
80	-0.017
90	-0.135
100	-0.343
110	-0.444
120	-0.818
130	-0.736
140	-0.545
150	-0.479
160	-0.287
180	0.055
200	0.297
220	0.658
240	0.892
260	0.991
280	1.135
300	1.167
320	1.196
340	1.224
360	1.257
380	1.289
400	1.307
420	1.333
440	1.343
460	1.361



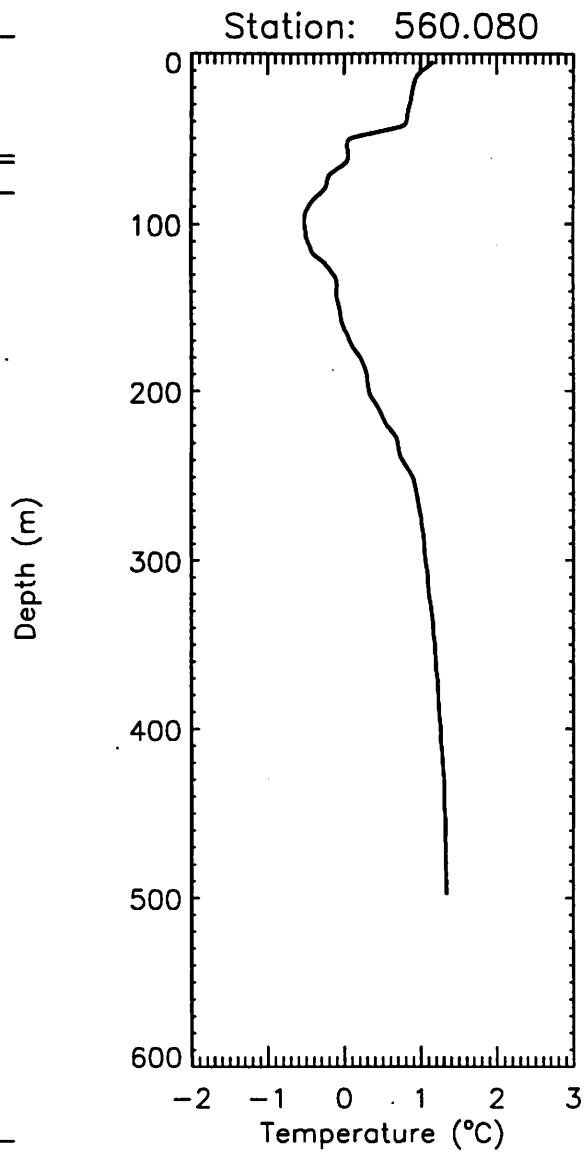
LTER	93a		
Station:	560.070 (368)	Depth:	470 m
Latitude:	65° 1.500' S	JulianDay:	19
Longitude:	65° 26.220' W	GMT:	2252

Depth	Temp
5	1.611
10	1.520
20	1.417
30	1.271
40	0.734
50	0.609
60	0.358
70	0.200
80	-0.049
90	-0.216
100	-0.436
110	-0.646
120	-0.526
130	-0.328
140	-0.270
150	-0.114
160	-0.026
180	0.284
200	0.446
220	0.576
240	0.788
260	0.950
280	1.018
300	1.136
320	1.181
340	1.199
360	1.236
380	1.255
400	1.258
420	1.270
440	1.369



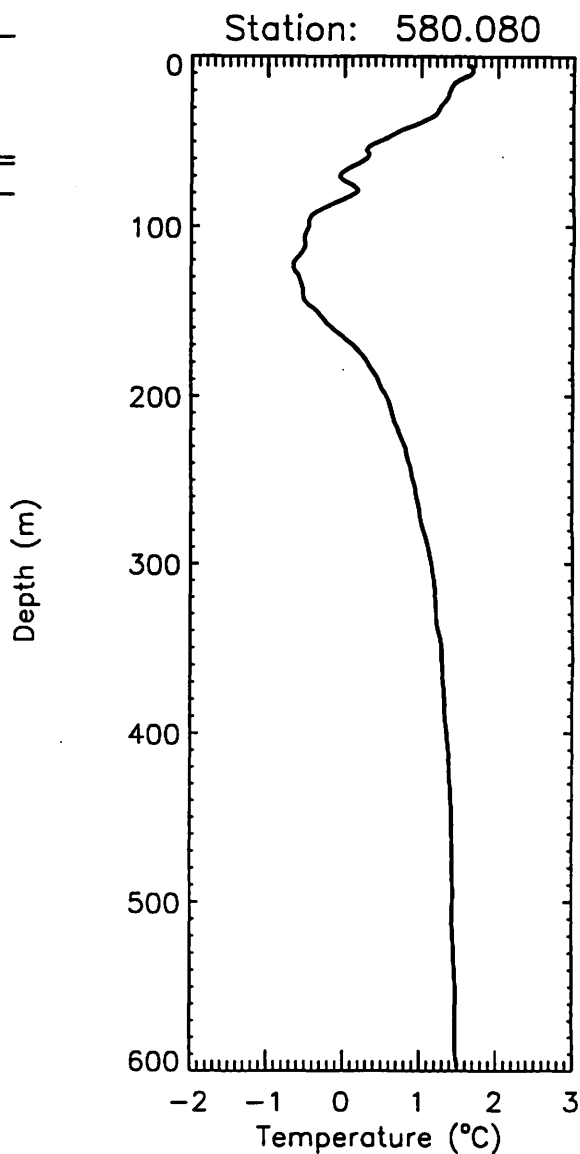
LTER 93a
Station: 560.080 (374) **Depth:** 570 m
Latitude: 65° 57.660' S **JulianDay:** 20
Longitude: 65° 35.820' W **GMT:** 0032

Depth	Temp
5	1.159
10	1.021
20	0.903
30	0.865
40	0.821
50	0.098
60	0.055
70	-0.139
80	-0.254
90	-0.462
100	-0.517
110	-0.474
120	-0.337
130	-0.131
140	-0.093
150	-0.057
160	-0.017
180	0.214
200	0.324
220	0.556
240	0.760
260	0.952
280	1.022
300	1.064
320	1.106
340	1.165
360	1.204
380	1.235
400	1.266
420	1.287
440	1.314
460	1.328



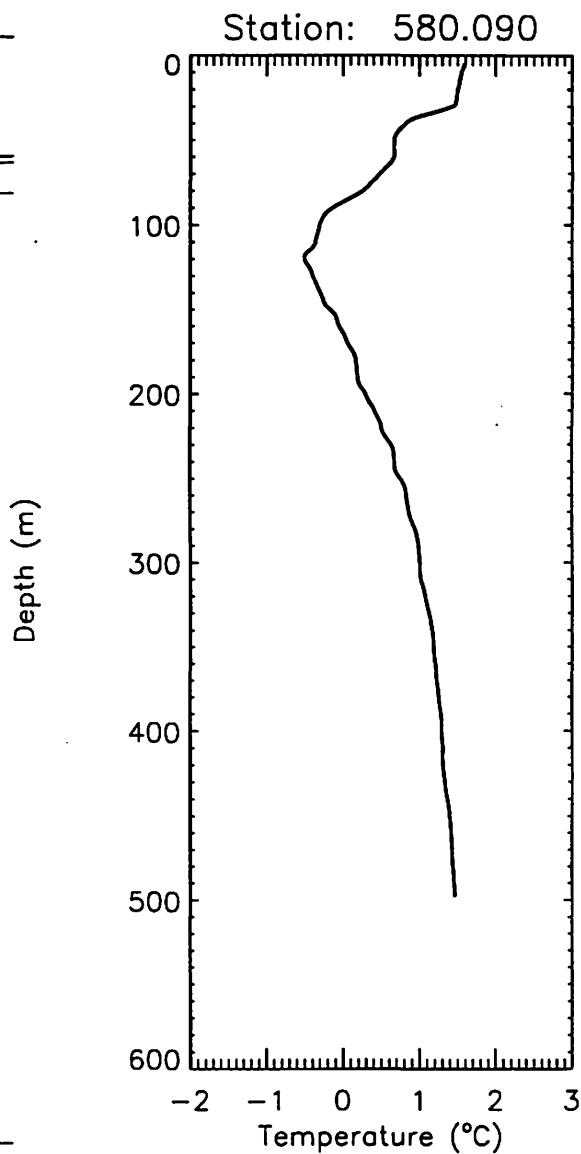
LTER	93a		
Station:	580.080 (382)	Depth:	600 m
Latitude:	64° 49.800' S	JulianDay:	20
Longitude:	65° 18.900' W	GMT:	0224

Depth	Temp
5	1.631
10	1.648
20	1.374
30	1.248
40	0.933
50	0.454
60	0.287
70	-0.057
80	0.157
90	-0.304
100	-0.455
110	-0.504
120	-0.631
130	-0.578
140	-0.526
150	-0.353
160	-0.152
180	0.313
200	0.560
220	0.712
240	0.862
260	0.959
280	1.054
300	1.158
320	1.207
340	1.244
360	1.294
380	1.331
400	1.359
420	1.397
440	1.415
460	1.426
480	1.436
500	1.440



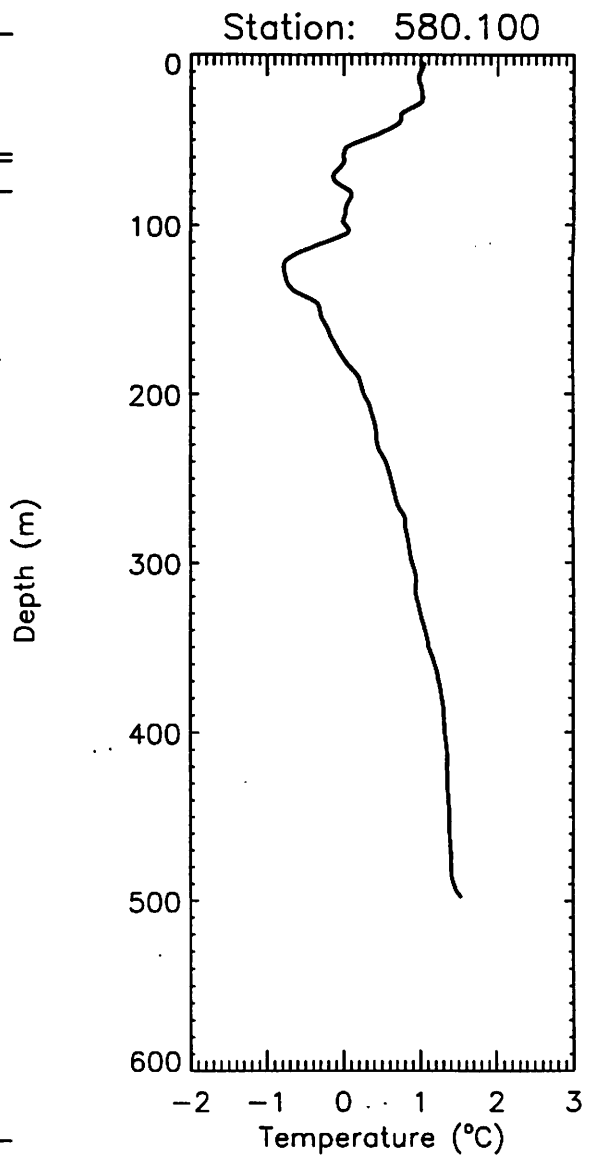
LTER	93a		
Station:	580.090 (386)	Depth:	660 m
Latitude:	64° 46.440' S	JulianDay:	20
Longitude:	65° 28.560' W	GMT:	0319

Depth	Temp
5	1.587
10	1.551
20	1.504
30	1.437
40	0.825
50	0.669
60	0.664
70	0.485
80	0.267
90	-0.132
100	-0.305
110	-0.357
120	-0.506
130	-0.394
140	-0.296
150	-0.177
160	-0.054
180	0.170
200	0.288
220	0.500
240	0.670
260	0.827
280	0.936
300	1.002
320	1.072
340	1.167
360	1.208
380	1.255
400	1.295
420	1.310
440	1.368
460	1.416



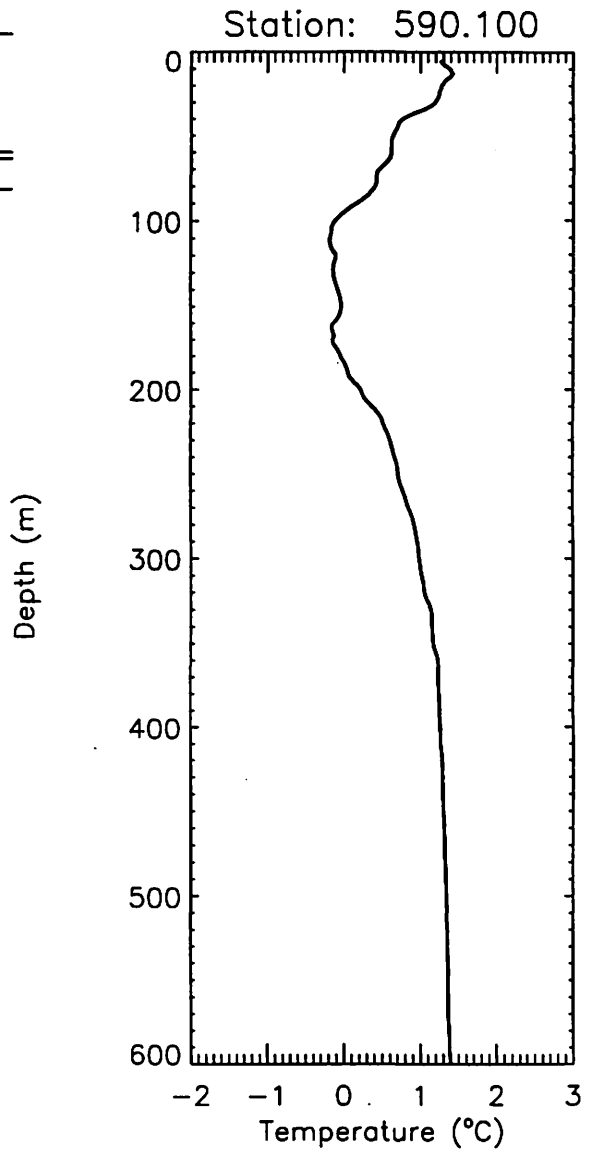
LTER	93a		
Station:	580.100 (390)	Depth:	570 m
Latitude:	64° 42.060' S	JulianDay:	20
Longitude:	65° 37.080' W	GMT:	0640

Depth	Temp
5	1.040
10	1.002
20	1.010
30	0.946
40	0.727
50	0.275
60	-0.002
70	-0.129
80	0.082
90	0.027
100	0.025
110	-0.214
120	-0.715
130	-0.755
140	-0.615
150	-0.307
160	-0.227
180	0.007
200	0.266
220	0.421
240	0.551
260	0.675
280	0.816
300	0.893
320	0.948
340	1.064
360	1.187
380	1.286
400	1.320
420	1.350
440	1.373
460	1.387



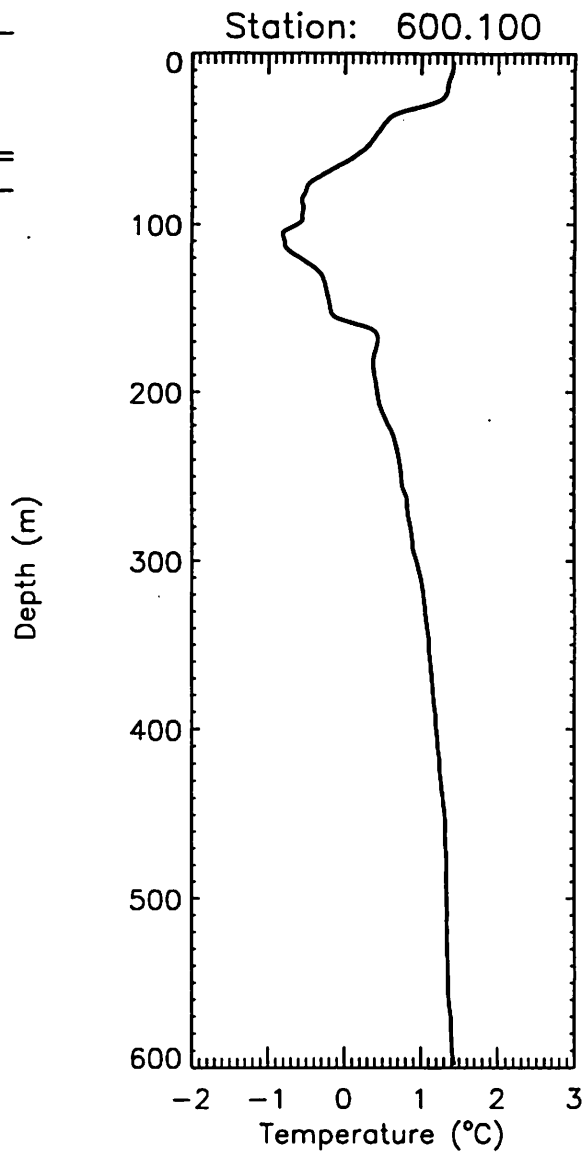
LTER 93a
Station: 590.100 (394) **Depth:** 630 m
Latitude: 64° 38.580' S **JulianDay:** 20
Longitude: 65° 29.220' W **GMT:** 0737

Depth	Temp
5	1.270
10	1.390
20	1.282
30	1.191
40	0.766
50	0.643
60	0.619
70	0.462
80	0.415
90	0.176
100	-0.109
110	-0.179
120	-0.098
130	-0.134
140	-0.079
150	-0.034
160	-0.124
180	-0.046
200	0.212
220	0.510
240	0.664
260	0.771
280	0.918
300	0.984
320	1.052
340	1.156
360	1.229
380	1.248
400	1.265
420	1.290
440	1.300
460	1.318
480	1.332
500	1.341
550	1.363



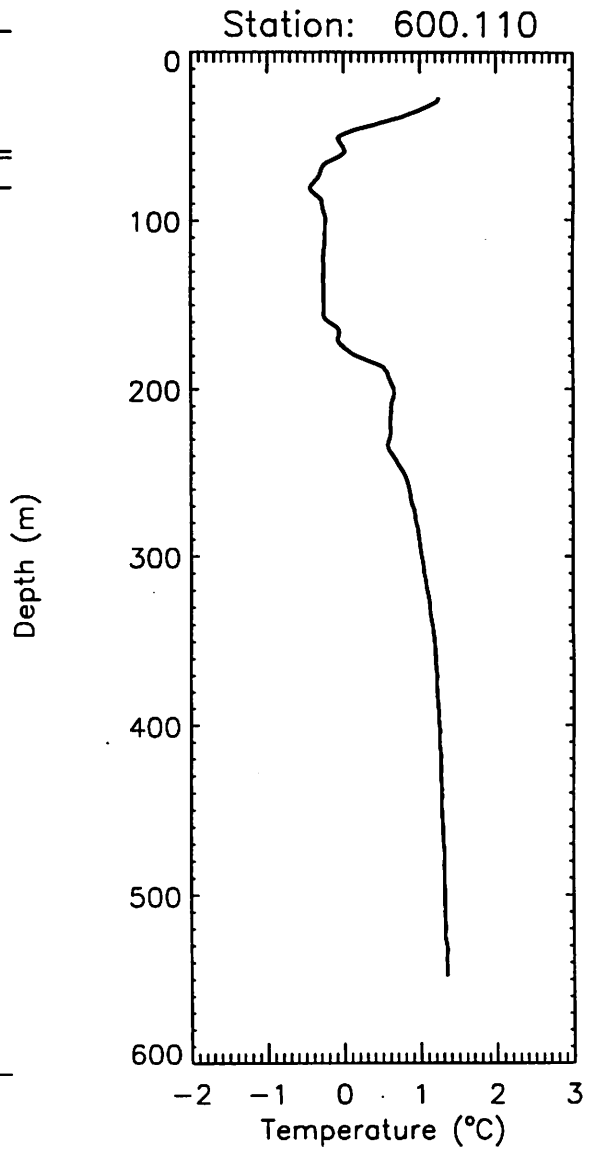
LTER	93a		
Station:	600.100 (398)	Depth:	600 m
Latitude:	64° 34.740' S	JulianDay:	20
Longitude:	65° 21.240' W	GMT:	0828

Depth	Temp
5	1.413
10	1.405
20	1.341
30	1.101
40	0.552
50	0.388
60	0.152
70	-0.234
80	-0.502
90	-0.536
100	-0.613
110	-0.779
120	-0.574
130	-0.291
140	-0.227
150	-0.185
160	0.185
180	0.384
200	0.435
220	0.576
240	0.715
260	0.792
280	0.861
300	0.942
320	1.031
340	1.075
360	1.121
380	1.159
400	1.203
420	1.247
440	1.285
460	1.320
480	1.336
500	1.340



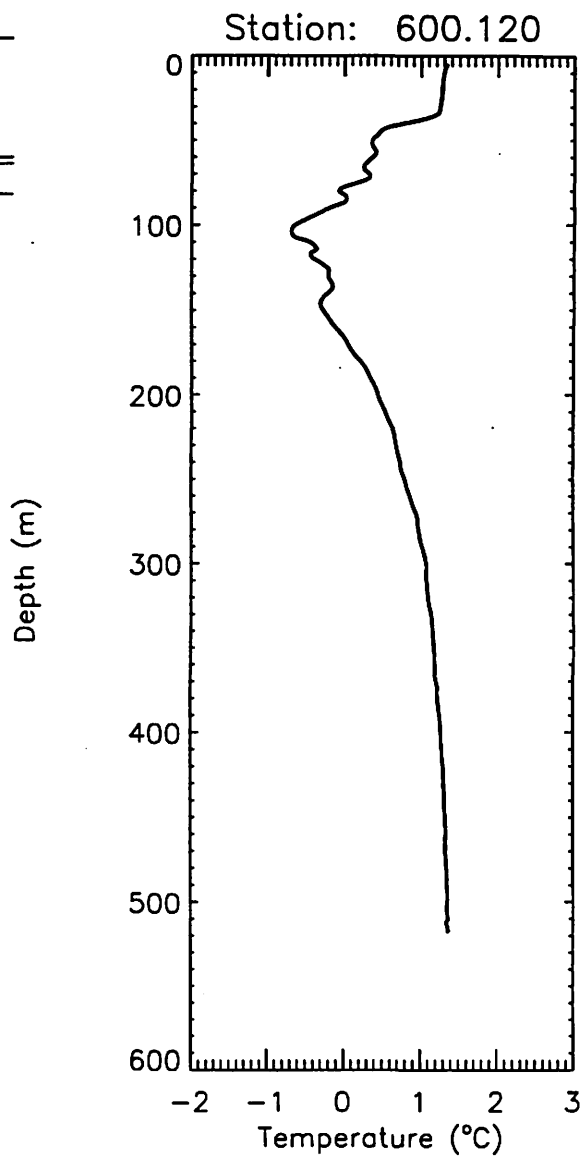
LTER 93a
Station: 600.110 (404) **Depth:** 550 m
Latitude: 64° 31.140' S **JulianDay:** 20
Longitude: 65° 29.760' W **GMT:** 1016

Depth	Temp
30	1.191
40	0.623
50	-0.057
60	0.002
70	-0.293
80	-0.432
90	-0.275
100	-0.232
110	-0.234
120	-0.255
130	-0.252
140	-0.253
150	-0.251
160	-0.188
180	0.165
200	0.660
220	0.612
240	0.653
260	0.864
280	0.950
300	1.019
320	1.089
340	1.163
360	1.205
380	1.223
400	1.250
420	1.269
440	1.279
460	1.291
480	1.310



LTER 93a
Station: 600.120 (408) **Depth:** 520 m
Latitude: 64° 27.540' S **JulianDay:** 20
Longitude: 65° 38.580' W **GMT:** 1108

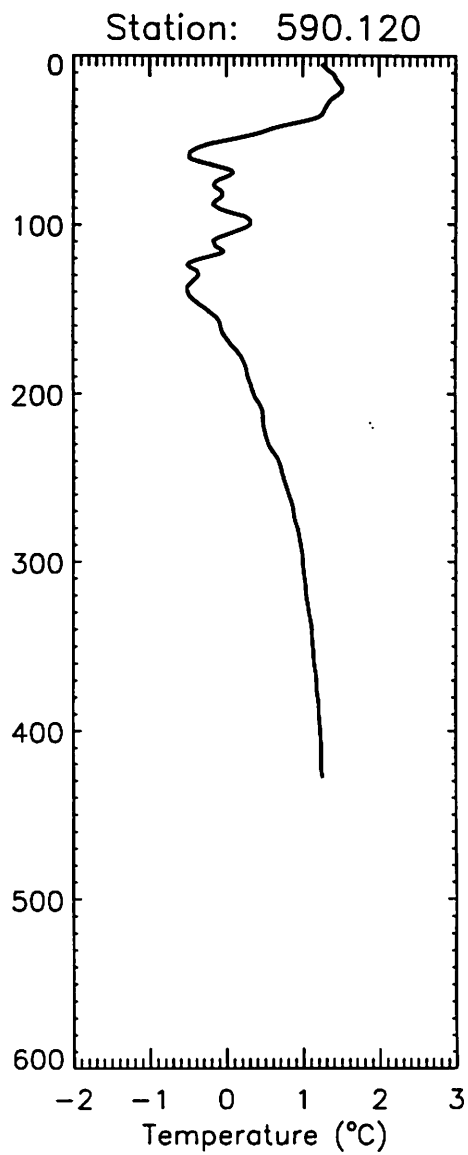
Depth	Temp
5	1.333
10	1.295
20	1.273
30	1.246
40	0.764
50	0.360
60	0.369
70	0.314
80	-0.068
90	-0.190
100	-0.641
110	-0.442
120	-0.380
130	-0.206
140	-0.210
150	-0.270
160	-0.109
180	0.215
200	0.444
220	0.637
240	0.735
260	0.861
280	0.976
300	1.073
320	1.099
340	1.159
360	1.187
380	1.230
400	1.276
420	1.299
440	1.317
460	1.336
480	1.352



LTER 93a
Station: 590.120 (415) **Depth:** 430 m
Latitude: 64° 31.380' S **JulianDay:** 20
Longitude: 65° 46.800' W **GMT:** 1311

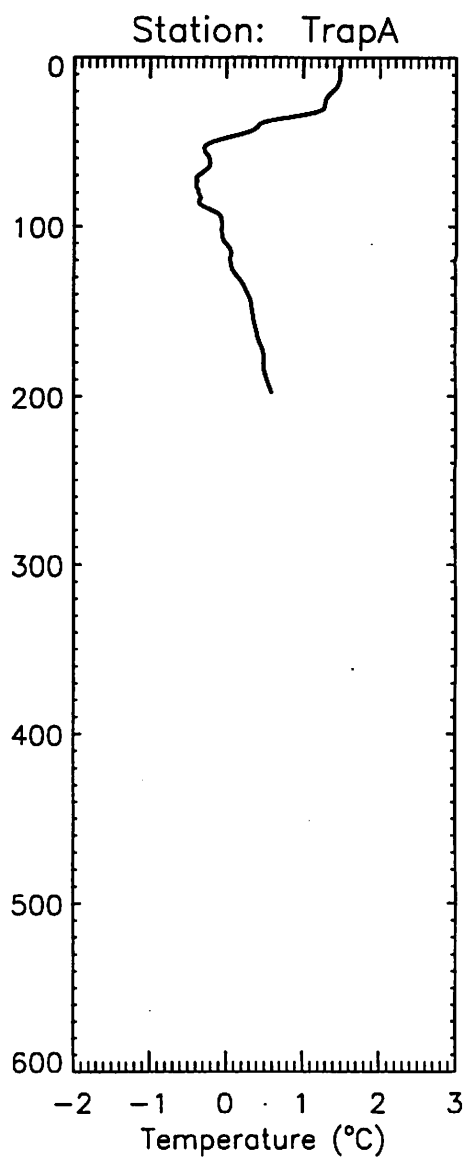
Depth	Temp
5	1.255
10	1.377
20	1.517
30	1.306
40	0.869
50	0.012
60	-0.479
70	0.065
80	-0.060
90	-0.105
100	0.314
110	-0.165
120	-0.292
130	-0.359
140	-0.498
150	-0.266
160	-0.073
180	0.213
200	0.356
220	0.489
240	0.686
260	0.818
280	0.933
300	1.000
320	1.041
340	1.118
360	1.145
380	1.190
400	1.221

Depth (m)



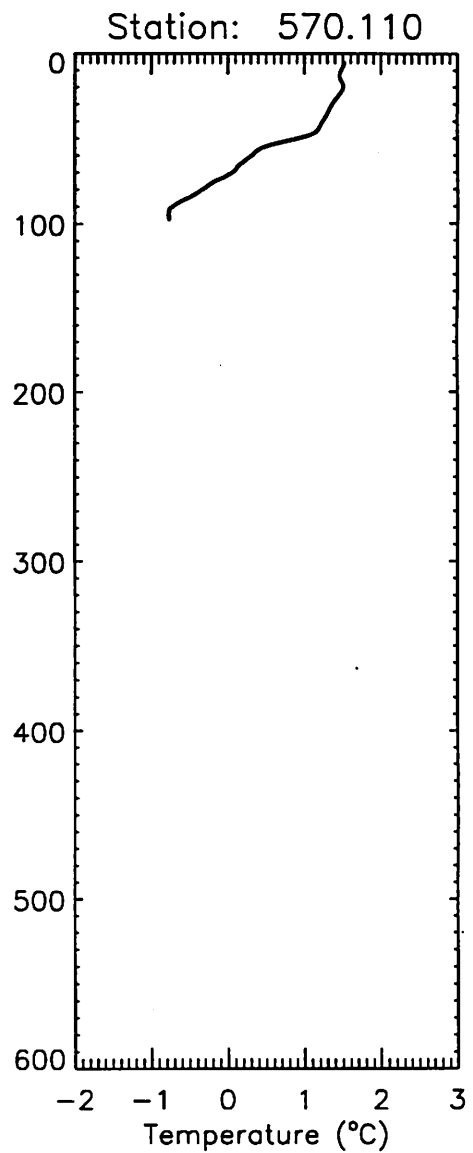
LTER 93a	
Station:	TrapA (421) Depth: 340 m
Latitude:	64° 30.180' S JulianDay: 20
Longitude:	66° 1.740' W GMT: 1451
Depth	Temp
5	1.471
10	1.479
20	1.376
30	1.267
40	0.422
50	-0.166
60	-0.221
70	-0.364
80	-0.366
90	-0.205
100	-0.054
110	-0.007
120	0.056
130	0.158
140	0.289
150	0.344
160	0.392

Depth (m)



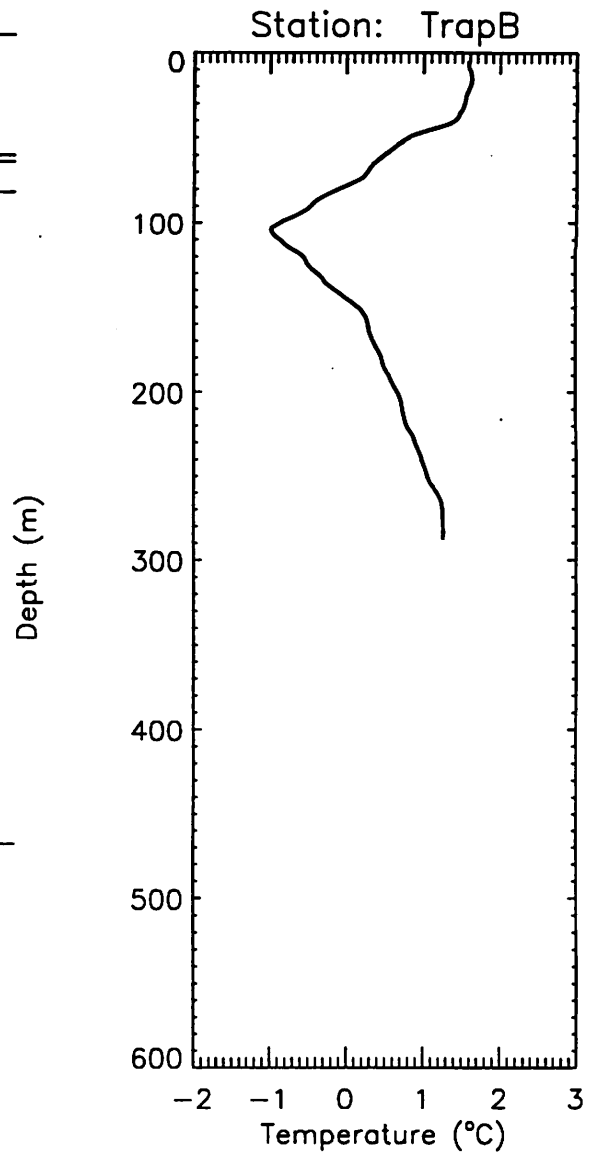
LTER 93a	
Station: 570.110 (425)	Depth: 300 m
Latitude: 64° 42.660' S	JulianDay: 20
Longitude: 65° 55.140' W	GMT: 1635
Depth	Temp
5	1.520
10	1.479
20	1.509
30	1.365
40	1.241
50	0.928
60	0.321
70	0.068
80	-0.327

Depth (m)



LTER	93a	Depth:	290 m
Station:	TrapB (427)	JulianDay:	20
Latitude:	64° 43.740' S	GMT:	1725
Longitude:	66° 11.040' W		

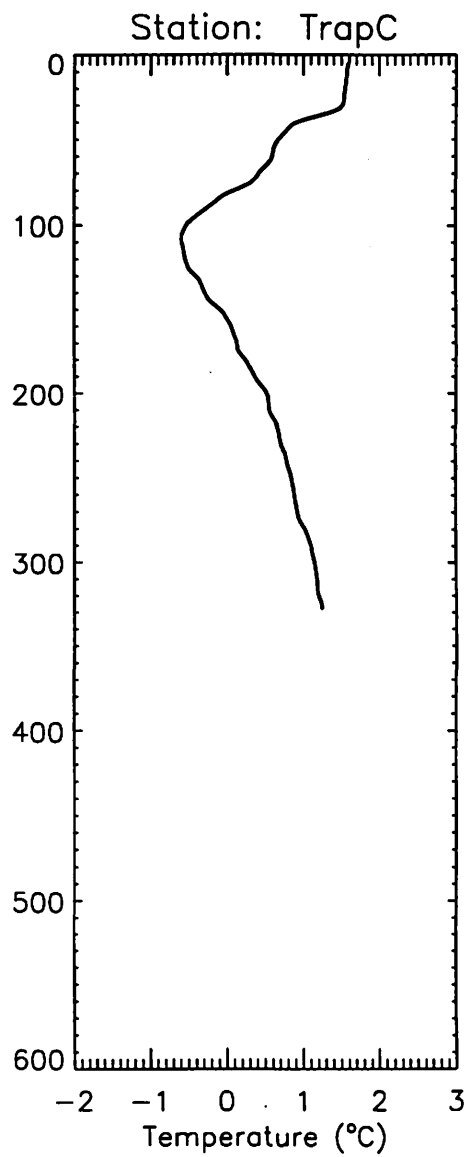
Depth	Temp
5	1.581
10	1.604
20	1.602
30	1.533
40	1.406
50	0.806
60	0.493
70	0.274
80	-0.102
90	-0.470
100	-0.867
110	-0.860
120	-0.559
130	-0.373
140	-0.144
150	0.154
160	0.282
180	0.463
200	0.666
220	0.792
240	0.992
260	1.190



LTER 93a
Station: TrapC (429) **Depth:** 330 m
Latitude: 64° 44.220' S **JulianDay:** 20
Longitude: 65° 50.760' W **GMT:** 1838

Depth	Temp
5	1.591
10	1.571
20	1.546
30	1.512
40	0.923
50	0.674
60	0.590
70	0.415
80	0.101
90	-0.258
100	-0.531
110	-0.591
120	-0.546
130	-0.408
140	-0.290
150	-0.088
160	0.057
180	0.238
200	0.517
220	0.659
240	0.782
260	0.881
280	1.020
300	1.146

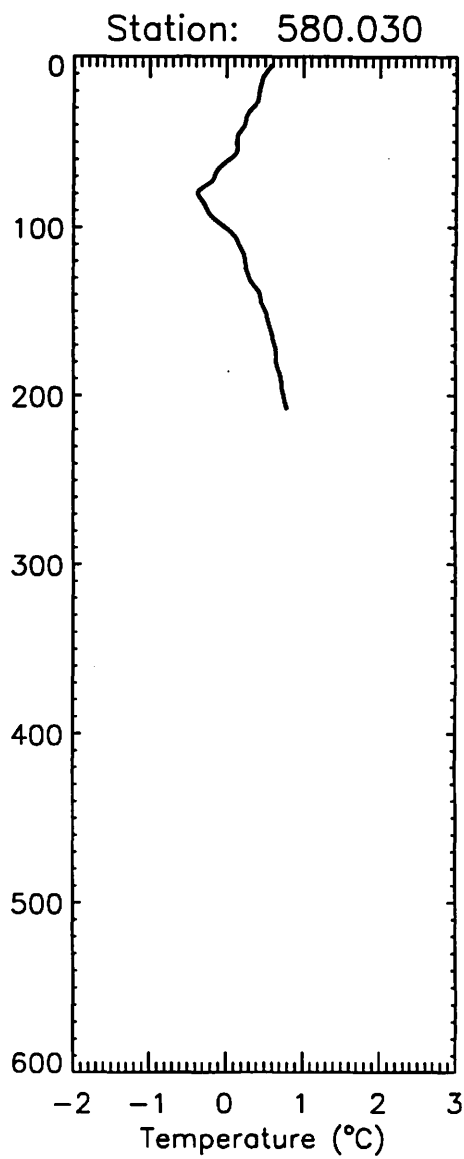
Depth (m)



LTER 93a	
Station:	580.030 (448)
Latitude:	65° 7.740' S
Longitude:	64° 31.560' W
Depth:	210 m
JulianDay:	22
GMT:	1126

Depth	Temp
5	0.584
10	0.506
20	0.429
30	0.346
40	0.241
50	0.140
60	0.047
70	-0.154
80	-0.367
90	-0.246
100	-0.019
110	0.161
120	0.250
130	0.305
140	0.445
150	0.512
160	0.573
180	0.658

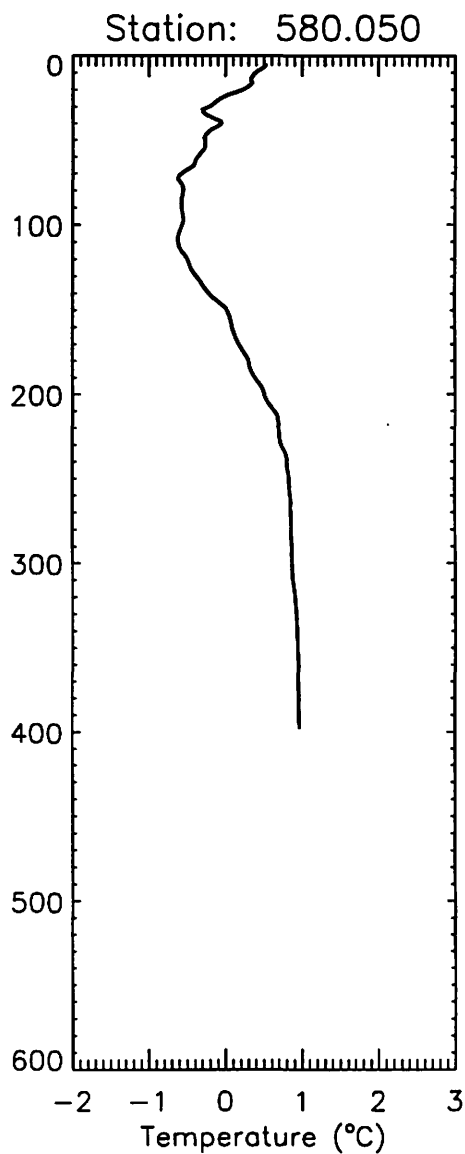
Depth (m)



LTER	93a	Depth:	400 m
Station:	580.050 (467)	JulianDay:	22
Latitude:	65° 0.540' S	GMT:	1627
Longitude:	64° 50.280' W		

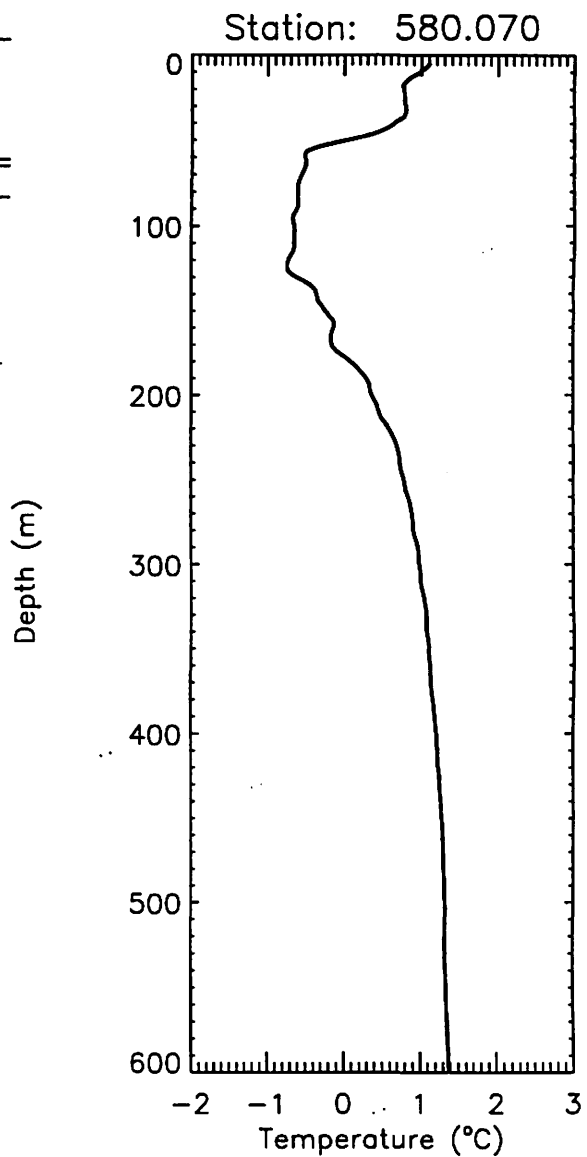
Depth	Temp
5	0.525
10	0.398
20	0.230
30	-0.200
40	-0.054
50	-0.266
60	-0.356
70	-0.569
80	-0.548
90	-0.569
100	-0.561
110	-0.615
120	-0.495
130	-0.380
140	-0.213
150	0.020
160	0.088
180	0.304
200	0.506
220	0.699
240	0.808
260	0.845
280	0.860
300	0.871
320	0.913
340	0.938
360	0.956

Depth (m)



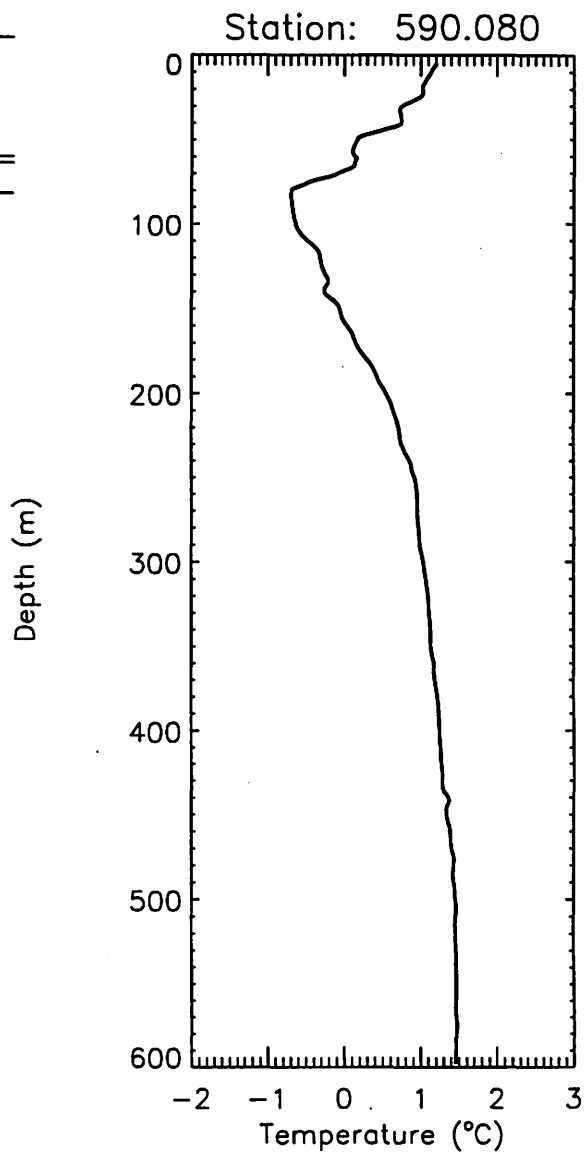
LTER 93a
Station: 580.070 (479) **Depth:** 650 m
Latitude: 64° 52.980' S **JulianDay:** 22
Longitude: 65° 9.480' W **GMT:** 2007

Depth	Temp
5	1.107
10	0.985
20	0.777
30	0.799
40	0.654
50	0.057
60	-0.511
70	-0.558
80	-0.603
90	-0.612
100	-0.647
110	-0.650
120	-0.721
130	-0.632
140	-0.357
150	-0.247
160	-0.134
180	0.075
200	0.358
220	0.583
240	0.735
260	0.840
280	0.910
300	0.989
320	1.052
340	1.086
360	1.130
380	1.166
400	1.209
420	1.236
440	1.269
460	1.298
480	1.310
500	1.320
550	1.342



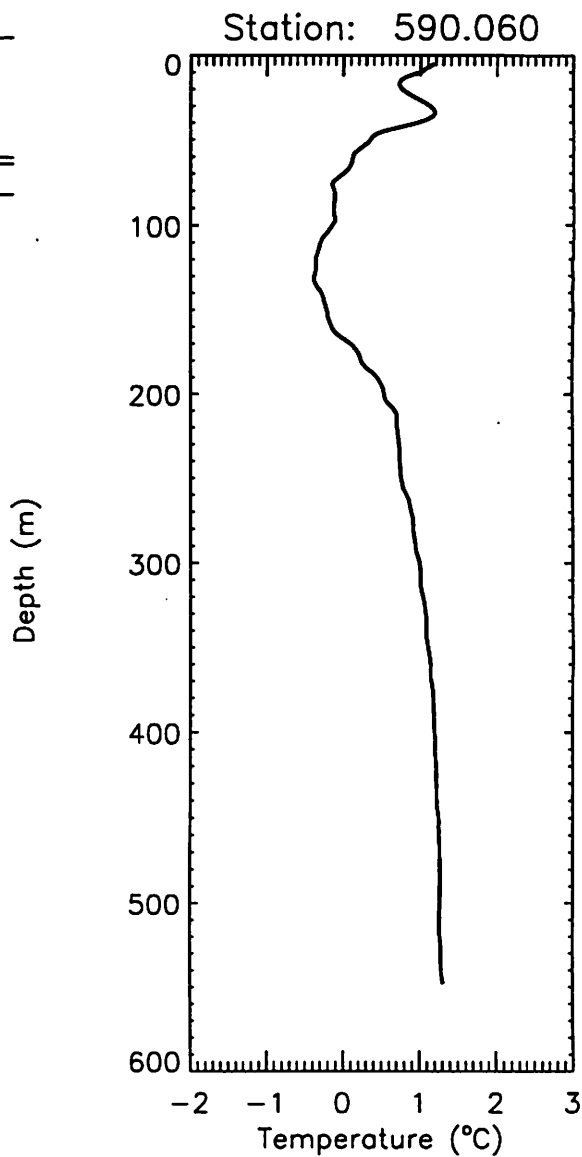
LTER	93a	Depth:	600 m
Station:	590.080 (485)	JulianDay:	22
Latitude:	64° 45.840' S	GMT:	2207
Longitude:	65° 10.260' W		

Depth	Temp
5	1.201
10	1.133
20	1.025
30	0.758
40	0.746
50	0.166
60	0.145
70	-0.081
80	-0.685
90	-0.672
100	-0.630
110	-0.471
120	-0.315
130	-0.244
140	-0.261
150	-0.057
160	0.040
180	0.300
200	0.543
220	0.710
240	0.851
260	0.948
280	0.970
300	1.038
320	1.098
340	1.127
360	1.172
380	1.225
400	1.251
420	1.275
440	1.366
460	1.387
480	1.431
500	1.451



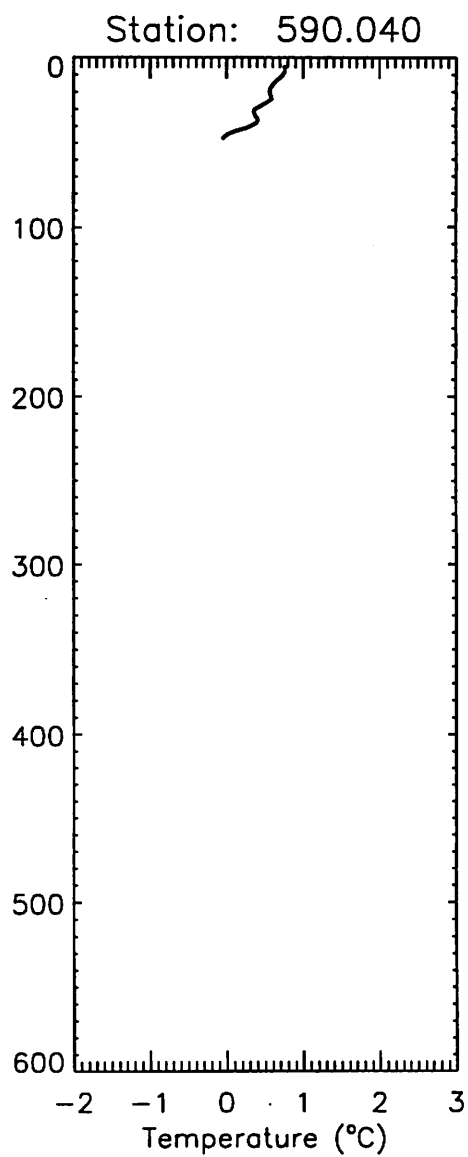
LTER	93a	Depth:	550 m
Station:	590.060 (497)	JulianDay:	23
Latitude:	64° 53.100' S	GMT:	0210
Longitude:	64° 50.880' W		

Depth	Temp
5	1.165
10	1.006
20	0.769
30	1.125
40	0.979
50	0.354
60	0.123
70	0.005
80	-0.118
90	-0.122
100	-0.137
110	-0.293
120	-0.359
130	-0.374
140	-0.282
150	-0.215
160	-0.149
180	0.232
200	0.536
220	0.704
240	0.737
260	0.825
280	0.912
300	1.000
320	1.050
340	1.088
360	1.150
380	1.184
400	1.203
420	1.219
440	1.228
460	1.254
480	1.266



LTER	93a		
Station:	590.040 (512)	Depth:	900 m
Latitude:	65° -0.000' S	JulianDay:	23
Longitude:	64° 32.580' W	GMT:	0740
Depth		Temp	
5		0.754	
10		0.736	
20		0.565	
30		0.385	

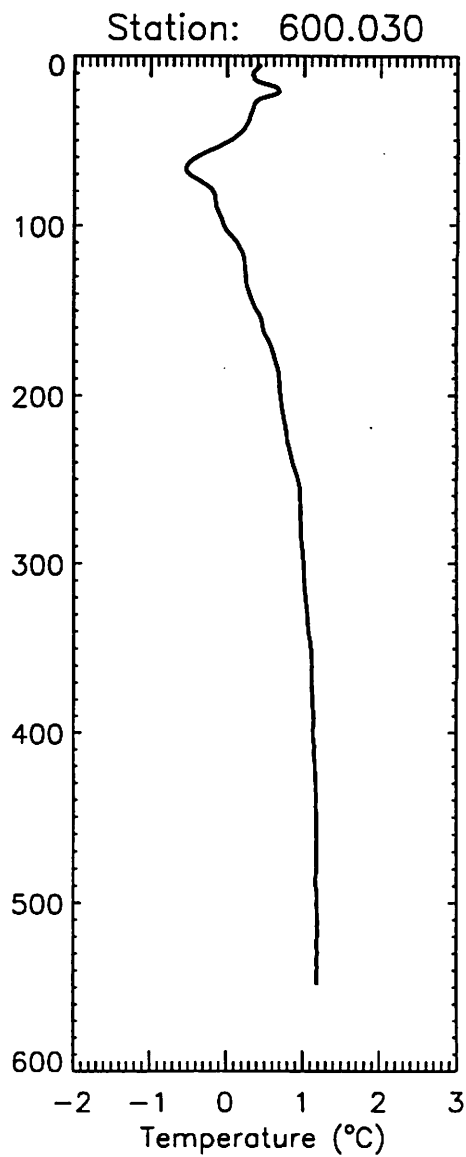
Depth (m)



LTER 93a
Station: 600.030 (522) **Depth:** 550 m
Latitude: 64° 59.580' S **JulianDay:** 23
Longitude: 64° 14.460' W **GMT:** 1203

Depth	Temp
5	0.423
10	0.340
20	0.672
30	0.344
40	0.262
50	0.044
60	-0.394
70	-0.494
80	-0.181
90	-0.132
100	-0.037
110	0.136
120	0.236
130	0.251
140	0.300
150	0.392
160	0.470
180	0.641
200	0.707
220	0.779
240	0.861
260	0.961
280	0.970
300	1.007
320	1.034
340	1.072
360	1.117
380	1.128
400	1.134
420	1.159
440	1.175
460	1.182
480	1.183

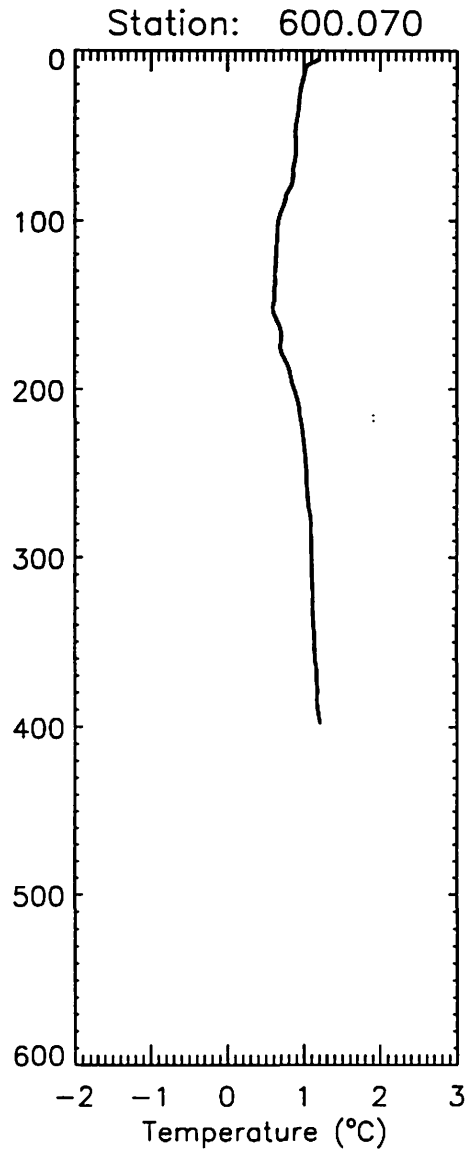
Depth (m)



LTER	93a	Depth:	400 m
Station:	600.070 (549)	JulianDay:	23
Latitude:	64° 45.420' S	GMT:	2023
Longitude:	64° 52.140' W		

Depth	Temp
5	1.191
10	1.032
20	0.977
30	0.946
40	0.913
50	0.892
60	0.898
70	0.865
80	0.830
90	0.741
100	0.666
110	0.654
120	0.638
130	0.626
140	0.616
150	0.598
160	0.656
180	0.724
200	0.878
220	0.969
240	1.021
260	1.041
280	1.092
300	1.099
320	1.115
340	1.129
360	1.149

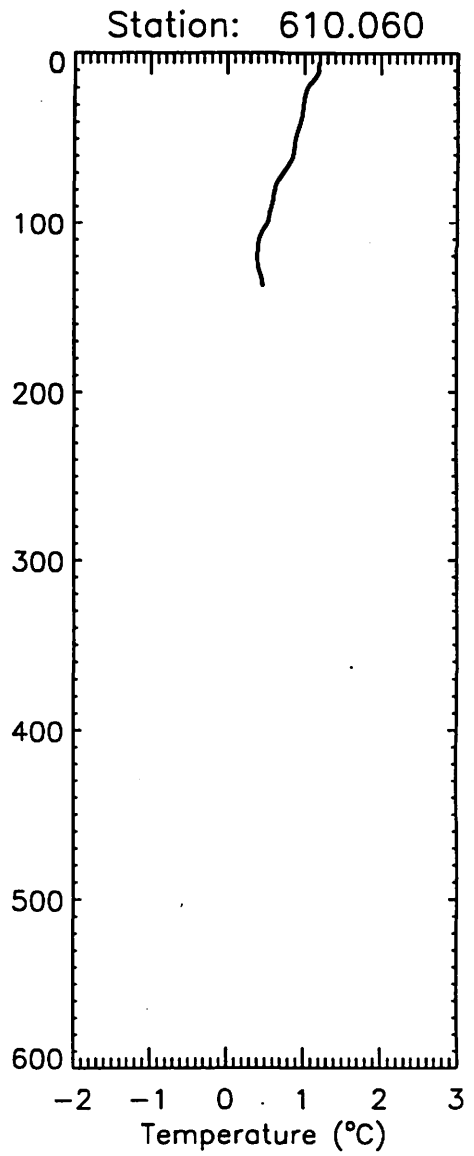
Depth (m)



LTER	93a		
Station:	610.060 (588)	Depth:	140 m
Latitude:	64° 44.640' S	JulianDay:	24
Longitude:	64° 35.160' W	GMT:	1139

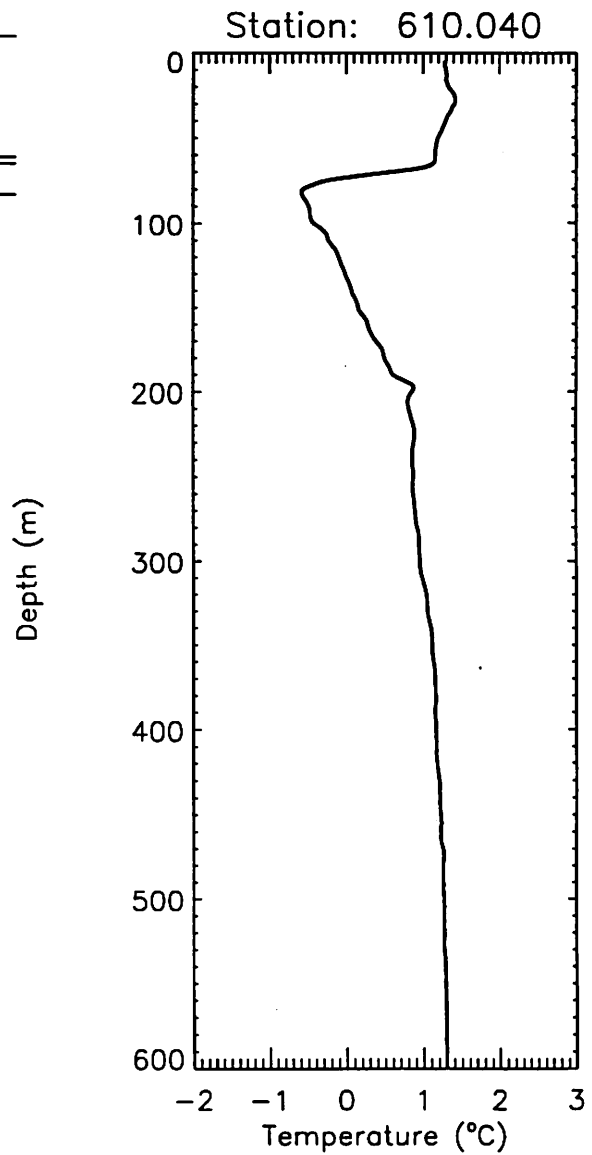
Depth	Temp
5	1.196
10	1.190
20	1.046
30	0.989
40	0.955
50	0.887
60	0.853
70	0.732
80	0.622
90	0.584
100	0.533
110	0.424
120	0.404

Depth (m)



LTER 93a
Station: 610.040 (633) **Depth:** 930 m
Latitude: 64° 52.560' S **JulianDay:** 24
Longitude: 64° 13.320' W **GMT:** 1343

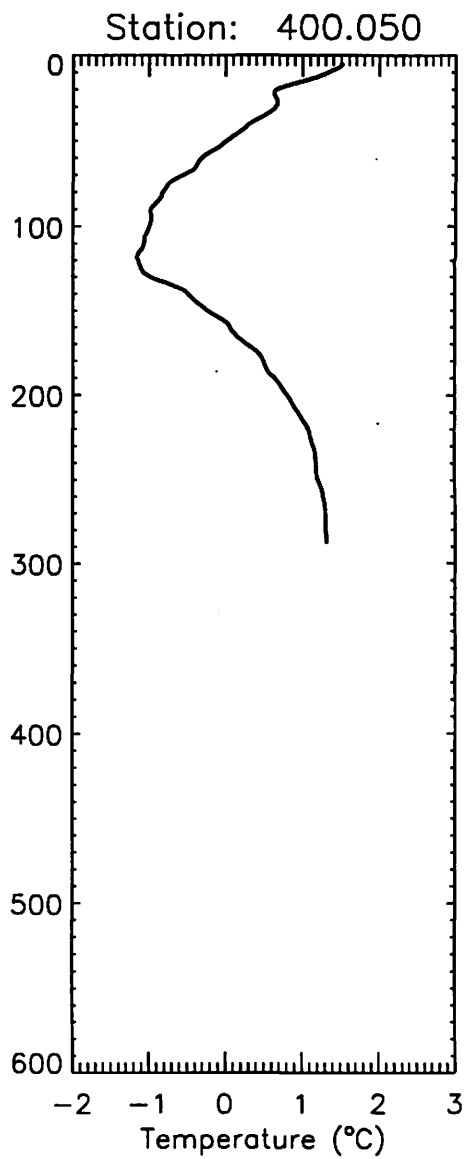
Depth	Temp
5	1.283
10	1.295
20	1.330
30	1.414
40	1.298
50	1.199
60	1.159
70	0.616
80	-0.560
90	-0.490
100	-0.421
110	-0.232
120	-0.101
130	-0.013
140	0.073
150	0.156
160	0.278
180	0.495
200	0.860
220	0.874
240	0.863
260	0.866
280	0.917
300	0.955
320	1.041
340	1.101
360	1.133
380	1.164
400	1.164
420	1.184
440	1.224
460	1.231
480	1.262
500	1.266
550	1.292
600	1.299
650	1.323
700	1.328
750	1.324



LTER	93a	Depth:	290 m
Station:	400.050 (669)	JulianDay:	27
Latitude:	66° 11.520' S	GMT:	1631
Longitude:	67° 29.520' W		

Depth	Temp
5	1.515
10	1.331
20	0.673
30	0.653
40	0.308
50	0.015
60	-0.311
70	-0.557
80	-0.817
90	-0.977
100	-0.992
110	-1.059
120	-1.134
130	-0.969
140	-0.480
150	-0.227
160	0.063
180	0.495
200	0.805
220	1.083
240	1.183
260	1.272

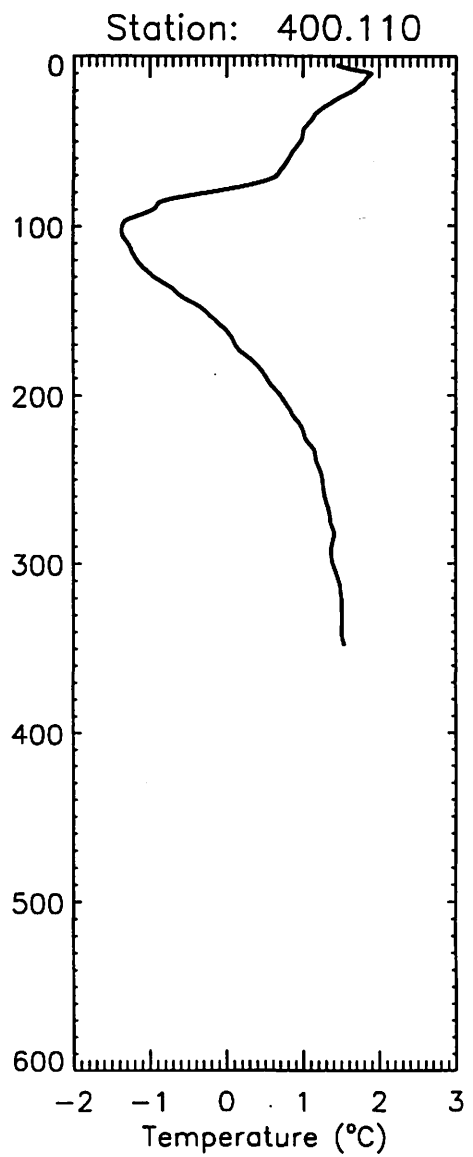
Depth (m)



LTER 93a
Station: 400.110 (719) **Depth:** 350 m
Latitude: 65° 49.140' S **JulianDay:** 29
Longitude: 68° 25.260' W **GMT:** 0327

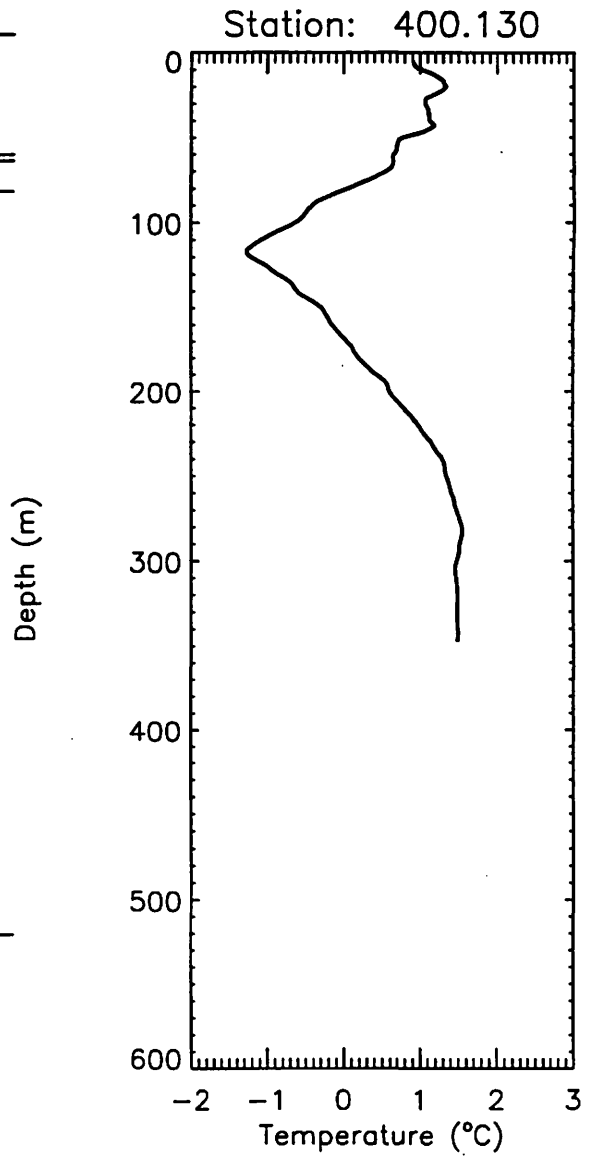
Depth	Temp
5	1.446
10	1.892
20	1.651
30	1.266
40	1.061
50	0.966
60	0.815
70	0.664
80	-0.223
90	-0.951
100	-1.357
110	-1.281
120	-1.165
130	-0.943
140	-0.629
150	-0.278
160	-0.039
180	0.343
200	0.702
220	0.997
240	1.189
260	1.289
280	1.400
300	1.392
320	1.504

Depth (m)



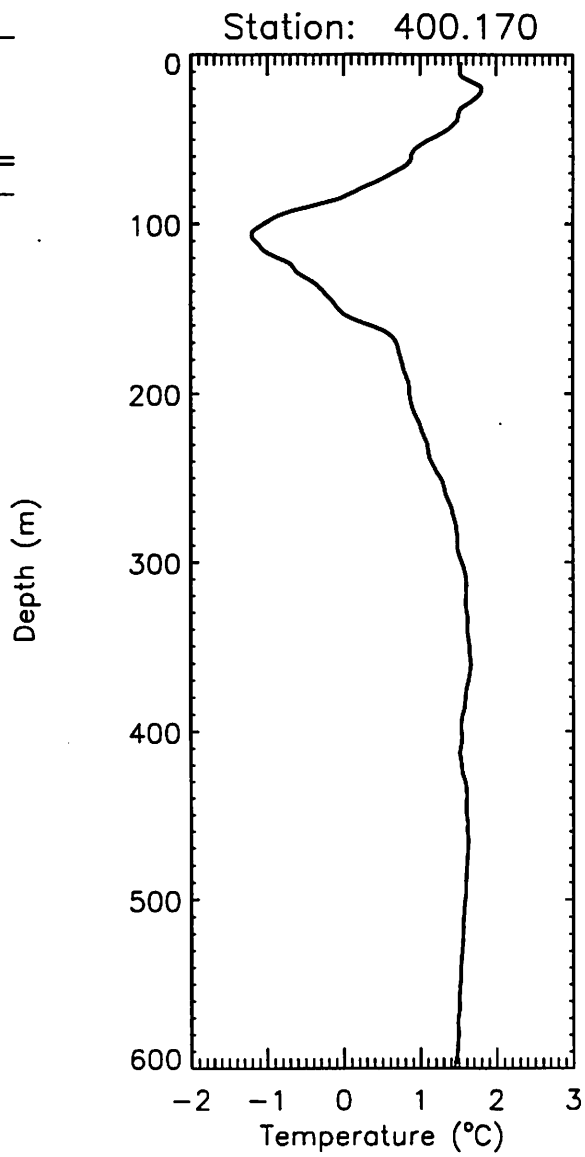
LTER	93a	Depth:	350 m
Station:	400.130 (727)	JulianDay:	29
Latitude:	65° 41.400' S	GMT:	1003
Longitude:	68° 44.160' W		

Depth	Temp
5	0.909
10	1.030
20	1.335
30	1.065
40	1.119
50	0.778
60	0.651
70	0.559
80	0.072
90	-0.406
100	-0.639
110	-1.082
120	-1.195
130	-0.845
140	-0.596
150	-0.279
160	-0.147
180	0.196
200	0.594
220	0.983
240	1.299
260	1.414
280	1.555
300	1.485
320	1.500



LTER 93a
Station: 400.170 (771) **Depth:** 830 m
Latitude: 65° 25.980' S **JulianDay:** 30
Longitude: 69° 20.820' W **GMT:** 1637

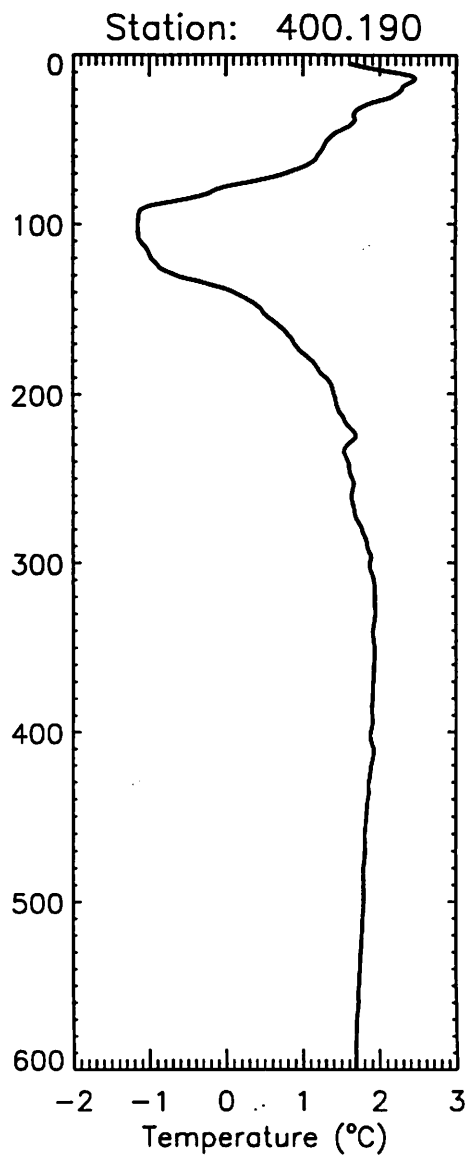
Depth	Temp
5	1.529
10	1.527
20	1.809
30	1.588
40	1.462
50	1.136
60	0.882
70	0.643
80	0.183
90	-0.453
100	-1.048
110	-1.159
120	-0.857
130	-0.563
140	-0.262
150	-0.073
160	0.345
180	0.753
200	0.862
220	1.010
240	1.150
260	1.337
280	1.475
300	1.545
320	1.602
340	1.620
360	1.666
380	1.599
400	1.544
420	1.546
440	1.610
460	1.617
480	1.610
500	1.585
550	1.520
600	1.447
650	1.387
700	1.320
750	1.297



LTER 93a
Station: 400.190 (779) **Depth:** 2900 m
Latitude: 65° 18.300' S **JulianDay:** 30
Longitude: 69° 38.940' W **GMT:** 2223

Depth	Temp
5	1.620
10	2.161
20	2.289
30	1.783
40	1.650
50	1.323
60	1.189
70	0.790
80	-0.150
90	-1.046
100	-1.148
110	-1.113
120	-0.975
130	-0.646
140	0.106
150	0.465
160	0.711
180	1.121
200	1.414
220	1.616
240	1.598
260	1.645
280	1.777
300	1.878
320	1.952
340	1.923
360	1.932
380	1.916
400	1.891
420	1.896
440	1.858
460	1.811
480	1.795
500	1.794
550	1.737
600	1.678
650	1.626
700	1.577
750	1.502

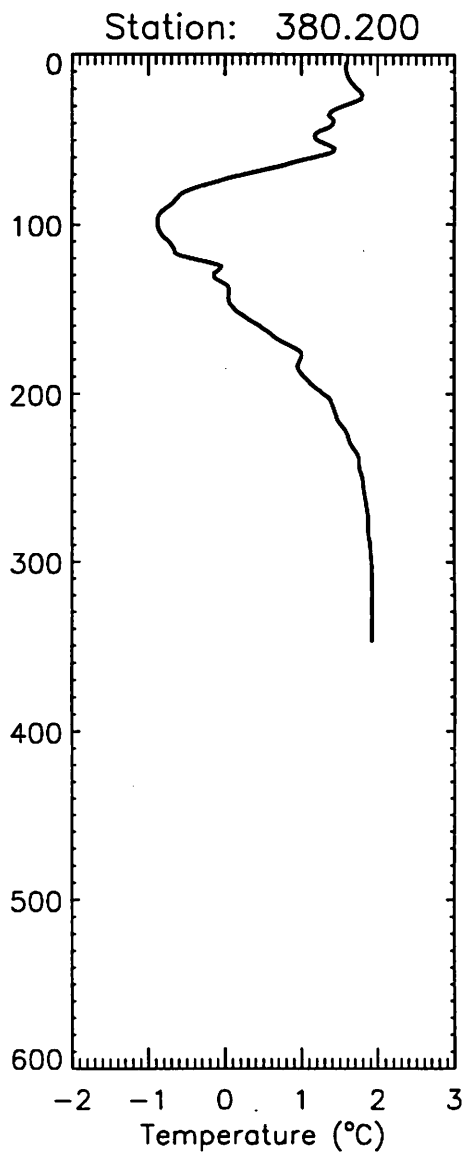
Depth (m)



LTER 93a
Station: 380.200 (785) **Depth:** 2600 m
Latitude: 65° 21.420' S **JulianDay:** 31
Longitude: 70° 5.940' W **GMT:** 0227

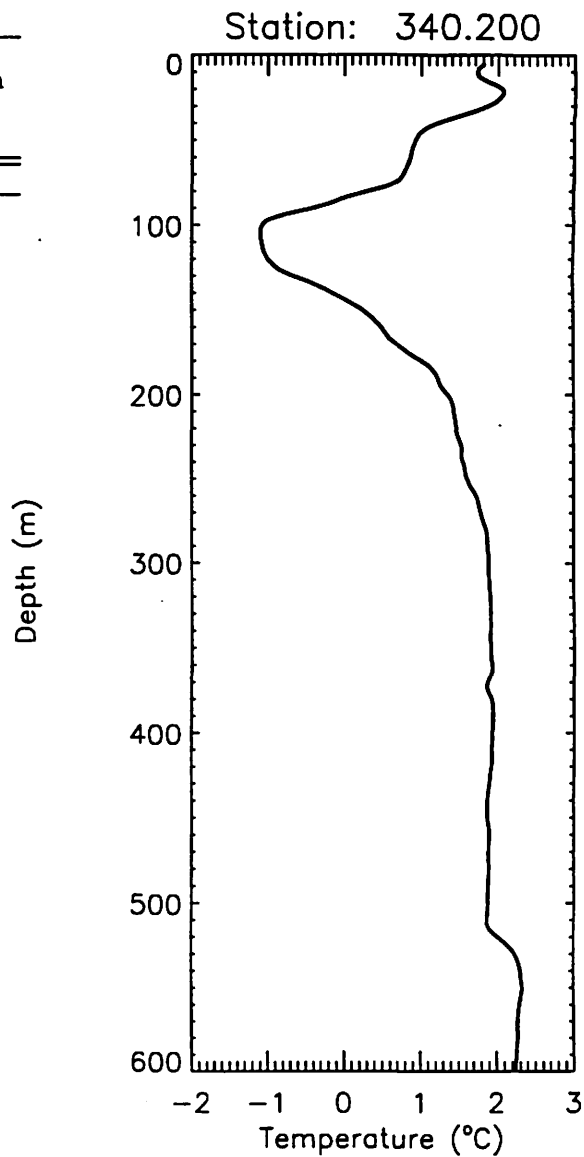
Depth	Temp
5	1.592
10	1.587
20	1.725
30	1.570
40	1.417
50	1.199
60	1.192
70	0.290
80	-0.495
90	-0.757
100	-0.872
110	-0.730
120	-0.440
130	-0.142
140	0.059
150	0.127
160	0.453
180	0.991
200	1.284
220	1.546
240	1.757
260	1.825
280	1.870
300	1.912
320	1.918

Depth (m)



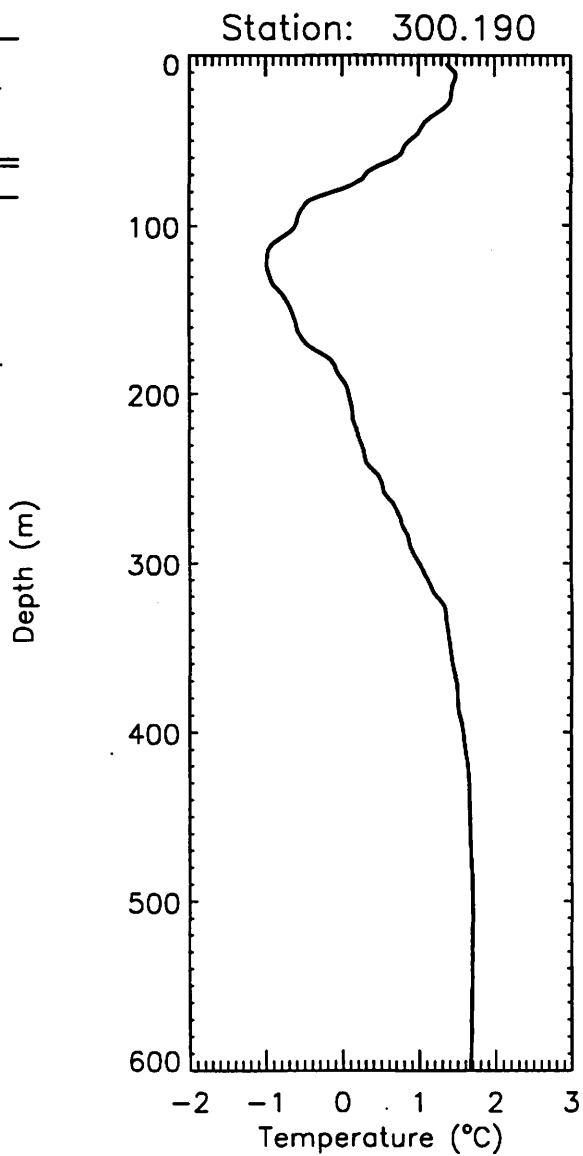
LTER	93a	Depth:	3000 m
Station:	340.200 (787)	JulianDay:	31
Latitude:	65° 36.360' S	GMT:	0445
Longitude:	70° 44.040' W		

Depth	Temp
5	1.805
10	1.726
20	2.045
30	1.862
40	1.222
50	0.930
60	0.861
70	0.768
80	0.327
90	-0.398
100	-1.067
110	-1.078
120	-1.003
130	-0.677
140	-0.162
150	0.244
160	0.486
180	1.008
200	1.356
220	1.471
240	1.561
260	1.731
280	1.858
300	1.895
320	1.915
340	1.920
360	1.934
380	1.933
400	1.938
420	1.929
440	1.883
460	1.906
480	1.895
500	1.876
550	2.332
600	2.237
650	2.179
700	2.128
750	2.102



LTER	93a	Depth:	2900 m
Station:	300.190 (798)	JulianDay:	31
Latitude:	65° 54.900' S	GMT:	1015
Longitude:	71° 14.040' W		

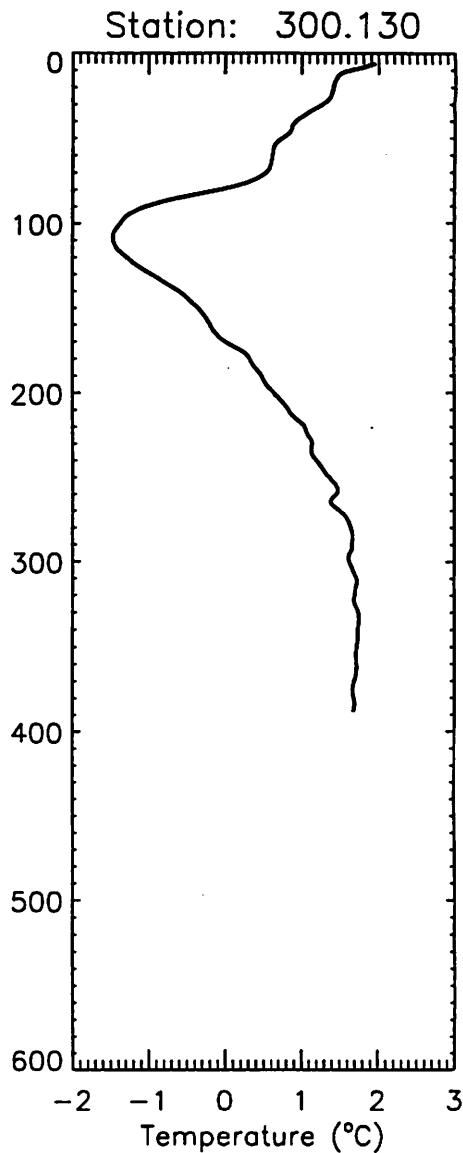
Depth	Temp
5	1.374
10	1.476
20	1.434
30	1.362
40	1.073
50	0.887
60	0.711
70	0.304
80	-0.110
90	-0.517
100	-0.608
110	-0.886
120	-0.980
130	-0.940
140	-0.788
150	-0.661
160	-0.593
180	-0.147
200	0.084
220	0.181
240	0.312
260	0.576
280	0.818
300	1.005
320	1.230
340	1.375
360	1.436
380	1.510
400	1.581
420	1.642
440	1.659
460	1.673
480	1.685
500	1.699
550	1.696
600	1.664
650	1.615
700	1.524
750	1.463



LTER	93a		
Station:	300.130 (826)	Depth:	480 m
Latitude:	66° 18.600' S	JulianDay:	32
Longitude:	70° 19.200' W	GMT:	0309

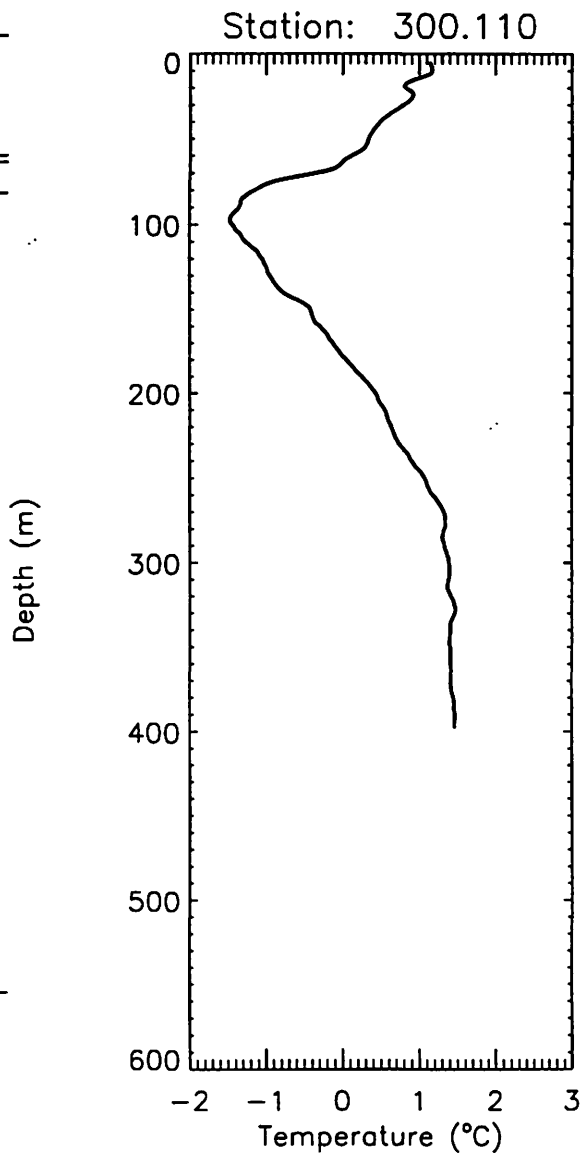
Depth	Temp
10	1.625
20	1.414
30	1.281
40	0.932
50	0.756
60	0.620
70	0.540
80	-0.058
90	-1.037
100	-1.374
110	-1.464
120	-1.281
130	-0.954
140	-0.600
150	-0.354
160	-0.195
180	0.318
200	0.635
220	1.046
240	1.197
260	1.462
280	1.648
300	1.626
320	1.700
340	1.746
360	1.726

Depth (m)



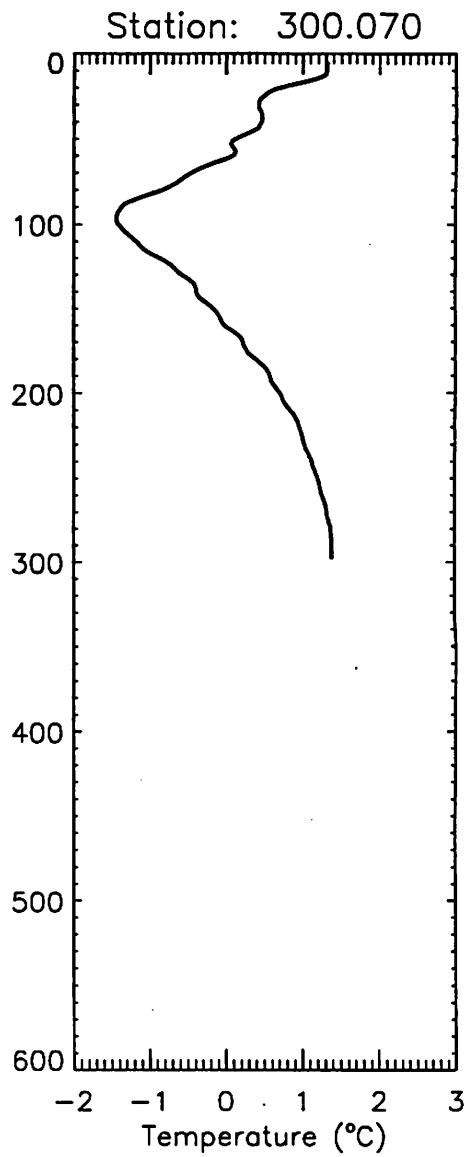
LTER	93a	Depth:	470 m
Station:	300.110 (834)	JulianDay:	32
Latitude:	66° 26.100' S	GMT:	0939
Longitude:	70° 1.680' W		

Depth	Temp
5	1.138
10	1.173
20	0.829
30	0.797
40	0.491
50	0.334
60	0.123
70	-0.340
80	-1.150
90	-1.352
100	-1.440
110	-1.266
120	-1.053
130	-0.949
140	-0.772
150	-0.416
160	-0.295
180	0.045
200	0.426
220	0.637
240	0.901
260	1.177
280	1.329
300	1.389
320	1.416
340	1.406
360	1.409



LTER 93a			
Station:	300.070 (850)	Depth:	300 m
Latitude:	66° 41.880' S	JulianDay:	32
Longitude:	69° 24.120' W	GMT:	1926
Depth	Temp		
5	1.321		
10	1.312		
20	0.719		
30	0.425		
40	0.462		
50	0.127		
60	0.085		
70	-0.454		
80	-0.835		
90	-1.371		
100	-1.405		
110	-1.168		
120	-0.860		
130	-0.572		
140	-0.384		
150	-0.164		
160	-0.020		
180	0.385		
200	0.704		
220	0.962		
240	1.128		
260	1.263		

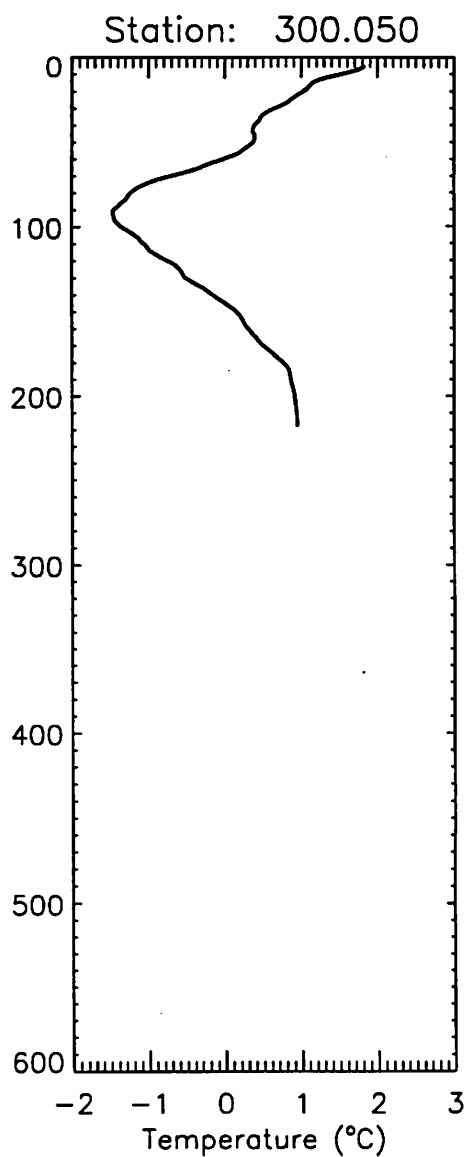
Depth (m)



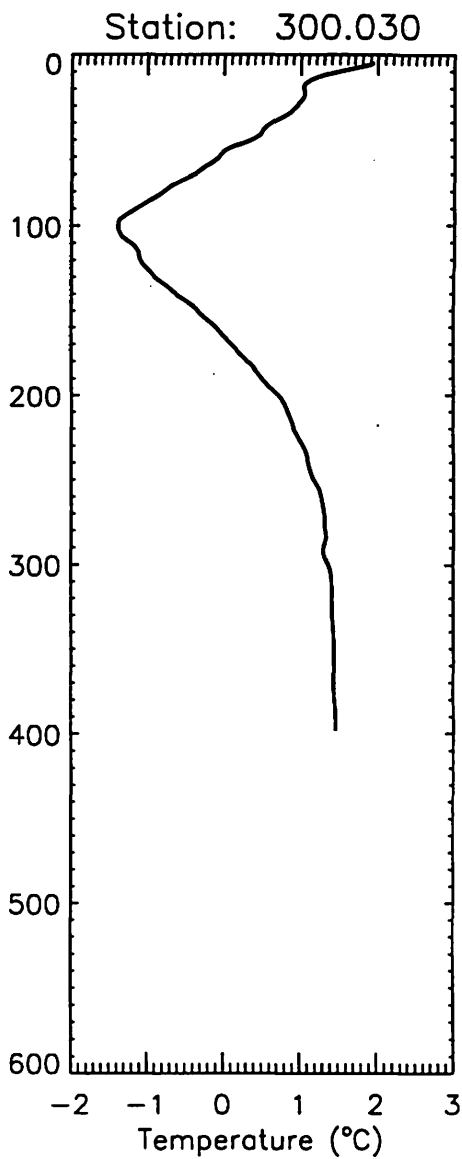
LTER	93a	Depth:	220 m
Station:	300.050 (858)	JulianDay:	32
Latitude:	66° 49.560' S	GMT:	2329
Longitude:	69° 5.160' W		

Depth	Temp
5	1.823
10	1.536
20	1.033
30	0.664
40	0.385
50	0.372
60	-0.018
70	-0.692
80	-1.236
90	-1.454
100	-1.345
110	-1.057
120	-0.755
130	-0.514
140	-0.155
150	0.159
160	0.313
180	0.766

Depth (m)

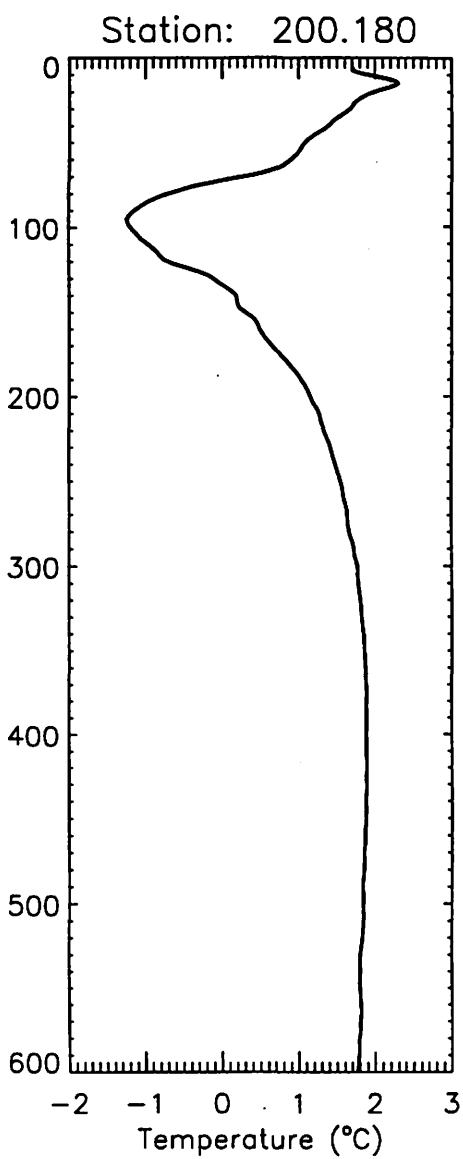


LTER 93a			
Station:	300.030 (868)	Depth:	400 m
Latitude:	66° 57.180' S	JulianDay:	33
Longitude:	68° 46.140' W	GMT:	0433
Depth	Temp		
5	1.943		
10	1.506		
20	1.038		
30	0.949		
40	0.628		
50	0.369		
60	-0.065		
70	-0.384		
80	-0.786		
90	-1.144		
100	-1.385		
110	-1.219		
120	-1.091		
130	-0.900		
140	-0.619		
150	-0.331		
160	-0.096		
180	0.304		
200	0.711		
220	0.918		
240	1.103		
260	1.278		
280	1.328		
300	1.372		
320	1.417		
340	1.438		
360	1.446		



LTER 93a
Station: 200.180 (875) **Depth:** 3400 m
Latitude: 66° 36.000' S **JulianDay:** 33
Longitude: 72° 41.820' W **GMT:** 2127

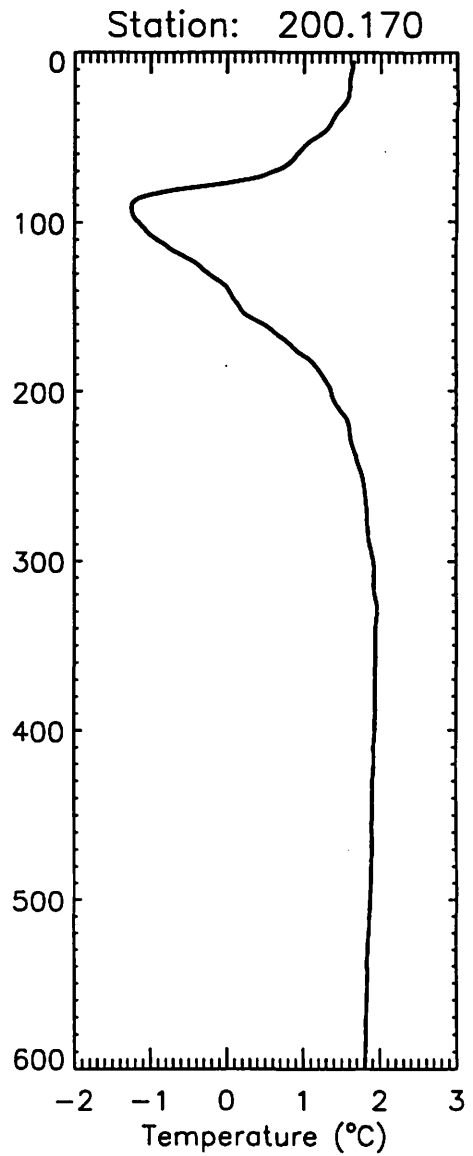
Depth	Temp
5	1.703
10	1.927
20	1.982
30	1.673
40	1.386
50	1.082
60	0.897
70	0.263
80	-0.691
90	-1.144
100	-1.192
110	-0.967
120	-0.713
130	-0.104
140	0.190
150	0.314
160	0.491
180	0.863
200	1.151
220	1.333
240	1.480
260	1.591
280	1.659
300	1.769
320	1.807
340	1.848
360	1.872
380	1.888
400	1.885
420	1.893
440	1.885
460	1.874
480	1.857
500	1.844
550	1.800
600	1.761
650	1.716
700	1.681
750	1.630



LTER 93a
Station: 200.170 (876) **Depth:** 3400 m
Latitude: 66° 38.700' S **JulianDay:** 33
Longitude: 72° 35.580' W **GMT:** 2148

Depth	Temp
5	1.640
10	1.624
20	1.596
30	1.535
40	1.379
50	1.170
60	0.923
70	0.630
80	-0.482
90	-1.246
100	-1.152
110	-0.919
120	-0.550
130	-0.234
140	0.030
150	0.173
160	0.482
180	1.048
200	1.362
220	1.602
240	1.699
260	1.811
280	1.846
300	1.919
320	1.932
340	1.948
360	1.946
380	1.945
400	1.940
420	1.928
440	1.905
460	1.898
480	1.890
500	1.875
550	1.836
600	1.797
650	1.751
700	1.716
750	1.667

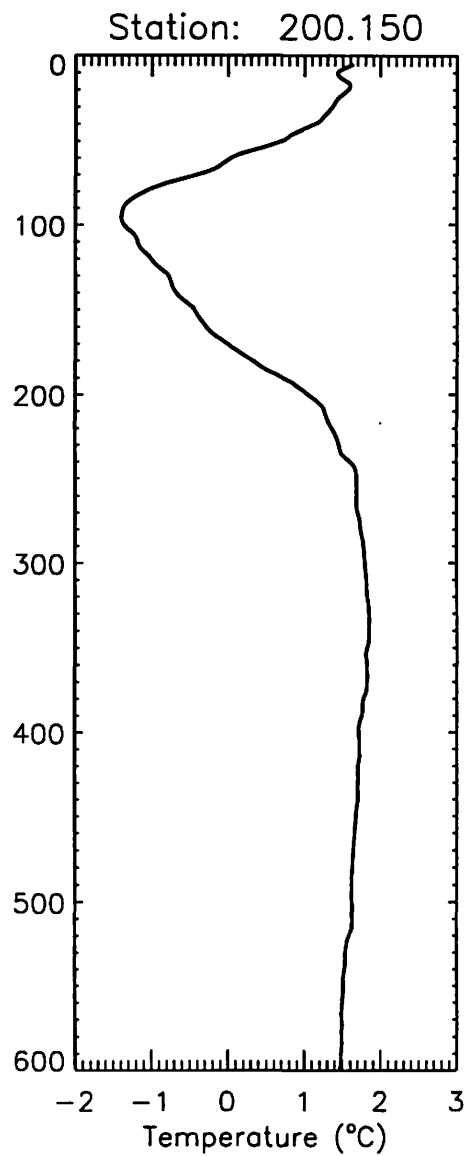
Depth (m)



LTER 93a
Station: 200.150 (882) **Depth:** 1400 m
Latitude: 66° 46.680' S **JulianDay:** 34
Longitude: 72° 17.940' W **GMT:** 0015

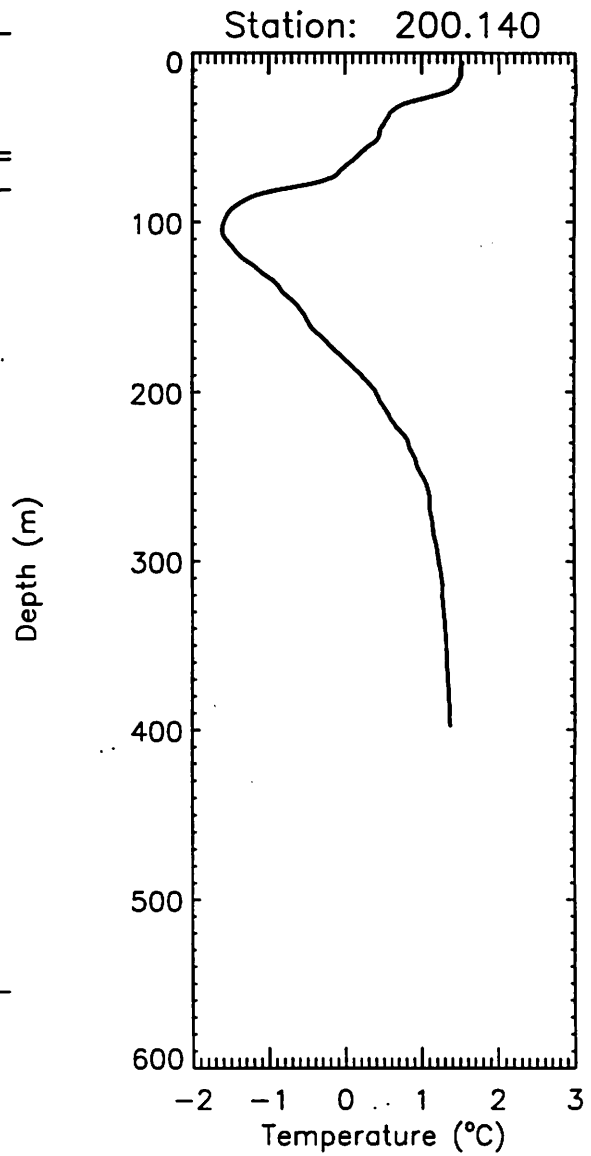
Depth	Temp
5	1.629
10	1.436
20	1.574
30	1.368
40	1.146
50	0.710
60	0.040
70	-0.403
80	-1.081
90	-1.368
100	-1.357
110	-1.179
120	-1.004
130	-0.770
140	-0.674
150	-0.438
160	-0.286
180	0.315
200	1.046
220	1.364
240	1.603
260	1.690
280	1.745
300	1.796
320	1.824
340	1.849
360	1.831
380	1.786
400	1.724
420	1.711
440	1.707
460	1.664
480	1.636
500	1.630
550	1.515
600	1.466
650	1.412
700	1.405
750	1.353

Depth (m)



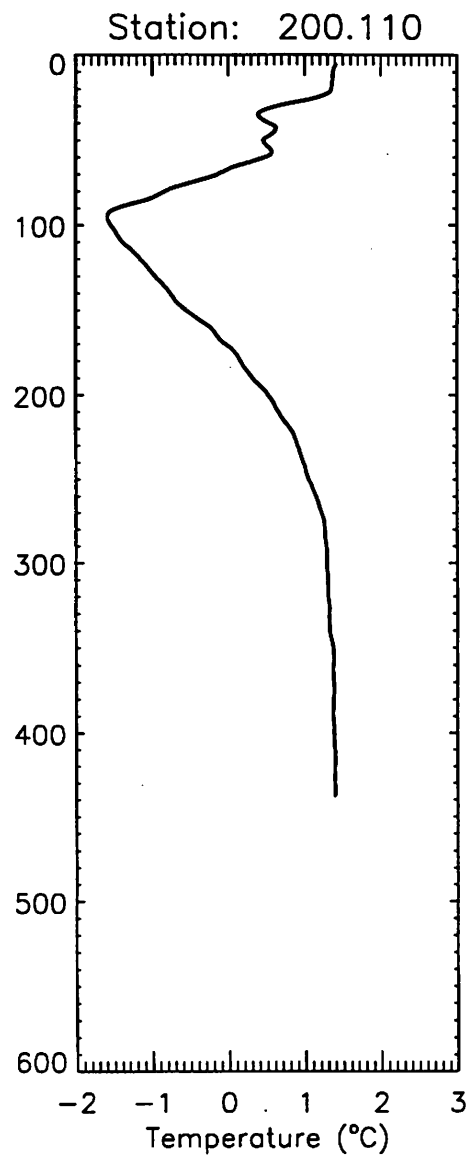
LTER	93a	Depth:	400 m
Station:	200.140 (884)	JulianDay:	34
Latitude:	66° 50.880' S	GMT:	0046
Longitude:	72° 8.640' W		

Depth	Temp
5	1.525
10	1.504
20	1.424
30	0.782
40	0.533
50	0.439
60	0.190
70	-0.064
80	-0.742
90	-1.412
100	-1.582
110	-1.557
120	-1.362
130	-1.062
140	-0.823
150	-0.595
160	-0.458
180	-0.020
200	0.410
220	0.674
240	0.936
260	1.108
280	1.158
300	1.230
320	1.275
340	1.313
360	1.340



LTER 93a		Depth: 440 m
Station: 200.110 (889)		JulianDay: 34
Latitude: 67° 2.700' S		GMT: 0335
Longitude: 71° 41.700' W		
Depth	Temp	
5	1.408	
10	1.376	
20	1.349	
30	0.645	
40	0.518	
50	0.456	
60	0.490	
70	-0.134	
80	-0.831	
90	-1.462	
100	-1.538	
110	-1.381	
120	-1.149	
130	-0.956	
140	-0.755	
150	-0.547	
160	-0.235	
180	0.159	
200	0.518	
220	0.807	
240	0.982	
260	1.147	
280	1.265	
300	1.289	
320	1.305	
340	1.326	
360	1.376	
380	1.375	
400	1.385	

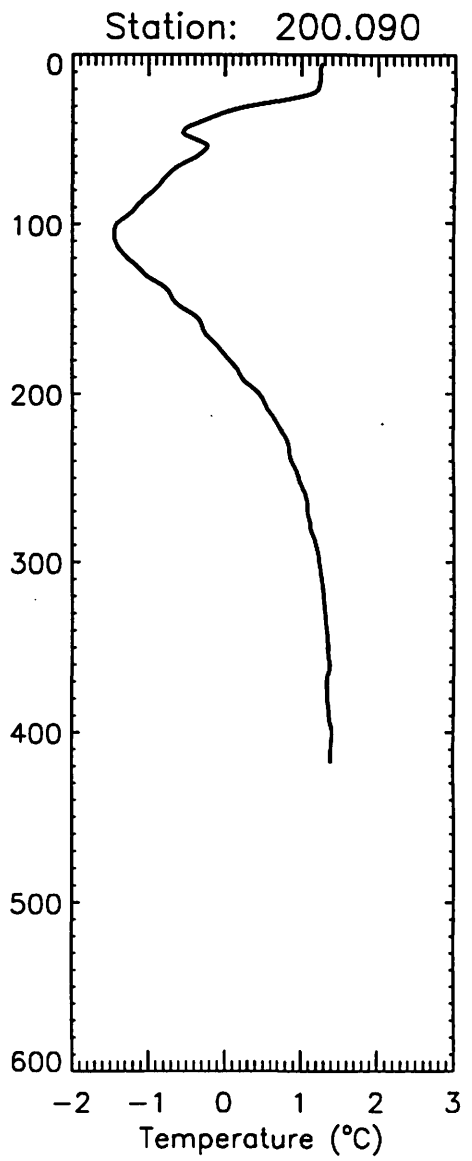
Depth (m)



LTER	93a		
Station:	200.090 (891)	Depth:	420 m
Latitude:	67° 10.920' S	JulianDay:	34
Longitude:	71° 22.620' W	GMT:	0441

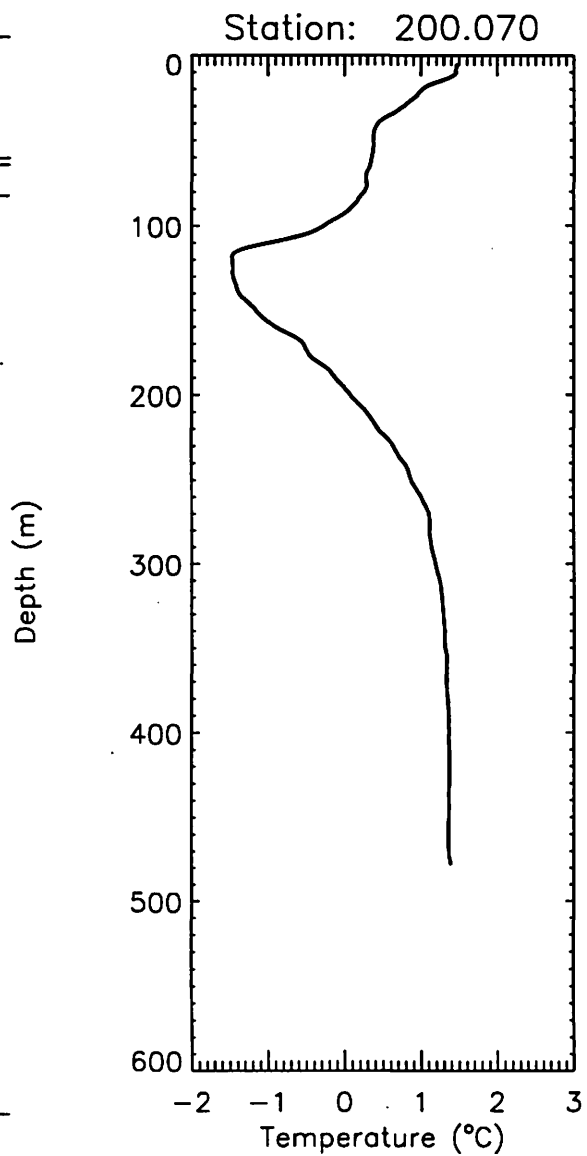
Depth	Temp
5	1.263
10	1.243
20	1.214
30	0.315
40	-0.352
50	-0.374
60	-0.361
70	-0.719
80	-0.918
90	-1.160
100	-1.414
110	-1.436
120	-1.274
130	-1.041
140	-0.727
150	-0.521
160	-0.290
180	0.062
200	0.449
220	0.719
240	0.884
260	1.068
280	1.129
300	1.243
320	1.300
340	1.341
360	1.386
380	1.355

Depth (m)



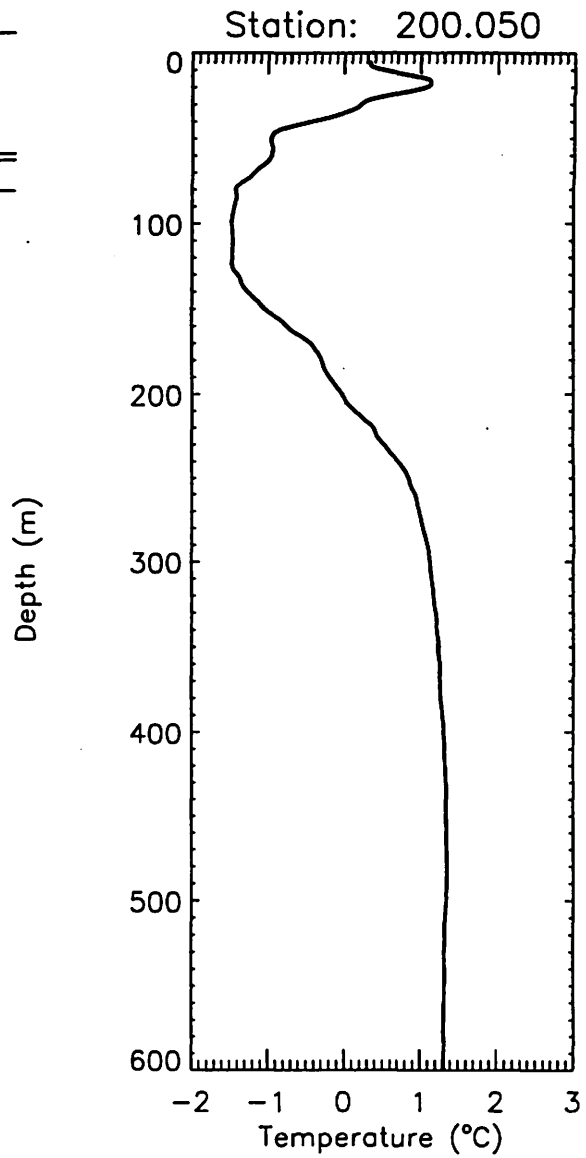
LTER 93a
Station: 200.070 (895) **Depth:** 480 m
Latitude: 67° 20.040' S **JulianDay:** 34
Longitude: 71° 1.080' W **GMT:** 0716

Depth	Temp
5	1.473
10	1.462
20	1.021
30	0.779
40	0.442
50	0.373
60	0.355
70	0.286
80	0.267
90	0.084
100	-0.259
110	-0.959
120	-1.462
130	-1.455
140	-1.376
150	-1.157
160	-0.894
180	-0.368
200	0.073
220	0.432
240	0.782
260	1.006
280	1.116
300	1.192
320	1.276
340	1.309
360	1.336
380	1.357
400	1.371
420	1.376
440	1.372



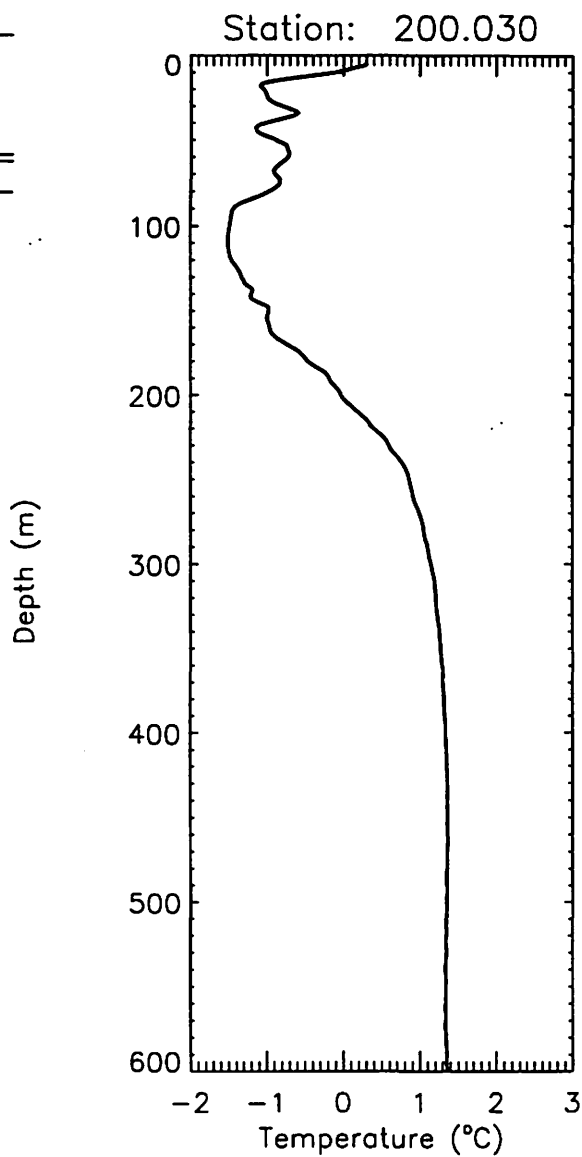
LTER	93a		
Station:	200.050 (897)	Depth:	620 m
Latitude:	67° 26.580' S	JulianDay:	34
Longitude:	70° 45.300' W	GMT:	0809

Depth	Temp
5	0.332
10	0.521
20	1.077
30	0.222
40	-0.422
50	-0.967
60	-0.959
70	-1.179
80	-1.425
90	-1.439
100	-1.475
110	-1.459
120	-1.470
130	-1.399
140	-1.270
150	-1.043
160	-0.748
180	-0.292
200	-0.032
220	0.374
240	0.709
260	0.934
280	1.036
300	1.129
320	1.174
340	1.215
360	1.260
380	1.275
400	1.314
420	1.331
440	1.347
460	1.352
480	1.357
500	1.347
550	1.322



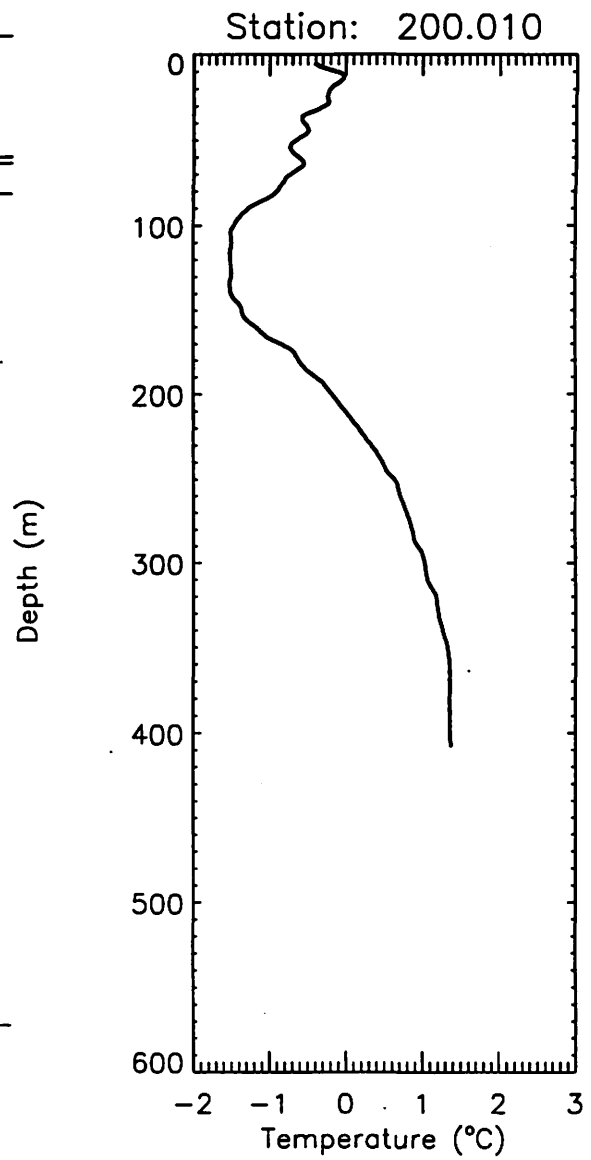
LTER	93a		
Station:	200.030 (901)	Depth:	670 m
Latitude:	67° 34.320' S	JulianDay:	34
Longitude:	70° 26.280' W	GMT:	1043

Depth	Temp
5	0.307
10	-0.101
20	-1.047
30	-0.794
40	-1.014
50	-0.890
60	-0.726
70	-0.898
80	-0.965
90	-1.436
100	-1.485
110	-1.501
120	-1.463
130	-1.331
140	-1.203
150	-0.975
160	-0.964
180	-0.470
200	-0.034
220	0.394
240	0.762
260	0.908
280	1.048
300	1.143
320	1.207
340	1.253
360	1.292
380	1.318
400	1.339
420	1.351
440	1.357
460	1.362
480	1.357
500	1.349
550	1.339
600	1.355



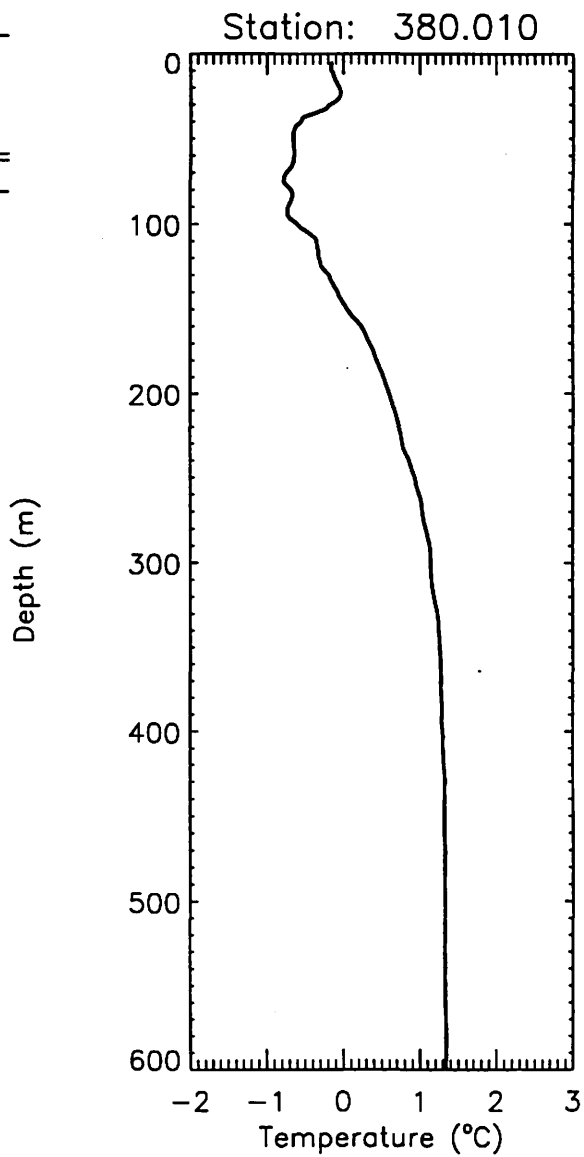
LTER 93a
Station: 200.010 (903) **Depth:** 410 m
Latitude: 67° 42.300' S **JulianDay:** 34
Longitude: 70° 6.960' W **GMT:** 1214

Depth	Temp
5	-0.408
10	-0.117
20	-0.204
30	-0.291
40	-0.531
50	-0.663
60	-0.610
70	-0.728
80	-0.900
90	-1.277
100	-1.469
110	-1.493
120	-1.512
130	-1.502
140	-1.501
150	-1.364
160	-1.177
180	-0.619
200	-0.186
220	0.171
240	0.485
260	0.714
280	0.872
300	1.036
320	1.184
340	1.268
360	1.354
380	1.359



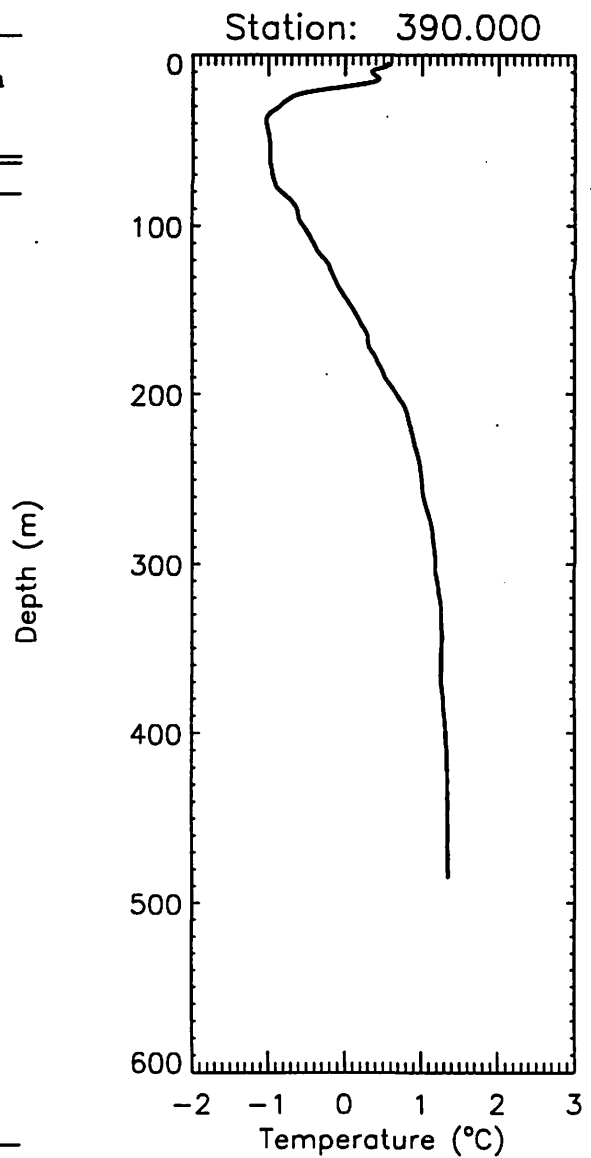
LTER	93a		
Station:	380.010 (911)	Depth:	670 m
Latitude:	66° 34.320' S	JulianDay:	36
Longitude:	67° 9.360' W	GMT:	0055

Depth	Temp
5	-0.157
10	-0.156
20	-0.056
30	-0.164
40	-0.550
50	-0.659
60	-0.643
70	-0.740
80	-0.681
90	-0.713
100	-0.602
110	-0.347
120	-0.315
130	-0.187
140	-0.068
150	0.052
160	0.233
180	0.432
200	0.596
220	0.728
240	0.860
260	0.991
280	1.078
300	1.146
320	1.187
340	1.245
360	1.271
380	1.287
400	1.300
420	1.317
440	1.328
460	1.325
480	1.334
500	1.331
550	1.336
600	1.342



LTER	93a		
Station:	390.000 (915)	Depth:	1260 m
Latitude:	66° 34.260' S	JulianDay:	36
Longitude:	66° 51.000' W	GMT:	0629

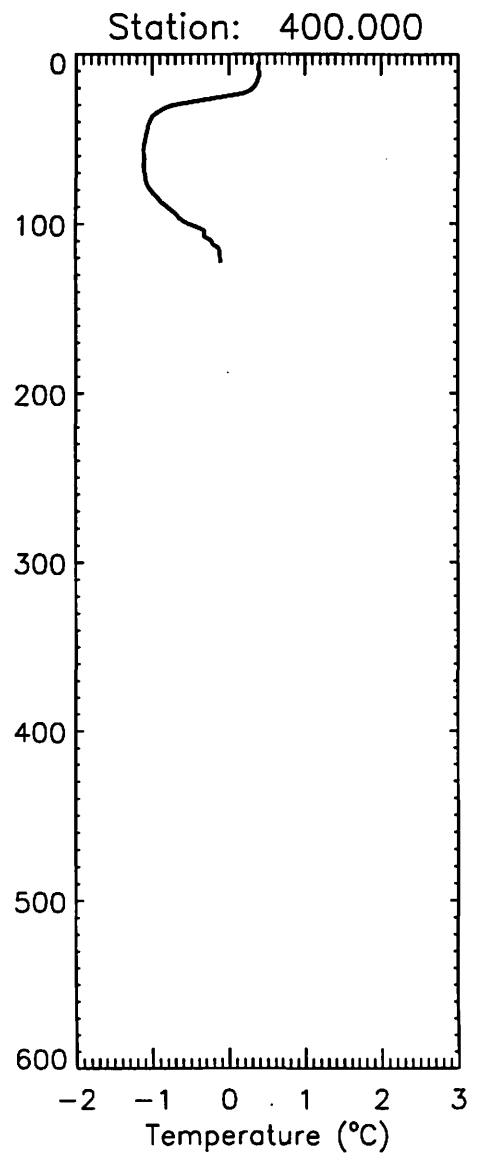
Depth	Temp
5	0.546
10	0.350
20	-0.244
30	-0.852
40	-1.032
50	-0.986
60	-0.983
70	-0.948
80	-0.830
90	-0.624
100	-0.541
110	-0.409
120	-0.254
130	-0.138
140	-0.019
150	0.123
160	0.243
180	0.419
200	0.673
220	0.864
240	0.978
260	1.028
280	1.143
300	1.185
320	1.241
340	1.271
360	1.266
380	1.295
400	1.325
420	1.345
440	1.352
460	1.362



LTER	93a		
Station:	400.000 (916)	Depth:	650 m
Latitude:	66° 30.360' S	JulianDay:	36
Longitude:	66° 41.880' W	GMT:	0732

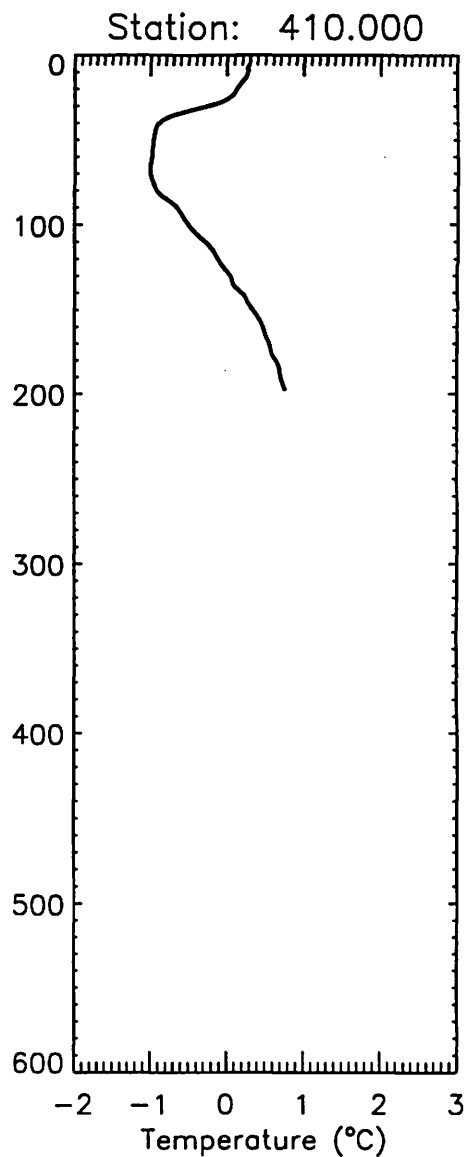
Depth	Temp
5	0.389
10	0.395
20	0.315
30	-0.716
40	-1.036
50	-1.092
60	-1.108
70	-1.099
80	-1.010
90	-0.798
100	-0.522
110	-0.227

Depth (m)



LTER 93a	
Station: 410.000 (917)	Depth: 200 m
Latitude: 66° 26.820' S	JulianDay: 36
Longitude: 66° 33.540' W	GMT: 0832
Depth	Temp
5	0.291
10	0.273
20	0.130
30	-0.237
40	-0.888
50	-0.964
60	-0.985
70	-1.009
80	-0.920
90	-0.657
100	-0.510
110	-0.288
120	-0.124
130	0.039
140	0.185
150	0.335
160	0.471

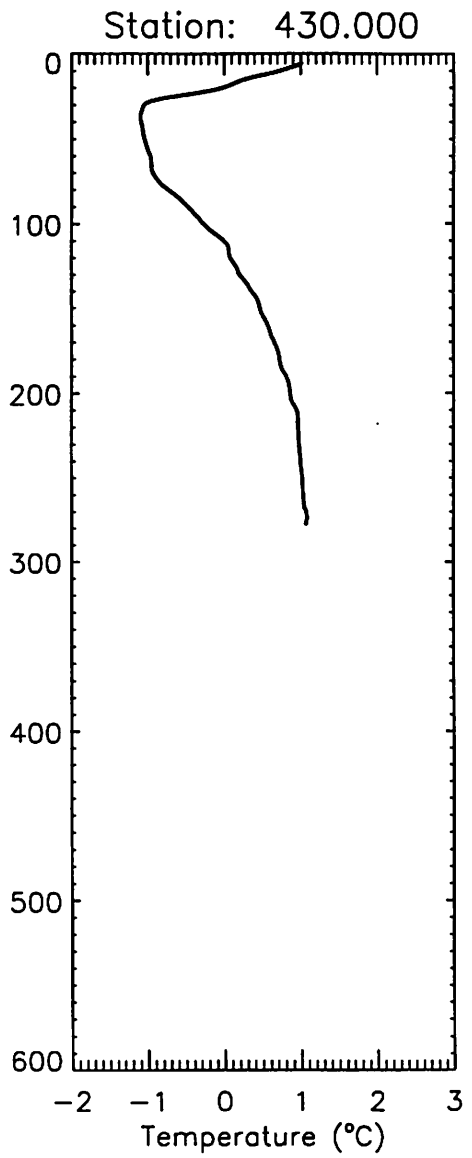
Depth (m)



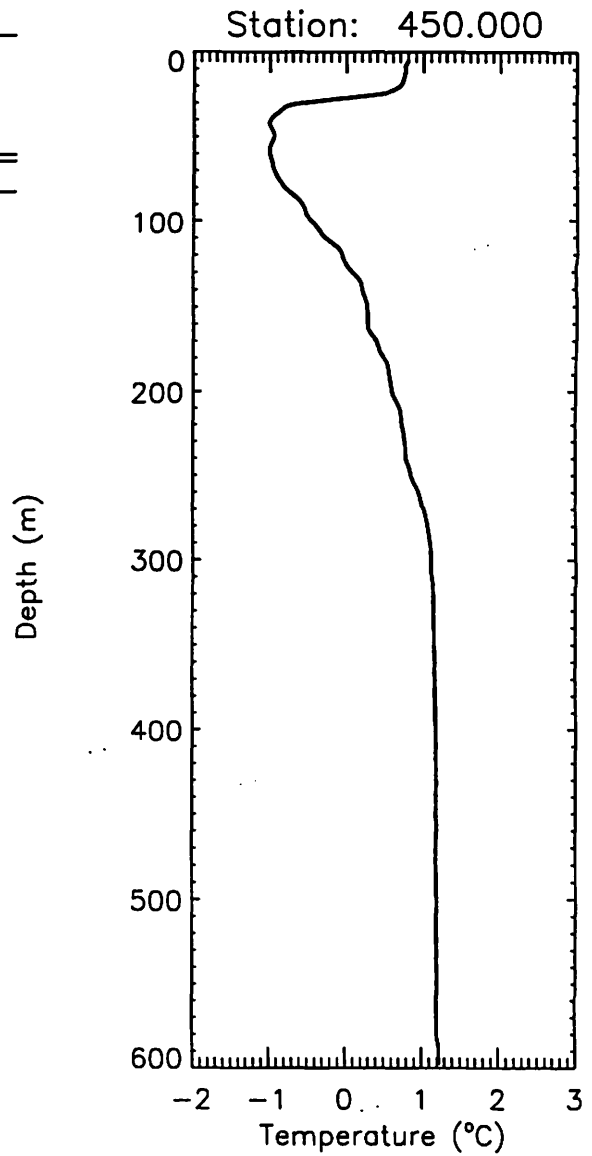
LTER	93a	Depth:	280 m
Station:	430.000 (923)	JulianDay:	36
Latitude:	66° 18.420' S	GMT:	1332
Longitude:	66° 14.400' W		

Depth	Temp
5	1.018
10	0.724
20	-0.024
30	-1.050
40	-1.087
50	-1.043
60	-0.966
70	-0.928
80	-0.729
90	-0.473
100	-0.272
110	-0.003
120	0.083
130	0.203
140	0.357
150	0.466
160	0.570
180	0.724
200	0.863
220	0.968
240	0.999

Depth (m)

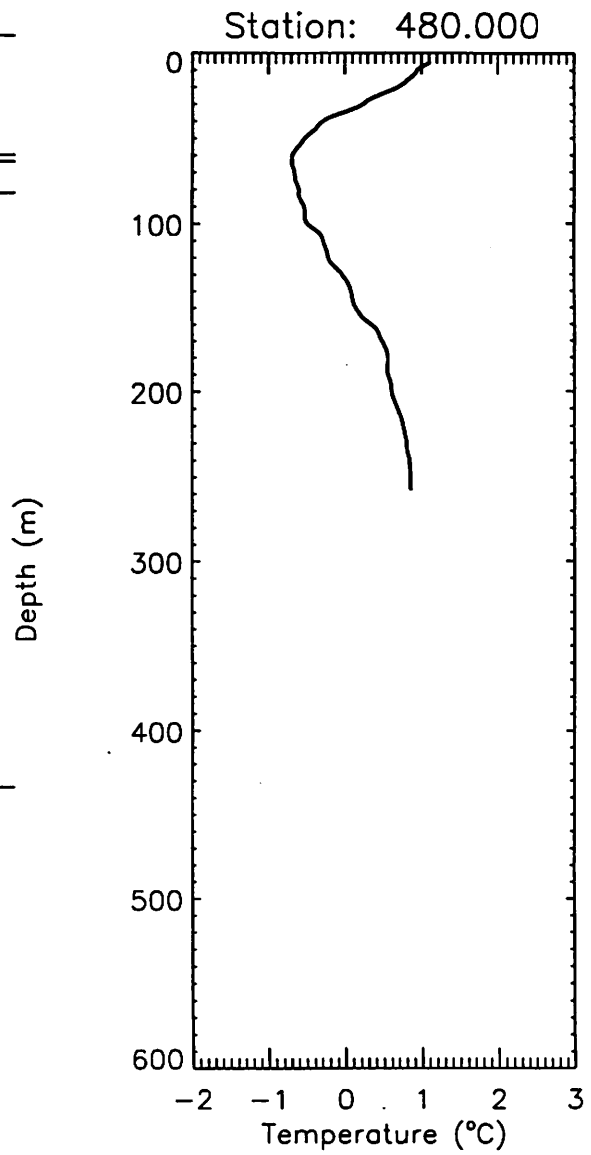


LTER 93a			
Station:	450.000 (927)	Depth:	600 m
Latitude:	66° 10.500' S	JulianDay:	36
Longitude:	65° 56.160' W	GMT:	1633
Depth	Temp		
5	0.799		
10	0.764		
20	0.696		
30	-0.548		
40	-0.989		
50	-0.943		
60	-1.002		
70	-0.948		
80	-0.806		
90	-0.573		
100	-0.452		
110	-0.273		
120	-0.052		
130	0.083		
140	0.213		
150	0.275		
160	0.281		
180	0.497		
200	0.604		
220	0.737		
240	0.786		
260	0.947		
280	1.071		
300	1.116		
320	1.143		
340	1.156		
360	1.167		
380	1.173		
400	1.184		
420	1.194		
440	1.189		
460	1.196		
480	1.193		
500	1.199		



LTER 93a	
Station: 480.000 (931)	Depth: 260 m
Latitude: 65° 58.740' S	JulianDay: 37
Longitude: 65° 29.040' W	GMT: 0735

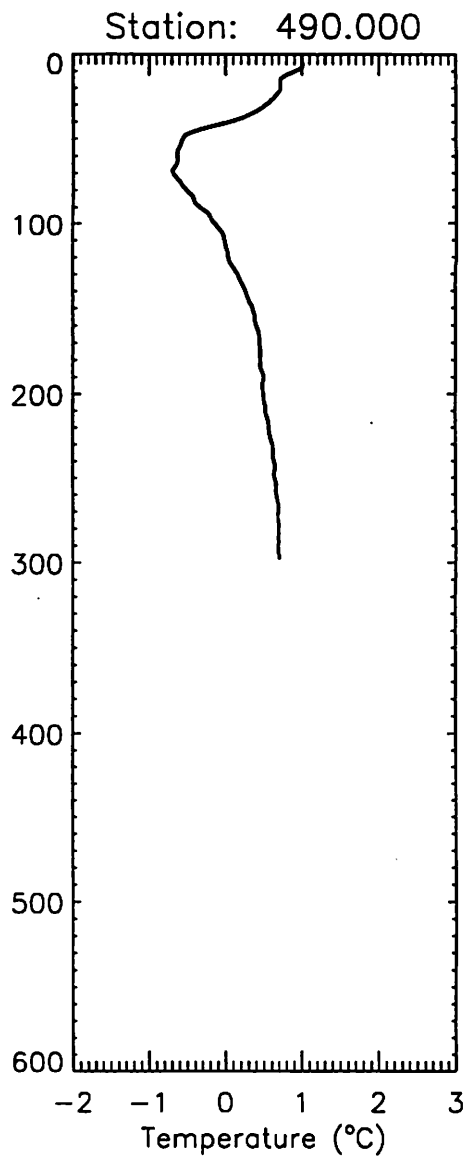
Depth	Temp
5	1.109
10	0.945
20	0.691
30	0.239
40	-0.287
50	-0.528
60	-0.692
70	-0.664
80	-0.601
90	-0.531
100	-0.488
110	-0.283
120	-0.219
130	-0.035
140	0.079
150	0.139
160	0.341
180	0.560
200	0.609
220	0.761



LTER	93a		
Station:	490.000 (932)	Depth:	300 m
Latitude:	65° 55.020' S	JulianDay:	37
Longitude:	65° 20.700' W	GMT:	0845

Depth	Temp
5	1.014
10	0.905
20	0.723
30	0.521
40	0.059
50	-0.558
60	-0.630
70	-0.680
80	-0.506
90	-0.335
100	-0.153
110	-0.014
120	0.035
130	0.156
140	0.260
150	0.353
160	0.402
180	0.456
200	0.494
220	0.567
240	0.634
260	0.667

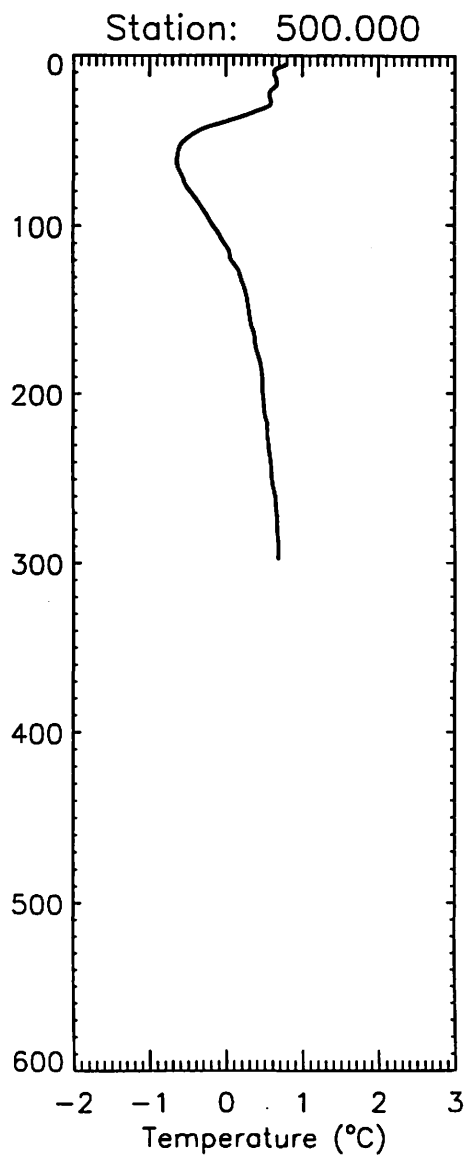
Depth (m)



LTER	93a		
Station:	500.000 (933)	Depth:	300 m
Latitude:	65° 50.760' S	JulianDay:	37
Longitude:	65° 10.920' W	GMT:	1012

Depth	Temp
5	0.781
10	0.630
20	0.604
30	0.556
40	-0.072
50	-0.534
60	-0.637
70	-0.590
80	-0.470
90	-0.308
100	-0.168
110	-0.018
120	0.076
130	0.201
140	0.273
150	0.309
160	0.347
180	0.447
200	0.487
220	0.552
240	0.593
260	0.651

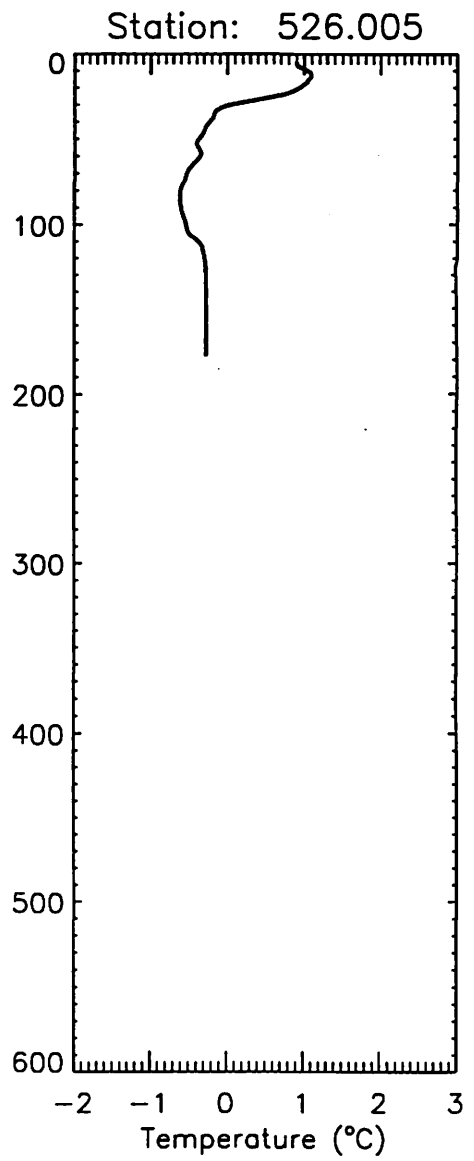
Depth (m)



LTER	93a		
Station:	526.005 (937)	Depth:	180 m
Latitude:	65° 38.340' S	JulianDay:	37
Longitude:	64° 54.480' W	GMT:	1504

Depth	Temp
5	0.889
10	1.048
20	0.943
30	0.073
40	-0.224
50	-0.365
60	-0.351
70	-0.527
80	-0.607
90	-0.598
100	-0.536
110	-0.377
120	-0.287
130	-0.269
140	-0.265
150	-0.267

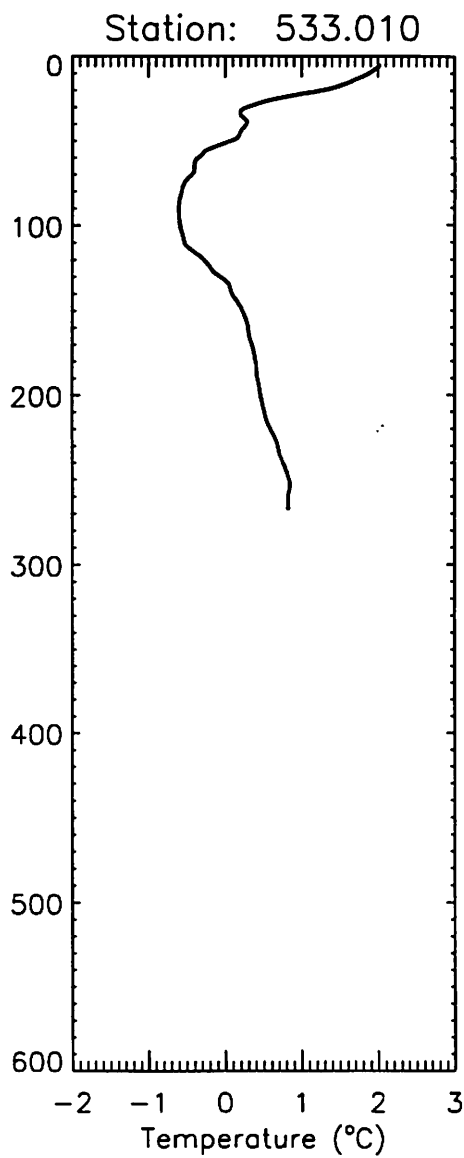
Depth (m)



LTER	93a		
Station:	533.010 (938)	Depth:	270 m
Latitude:	65° 34.500' S	JulianDay:	37
Longitude:	64° 51.180' W	GMT:	1530

Depth	Temp
5	2.016
10	1.879
20	1.275
30	0.289
40	0.276
50	0.072
60	-0.353
70	-0.433
80	-0.569
90	-0.606
100	-0.583
110	-0.528
120	-0.276
130	-0.066
140	0.089
150	0.217
160	0.300
180	0.395
200	0.459
220	0.591
240	0.756

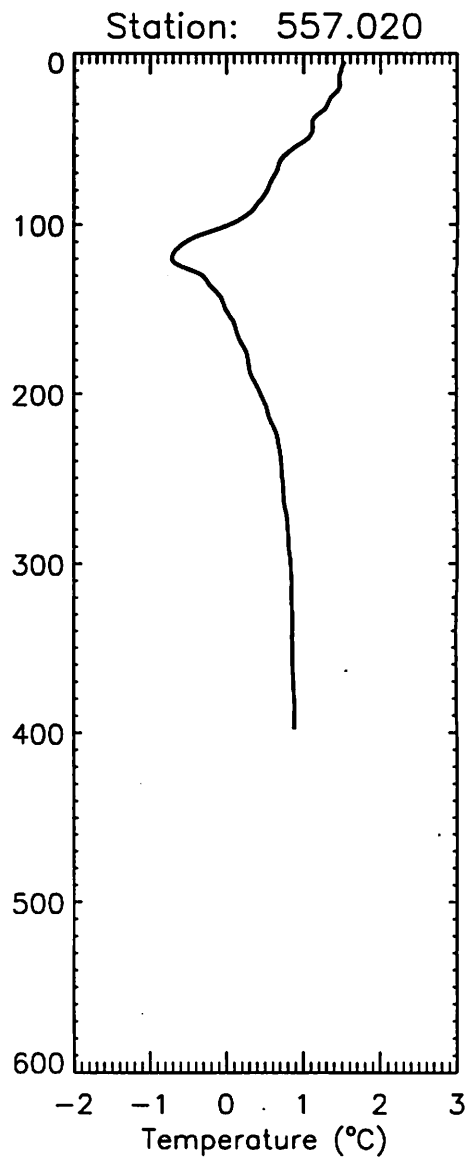
Depth (m)



LTER	93a		
Station:	557.020 (941)	Depth:	400 m
Latitude:	65° 20.220' S	JulianDay:	37
Longitude:	64° 42.360' W	GMT:	1705

Depth	Temp
5	1.528
10	1.486
20	1.467
30	1.311
40	1.112
50	1.063
60	0.762
70	0.645
80	0.532
90	0.370
100	0.054
110	-0.517
120	-0.711
130	-0.315
140	-0.128
150	-0.009
160	0.114
180	0.285
200	0.444
220	0.615
240	0.715
260	0.749
280	0.803
300	0.838
320	0.850
340	0.862
360	0.866

Depth (m)



LTER 93a	
Station:	570.030 (943)
Latitude:	65° 11.700' S
Longitude:	64° 39.720' W
Depth:	200 m
JulianDay:	37
GMT:	1759

Depth	Temp
5	1.254
10	1.323
20	1.515
30	1.746
40	1.630
50	1.426
60	1.004
70	0.784
80	0.038
90	-0.322
100	-0.505
110	-0.453
120	-0.193
130	-0.053
140	0.007
150	0.097
160	0.141

Depth (m)

