Oceanographic Data in the Greenland Sea and Around Svalbard in 1991-1993

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The Arctic Ocean is connected with the North Atlantic Ocean by the Fram Strait between Greenland and Svalbard. The strait is located in the northern part of the Greenland Sea (see Fig. 1). In the eastern part of the strait, warm saline water flows northward as the West Spitsbergen Current; while in the western part, cold less-saline water flows southward as the East Greenland Current. The northwestern part of the Greenland Sea is normally covered with sea ice even in summer. Furthermore, this region is regarded as a major area where the Arctic sea ice is discharged into mid latitude oceans. Thus, this area plays an important role in heat and salt exchange processes in the Arctic marine system.

To reveal exchange processes of water masses and ocean-atmosphere interaction in high-latitude oceans, a number of international research programs have been focused on the Greenland Sea and its surrounding waters. As one of the international Arctic research programs, oceanographic studies have been executed in cooperation with the Norsk Polarinstitutt and other institutes under the leadership of the National Institute of Polar Research since 1991. Japanese scientists have been carrying out field observations in and around Svalbard. The observations include not only physical measurements but also biological surveys. This report presents physical oceanographic data obtained in the Greenland Sea in 1992 and 1993, and data around Svalbard from 1991 to 1993. Table 1 summarizes all the observations.

For research cruises in the Greenland Sea, the R/V LANCE has been chartered by the Norsk Polarinstitutt almost every year. In the cruises of August 1992 and 1993, water temperature profiles were taken with expendable bathythermographs (XBT). Figures 2 (a) and (b) show the ship's track and XBT stations. Temperature and depth accuracies of the XBT (model MK-30, made by the Tsurumi Seiki, Co., Japan) are $\pm 0.1^{\circ}$ C and ± 5 m or $\pm 2\%$ of depth, respectively. The XBT temperature data were obtained at about 1-m intervals. XBT data at standard depths are shown in Table 2. In the 1992 cruise, the

Kongsfjorden, which is a fjord in the Svalbard area, was also studied.

Around Spitsbergen, one of the islands in the Svalbard archipelago, oceanographic observations were made on board two commercial boats, the M/S ORIGO and the M/S POLARSTAR, in July-August 1993. The measurements were obtained by conductivity-temperature-depth recorder (CTD), XBTs, and sampling of air which was in equilibrium with the surface water. The station locations are shown in Fig. 3. The CTD (model AST-1000M, made by ALEC Electronics Co., Japan) has temperature accuracy of ± 0.05 °C, salinity accuracy ± 0.05 psu (practical salinity unit), and depth accuracy ± 0.5 db (decibar). These data were recorded at 0.5 db intervals. The CTD and XBT data at the standard depths are shown in Table 3 and Table 4, respectively. The air samples were analyzed to measure the partial pressure of carbon dioxide (pCO_2) and that of methane (pCH_4) in the surface water. The data are shown in Table 5.

Figure 4 shows the study area and observation stations in the Kongsfjorden. In this fjord, water temperature and salinity profiles were measured with CTD. These measurements were carried out in September 1991, in June 1992, and in May-June 1993. The CTD was cast from a winch on a small boat. Table 6 shows temperature and salinity data at standard depths and at the bottom of each station. Positions of CTD observations were measured with a GPS (Global Positioning System, model GP-70, made by FURUNO Electronics Co., Japan).

The authors would like to thank all the observers for their kind support in the field work and in data processing.

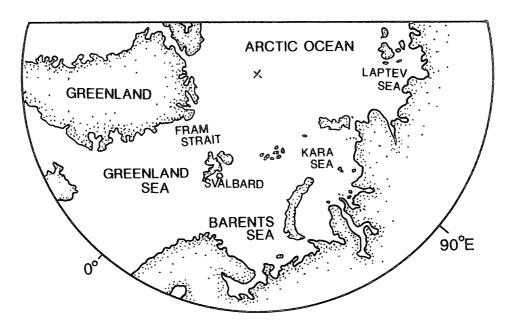
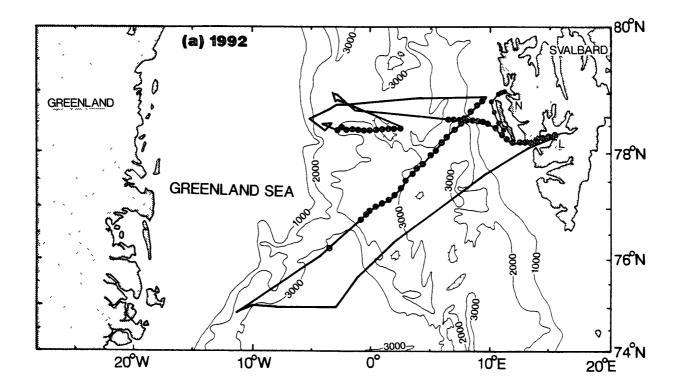


Fig. 1. Location map for the north polar oceans.



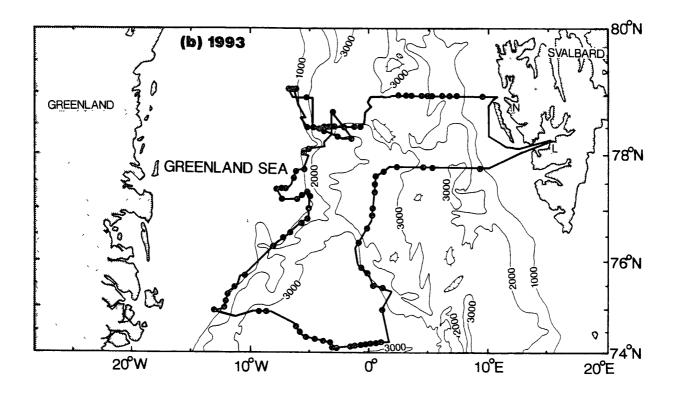


Fig. 2. Ship's track (thick line) and XBT observation stations (closed circles) of the *R/V LANCE* cruises in the Greenland Sea. Isobaths are in meters. The letter 'L' shows the port at Longyearbyen, 'N' the port at Ny-Ålesund. a) 1992 cruise, b) 1993 cruise.

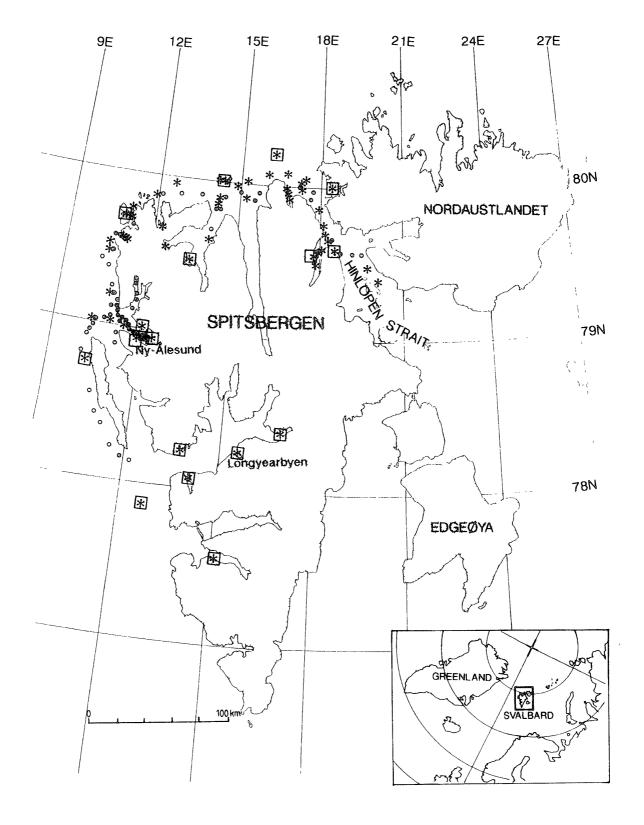


Fig. 3. Observation stations of the M/S ORIGO and M/S POLARSTAR around Spitsbergen, Svalbard, in 1993. Asterisks indicate the CTD station, closed circles the XBT stations, and open squares the sites of air sampling for measurement of pCO_2 and pCH_4 .

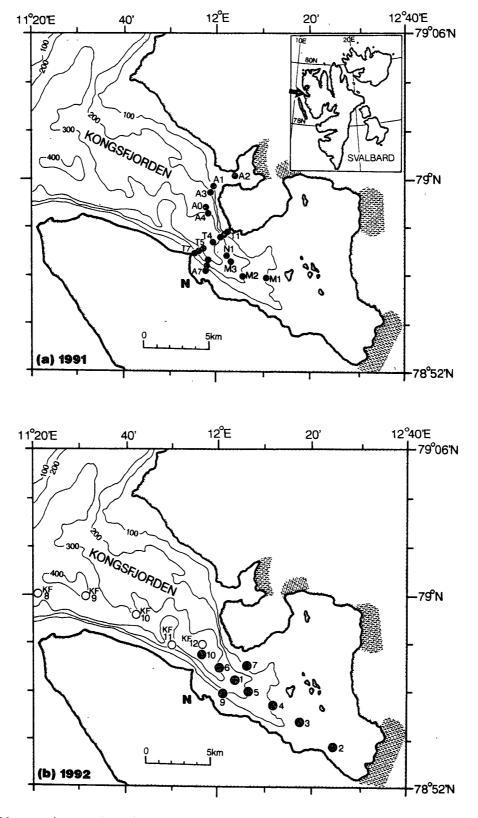


Fig. 4. Observation stations in the Kongsfjorden, Svalbard. Closed circles indicate the CTD stations, and open circles the XBT stations. The letter 'N' indicates the Japanese Ny-Ålesund observatory of the National Institute of Polar Research. The depth contours are in meters. Hatched areas along the shoreline show glacier terminals.

a) in 1991, b) in 1992, c) in 1993.

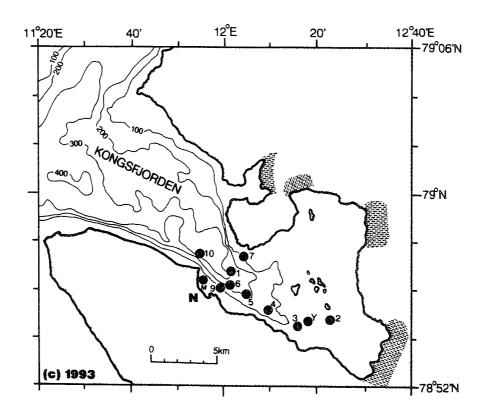


Table 1. Summary of observations.

Observation areas	Periods of observations	Observers	Items	Table No	page
Greenland Sea, Kongsfjorden	Aug 22-Sep.1, 1992	Shuki Ushio, Meiji Honda	XBT	2-1	7
Greenland Sea	Aug.17-29, 1993	Hajime Ito	XBT	2-2	12
around Spitsbergen	Jul 16-Aug 13, 1993	Hajıme Ito, Shuhjı Aoki	CTD XBT air sampling	3 4 5	20 30 33
Kongsfjorden	Sep.10-22, 1991	Shuki Ushio, Sakae Kudoh, Hajime Ito, Kazuyoshi Furusawa	CTD	6-1	34
Kongsfjorden	Jun 23-24, 1992	Hajime Ito, Kazuyoshi Furusawa	CTD	6-2	37
Kongsfjorden	May29-Jun.18, 1993	Shuki Ushio, Sakae Kudoh, Tatsuro Suzuki	CID	6-3	39

Table 2-1. XBT observation data in the Greenland Sea and the Kongsfjorden in 1992.

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS1 AUG.22, 1992 17:20 76-13.4 N 03-28.4 W	GS2 AUG.22, 1992 21:47 76-45.5 N 00-55.6 W	GS3 AUG.22, 1992 22:33 76-50.9 N 00-31.5 W	GS4 AUG.22, 1992 23:18 76-57.3 N 00-02.1 W	GS5 AUG.23, 1992 00:00 77-00.3 N 00-28.6 E	GS6 AUG.23, 1992 00:45 77-03.5 N 00-58.8 E
DEPTH(m)						
5	4.7	3.6	2.6	1.3	2.2	0.4
10	4.6	5.4	4.9	2.0	3.0	-0.3
20	4.5	5.4	5.2	3.1	4.7	-0.1
30	3.8	5.7	3.5	1.4	5.3	0.1
50	0.2	1.7	2.5	1.2	2.3	1.7
75	-0.7	3.1	2.2	2.0	1.7	3.1
100	-0.9	2.3	2.4	2.1	2.2	2.5
125	-0.9	2.2	1.9	1.9	2.4	2.4
150	-0.8	2.0	1.9	2.0	2.2	2.2
200	-0.7	1.7	1.3	1.5	2.0	2.0
250	-0.8	1.1	1.0	1.1	1.6	1.7
300		0.7	1.2	0.9	0.8	1.4
400		0.2	0.4	0.5	0.7	0.9
500		0.2	0.3	0.4	0.3	0.6
600		0.1	0.2	0.2	0.2	0.3
700		0.0	0.0	-0.1	0.0	0.1
800		-0.2	-0.3	-0.3	-0.3	-0.2
900		-0.4	-0.5	-0.5	-0.4	-0.3
1000		-0.5	-0.6	-0.6	-0.5	-0.4

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS7 AUG.23, 1992 01:36 77-06.0 N 01-28.4 E	GS8 AUG.23, 1992 02:29 77-13.0 N 01-59.0 E	GS9 AUG.23, 1992 03:24 77-20.7 N 02-29.7 E	GS10 AUG.23, 1992 04:16 77-27.8 N 02-59.5 E	GS11 AUG.23, 1992 05:08 77-34.8 N 03-29.7 E	GS12 AUG.23, 1992 05:59 77-41.5 N 03-59.2 E
DEPTH(m)						
5	5.1	5.8	4.2	5.6	5.8	4.1
10	5.6	5.7	5.2	5.5	5.5	5.6
20	5.5	5.4	5.9	5.3	5.4	3.3
30	5.5	3.6	5.3	3.4	2.9	3.4
50	2.1	3.5	1.2	1.2	2.4	3.4
75	1.5	3.2	1.6	1.4	2.0	3.2
100	1.5	3.0	1.4	1.6	2.0	2.9
125	1.7	2.6	1.4	1.3	1.8	2.6
150	1.5	2.3	0.7	1.2	1.4	2.4
200	1.1	1.7	0.8	0.4	0.7	1.9
250	0.7	0.9	0.1	-0.1	0.6	1.3
300	0.4	0.3	0.2	-0.2	0.2	0.7
400	0.0	0.1	0.0	-0.1	0.2	0.4
500	-0.1	-0.1	0.0	-0.2	-0.1	0.1
600	-0.3	-0.3	-0.3	-0.3	-0.3	0.0
700	-0.3	-0.5	-0.4	-0.4	-0.5	-0.3
800	-0.3	-0.5	-0.5	-0.5	-0.5	-0.5
900	-0.3	-0.6	-0.5	-0.5	-0.5	-0.6
1000	-0.3	-0.6	-0.5	-0.5	-0.6	-0.5

Table 2-1. (continued)

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STATION DATE TIME(UT) LATITUDE LONGITUDE	GS13 AUG.23, 1992 06:49 77-48.3 N 04-28.9 E	GS14 AUG.23, 1992 07:43 77-55.7 N 05-01.7 E	GS15 AUG.23, 1992 08:29 78-01.9 N 05-29.2 E	GS16 AUG.23, 1992 09:18 78-08.6 N 05-59.2 E	GS17 AUG.23, 1992 10:05 78-15.1 N 06-28.4 E	GS18 AUG.23, 1992 10:54 78-21.9 N 06-59.6 E
DEPTH(m)						
5	5.3	4.7	5.6	5.9	5.8	5.8
10	5.2	5.1	5.7	5.9	5.8	5.7
20	5.4	5.3	5.4	5.7	5.9	5.7
30	3.5	4.1	3.0	4.2	5.8	5.8
50	3.0	1.9	2.1	2.8	3.8	3.7
75	2.8	1.5	2.2	3.3	3.4	3.6
100	2.8	1.4	2.1	3.0	3.1	3.3
125	2.7	1.0	1.9	2.6	3.7	3.1
150	2.6	0.7	1.7	2.2	4.2	2.8
200	2.3	0.6	1.2	2.0	3.8	2.6
250	2.0	0.4	0.8	1.5	2.7	2.2
300	1.3	0.2	0.6	1.0	2.2	1.7
400	0.5	0.2	0.2	0.5	1.0	0.9
500	0.0	-0.2	0.0	0.0	0.8	0.6
600	0.2	-0.4	-0.3	-0.3	0.2	0.5
700	-0.2	-0.5	-0.5	-0.4	-0.1	0.1
800	-0.4	-0.6	-0.4	-0.5	-0.3	0.0
900	-0.5	-0.7	-0.4	-0.6	-0.4	-0.1
1000	-0.6	-0.8	-0.4	-0.7	-0.5	-0.2

STATION	GS19	GS20	GS21	GS22	GS23
DATE	AUG.23, 1992				
TIME(UT)	11:45	12:45	13:10	13:53	14:30
LATITUDE	78-29.0 N	78-34.7 N	78-41.4 N	78-46.7 N	78-50.6 N
LONGITUDE	07-32.5 E	07-58.9 E	08-30.2 E	09-00.4 E	09-30.6 E
DEPTH(m)					
5	6.5	7.2	7.8	7.2	7.1
10	6.7	7.2	7.7	7.2	7.0
20	7.0	7.2	7.6	7.3	7.1
30	6.3	7.2	7.4	7.5	5.7
50	6.2	6.8	6.6	6.7	3.2
75	4.7	5.7	6.2	6.1	5.0
100	3.9	5.2	6.0	5.4	5.0
125	3.8	4.8	5.8	4.4	4.7
150	3.5	4.5	5.6	4.3	3.8
200	2.9	4.1	4.9	•	
250	2.9	3.8	4.3		
300	2.8	3.5	3.8		
400	2.5	3.0	3.4		
500	1.2	2.2	3.2		
600	0.8	1.3	3.0		
700	0.2	0.4	2.8		
800	0.1	0.2			
900	-0.1	-0.2			
1000	-0.2	-0.4			

Table 2-1. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS31 AUG.27, 1992 14:44 78-24.3 N 02-55.1 W	GS32 AUG.27, 1992 15:12 78-25.2 N 02-29.8 W	GS33 AUG.27, 1992 15:52 78-23.1 N 02-00.7 W	GS34 AUG.27, 1992 16:23 78-23.0 N 01-31.3 W	GS35 AUG.27, 1992 17:05 78-23.0 N 00-50.9 W	GS37 AUG.27, 1992 18:00 78-22.4 N 00-00.0 E
DEPTH(m)						
5	-0.2	-0.3	1.4	2.4	0.6	3.8
10	-0.2	0.2	1.5	2.7	0.6	3.9
20	-0.1	3.1	3.0	3.4	5.2	4.9
30	5.7	3.6	4.1	4.0	5.5	5.4
50	5.0	4.4	4.2	4.7	5.2	2.9
75	3.6	4.0	3.8	3.8	4.7	2.0
100	3.2	3.6	3.5	3.7	4.2	1.8
125	2.9	3.3	3.4	3.6	3.8	2.0
150	2.5	3.0	3.1	3.4	3.6	1.6
200	2.6	2.4	2.7	2.9	3.5	1.6
250	2.2	2.3	2.3	2.8	3.4	1.4
300	2.1	2.0	2.0	2.6	3.3	0.8
400	1.4	1.6	1.6	2.0	2.8	0.4
500	0.8	1.2	0.8	1.4	2.3	0.0
600	0.4	1.0	0.5	0.9	1.4	-0.2
700	0.1	0.9	0.2	0.5	0.7	-0.4
800	-0.1	0.8	0.1	0.2	0.2	-0.5
900	-0.4	0.6	-0.2	0.0	-0.1	-0.6
1000	-0.5	0.6	-0.3	-0.2	-0.3	-0.7

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS38 AUG.27, 1992 18:32 78-22.3 N 00-30.4 E	GS39 AUG.27, 1992 19:03 78-22.3 N 01-00.3 E	GS40 AUG.27, 1992 19:34 78-22.4 N 01-30.9 E	GS41 AUG.27, 1992 20:04 78-22.9 N 01-59.5 E	GS42 AUG.27, 1992 20:37 78-24.2 N 02-30.3 E	GS43 AUG.30, 1992 06:21 78-32.4 N 06-40.7 E
DEPTH(m)						
5	4.0	4.1	5.5	5.5	5.2	6.2
10	4.0	4.0	5.4	5.5	5.2	6.1
20	4.8	5.0	5.4	5.2	5.2	6.1
30	5.3	4.0	4.6	4.9	4.8	5.7
50	2.8	2.5	3.1	4.2	4.6	4.6
75	2.0	2.1	3.2	3.7	4.6	4.1
100	2.0	2.0	2.8	3.6	4.2	3.7
125	1.5	1.7	2.5	3.4	3.9	3.7
150	1.8	1.6	2.3	3.2	3.0	3.4
200	1.3	1.0	1.8	2.6	2.9	3.0
250	0.8	0.7	1.2	2.7	2.8	2.6
300	0.5	0.4	0.8	2.3	2.5	2.3
400	0.2	0.1	0.4	1.5	1.8	1.4
500	0.1	0.0	0.1	0.9	1.2	0.5
600	-0.1	-0.4	-0.1	0.4	0.8	0.1
700	-0.5	-0.6	-0.1	0.1	0.5	-0.2
800	-0.5	-0.6	-0.1	-0.2	0.3	-0.3
900	-0.6	-0.6	-0.1	-0.3	0.1	-0.4
1000	-0.7	-0.6	-0.1	-0.1	0.0	-0.5

Table 2-1. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS44 AUG.30, 1992 06:41 78-32.0 N 06-58.4 E	GS45 AUG.30, 1992 09:01 78-31.9 N 07-29.8 E	GS46 AUG.30, 1992 09:33 78-31.3 N 08-00.3 E	GS47 AUG.30, 1992 10:07 78-30.6 N 08-30.3 E	GS48 AUG.30, 1992 11:10 78-30.3 N 09-00.6 E	GS49 AUG.30, 1992 12:11 78-29.4 N 09-25.7 E
DEPTH(m)						
5	7.0	7.1	7.4	8.0	7.7	6.2
10	7.0	7.0	7.4	8.0	7.7	6.3
20	7.0	7.0	7.4	7.9	7.7	7.5
30	7.0	7.0	7.2	7.8	7.6	7.6
50	5.7	6.3	7.0	7.0	6.8	6.6
75	4.9	5.3	6.2	6.1	6.3	6.2
100	4.4	4.8	4.9	5.9	6.1	5.9
125	4.1	4.5	4.5	5.7	5.8	5.7
150	3.9	4.3	4.0	5.5	5.6	5.5
200	3.5	4.0	3.6	5.0	5.0	5.0
250	3.0	3.6	3.3	4.6	4.6	4.2
300	2.7	3.3	3.0	4.1	4.1	4.2
400	2.2	2.7	2.4	3.8	3.8	4.0
500	1.0	1.8	1.6	3.2	3.5	
600	0.0	0.8	0.9	2.7	3.1	
700	-0.1	0.0	0.1	2.3	2.5	
800	-0.4	-0.3				
900	-0.5	-0.5				
1000	-0.6	-0.6				

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS50	GS51	GS52	GS53	GS54	GS55
	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992
	13:13	14:17	15:09	15:44	16:29	17:04
	78-28.0 N	78-22.7 N	78-16.7 N	78-13.0 N	78-09.3 N	78-09.1 N
	09-59.5 E	10-29.3 E	11-05.0 E	11-30.3 E	11-59.8 E	12-29.6 E
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	6.2 6.6 5.0 4.6 4.3 4.2 4.2 3.9	4.0 4.2 4.1 4.1 4.3 5.6	4.7 4.6 4.2 4.0 4.2 3.3 2.9 3.9 4.4 3.7	3.8 3.8 3.8 3.8 3.3	4.0 4.0 4.0 3.6 3.2 3.9 3.3 2.6	4.9 4.8 4.4 4.3 3.7 3.8 2.9 3.8 3.8 3.6 1.5

Table 2-1. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	GS56	GS57	GS58	GS59	GS60	GS61
	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992	AUG.30, 1992
	17:39	18:15	18:52	19:27	19:59	20:20
	78-09.1 N	78-10.1 N	78-11.9 N	78-13.7 N	78-15.0 N	78-16.0 N
	12-59.6 E	13-29.9 E	13-59.5 E	14-29.5 E	14-59.5 E	15-20.5 E
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	5.3 5.0 4.9 4.0 3.6 3.7 4.2 4.9 4.2 4.2 3.4 1.0	5.2 5.1 5.0 4.7 3.0 1.6 1.2 0.9 2.0 2.1 1.5	5.1 5.0 4.8 4.3 1.9 1.2 2.1 3.4 3.9 2.5 0.3	4.4 4.4 4.2 3.8 2.3 0.7 0.0 1.3 2.2 0.3 0.2	4.3 4.3 3.8 1.9 0.8 2.0 2.6 2.8 1.3 0.1	4.6 4.4 4.0 3.3 1.8 0.8 2.9 2.5 2.6 0.8

STATION DATE TIME(UT) LATITUDE LONGITUDE	KF1	KF2	KF3	KF4	KF5	KF6
	AUG.31, 1992	AUG.31, 1992	AUG.31, 1992	AUG.31, 1992	SEP.01, 1992	SEP.01, 1992
	20:53	21:52	22:45	23:40	00:41	00:59
	78-20.0 N	78-29.9 N	78-39.9 N	78-49.9 N	78-58.3 N	78-59.5 N
	11-09.9 E	10-44.6 E	10-23.5 E	10-05.9 E	10-42.6 E	11-00.1 E
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	4.6 4.3 4.1 3.9 4.2 3.8	4.5 4.3 4.2 4.2 4.3 6.1	4.5 4.3 5.6 6.5 5.2 3.8	4.6 4.5 4.4 4.7 4.6	4.4 4.5 4.3 4.8 5.7 5.9 2.6 2.2	4.5 4.5 4.7 5.9 4.2 2.2 2.6 2.8 2.4

Table 2-1. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	KF7	KF8	KF9	KF10	KF11	KF12
	SEP.01, 1992	SEP.01, 1992	SEP.01, 1992	SEP.01, 1992	SEP.01, 1992	SEP.01, 1992
	01:08	01:18	01:27	01:38	01:49	15:06
	79-00.2 N	79-00.1 N	79-00.0 N	78-59.0 N	78-57.9 N	78-58.0 N
	11-10.0 E	11-20.4 E	11-30.4 E	11-40.2 E	11-49.9 E	11-56.3 E
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	5.0 4.7 4.8 4.6 4.4 5.1 3.0 2.4 2.3 1.7 0.3	4.7 5.5 4.9 4.8 4.9 5.3 2.5 1.7 1.6 1.8 1.1	5.2 4.6 5.4 5.2 5.1 4.0 2.2 2.1 1.8 2.0 1.2 0.8	4.7 5.3 5.4 5.2 4.7 2.4 1.6 1.8 1.2	3.5 3.7 5.3 5.4 4.8 5.0 3.8 1.5 2.0 1.6 1.3	3.9 4.7 4.4 5.5 5.1 3.8 1.7 2.8 2.3 1.7 1.2

Table 2-2. XBT observation data in the Greenland Sea in 1993.

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8171 AUG.17, 1993 02:36 79-00 N 09-30 E	LA8172 AUG.17, 1993 12:11 79-01 N 07-27 E	LA8173 AUG.17, 1993 12:41 79-00 N 07-00 E	LA8174 AUG.17, 1993 13:12 79-00 N 06-30 E	LA8175 AUG.17, 1993 15:49 79-00 N 05-30 E	LA8176 AUG.17, 1993 16:22 79-00 N 05-00 E
DEPTH(m)						
5	4.0	7.2	7.0	7.1	7.4	7.2
10	4.1	7.1	7.0	7.0	7.4	7.2
20	4.4	7.0	6.9	6.9	7.3	7.1
30	4.4	6.8	6.8	6.9	7.1	7.0
50	1.4	6.8	6.4	6.0	6.5	5.7
75	0.9	5.2	4.6	4.8	4.5	4.4
100	1.5	4.6	4.2	4.6	3.6	4.2
125	1.5	4.4	4.0	4.2	3.2	3.8
150	1.7	4.2	3.9	4.0	3.0	3.6
200	2.7	3.7	3.5	3.7	2.6	3.2
250	2.7	3.5	3.2	3.3	2.3	3.0
300		3.3	3.0	3.1	2.1	2.6
400		2.9	2.3	2.6	1.5	1.8
500		2.6	1.9	1.9	1.0	1.4
600		1.9	1.5	1.0	0.5	1.3
700		1.2	1.0	0.2	0.1	1.7
800		0.7	0.6	-0.1	0.0	2.0
900		0.2	0.2	-0.4	-0.1	1.6
1000		-0.2	-0.2	-0.5	-0.2	1.3

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8177 AUG.17, 1993 16:55 79-00 N 04-30 E	LA8178 AUG.17, 1993 19:47 79-00 N 03-30 E	LA8179 AUG.17, 1993 20:20 79-00 N 03-00 E	LA8170 AUG.17, 1993 20:51 79-00 N 02-30 E	LA8181 AUG.18, 1993 09:12 78-29 N 01-49 W	LA8182 AUG.18, 1993 09:19 78-29 N 01-58 W
DEPTH(m)						
5	6.4	5.8	5.8	1.9	0.0	1.0
10	6.4	5.7	5.7	2.7	0.0	0.6
20	7.0	6.6	6.3	6.1	-0.1	-1.2
30	6.8	6.3	3.1	3.1	-0.1	-1.1
50	5.6	4.7	3.3	3.1	-0.2	-1.6
75	4.7	4.3	3.8	3.3	-0.2	-1.6
100	4.4	4.0	3.4	2.9	-0.2	-0.6
125	4.0	3.7	3.3	2.9	-0.3	2.1
150	3.6	3.6	3.1	3.0	-0.3	2.1
200	3.5	2.9	2.7	2.5	-0.3	2.7
250	3.2	2.9	2.3	1.8	-0.4	2.6
300	2.9	2.6	2.0	2.0	-0.5	2.4
400	2.6	2.1	1.6	1.8		2.2
500	1.9	1.4	1.2	1.1		1.4
600	1.2	1.0	0.9	0.4		1.1
700	0.6	0.4	0.4	0.1		0.9
800	0.2	0.0	0.1	-0.1		0.6
900	0.0	-0.2	-0.2	-0.2		0.6
1000	-0.3	-0.3	-0.3	-0.3		0.5

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8183 AUG.18, 1993 11:19 78-30 N 02-30 W	LA8184 AUG.18, 1993 11:52 78-30 N 03-00 W	LA8185 AUG.18, 1993 13:51 78-30 N 03-32 W	LA8186 AUG.18, 1993 17:14 78-29 N 04-00 W	LA8191 AUG.19, 1993 12:06 79-03 N 06-53 W	LA8192 AUG.19, 1993 16:30 79-05 N 06-38 W
DEPTH(m)						
5	2.2	-0.2	0.1	1.3	-1.0	-0.8
10	1.5	0.8	-0.2	0.9	-1.0	-0.9
20	-0.5	1.8	-1.2	2.1	-1.0	-1.1
30	-1.2	-0.9	-1.4	-1.3	-1.5	-1.6
50	-1.5	-1.5	-1.5	-1.5	-1.7	-1.7
75	-1.6	-1.6	-1.7	-1.8	-1.7	-1.7
100	-0.5	0.2	-1.3	-1.2	-1.5	-1.5
125	2.9	1.9	-0.1	0.0	-1.6	-1.5
150	3.6	3.5	1.7	1.5	-1.3	-1.6
200	2.7	3.1	2.9	2.8	0.1	0.0
250	2.7	2.8	2.5	2.6	0.5	0.8
300	2.4	2.8	2.3	2.3	0.8	0.6
400	2.2	2.3	1.9	1.7	0.7	0.6
500	1.9	1.7	1.4	1.2		
600	1.5	1.2	1.0	0.8		
700	1.4	0.7	0.6	0.6		
800	1.8	0.4	0.2	0.3		
900	0.0	0.3	0.0	0.0		
1000	0.0	0.3	-0.1	-0.2		

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8193 AUG.19, 1993 17:07 79-04 N 06-31 W	LA8194 AUG.20, 1993 15:14 78-58 N 05-02 W	LA8211 AUG.21, 1993 09:58 78-27 N 05-12 W	LA8212 AUG.21, 1993 10:30 78-24 N 04-49 W	LA8213 AUG.21, 1993 10:58 78-26 N 04-30 W	LA8214 AUG.21, 1993 11:36 78-26 N 04-00 W
DEPTH(m)						
5	-0.9	-0.5	-0.8	-0.6	-1.0	-0.8
10	-0.8	-0.2	-0.9	-0.7	-1.1	-0.8
20	-1.2	-0.9	-0.9	-1.3	-1.2	-1.2
30	-1.6	-1.3	-1.2	-1.5	-1.4	-1.6
50	-1.7	-1.6	-1.5	-1.6	-1.5	-1.5
75	-1.7	-1.7	-1.7	-1.8	-1.7	-1.7
100	-1.6	-1.2	-1.8	-1.6	-1.8	-1.3
125	-1.7	-1.7	-1.6	0.3	-1.7	-0.5
150	-1.6	-1.5	-0.2	2.1	-0.6	2.1
200	-0.3	-0.3	2.0	2.7	2.2	2.6
250	0.8	1.3	1.1	2.1	2.6	2.5
300	0.6	0.6	1.0	1.8	2.5	2.5
400	0.6	0.8	0.8	0.6	2.1	2.5
500		0.5		0.6	1.6	2.4
600		0.4		0.6	1.5	2.2
700		0.3		0.6	0.8	0.8
800		0.1			0.9	0.7
900		0.0			0.6	0.1
1000		0.0			0.5	0.0

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8215 AUG.21, 1993 14:13 78-19 N 02-30 W	LA8216 AUG.21, 1993 15:00 78-17 N 01-53 W	LA8221 AUG.22, 1993 14:27 78-49 N 03-45 W	LA8231 AUG.23, 1993 01:03 78-09 N 05-05 W	LA8232 AUG.23, 1993 02:06 78-01 N 05-44 W	LA8233 AUG.23, 1993 05:17 77-47 N 05-45 W
DEPTH(m)						
5	-0.7	1.7	-0.9	0.9	-0.8	0.4
10	-0.1	2.3	-1.0	0.3	-0.9	0.0
20	-0.8	3.6	-1.1	0.6	-1.1	-0.1
30	-1.2	1.9	-1.4	-0.5	-1.6	-1.3
50	-1.2	-1.2	-1.7	-1.2	-1.5	-1.4
75	-1.5	-0.6	-1.7	-1.0	-1.8	-1.7
100	-0.1	1.0	-1.6	-0.3	-1.8	-1.3
125	1.5	3.2	-0.8	1.4	-1.7	-1.0
150	2.6	2.7	0.0	2.2	-0.5	-0.3
200	3.0	2.5	2.4	2.6	1.2	0.8
250	3.2	2.5	1.9	2.7	1.3	1.2
300	2.9	2.6	1.7	1.4	1.0	1.0
400	2.5	2.1	1.0	1.7	1.6	0.9
500	2.0	1.7	0.6	1.0		0.8
600	1.9	1.3	0.4	0.9		0.8
700	1.5	0.9	0.4	1.2		0.8
800	1.3	0.6	0.5	1.6		0.9
900	0.9	0.2	0.7	1.6		0.8
1000	0.7	0.1	0.8	1.7		0.8

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8234	LA8235	LA8236	LA8237	LA8238	LA8239
	AUG.23, 1993	AUG.23, 1993	AUG.23, 1993	AUG.23, 1993	AUG.23, 1993	AUG.23, 1993
	06:15	07:13	08:13	09:12	10:12	11:39
	77-42 N	77-34 N	77-24 N	77-20 N	77-16 N	77-07 N
	06-31 W	06-57 W	07-16 W	08-00 W	08-04 W	07-41 W
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	-0.3 -1.1 -0.9 -1.2 -1.5 -1.6 -1.5 -1.0 -0.1 1.4 1.1 1.1	-1.1 -1.1 -1.3 -1.5 -1.5 -1.2 -1.0 -0.2 0.8 1.0 1.0	-0.7 -1.1 -1.1 -1.4 -1.5 -1.4 -0.9 -0.2 1.1 1.2 1.2	-0.1 0.6 -1.1 -1.3 -1.5 -1.5 -1.6 -1.4 -0.8 0.4 1.1 1.1	0.0 0.3 -1.3 -1.5 -1.5 -1.7 -1.7 -1.4 -0.5 0.6 1.2 1.1	0.0 -0.5 -0.6 -1.6 -1.5 -1.6 -1.1 -0.4 1.3 1.6 2.3 2.2

STATION	LA8230	LA823A	LA823B	LA823C	LA823D	LA8241
DATE	AUG.23, 1993					
TIME(UT)	12:50	13:58	15:09	16:16	18:26	22:06
LATITUDE	77-10 N	77-11 N	77-15 N	77-19 N	77-13 N	76-50 N
LONGITUDE	07-21 W	06-29 W	06-07 W	05-43 ₩	05-15 W	05-12 W
DEPTH(m)						
5	0.4	0.6	0.2	-0.1	-0.1	-0.2
10	0.8	0.9	0.0	-0.2	-0.4	-0.2
20	-0.1	-0.9	0.3	-1.1	-0.8	-0.2
30	-1.5	-1.3	-0.2	-1.5	-1.0	-0.2
50	-1.5	-1.5	-1.6	-1.6	-1.6	-0.3
75	-1.6	-1.6	-1.6	-1.6	-1.4	-0.2
100	-1.5	-1.6	-1.6	-1.5	-1.6	-0.2
125	-0.9	-1.1	-0.7	-0.4	-1.6	-0.2
150	-0.3	-0.3	0.3	0.1	-1.2	-0.3
200	1.3	1.2	1.1	1.4	0.1	-0.3
250	1.3	1.2	1.3	0.7	0.9	
300	1.3	1.4	1.2	0.6	1.0	
400	1.3	1.4	1.3	0.5	1.2	
500					0.7	
600					0.6	
700					0.5	
800					0.3	
900					0.3	
1000					0.2	

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8242 AUG.23, 1993 23:02 76-44 N 05-49 W	LA8243 AUG.24, 1993 00:01 76-37 N 06-31 W	LA8244 AUG.24, 1993 01:01 76-29 N 07-11 W	LA8245 AUG.24, 1993 01:59 76-22 N 07-49 W	LA8246 AUG.24, 1993 07:57 75-39 N 11-16 W	LA8247 AUG.24, 1993 09:03 75-29 N 11-51 W
DEPTH(m)						
5	0.6	2.6	1.9	1.1	1.8	1.3
10	-0.1	2.6	1.9	0.4	1.5	0.9
20	-1.2	0.4	-1.0	-1.1	-1.4	-0.3
30	-1.6	1.3	-1.4	-1.4	-1.5	-1.3
50	-1.4	-0.9	-1.0	-1.3	-1.6	-1.6
75	-1.0	2.4	-1.1	-1.4	-1.4	-1.6
100	-0.7	1.6	0.0	-1.0	0.0	-1.3
125	-0.2	2.5	2.1	0.1	0.9	-0.5
150	1.3	2.9	2.3	1.4	2.4	0.3
200	1.6	2.4	1.9	3.2	2.6	2.2
250	1.8	2.2	2.0	3.2	2.3	1.6
300	1.8	1.7	1.5	3.0	1.8	1.2
400	1.6	1.4	1.3	2.6	1.0	1.3
500	1.0	0.8	0.6	1.9	0.8	
600	0.3	0.6	0.4	1.4	0.4	
700	0.2	0.4	0.4	1.9	0.4	
800	0.0	0.3	0.3	2.8		
900	-0.1	0.3	0.2	2.8		
1000	-0.2	0.3	0.4			

DATE TIME(UT)	LA8248 AUG.24, 1993 09:56 75-20 N	LA8249 AUG.24, 1993 11:00 75-08 N	LA8240 AUG.24, 1993 11:58 75-00 N	LA824A AUG.24, 1993 12:41 75-00 N	LA8251 AUG.25, 1993 16:10 74-58 N	LA8252 AUG.25, 1993 19:36 74-59 N
LONGITUDE	12-12 W	12-28 W	12-48 W	13-21 W	09-30 W	08-30 W
DEPTH(m) 5 10 20 30 50 75 100 125 150 200 250 300 400 500 600 700 800 900 1000	-1.0 -0.8 -1.5 -1.3 -1.6 -1.7 -1.4 -0.9 -0.4 2.2 2.0 1.3 1.4	1.3 1.8 1.4 -1.5 -1.6 -1.2 -0.6 1.6 2.5 1.9 1.5 0.8	-0.9 0.4 -0.2 -1.6 -1.7 -1.6 -0.9 -0.2 2.4 2.3 2.0 1.3 1.0 1.0	0.1 0.5 0.6 -1.1 -1.6 -1.7 -1.7 -1.3 -0.7 0.7 0.9 0.8 0.7	4.6 4.6 4.4 4.2 2.0 1.0 0.8 0.5 0.1 -0.1 -0.3 -0.5 -0.4 -0.3 -0.7 -0.7 -0.6 -0.6	4.5 4.4 4.2 2.3 1.6 1.5 1.3 1.1 0.8 0.6 0.4 0.2 0.2 0.2 0.1 0.4 0.6 0.7 0.8

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8261 AUG.26, 1993 05:47 74-38 N 06-30 W	LA8262 AUG.26, 1993 06:51 74-31 N 06-00 W	LA8263 AUG.26, 1993 07:59 74-25 N 05-30 W	LA8264 AUG.26, 1993 11:24 74-18 N 04-50 W	LA826A AUG.26, 1993 13:04 74-13 N 03-55 W	LA826B AUG.26, 1993 13:50 74-10 N 03-30 W
DEPTH(m)						
5	4.8	4.3	5.0	4.9	5.0	5.2
10	4.8	4.6	4.9	4.9	5.1	5.2
20	4.7	4.4	4.8	4.8	4.9	5.0
30	4.2	3.7	2.0	3.5	4.6	2.3
50	-0.6	0.5	-0.3	-0.5	-0.1	-0.3
75	-0.8	0.4	-0.4	-0.9	-0.7	-0.7
100	-0.8	0.2	-0.6	-0.8	-0.8	-0.6
125	-0.9	0.0	-0.8	-0.6	-0.4	-0.6
150	-0.8	-0.2	-0.9	-0.6	-0.3	-0.6
200	-0.6	-0.5	-1.0	-0.7	-0.5	-0.6
250	-0.6	-0.6	-0.9	-0.8	-0.5	-0.8
300	-0.5	-0.6	-0.7	-0.8	-0.4	-0.7
400	-0.5	-0.7	-0.9	-0.8	-0.5	-0.8
500	-0.7	-0.8	-0.9	-1.0	-0.6	-0.8
600		-1.0	-0.7	-1.0	-0.7	-0.7
700		-1.0	-0.6	-0.9	-0.6	-0.5
800		-1.0	-0.4	-0.4	-0.6	-0.2
900		-0.9		0.2	-0.5	0.0
1000		-0.9		0.3	-0.4	0.1

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA826C AUG.26, 1993 17:55 74-09 N 02-30 W	LA826D AUG.26, 1993 18:46 74-10 N 02-00 W	LA826E AUG.26, 1993 19:37 74-12 N 01-30 W	LA826F AUG.26, 1993 20:27 74-13 N 01-00 W	LA826G AUG.26, 1993 21:18 74-15 N 00-30 W	LA8271 AUG.26, 1993 22:11 74-16 N 00-00 E
DEPTH(m)						
5	5.1	5.6	5.7	5.6	5.5	5.9
10	5.1	5.5	5.6	5.6	5.5	5.8
20	4.9	5.4	5.5	5.5	5.4	5.7
30	3.9	5.2	5.3	5.5	5.0	3.9
50	-0.3	-0.2	0.1	0.2	-0.8	-0.5
75	-0.9	-0.6	-0.3	-1.2	-1.2	-0.6
100	-1.2	-0.6	-0.4	-1.2	-1.2	-0.9
125	-1.0	-0.8	-0.5	-1.2	-1.3	-0.9
150	-0.8	-0.9	-0.5	-1.2	-1.1	-0.9
200	-0.6	-0.7	-0.4	-1.1	-1.0	-0.8
250	-0.7	-0.8	-0.6	-1.1	-1.1	-0.9
300	-0.7	-0.8	-0.7	-1.1	-1.0	-0.8
400	-0.8	-1.0	-0.6	-1.0	-1.0	-0.8
500	-1.1	-1.0	-0.8	-0.4	-1.1	-0.8
600	-1.1	-1.0	-0.5	-0.6	-1.0	-0.7
700	-1.0	-1.0	1.4	-0.7	-1.0	-0.6
800	-0.9	-0.9	2.0	-0.6	-0.9	-0.6
900	-0.6	-0.7	1.5	-0.6	-0.9	-0.5
1000	0.0	-0.6	1.2	-0.7	-0.8	-0.5

Table 2-2. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	LA8272 AUG.26, 1993 23:02 74-17 N 00-30 E	LA8273 AUG.26, 1993 23:54 74-18 N 01-00 E	LA8274 AUG.27, 1993 11:58 75-00 N 01-18 E	LA8275 AUG.27, 1993 16:00 75-26 N 01-11 E	LA8276 AUG.27, 1993 17:00 75-28 N 00-51 E	LA8277 AUG.27, 1993 21:13 75-46 N 00-31 W
DEPTH(m)						
5	5.8	5.9	6.1	6.4	6.3	5.8
10	5.7	5.8	6.1	6.2	6.2	5.7
20	5.7	5.7	5.9	6.0	6.0	5.5
30	4.9	4.0	2.2	5.3	4.4	5.3
50	-0.5	-0.6	-0.4	-0.4	1.2	-0.7
75	-0.9	-1.1	-1.0	-0.7	1.0	-1.0
100	-1.0	-1.3	0.1	-0.9	0.5	-1.2
125	-1.1	-1.3	-0.1	-0.5	-0.4	-1.3
150	-0.9	-1.1	-0.2	-0.7	-1.1	-1.2
200	-0.9	-1.2	-0.3	-0.5	-0.6	-1.2
250	-0.9	-1.1	-0.4	-0.4	-0.5	-1.1
300	-1.0	-1.0	-0.5	-0.4	-0.7	-1.0
400	-1.1	-1.0	-0.6	-0.6	-0.8	-1.0
500	-1.1	-1.0	-0.9	-0.6	-0.4	-1.0
600	-1.1	-1.0	-0.8	-0.6	-0.6	-0.9
700	-1.0	-0.8	-0.8	-0.4	-0.7	-0.9
800	-0.9	-0.5	-0.7		-0.7	-0.9
900	-0.8	-0.2	-0.8		-0.6	-0.7
1000	-0.8	0.0	-0.8		-0.6	-0.7

		r 		 		
STATION	LA8282	LA8283	LA8285	LA8286	LA8287	LA8288
DATE	AUG.28, 1993	AUG.28, 1993	AUG.28, 1993	AUG.28, 1993	AUG.28, 1993	AUG.28, 1993
TIME(UT)	02:56	07:09	08:12	09:11	13:12	14:12
LATITUDE	76-18 N	76-40 N	76-50 N	77-00 N	77-18 N	77-28 N
LONGITUDE	01-21 W	00-44 W	00-32 W	00-18 W	00-14 E	00-28 E
DEPTH(m)						
5	6.0	6.1	5.6	5.7	5.5	6.1
10	5.9	6.4	5.4	5.5	5.4	6.0
20	5.6	6.0	4.8	5.0	5.3	5.9
30	5.3	6.4	5.6	3.5	4.0	5.2
50	1.7	4.5	3.5	2.4	2.4	2.1
75	1.1	2.8	3.0	2.6	2.9	1.6
100	0.8	2.5	2.5	2.6	2.7	1.2
125	0.6	1.5	2.2	2.3	2.5	1.3
150	0.3	2.0	2.1	2.2	2.5	0.9
200	0.3	1.6	1.4	2.4	2.1	0.5
250	0.1	1.2	1.4	1.9	1.7	0.2
300	-0.1	0.9	1.0	1.6	1.5	0.3
400	-0.5	0.5	0.1	0.9	0.9	-0.3
500	-0.6	-0.1	-0.1	0.3	0.6	-0.3
600	-0.6	-0.3	-0.3	0.0	0.1	-0.3
700	-0.6	-0.4	-0.5	-0.2	0.0	-0.5
800	-0.8	-0.4	-0.4	-0.3	0.0	-0.5
900	-0.9	-0.5	-0.6	-0.4	0.1	-0.6
1000	-0.8	-0.6	-0.7	-0.4	0.0	-0.7

Table 2-2. (continued)

TIME(UT)						·····	
DEPTH(m) 5 6.6 6.1 6.0 6.8 6.5 8.6 10 6.5 6.2 5.9 6.7 6.5 7.9 20 6.4 6.2 6.1 6.6 6.4 7.8 30 6.2 6.0 5.7 6.2 6.3 6.7 50 4.2 5.1 3.7 4.5 4.9 6.7 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.6 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400	DATE TIME(UT) LATITUDE	AUG.28, 1993 15:11 77-38 N	AUG.28, 1993 18:54 77-45 N	AUG.28, 1993 20:07 77-45 N	AUG.29, 1993 00:17 77-45 N	AUG.29, 1993 01:00 77-45 N	AUG.29, 1993 10:47 77-45 N
5 6.6 6.1 6.0 6.8 6.5 8.6 10 6.5 6.2 5.9 6.7 6.5 7.9 20 6.4 6.2 6.1 6.6 6.4 7.8 30 6.2 6.0 5.7 6.2 6.3 6.7 50 4.2 5.1 3.7 4.5 4.9 6.7 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.5 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1							
10 6.5 6.2 5.9 6.7 6.5 7.5 20 6.4 6.2 6.1 6.6 6.4 7.8 30 6.2 6.0 5.7 6.2 6.3 6.7 50 4.2 5.1 3.7 4.5 4.9 6.7 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.5 150 2.1 1.4 3.0 2.5 1.8 5.5 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.2 500 0.1		6.6	C 1	6.0	6.0	6.5	0.0
20 6.4 6.2 6.1 6.6 6.4 7.8 30 6.2 6.0 5.7 6.2 6.3 6.1 50 4.2 5.1 3.7 4.5 4.9 6.1 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.1 150 2.1 1.4 3.0 2.5 1.8 5.5 200 1.8 1.0 2.9 2.1 1.6 5.0 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.2 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1	1	1	i.	i			ł
30 6.2 6.0 5.7 6.2 6.3 6.7 50 4.2 5.1 3.7 4.5 4.9 6.7 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.8 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.2 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4<					1		
50 4.2 5.1 3.7 4.5 4.9 6.7 75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.8 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.8 -0.3 -0.5 -0.5 2.5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>7.8</td></td<>							7.8
75 3.2 3.0 3.5 2.9 3.1 5.8 100 2.8 1.8 3.4 2.9 2.6 5.5 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.6 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.4 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.6			1		I .	1	6.7
100 2.8 1.8 3.4 2.9 2.6 5.9 125 2.5 1.6 3.2 2.7 2.1 5.7 150 2.1 1.4 3.0 2.5 1.8 5.5 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.4 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.8 -0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 -0.7 1.1 900 -0.6 -0.8 -0.3 -0.6 -0.7<							6.7
125 2.5 1.6 3.2 2.7 2.1 5.° 150 2.1 1.4 3.0 2.5 1.8 5.° 200 1.8 1.0 2.9 2.1 1.6 5.° 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1						1	5.8
150 2.1 1.4 3.0 2.5 1.8 5.6 200 1.8 1.0 2.9 2.1 1.6 5.6 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.6 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.8 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.7 1.1 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	100			3.4		2.6	5.9
200 1.8 1.0 2.9 2.1 1.6 5.0 250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.4 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.6 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	125	i e	1.6	3.2	2.7	2.1	5.7
250 1.4 0.4 2.7 1.7 1.2 4.8 300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.6 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	150	2.1	1.4	3.0	2.5	1.8	5.5
300 0.8 0.1 2.4 1.0 0.8 4.2 400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.6 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	200	1.8	1.0	2.9	2.1	1.6	5.0
400 0.6 -0.1 1.7 0.0 0.2 3.4 500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	250	1.4	0.4	2.7	1.7	1.2	4.8
500 0.1 -0.4 1.1 -0.2 -0.2 2.5 600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.6 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	300	0.8	0.1	2.4	1.0	0.8	4.4
600 -0.1 -0.5 0.8 -0.3 -0.4 2.7 700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 2.6 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	400	0.6	-0.1	1.7	0.0	0.2	3.4
700 -0.4 -0.5 0.3 -0.5 -0.5 2.5 800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 2.6 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	500	0.1	-0.4	1.1	-0.2	-0.2	2.9
800 -0.5 -0.6 -0.1 -0.6 -0.6 2.0 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	600	-0.1	-0.5	0.8	-0.3	-0.4	2.7
800 -0.5 -0.6 -0.1 -0.6 -0.6 -0.6 900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	700	-0.4	-0.5	0.3	-0.5	-0.5	2.5
900 -0.6 -0.8 -0.3 -0.6 -0.7 1.1	800	-0.5	-0.6	-0.1	-0.6	-0.6	2.0
l	900	-0.6	-0.8	-0.3	-0.6	-0.7	1.1
	1000	-0.7	-0.8	-0.4	-0.6	-0.8	0.3

Table 3. CTD observation data around Spitsbergen in 1993.

DATE: JULY TIME(UT): LATITUDE:	STATION: 1 DATE: JULY 17, 1993 TIME(UT): 18:30 LATITUDE: 79-33.0 N LONGITUDE: 11-10.5 E			17, 1993 21:15 79-33.7 N 11-02.5		DATE: JULY TIME(UT): LATITUDE:	STATION: 3 DATE: JULY 18, 1993 TIME(UT): 08:50 LATITUDE: 79-40.2 N LONGITUDE: 12-15.9 E			
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)		
0 10 20 30 50 69	2.96 2.51 1.27 1.34 1.96 1.72	32.57 33.61 34.03 34.21 34.34 34.36	0 10 20	4.74 2.65 2.63	31.77 33.48 34.09	0 10 20 26	4.22 3.05 2.42 -1.34	31.85 34.19 34.24 34.50		

STATION: 3 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 18, 1993 09:00 79-40.2 N		STATION: 5 DATE: JULY 18, 1993 TIME(UT): 21:05 LATITUDE: 79-58.6 N LONGITUDE: 12-39.9 E			STATION: 6 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	19, 1993 08:50 80-00.3 N	
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 10 20 26	3.76 3.04 2.43 -1.27	28.20 34.20 34.26 34.43	0 10 20 30 50 52	4.33 4.06 2.70 2.46 2.43 2.43	34.46 34.38 34.49 34.54 34.55 34.55	0 10 20 22	2.35 2.59 2.60 2.60	33.04 33.84 33.81 33.83

Table 3. (continued)

STATION: 7 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	19, 1993 12:05 80-02.7 N		STATION: 8 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	19, 1993 14:00 80-11.0 N		DATE: JULY TIME(UT): LATITUDE:	(db) (°C) (PSU) 0 4.22 31.8		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)			SAL. (PSU)	
0 10 20 30 50 75 100 125 149	3.72 3.36 2.73 2.52 2.64 2.58 2.36 2.84 2.19	18.68 34.23 34.45 34.54 34.58 34.60 34.64 34.75 34.77	0 10 20 30 50 75 100 125 150 200 237	1.21 1.30 3.28 3.59 3.38 3.78 3.79 3.21 3.17 3.02 2.88	30.11 33.08 34.38 34.78 34.92 34.94 34.99 34.94 34.93 34.90	0 10 20 30 50 75 100 118	4.22 2.16 2.35 2.42 2.04 1.58 0.85 1.53	31.85 33.60 33.91 34.40 34.60 34.55 34.68 34.63	

STATION: 1 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	19, 1993 17:15 79-59.2 N		STATION: 1 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 19, 1993 19:00 79-55.0 N		STATION: 1 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	20, 1993 12:00 79-59.5 N	
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 10 20 30 50 65	2.53 1.68 1.58 1.51 1.46 1.22	30.23 33.79 34.30 34.36 34.49 34.47	0 10 17	3.00 1.83 1.32	29.01 33.42 34.01	0 10 20 30 50 75 100 125 150 200 250 293	3.34 2.02 1.84 1.58 1.53 1.56 1.60 1.49 1.56 1.75 2.19 2.45	29.75 33.85 34.22 34.35 34.40 34.48 34.57 34.54 34.67 34.67 34.78 34.80

Table 3. (continued)

STATION: 1 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 20, 1993 14:00 79-45.0 N	3	STATION: 14 DATE: JULY 20, 1993 TIME(UT): 15:30 LATITUDE: 79-35.3 N LONGITUDE: 18-30.8 E			STATION: DATE: JULY TIME(UT): LATITUDE: LONGITUDE		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0	2.92	31.35	0	3.37	25.88	0	-0.20	33.64
10	0.95	33.43	10	1.78	32.03	10	-0.68	33.54
20	-0.44	33.86	20	-0.19	33.78	20	-1.14	33.85
30	-0.57	33.92	30	-1.01	34.19	30	-1.24	33.93
50	-1.01	34.22	50	-1.21	34.25	50	-1.35	34.19
75	-1.17	34.32	75	-0.58	34.41	75	-1.45	34.26
100	-1.23	34.35	100	-0.42	34.45	100	-1.10	34.49
125	-1.15	34.37	125	-0.11	34.51	125	-1.01	34.46
150	-0.41	34.47	150	-0.08	34.54	147	-1.01	34.46
200	-0.24	34.53	200	-0.01	34.56			
250	0.14	34.59	207	0.00	34.56			
300	-0.10	34.59						
335	0.71	34.67						

STATION: 1 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 20, 1993 20:20 79-26.0 N		TIME(UT): LATITUDE:	7 21, 1993		STATION: DATE: JULY TIME(UT): LATITUDE: LONGITUDE	7 21, 1993 11:20 79-46.7 N	
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0 10 20 30 50 75 100 125 150 165	-0.81 -1.00 -1.17 -1.25 -1.39 -1.38 -1.32 -1.26 -1.25	33.67 33.73 33.84 33.88 34.07 34.27 34.37 34.39 34.40 34.40	0 10 19	2.20 1.01 -0.30	0.88 32.65 33.92	0 10 20 30 50 75 100 125 150 200 250 300 382	2.20 1.00 0.44 -0.21 -0.69 0.31 0.89 -0.25 0.33 0.53 0.53 -0.05 -0.20	32.30 33.50 33.77 33.86 34.12 34.42 34.52 34.49 34.59 34.65 34.64 34.63

Table 3. (continued)

STATION: DATE:VJULY TIME(UT): LATITUDE: LONGITUDE	7 21, 1993 14:30 80-02.9 N		STATION: 20 DATE: JULY 21, 1993 TIME(UT): 20:00 LATITUDE: 80-03.4 N LONGITUDE: 17-17.5 E			(db) (°C) (PSU 0 2.63 28.1 10 2.74 33.2 20 2.96 34.		
PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.			SAL.
(db)	(°C)	(PSU)	(db)	(°C)	(PSU)	(db)	(°C)	(PSU)
0	2.31	32.58	0	3.26	31.62	0	2.63	28.97
10	0.26	33.81	10	2.26	32.71	10	2.74	33.76
18	-0.25	34.02	20	2.46	33.53	20	2.96	34.41
			30	2.76	34.06	30	2.73	34.56
			50	3.34	34.68	50	2.53	34.61
			75	3.26	34.82	75	2.26	34.65
			100	3.43	34.89	100	2.21	34.66
			125	2.99	34.89	125	2.21	34.67
			150	2.45	34.78	137	2.20	34.73
			200	2.29	34.84			
			250	2.89	34.90			
			300	2.12	34.84			

STATION: 2 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 22, 1993 00:00 79-59.4 N		STATION: 23 DATE: JULY 22, 1993 TIME(UT): 08:12 LATITUDE: 79-32.3 N LONGITUDE: 12-29.2 E			TIME(UT): LATITUDE:	UT): 11:35 CUDE: 79-28.1 N CTUDE: 13-24.2 E CSS. TEMP. SAL D) (°C) (PSU		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)		SAL. (PSU)	
0 10 20 30 50 75 100	3.64 3.42 3.18 3.13 2.84 2.31 2.09	33.69 33.73 34.27 34.36 34.50 34.61 34.66	0 10 20 30 50 75	-0.87 -0.73 -0.83 -1.13 -0.68 -0.91	29.17 33.92 33.99 34.06 34.15 34.23	0 10 20 30 31	6.46 0.03 0.11 -0.45 -0.48	2.97 33.95 34.09 34.15 34.14	

Table 3. (continued)

STATION: 2 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	23, 1993 04:00 79-38.9 N		STATION: 26 DATE: JULY 23, 1993 TIME(UT): 05:50 LATITUDE: 79-54.5 N LONGITUDE: 14-19.2 E			DATE: JULY TIME(UT): LATITUDE:	STATION: 27 DATE: JULY 23, 1993 TIME(UT): 06:55 LATITUDE: 80-00.6 N LONGITUDE: 14-29.3 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	
0 10 20 30 50 75 100 116	5.65 2.26 1.84 1.38 1.37 0.67 -0.28 -0.65	11.07 33.55 34.17 34.24 34.35 34.35 34.41 34.40	0 10 20 30 50 75 100 125 150 172	3.19 3.10 2.83 2.91 2.35 2.03 1.80 1.01 0.40 0.27	33.81 34.06 34.23 34.29 34.49 34.61 34.62 34.63 34.60 34.59	0 10 20 30 38	2.83 2.80 2.80 2.75 2.75	34.13 34.26 34.25 34.27 34.29	

STATION: 2 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	7 23, 1993 11:50 79-46.2 N		STATION: 2 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	23, 1993 14:50 79-43.7 N		STATION: 3 DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	24, 1993 00:15 79-27.6 N	
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 10 20 30 50 75 100 125 150	4.72 4.53 3.70 3.42 2.23 1.95 1.89 0.93 0.28	33.52 33.40 33.87 33.95 34.26 34.36 34.39 34.42 34.44	0 10 20 24	5.21 4.97 4.68 4.31	33.54 33.57 33.66 33.77	0 10 20 30 33	6.75 6.73 5.08 4.00 3.61	33.59 33.56 33.52 33.78 33.97

Table 3. (continued)

STATION: 31 DATE: JULY 24, 1993 TIME(UT): 02:05 LATITUDE: 79-11.6 N LONGITUDE: 10-46.8 E			DATE: JULY TIME(UT): LATITUDE:	STATION: 32 DATE: JULY 24, 1993 TIME(UT): 13:40 LATITUDE: 78-55.9 N LONGITUDE: 11-56.6 E			STATION: 33 DATE: JULY 24, 1993 TIME(UT): 15:50 LATITUDE: 78-55.8 N LONGITUDE: 12-26.4 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0 10 20 30 50 75 100 125 146	6.57 6.17 3.67 2.17 1.06 0.78 1.15 1.57 1.69	31.90 33.03 33.95 34.15 34.34 34.43 34.56 34.61 34.64	0 9	5.86 4.84	27.51 32.41	0 10 20 30	3.36 1.96 1.14 2.42	27.73 31.83 33.27 33.76	

STATION: 33 DATE: JULY 24, 1993 TIME(UT): 16:00 LATITUDE: 78-55.8 N LONGITUDE: 12-26.4 E			DATE: JULY TIME(UT): LATITUDE:	STATION: 35 DATE: JULY 25, 1993 TIME(UT): 09:20 LATITUDE: 79-01.0 N LONGITUDE: 12-04.5 E			STATION: 36 DATE: JULY 25, 1996 TIME(UT): 11:00 LATITUDE: 79-00.9 N LONGITUDE: 11-26.0 E		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0 10 20 30 44	3.88 1.95 1.36 2.41 0.57	26.62 31.72 33.13 33.76 34.30	0 10 20 30 34	4.69 1.91 2.49 -0.64 -1.32	20.91 31.17 32.95 33.64 34.10	0 10 20 30 50 75 100 125 150 200 250 300 351	7.22 6.91 5.37 2.82 1.50 0.67 0.61 0.67 0.08 0.40 0.69 0.91	31.24 31.91 31.40 33.92 34.19 34.33 34.38 34.44 34.41 34.55 34.63 34.67 34.72	

Table 3. (continued)

STATION: 37 DATE: JULY 25, 1993 TIME(UT): 14:15 LATITUDE: 78-46.4 N LONGITUDE: 10-27.5 E			STATION: 38 DATE: JULY 26, 1993 TIME(UT): 01:10 LATITUDE: 77-54.1 N LONGITUDE: 12-44.4 E			DATE: JULY TIME(UT): LATITUDE:	STATION: 39 DATE: JULY 26, 1993 TIME(UT): 10:05 LATITUDE: 77-33.5 N LONGITUDE: 15-04.8 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0 10 19	6.54 6.46 3.48	31.45 31.63 33.50	0 10 20 30 33	3.94 2.58 0.29 0.08 0.08	30.01 32.59 33.53 33.74 33.74	0 10 20 30 36	5.40 2.38 1.08 0.49 0.17	23.11 31.89 32.99 33.43 33.65	

STATION: 40 DATE: JULY 27, 1993 TIME(UT): 05:35 LATITUDE: 78-15.9 N LONGITUDE: 13-46.3 E			DATE: JULY TIME(UT): LATITUDE:	STATION: 41 DATE: JULY 27, 1993 TIME(UT): 11:45 LATITUDE: 78-04.0 N LONGITUDE: 14-12.2 E			STATION: 42 DATE: JULY 27, 1993 TIME(UT): 19:05 LATITUDE: 78-23.7 N LONGITUDE: 16-51.8 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0 10 20 27	6.47 4.44 3.59 2.72	24.49 31.33 32.16 33.19	0 10 11	6.54 2.69 2.61	29.84 32.29 32.29	0 10 20 30 33	10.16 4.85 2.83 1.87 1.60	15.62 32.05 33.38 33.80 33.92	

Table 3. (continued)

STATION: 4: DATE: JULY TIME(UT): LATITUDE: LONGITUDE:	28, 1993 13:00 78-13.8 N		STATION: 4 DATE: AUGU TIME(UT): LATITUDE: LONGITUDE:	ST 8, 199 18:25 79-33.3 N		STATION: 45 DATE: AUGUST 8, 199 TIME(UT): 20:40 LATITUDE: 79-42.9 N LONGITUDE: 11-05.7		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0 9	6.28 4.45	23.69 31.90	0 10 20 30 50 69	4.15 4.64 5.08 5.49 3.95 3.48	30.33 31.16 31.53 31.99 32.55 33.14	0 10 20 30 50 75 100 125 150 200 212	5.33 5.36 5.62 5.21 3.81 2.81 2.09 1.55 1.13 0.33 0.17	31.71 31.80 32.12 32.47 33.78 34.11 34.30 34.33 34.40 34.45 34.46

STATION: 46 DATE: AUGUST 8, 1993 TIME(UT): 22:45 LATITUDE: 79-53.2 N LONGITUDE: 11-58.0 E			DATE: AUGU TIME(UT): LATITUDE:	STATION: 47 DATE: AUGUST 9,1993 TIME(UT): 08:05 LATITUDE: 79-56.2 N LONGITUDE: 16-42.6 E			STATION: 48 DATE: AUGUST 9, 1993 TIME(UT): 14:20 LATITUDE: 79-36.4 N LONGITUDE: 17-59.2 E		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS.	TEMP.	SAL. (PSU)	
0 10 20 30 50 75 100 125 133	5.28 5.36 5.40 5.43 4.83 3.42 2.97 2.88 2.75	32.64 32.66 32.67 32.81 33.45 33.91 34.04 34.08 33.90	0 9	4.08 4.30	32.93 33.01	0 10 20 30 50	-0.40 0.11 -0.15 0.46 0.02	28.58 33.16 33.64 33.86 33.99	

Table 3. (continued)

STATION: 49 DATE: AUGUST 9, 1993 TIME(UT): 15:40 LATITUDE: 79-35.8 N LONGITUDE: 18-02.1 E			STATION: 50 DATE: AUGUST 9, 1993 TIME(UT): 17:05 LATITUDE: 79-32.3 N LONGITUDE: 17-47.3 E			STATION: 51 DATE: AUGUST 10, 1993 TIME(UT): 17:15 LATITUDE: 79-41.7 N LONGITUDE: 18-22.7 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0	0.20	27.56	0	2.48	23.89	0	0.94	28.54
10	0.53	32.65	10	1.06	32.64	10	0.36	32.53
20	-0.14	33.55	20	-0.15	33.74	20	0.04	33.59
30	-0.05	33.84	30	-0.10	33.88	30	-0.12	33.96
50	-0.05	34.07	50	-0.09	34.13	50	-0.18	34.15
75	-0.03	34.24	75	-0.45	34.32	75	0.01	34.27
87	-0.24	34.26	98	-0.85	34.41	100	-0.07	34.34
						125	0.23	34.41
						150	0.17	34.46
						200	0.47	34.49
						250	1.03	34.61
						300	1.00	34.63
						400	0.57	34.65
						412	0.36	34.66

DATE: AUGU TIME(UT): LATITUDE:	STATION: 52 DATE: AUGUST 10, 1993 TIME(UT): 19:20 LATITUDE: 79-53.1 N LONGITUDE: 17-54.2 E			STATION: 53 DATE: AUGUST 11, 1993 TIME(UT): 13:55 LATITUDE: 80-05.0 N LONGITUDE: 17-27.2 E			STATION: 54 DATE: AUGUST 12, 1993 TIME(UT): 07:45 LATITUDE: 79-56.3 N LONGITUDE: 15-16.9 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	
0,	0.20	27.56	0	2.45	33.35	0	4.75	32.62	
10	0.05	32.50	10	2.45	33.32	10	4.69	32.56	
20	2.66	33.31	20	2.45	33.32	20	4.65	33.55	
30	2.39	33.52	30	1.75	33.41	30	4.45	34.03	
50	-0.12	33.93	50	0.59	33.82	50	3.68	34.34	
75	0.92	34.15	75	1.68	34.16	75	1.86	34.34	
100	2.32	34.45	100	2.58	34.40	100	1.66	34.49	
125	2.03	34.55	125	2.46	34.48	125	1.04	34.51	
150	2.29	34.64	150	2.06	34.55	144	0.81	34.56	
200	1.23	34.57	200	2.03	34.65				
250	2.21	34.76	250	2.92	34.82				
300	1.63	34.70	300	2.77	34.82				
400	0.14	34.62	373	1.14	34.70				
404	0.14	34.62							

Table 3. (continued)

STATION: 55 DATE: AUGUST 12, 1993 TIME(UT): 10:32 LATITUDE: 79-53.5 N LONGITUDE: 14-16.6 E		DATE: AUGU TIME(UT): LATITUDE:	STATION: 56 DATE: AUGUST 13, 1993 TIME(UT): 10:30 LATITUDE: 79-31.9 N LONGITUDE: 10-37.3 E			STATION: 57 DATE: AUGUST 13, 1993 TIME(UT): 14:35 LATITUDE: 79-02.8 N LONGITUDE: 10-51.3 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS.	TEMP.	SAL. (PSU)
0 10 20 30	8.97 4.62 4.80 4.85	32.55 33.13 33.38	0 10 20 22	5.76 4.29 4.43 4.44	28.59 30.76 31.04 31.08	0 10 20 30	5.54 5.12 3.21 3.61	30.22 30.63 31.85 32.51
50 75 100 125	3.60 3.54 2.65 3.32	34.05 34.42 34.54 34.77				50 75 100 125	2.63 1.72 0.83 0.67	33.59 34.13 34.31 34.36
150 171	2.77 1.13	34.76 34.58				150 200 250 300 340	0.93 2.25 1.79 1.52 1.41	34.41 34.66 34.70 34.71 34.73

STATION: 58

DATE: AUGUST 13, 1993 TIME(UT): 15:25 LATITUDE: 79-02.7 N LONGITUDE: 10-24.7 E

		_	
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	_
0	3.05	31.28	-
10	2.70	32.23	
20	2.45	32.48	
30	2.69	33.04	
50	2.39	33.58	
75	1.36	34.18	
100	1.08	34.31	
125	1.11	34.38	
150	0.88	34.49	
200	0.83	34.58	
250	1.18	34.69	
293	1.21	34.72	

Table 4. XBT observation data around Spitsbergen in 1993.

STATION DATE TIME(UT) LATITUDE LONGITUDE	OR7161 JUL.16, 1993 09:45 78-53.5 N 11-13.4 E	OR7162 JUL.16, 1993 10:14 78-57.0 N 11-08.0 E	OR7164 JUL.16, 1993 10:46 79-01.1 N 11-18.7 E	OR7166 JUL.16, 1993 11:28 79-07.2 N 11-36.1 E	OR7167 JUL.16, 1993 12:08 79-09.6 N 11-42.1 E	OR7168 JUL.16, 1993 12:27 79-12.0 N 11-44.9 E
DEPTH(m)						
10	4.9	5.2	5.5	3.2	3.5	2.5
20	3.8	4.0	3.0	3.3	4.1	1.0
30	1.9	1.7	2.2	2.6	1.9	3.1
50	0.8	0.9	1.0	0.8	0.7	1.0
75	0.5	0.7	0.6	0.6	0.1	0.2
100	0.7	0.2	0.4	-0.1	-0.3	-0.2
125	0.9	0.2	-0.2	-0.5	-0.7	-0.7
150		0.9	0.2	-0.9	-1.2	-1.1
200			0.5	-1.3	-1.4	-1.4
250			0.0	-0.8	-0.9	-0.6

STATION DATE TIME(UT) LATITUDE LONGITUDE	OR7160	POLA8080	POLA8081	POLA8084	POLA8085	POLA8086
	JUL.16, 1993	AUG.8, 1993	AUG.8, 1993	AUG.8, 1993	AUG.8, 1993	AUG.8, 1993
	14:44	10:52	11:00	11:23	11:33	11:49
	79-19.3 N	78-56.0 N	78-55.5 N	78-54.0 N	78-53.7 N	78-53.4 N
	11-38.3 E	12-01.9 E	12-05.8 E	12-16.4 E	12-22.3 E	12-26.8 E
DEPTH(m) 10 20 30 50 75 100 125 150 200	0.7 0.0 -0.2 0.7 0.2 -0.3 -1.0 -1.3	4.4 4.7 4.4 3.9 1.6 0.6 0.0 0.0	4.2 4.5 4.2 3.2 1.7 0.2 -0.1	4.2 4.5 4.5	3.7 4.6 3.4	3.1 4.3 3.7

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA8087 AUG.8, 1993 13:26 78-57.1 N 11-55.2 E	POLA8088 AUG.8, 1993 13:35 78-58.1 N 11-48.0 E	POLA8089 AUG.8, 1993 13:44 78-59.1 N 11-41.6 E	POLA808A AUG.8, 1993 13:56 79-00.3 N 11-33.3 E	POLA808B AUG.8, 1993 14:05 79-01.1 N 11-27.4 E	POLA808C AUG.8, 1993 14:15 79-02.2 N 11-20.6 E
DEPTH(m)						
10	4.7	4.9	5.2	5.0	4.5	4.2
20	5.1	4.7	5.1	4.5	4.2	4.2
30	4.7	4.7	5.0	4.7	4.1	4.0
50	4.2	3.6	2.9	3.3	3.0	2.2
75	1.9	1.7	1.8	1.7	1.3	1.2
100	0.5	1.0	0.8	0.8	0.8	0.7
125	0.0	0.3	0.6	0.6	0.4	0.3
150	-0.1	0.1	-0.1	0.3	0.0	0.1
200	0.2	0.6	0.2		0.1	-0.2
250	0.7	0.8	0.4		0.4	0.5

Table 4. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA808D AUG.8, 1993 14:25 79-03.2 N 11-14.4 E	POLA808E AUG.8, 1993 14:35 79-04.5 N 11-07.9 E	POLA808F AUG.8, 1993 14:44 79-05.9 N 11-03.5 E	POLA808G AUG.8, 1993 14:55 79-07.9 N 10-59.1 E	POLA808H AUG.8, 1993 16:42 79-25.8 N 10-26.8 E	POLA808K AUG.8, 1993 19:23 79-34.0 N 10-51.5 E
DEPTH(m)		4.0	2.0	0.0	0.0	F 0
10	4.2	4.2	3.9	3.8	3.9	5.0
20	4.2	4.0	4.0	3.8	3.5	4.9
30	4.0	4.1	3.8	3.6	3.4	5.3
50	3.6	3.4	2.3	2.3	3.2	
75	1.6	1.5	1.4	1.0		
100	0.9	0.8	0.8	1.0		
125	1.0	0.4	0.9			
150	1.1					
200	1.3					
250	1.3					

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA808L	POLA8091	POLA8092	POLA8101	POLA8102	POLA8103
	AUG.8, 1993	AUG.9, 1993	AUG.9, 1993	AUG.10, 1993	AUG.10, 1993	AUG.10, 1993
	20:19	10:02	10:44	08:10	09:15	10:01
	79-40.0 N	80-00.7 N	79-57.4 N	79-36.4 N	79-36.9 N	79-36.7 N
	11-09.2 E	17-12.1 E	17-35.3 E	18-41.7 E	19-16.2 E	19-30.8 E
DEPTH(m) 10 20 30 50 75 100 125 150 200 250	5.5 5.0 4.5 3.9 2.8 2.1 1.8	4.4 4.4 4.3 0.9 2.2 2.1 2.1 2.1 2.2	2.5 3.1 2.5 1.0 1.4 2.1 2.0 2.1 3.7 3.1	-0.1 -0.3 -0.3 0.2 1.1 1.1 0.3 0.4 0.7	-0.1 -0.4 -0.4 -0.3 0.0 0.1	0.2 -0.3 -0.4 -0.9 -0.3

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA8104	POLA8111	POLA8113	POLA8121	POLA8122	POLA8124
	AUG.10, 1993	AUG.11, 1993	AUG.11, 1993	AUG.12, 1993	AUG.12, 1993	AUG.12, 1993
	16:58	10:13	17:31	07:20	08:14	10:13
	79-41.3 N	79-56.2 N	79-57.9 N	79-55.2 N	79-57.4 N	79-55.6 N
	18-27.4 E	17-47.1 E	15-40.8 E	15-35.5 E	15-00.7 E	14-22.4 E
DEPTH(m) 10 20 30 50 75 100 125 150 200 250	1.1 0.1 -0.1 -0.1 1.0 1.8 0.8 1.0 1.0 0.9	0.3 1.2 1.9 0.3 1.6 1.9 2.0 2.2 2.6 2.7	4.5 4.0 3.9 3.5 2.1 2.0	4.6 4.5 4.3 2.8 1.7 1.6	4.8 4.4 4.3 4.1 3.4 1.4	4.3 4.7 4.4 3.6 0.0 1.3 0.9

Table 4. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA8125	POLA8131	POLA8132	POLA8133	POLA8135	POLA8136
	AUG.12, 1993	AUG.12, 1993	AUG.12, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993
	10:57	22:44	23:28	00:14	00:58	01:43
	79-50.6 N	79-43.6 N	79-50.8 N	79-55.2 N	79-55.5 N	79-53.0 N
	14-13.5 E	13-59.5 E	14-03.4 E	13-31.5 E	12-49.8 E	12-05.7 E
DEPTH(m) 10 20 30 50 75 100 125 150	5.1 4.7 4.8 4.6 3.0 3.0 3.3	5.6 5.5 5.3 3.2 3.4 3.4 2.8	4.9 4.7 4.5 4.1 3.2 3.4 3.5	5.8 5.6 5.2 4.0 3.4 3.5 3.7	5.2 4.7 4.7	5.2 5.3

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA8137	POLA8138	POLA8139	POLA8130	POLA813A	POLA813B
	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993
	11:44	12:30	13:15	13:44	14:02	14:19
	79-30.0 N	79-22.6 N	79-15.4 N	79-10.7 N	79-07.8 N	79-05.0 N
	10-32.4 E	10-38.5 E	10-44.6 E	10-47.5 E	10-49.1 E	10-50.3 E
DEPTH(m) 10 20 30 50 75 100 125 150	4.2	4.8 4.1 3.5	5.0 3.2 3.4 3.8 1.2	5.2 2.9 3.6 2.5 1.2	5.4 3.2 3.7 2.2	5.1 4.0 3.5 2.6 1.3 1.4 1.2

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA813C AUG.13, 1993 15:02 79-02.6 N 10-41.4 E	POLA813D AUG.13, 1993 15:49 79-01.5 N 10-24.6 E	POLA813E AUG.13, 1993 16:00 78-59.7 N 10-23.8 E	POLA813F AUG.13, 1993 16:12 78-57.8 N 10-22.4 E	POLA813G AUG.13, 1993 16:29 78-55.2 N 10-19.6 E	POLA813H AUG.13, 1993 17:15 78-48.1 N 10-16.1 E
DEPTH(m)						
10	2.5	1.8	2.5	3.3	3.0	2.4
20	1.9	1.7	2.3	2.4	2.5	2.3
30	2.2	3.4	2.8	2.4	2.6	2.4
50	2.8	2.1	2.8	2.9		2.7
75	1.5	2.0	1.3	1.4		
100	1.3	1.0	1.3	1.5		
125	0.7	0.8	0.7	1.6		
150	0.4	1.0	0.6	1.1		
200	2.1	1.2	1.1	1.8		
250	1.5	1.0	1.3			

Table 4. (continued)

STATION DATE TIME(UT) LATITUDE LONGITUDE	POLA813J	POLA813K	POLA813L	POLA813M	POLA813N	POLA8141
	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993	AUG.13, 1993
	18:59	19:45	20:23	21:26	22:05	22:43
	78-32.8 N	78-26.4 N	78-21.7 N	78-13.7 N	78-09.9 N	78-08.2 N
	10-41.0 E	10-52.2 E	11-09.6 E	11-38.0 E	11-54.6 E	12-17.1 E
DEPTH(m) 10 20 30 50 75 100 125 150 200 250	2.2 2.0 1.8 1.5 1.4	3.2 2.6 2.5 2.4 0.8	2.4 2.1 1.8 3.3	1.7 1.4 1.4	2.1 2.0 1.6 1.2 0.5	1.9 1.8 1.8 1.2 0.4 1.9 3.2 3.9 3.7 2.3

Table 5. pCO_2 and pCH_4 in the surface sea water around Spitsbergen in 1993.

Date	Latitude (N)	Longitude (E)	pCO ₂ (μatm)	pCH ₄ (µatm)
JULY 19	80-00.7	14-17.6	172.1	7.615
JULY 19	80-11.0	16-10.4	139.5	4.014
JULY 20	79-35.3	18-30.8	133.2	4.131
JULY 21	79-33.0	17-39.3	127.5	3.971
JULY 21	80-02.9	18-14.6	116.6	4.178
JULY 22	79-28.1	13-24.1	282.1	4.092
JULY 23	79-43.7	10-54.8	196.8	7.374
JULY 24	78-55.9	11-56.6	146.6	8.064
JULY 24	78-55.8	12-26.4	129.5	9.487
JULY 25	79-01.0	12-04.5	122.4	8.943
JULY 25	78-46.4	10-27.5	192.4	4.661
JULY 26	77-52.5	12-47.1	180.8	3.538
JULY 26	77-33.5	15-04.8	185.5	9.053
JULY 27	78-15.9	13-46.3	186.9	5.303
JULY 27	78-04.0	14-12.2	181.1	68.426
JULY 27	78-23.7	16-51.8	190.9	21.042
JULY 28	78-13.8	15-37.9	202.5	12.788

Table 6-1. CTD observation data in the Kongsfjorden in 1991. (Abbreviations are as follows. PRESS.: pressure, TEMP.: temperature, SAL.: salinity)

STATION: AO DATE: SEPTEMBER 10, 1991 TIME(UT): LATITUDE: 78-59.2 N LONGITUDE: 11-58.0 E		STATION: A1 DATE: SEPTEMBER 12, 1991 TIME(UT): 07:55 LATITUDE: 78-59.9 N LONGITUDE: 11-59.3 E			TIME(UT): LATITUDE:	STATION: A2 DATE: SEPTEMBER 12, 1991 TIME(UT): 07:30 LATITUDE: 79-00.2 N LONGITUDE: 12-03.2 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0	2.01	31.69	0	3.40	32.90	0	1.13	31.66
10	4.85	33.73	10	5.01	33.95	10	3.82	33.88
20	5.53	34.15	20	5.11	34.37	15	3.51	34.05
30	4.69	34.44	30	5.20	34.76			
50	5.00	34.82	50	4.49	34.81			
75	4.49	34.87						
100	4.32	34.90						
125	4.33	34.95						
150	3.98	34.87						
200	3.61	34.88						
250	2.26	34.84						
270	1.99	34.83						

STATION: A3 DATE: SEPTEMBER 12, 1991 TIME(UT): 08:25 LATITUDE: 78-59.6 N LONGITUDE: 11-59.1 E			STATION: A4 DATE: SEPTEMBER 12, 1991 TIME(UT): 09:15 LATITUDE: 78-58.7 N LONGITUDE: 11-57.8 E			STATION: A5 DATE: SEPTEMBER 12, 1991 TIME(UT): 12:21 LATITUDE: 78-56.6 N LONGITUDE: 11-56.8 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0	1.24	31.72	0	1.87	32.17	0	2.49	32.25
10	5.23	34.06	10	5.36	34.34	10	5.05	34.51
20	5.07	34.38	20	5.00	34.62	20	5.20	34.77
30	5.18	34.77	30	5.40	34.87	30	4.79	34.80
50	4.44	34.82	50	4.69	34.87	50	4.71	34.86
75	4.23	34.85	75	4.19	34.88	75	4.11	34.85
100	4.17	34.94	100	4.10	34.90	100	3.84	34.89
125	3.97	34.90	125	3.84	34.91	125	3.72	34.90
			150	3.70	34.92	150	3.58	34.91
			200	3.34	34.90	175	3.42	34.89
			250	2.12	34.85			
			260	2.03	34.84			
				······				

Table 6-1. (continued)

STATION: A6 DATE: SEPTEMBER 12, 1991 TIME(UT): 12:54 LATITUDE: 78-56.5 N LONGITUDE: 11-56.8 E		DATE: SEPT TIME(UT): LATITUDE:	STATION: A7 DATE: SEPTEMBER 12, 1991 TIME(UT): 13:19 LATITUDE: 78-56.4 N LONGITUDE: 11-56.8 E			STATION: M1 DATE: SEPTEMBER 13, 1991 TIME(UT): 06:39 LATITUDE: 78-56.0 N LONGITUDE: 12-10.3 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 10 20 30 50 75 100 115	2.49 5.23 5.08 4.83 4.62 4.03 3.82 3.75	32.09 34.58 34.77 34.82 34.85 34.87 34.92 34.90	0 10 20 30 50	2.38 5.26 4.98 4.85 4.52	32.01 34.67 34.79 34.80 34.86	0 10 20 30 50 75 100 110	0.54 4.96 5.31 5.05 4.41 4.17 3.96 3.81	32.03 34.16 34.69 34.82 34.82 34.88 34.89 34.87

STATION: M DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	EMBER 13, 07:30 78-55.9 N		STATION: M DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	EMBER 13, 08:13 78-56.5 N		TIME(UT): LATITUDE:	DATE: SEPTEMBER 13, 1991 TIME(UT): 12:47 LATITUDE: 78-56.8 N LONGITUDE: 12-01.1 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0	1.86	32.51	0	1.27	32.43	0	1.08	32.26	
10	5.25	34.28	10	5.21	34.19	10	5.30	34.52	
20	5.25	34.78	20	5.24	34.76	20	5.08	34.77	
30	4.98	34.83	30	5.06	34.88	30	4.87	34.90	
50	4.37	34.85	50	4.41	34.87	50	4.53	34.85	
75	4.14	34.86	75	4.12	34.87	75	4.09	34.89	
100	3.98	34.90	100	3.93	34.91	100	3.88	34.92	
125	3.76	34.92	125	3.92	34.92	125	3.82	34.92	
150	3.62	34.90	150	3.63	34.92	150	3.54	34.91	
200	3.29	34.91	200	3.24	34.90	200	3.30	34.92	
215	3.28	34.90	250	2.70	34.85	250	2.69	34.85	
	•		300	1.98	34.82	300	2.00	34.84	

Table 6-1. (continued)

STATION: T1 DATE: SEPTEMBER TIME(UT): 10:46 LATITUDE: 78-57 LONGITUDE: 12-0	.8 N	STATION: T DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	EMBER 22, 11:00 78-57.7 N		STATION: T3 DATE: SEPTEMBER 22, TIME(UT): 11:19 LATITUDE: 78-57.6 N LONGITUDE: 12-01.3 E		
PRESS. TE	MP. SAL. C) (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 3. 10 4. 20 4. 30 4. 40 4.	17 34.25 29 34.36 31 34.45	0 10 20 30 50 75 95	3.49 4.42 4.23 4.31 4.52 4.54 4.60	33.79 34.19 34.31 34.40 34.60 34.61 34.65	0 10 20 30 50 75 100 125 150 200 250 265	3.96 4.49 4.56 4.28 4.52 4.53 4.57 4.63 4.66 3.69 3.30 3.15	33.99 34.19 34.28 34.36 34.60 34.61 34.69 34.74 34.82 34.87 34.87

STATION: T DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	EMBER 22, 11:41 78-57.4 N		STATION: T DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	TEMBER 22, 12:14 78-57.0 N		STATION: T DATE: SEPT TIME(UT): LATITUDE: LONGITUDE:	EMBER 22, 12:30 78-56.9 N	
PRESS.	TEMP.	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0	4.27	34.10	0	4.38	34.19	0	4.40	34.20
10	4.45	34.15	10	4.39	34.19	10	4.41	34.20
20	4.56	34.25	20	4.42	34.20	20	4.43	34.22
30	4.50	34.33	30	4.42	34.23	30	4.41	34.21
50	4.46	34.55	50	4.42	34.47	50	4.40	34.46
75	4.53	34.63	75	4.61	34.69	75	4.80	34.80
100	4.53	34.68	100	5.06	34.86	100	4.99	34.87
125	4.53	34.76	125	4.96	34.89	105	4.99	34.87
150	4.61	34.80	150	4.62	34.88			
200	3.98	34.88	200	4.09	34.91			
250	3.27	34.89						
300	2.50	34.85						
335	2.12	34.82						

65

Table 6-1. (continued)

STATION: T7 DATE: SEPTEMBER 22, 1991 TIME(UT): 12:38 LATITUDE: 78-56.8 N LONGITUDE: 11-54.6 E PRESS. TEMP. SAL. (db) (°C) (PSU) 0 4.37 34.16 10 4.43 34.21 20 4.41 34.21 30 4.40 34.25 50 4.49 34.38

4.41

34.44

Table 6-2. CTD observation data in the Kongsfjorden in 1992.

STATION: 1 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	23, 1992 13:00 78-56.1 N		STATION: 2 DATE: JUNE 23, 1992 TIME(UT): 13:30 LATITUDE: 78-53.4 N LONGITUDE: 12-22.9 E			STATION: 3 DATE: JUNE 23, 1992 TIME(UT): 14:00 LATITUDE: 78-54.4 N LONGITUDE: 12-16.3 E			
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0 10 20 30 50 75 100 125 150 200 250 265	1.27 0.53 0.37 0.08 -0.77 -0.63 -0.47 0.60 0.54 0.85 0.83	32.56 33.60 33.70 33.80 33.96 34.26 34.43 34.59 34.63 34.71 34.73 34.72	0 10 20 30 40	0.19 0.04 -0.17 -0.83 -1.28	32.83 33.73 33.78 33.89 34.12	0 10 20 30 50 60	0.25 0.51 0.20 -0.15 -0.31 -0.42	33.31 33.61 33.74 33.82 33.89 33.95	

Table 6-2. (continued)

STATION: 4 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	23, 1992 14:15 78-55.1 N		STATION: 5 DATE: JUNE 23, 1992 TIME(UT): 14:30 LATITUDE: 78-55.7 N LONGITUDE: 12-04.9 E			DATE: JUN TIME(UT): LATITUDE:	STATION: 6 DATE: JUNE 23, 1992 TIME(UT): 15:00 LATITUDE: 78-56.6 N LONGITUDE: 11-59.0 E			
PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	PRESS.	TEMP. (°C)	SAL. (PSU)		
0 10 20 30 50 75 95	0.84 0.58 -0.01 -0.12 -0.76 -0.77 -0.08	33.60 33.62 33.79 33.82 34.03 34.23 34.48	0 10 20 30 50 75 100 125 150 165	1.02 0.38 0.31 0.09 -0.67 -0.67 -0.37 0.38 1.04 1.12	33.58 33.72 33.72 33.83 33.97 34.31 34.50 34.60 34.71 34.72	0 10 20 30 50 75 100 125 150 200 250 300	1.32 0.55 0.59 0.05 -0.35 -0.51 -0.17 0.12 0.84 0.82 0.79 0.84	33.55 33.64 33.56 33.87 33.96 34.32 34.47 34.60 34.64 34.71 34.74 34.72		

STATION: 7 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	24, 1992 07:40 78-56.7 N		TIME(UT): LATITUDE:	E 24, 1992		TIME(UT): LATITUDE:	DATE: JUNE 24, 1992 TIME(UT): 08:20 LATITUDE: 78-55.5 N LONGITUDE: 12-00.2 E		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	
0 10 20 30 50 75 100 110	1.83 0.77 0.31 -0.10 -0.69 -0.82 -0.45 -0.36	31.68 33.58 33.64 33.86 33.94 34.17 34.41 34.45	0 10 20 30 50 75 100 125 150 200 250 265	1.67 0.46 0.26 0.15 -0.53 -0.76 -0.56 -0.10 0.68 0.82 0.81	32.99 33.65 33.64 33.76 33.90 34.20 34.39 34.50 34.63 34.71 34.73	0 10 20 30 50 75 100 115	2.58 1.18 0.80 0.46 -0.11 -0.11 0.03 -0.06	32.26 33.57 33.71 33.78 33.94 34.20 34.45 34.50	

Table 6-2. (continued)

STATION: 10 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	24, 1992 08:40 78-57.3 N	3
PRESS.	TEMP.	SAL.
(db)	(°C)	(PSU)
0	2.09	32.66
10	1.08	33.56
20	0.92	33.68
30	0.50	33.75
50	-0.15	33.99
75	-0.02	34.29
100	-0.33	34.45
125	0.77	34.60
150	0.79	34.72
200	0.91	34.69
250	0.82	34.72
300	0.88	34.75
350	0.94	34.74

Table 6-3. CTD observation data in the Kongsfjorden in 1993.

	29, 1993		STATION: 9 DATE: MAY 29, 1993 TIME(UT): 12:00 LATITUDE: 78-56.1 N LONGITUDE: 11-59.6 E			DATE: MAY TIME(UT): LATITUDE:	STATION: 1 DATE: MAY 29, 1993 TIME(UT): 12:09 LATITUDE: 78-56.7 N LONGITUDE: 12-02.0 E			
PRESS.	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)		
0 10	-0.10 -0.19	34.20 34.35	0 10 20 30 50 75 85	1.46 0.82 0.55 0.19 -0.00 -0.13 -0.21	34.37 34.36 34.38 34.40 34.42 34.43 34.45	0 10 20 30 50 75 100 125 150 200 250 285	1.45 0.84 0.61 0.33 -0.32 -0.69 -0.77 -0.82 -0.96 -1.32 -1.22	34.24 34.36 34.35 34.40 34.39 34.41 34.42 34.45 34.45 34.50 34.53		

Table 6-3. (continued)

TIME(UT): LATITUDE:	STATION: 7 DATE: MAY 29, 1993 FIME(UT): 12:45 LATITUDE: 78-57.4 N LONGITUDE: 12-04.7 E			AY 31, 1993 DATE: MAY 31, 199): 07:30 TIME(UT): 07:55 E: 78-57.4 N LATITUDE: 78-56.1			TE: MAY 31, 1993 DATE: MAY 31, 1993			
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)		
0 10 20 30 50 75	1.41 0.60 0.36 -0.16 -0.48 -0.70	34.30 34.39 34.37 34.38 34.36 34.43	0 10 20 30 50 75 100 125 150 200 250 300 355	1.49 1.38 0.25 0.12 -0.09 -0.31 -0.40 -0.31 -0.73 -0.86 -0.97 -1.16 -1.09	34.39 34.39 34.42 34.42 34.45 34.45 34.46 34.46 34.42 34.46 34.59 34.52	0 10 20 30 50 75 100 125 150 200 250 290	1.19 0.55 0.32 -0.23 -0.37 -0.52 -0.78 -0.86 -0.77 -0.45 -1.23 -1.15	34.36 34.39 34.40 34.41 34.42 34.44 34.45 34.45 34.55 34.55 34.55		

	31, 1993		STATION: 4 DATE: MAY 31, 1993 TIME(UT): 08:51 LATITUDE: 78-55.1 N LONGITUDE: 12-10.1 E			STATION: 3 DATE: MAY 31, 1993 TIME(UT): 09:15 LATITUDE: 78-54.4 N LONGITUDE: 12-16.4 E			
PRESS.	TEMP.	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)	
0	0.89	34.39	0	0.12	34.36	0	0.02	34.29	
10	0.78	34.37	10	0.15	34.39	10	-0.02	34.33	
20	0.25	34.40	20	-0.01	34.41	20	-0.10	34.41	
30	-0.01	34.40	30	-0.18	34.41	30	-0.18	34.41	
50	-0.22	34.42	50	-0.40	34.42	50	-0.17	34.42	
75	-0.51	34.41	75	-0.48	34.42	75	-0.57	34.44	
100	-0.78	34.44	100	-0.33	34.46				
125	-0.59	34.43	125	-0.92	34.44				
150	-0.86	34.45	135	-0.93	34.45				
200	-0.30	34.54							
205	-0.40	34.52							

Table 6-3. (continued)

STATION: 1 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	3, 1993 07:42 78-56.7 N		STATION: M DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	5, 1993 08:13 78-56.3 N		STATION: Y DATE: JUNE 7, 1993 TIME(UT): 07:50 LATITUDE: 78-54.6 N LONGITUDE: 12-19.6 E		
PRESS.	TEMP.	SAL. (PSU)	PRESS.	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0 10 20 30 50 75 100 125 150 200 250 280	0.28 0.30 0.27 -0.19 -0.54 -0.67 -0.45 -0.86 -0.58 -0.87 -0.84 -0.89	34.03 34.35 34.43 34.40 34.40 34.39 34.49 34.49 34.55 34.55	0 10 20	0.83 0.71 0.56	34.39 34.40 34.39	0 10 20 30 50 55	-0.31 1.09 0.92 0.85 0.61 0.54	33.28 34.30 34.38 34.37 34.37 34.35

STATION: 3 DATE: JUNI TIME(UT): LATITUDE: LONGITUDE:	E 7, 1993 08:07 78-54.5 N		STATION: 4 DATE: JUNE 7, 1993 TIME(UT): 08:23 LATITUDE: 78-55.2 N LONGITUDE: 12-10.0 E			DATE: JUNI TIME(UT): LATITUDE:	STATION: 5 DATE: JUNE 7, 1993 TIME(UT): 08:42 LATITUDE: 78-55.7 N LONGITUDE: 12-05.2 E			
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)		
0 10 20 30 50 70	1.11 0.88 0.91 0.92 0.57 -1.19	34.21 34.36 34.37 34.36 34.36 34.45	0 10 20 30 50 75 100 125 130	0.34 0.83 0.75 0.75 0.48 -0.29 -0.81 -0.77	33.53 34.35 34.38 34.37 34.38 34.38 34.41 34.47 34.47	0 10 20 30 50 75 100 125 150 160	-0.48 0.82 0.80 0.76 0.38 -0.29 -0.61 -0.40 -0.69 -0.74	33.13 34.30 34.34 34.36 34.39 34.40 34.47 34.47		

Table 6-3. (continued)

STATION: 6 DATE: JUNI TIME(UT): LATITUDE: LONGITUDE	E 7, 1993 08:59 78-56.2 N		STATION: 9 DATE: JUNE TIME(UT): LATITUDE: LONGITUDE:	5 7, 1993 11:57 78-56.0 N		STATION: DATE: JUNE TIME(UT): LATITUDE: LONGITUDE	E 7, 1993 12:09 78-56.7 N	
PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.
(db)	(°C)	(PSU)	(db)	(°C)	(PSU)	(db)	(°C)	(PSU)
0	1.16	34.07	0	1.52	34.18	0	1.56	34.08
10	0.80	34.23	10	0.75	34.29	10	0.93	34.22
20	0.79	34.35	20	0.78	34.32	20	0.60	34.30
30	0.77	34.37	30	0.77	34.31	30	0.69	34.36
50	0.57	34.38	50	0.60	34.32	50	0.41	34.38
75	-0.14	34.40	75	0.15	34.35	75	-0.33	34.39
100	-0.23	34.42	85	-0.13	34.34	100	-0.54	34.41
125	-0.53	34.44				125	-0.85	34.31
150	-0.75	34.47				150	-0.75	34.45
200	-0.64	34.54				200	-0.81	34.51
250	-0.50	34.59				250	-0.85	34.54
275	-0.28	34.61	İ			270	-0.85	34.54

STATION: 7 DATE: JUNI TIME(UT): LATITUDE: LONGITUDE:	E 7, 1993 12:33 78-57.4 N			E 7, 1993		STATION: DATE: JUNI TIME(UT): LATITUDE: LONGITUDE	E 8, 1993 07:46 78-56.7 N	
PRESS.	TEMP.	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 10 20 30 50 75 95	-0.16 0.68 -0.06 0.67 -0.37 -0.47 -0.50	33.51 34.18 34.30 34.36 34.37 34.40 34.40	0 10 20 30 50 75 100 125 150 200 250 300	1.72 0.76 0.59 0.50 0.31 -0.17 -0.29 -0.52 -0.76 -0.95 -0.91	34.14 34.37 34.39 34.39 34.43 34.45 34.45 34.52 34.54 34.55 34.57	0 10 20 30 50 75 100 125 150 200 250 285	0.91 0.82 0.57 0.17 0.04 -0.39 -0.63 -0.76 -0.82 -0.81	34.17 34.32 34.36 34.35 34.33 34.41 34.38 34.43 34.46 34.52 34.54

Table 6-3. (continued)

STATION: 1 DATE: JUNE 8, 1993 TIME(UT): 12:22 LATITUDE: 78-56.7 N LONGITUDE: 12-01.9 E			STATION: 1 DATE: JUNE 8, 1993 TIME(UT): 16:12 LATITUDE: 78-56.8 N LONGITUDE: 12-01.9 E			DATE: JUNE TIME(UT): LATITUDE:	STATION: 1 DATE: JUNE 8, 1993 TIME(UT): 20:25 LATITUDE: 78-56.6 N LONGITUDE: 12-01.6 E		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	
0	1.67	34.16	0	2.29	33.75	0	1.19	34.23	
10	0.70	34.32	10	0.54	34.14	10	0.37	34.29	
20	0.12	34.28	20	0.38	34.25	20	0.39	34.33	
30	0.47	34.26	30	0.20	34.31	30	0.23	34.35	
50	0.13	34.35	50	0.10	34.33	50	0.15	34.35	
75	-0.32	34.38	75	-0.41	34.33	75	-0.49	34.37	
100	-0.37	34.40	100	-0.40	34.39	100	-0.63	34.40	
125	-0.56	34.42	125	-0.49	34.40	125	-0.65	34.47	
150	-0.90	34.44	150	-0.87	34.42	150	-0.79	34.46	
200	-0.82	34.48	200	-0.80	34.48	200	-0.80	34.52	
250	-0.83	34.50	250	-0.81	34.52	250	-0.82	34.53	
275	-0.73	34.53	275	-0.76	34.52	270	-0.74	34.54	

STATION: M DATE: JUNE 11, 1993 TIME(UT): 13:00 LATITUDE: 78-56.3 N LONGITUDE: 11-56.5 E		DATE: JUNI TIME(UT): LATITUDE:	STATION: M DATE: JUNE 12, 1993 TIME(UT): LATITUDE: 78-56.3 N LONGITUDE: 11-56.5 E			STATION: 3 DATE: JUNE 14, 1993 TIME(UT): 07:40 LATITUDE: 78-54.4 N LONGITUDE: 12-16.2 E		
PRESS. (db)	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP.	SAL. (PSU)
0 10 15	1.82 0.96 0.89	34.18 34.40 34.36	0 10 15	1.45 0.58 0.53	34.44 34.39 34.41	0 10 20 30 50 75	0.04 0.53 0.47 0.43 0.08 -0.30	34.08 34.33 34.39 34.35 34.35 34.27

Table 6-3. (continued)

STATION: 4 DATE: JUNE 14, 1993 TIME(UT): 08:04 LATITUDE: 78-55.2 N LONGITUDE: 12-10.0 E			DATE: JUNE TIME(UT): LATITUDE:	STATION: 5 DATE: JUNE 14, 1993 TIME(UT): 08:20 LATITUDE: 78-55.7 N LONGITUDE: 12-05.3 E			STATION: 6 DATE: JUNE 14, 1993 TIME(UT): 08:40 LATITUDE: 78-56.2 N LONGITUDE: 12-01.6 E		
PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.	
(db)	(°C)	(PSU)	(db)	(°C)	(PSU)	(db)	(°C)	(PSU)	
0	1.04	34.38	0	1.07	33.35	0	1.15	34.37	
10	0.69	34.41	10	0.95	34.37	10	1.03	34.34	
20	0.67	34.37	20	0.87	34.36	20	0.55	34.34	
30	0.26	34.42	30	0.08	34.39	30	0.40	34.38	
50	0.10	34.41	50	-0.23	34.40	50	-0.02	34.32	
75	-0.22	34.43	75	-0.42	34.43	75	-0.55	34.41	
100	-0.56	34.41	100	-0.64	34.42	100	-0.62	34.43	
125	-0.54	34.45	125	-0.63	34.45	125	-0.34	34.49	
135	-0.54	34.47	150	-0.70	34.48	150	-0.51	34.48	
			195	-0.37	34.52	200	-0.62	34.53	
						250	-0.42	34.58	
						285	-0.23	34.61	

STATION: 9 DATE: JUNE 14, 1993 TIME(UT): 09:08 LATITUDE: 78-56.1 N LONGITUDE: 11-59.5 E			DATE: JUNI TIME(UT): LATITUDE:	STATION: 1 DATE: JUNE 14, 1993 TIME(UT): 12:52 LATITUDE: 78-56.7 N LONGITUDE: 12-02.0 E			STATION: 7 DATE: JUNE 14, 1993 TIME(UT): 13:24 LATITUDE: 78-57.4 N LONGITUDE: 12-04.7 E		
PRESS. (db)	TEMP.	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)	
0	1.30	34.34	0	1.21	34.31	0	1.16	34.17	
10 20	0.82 0.48	34.38 34.38	10 20	1.05 1.03	34.32 34.34	10 20	$0.96 \\ 0.98$	34.22 34.28	
30	0.17	34.41	30	0.33	34.36	30	0.54	34.35	
50	0.03	34.42	50	0.09	34.38	50	-0.11	34.42	
75	-0.23	34.42	75	-0.42	34.39	75	-0.41	34.40	
85	-0.31	34.44	100	-0.71	34.38	80	-0.48	34.26	
			125	-0.90	34.43				
			150	-0.78	34.46				
			200	-0.58	34.51				
			250	-0.23	34.59				
			295	-0.31	34.59				

Table 6-3. (continued)

TIME(UT): 13:45 LATITUDE: 78-57. LONGITUDE: 11-55		TIME(UT): LATITUDE:	E 15, 1993 11:41 78-56.8 N : 12-01.9		DATE: JUNI TIME(UT): LATITUDE: LONGITUDE	78-56.7 N	
PRESS. TEM (db) (°C		PRESS. (db)	TEMP.	SAL. (PSU)	PRESS. (db)	TEMP. (°C)	SAL. (PSU)
0 1.4 10 0.9 20 0.4 30 0.2 50 0.2 75 -0.1 100 -0.4 125 -0.5 150 -0.5 200 -0.4 250 -0.2 300 -0.2	34.32 34.39 34.38 34.40 34.43 34.45 34.45 34.49 34.71 34.61	0 10 20 30 50 75 100 125 150 200 250 275	2.73 2.30 0.83 0.73 0.32 -0.43 -0.60 -0.68 -0.65 -0.71 -0.30 -0.32	34.28 34.02 34.32 34.35 34.36 34.36 34.40 34.39 34.44 34.50 34.56 34.57	0 10 20 30 50 75 100 125 150 200 250 285	3.56 1.93 1.53 0.88 0.23 -0.37 -0.66 -0.74 -0.76 -0.67 -0.29 -0.32	33.84 34.29 34.31 34.33 34.36 34.38 34.38 34.41 34.46 34.53 34.57

TIME(UT): LATITUDE:	E 17, 1993		TIME(UT): LATITUDE:	E 18, 1993		STATION: DATE: JUN TIME(UT): LATITUDE: LONGITUDE	E 18, 1993 08:00 78-55.7 N	
PRESS.	TEMP. (°C)	SAL. (PSU)	PRESS (db)	TEMP.	SAL. (PSU)	PRESS.	TEMP.	SAL. (PSU)
(45)		(150)	(40)		(1 50)	(ub)	(0)	(150)
0	3.88	34.23	0	4.41	32.92	0	4.23	34.17
10	2.21	34.28	10	2.65	34.28	10	2.60	34.24
20	1.44	34.32	20	2.29	34.25	20	2.23	34.28
30	0.64	34.36	30	1.91	34.28	30	1.73	34.30
50	-0.08	34.34	50	0.54	34.32	50	0.44	34.37
75	-0.45	34.34	75	-0.57	34.36	75	-0.40	34.40
100	-0.66	34.38	100	-0.86	34.36	100	-0.59	34.41
125	-0.65	34.41	125	-0.85	34.39	125	-0.62	34.46
150	-0.59	34.46				150	-0.66	34.47
200	-0.54	34.53				200	-0.26	34.58
250	-0.35	34.55				205	-0.22	34.61
275	-0.23	34.58						

Table 6-3. (continued)

TIME(UT): LATITUDE:	E 18, 1993		STATION: 10 DATE: JUNE 18, 1993 TIME(UT): 08:40 LATITUDE: 78-57.5 N LONGITUDE: 11-55.0 E				
PRESS.	TEMP.	SAL.	PRESS.	TEMP.	SAL.		
(db)	(°C)	(PSU)	(db)	(°C)	(PSU)		
0	4.17	34.11	0	3.64	33.76		
10	2.55	34.27	10	2.55	34.27		
20	2.12	34.25	20	2.28	34.30		
30	1.34	34.32	30	1.66	34.29		
50	0.26	34.38	50	0.13	34.39		
75	-0.25	34.40	75	-0.22	34.43		
100	-0.55	34.42	100	-0.63	34.42		
125	-0.73	34.46	125	-0.47	34.42		
150	-0.69	34.51	150	-0.53	34.48		
200	-0.29	34.60	200	-0.53	34.57		
250	0.16	34.63	250	-0.15	34.61		
280	0.71	34.69	300	0.09	34.64		
			355	1.16	34.77		